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Chevron DMG SWD Pilot Project Case Nos. 23686, 23687

Chevron Water Strategy Team November 8-9, 2023

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

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 23686

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN EDDY COUNTY, NEW MEXICO.

CASE NO. 23687

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Tab A: Application Case No. 23686 (includes C-108)

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

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 23686

APPLICATION

Chevron USA Inc. ("Chevron"), OGRID No. 4323, through its undersigned attorneys, hereby applies 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, Chevron states as follows:

- (1) Chevron proposes to drill the Papa Squirrel State SWD #1 well at a surface location 1,928' from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.
- (2) Chevron seeks authority to inject salt water into the Bell Canyon/Cherry Canyon/Brushy Canyon from 4,625' to 8,939'.
- (3) The tubing packer will be set at 4,525' feet, and production casing and cement will be set at 8,500'.
- (4) Chevron requests that the Division approve a maximum daily injection rate for the well of 20,000 BWPD.
 - (5) Chevron requests that a maximum pressure of 925 psi be approved for the well.
 - (6) A proposed C-108 for the subject well is attached hereto in Attachment A.

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

WHEREFORE, Chevron requests that this application be set for hearing before an Examiner of the Oil Conservation Division on August 3, 2023; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

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

eena M. Bennett

By.

Deana Bennett

Earl E. DeBrine, JR. Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 Attorneys for Applicant CASE NO. 23686: Application of Chevron USA Inc. for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving the Papa Squirrel State SWD #1 well at a surface location 1,928' from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 4625 feet to 8939 feet. The tubing packer will be set at 4525 feet, and production casing and cement will be set at 8500 feet. The maximum anticipated injection rate will be 20,000 BWPD and maximum surface injection pressure will be 925 psi. Said area is located approximately 26 miles west of Jal, New Mexico.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

1.	PURPOSE: Secondary Recovery Application qualifies for administrative approval?	Pressure Maintenance Yes	X No	Disposal	Storage
II.	OPERATOR: Chevron USA Inc.				
	ADDRESS: 6301 Deauville Blvd, Midland, TX 79706				
	CONTACT PARTY:Tom Merrifield			PHONE: _	661-448-7489
III.	WELL DATA: Complete the data required on the reverse Additional sheets may be attached if neces		ll proposed	l for injection	•
IV.	Is this an expansion of an existing project? If yes, give the Division order number authorizing the project.	Yes X No			
V.	Attach a map that identifies all wells and leases within two drawn around each proposed injection well. This circle id	miles of any proposed inject entifies the well's area of rev	tion well w riew. ATT	rith a one-half ACHMENT	mile radius circle 1
VI.	Attach a tabulation of data on all wells of public record wird data shall include a description of each well's type, constru of any plugged well illustrating all plugging detail. ATTA	ction, date drilled, location, o	penetrate the depth, record	the proposed i rd of completi	njection zone. Such on, and a schematic
VII.	Attach data on the proposed operation, including: ATTA	CHMENT 3			
	 Proposed average and maximum daily rate and volume Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid a produced water; and, If injection is for disposal purposes into a zone not prochemical analysis of the disposal zone formation water wells, etc.). 	nd compatibility with the red	thin one mi	ile of the prop	osed well, attach a
VIII.	Attach appropriate geologic data on the injection zone includes the geologic name, and depth to bottom of all underground dissolved solids concentrations of 10,000 mg/l or less) over the immediately underlying the injection interval. ATTAC	l sources of drinking water (a orlying the proposed injection	aquifers co	ntaining water	rs with total
IX.	Describe the proposed stimulation program, if any. ATTA	CHMENT 5			
*X. ATT XI.	Attach appropriate logging and test data on the well. (If we TACHMENT 6 Attach a chemical analysis of fresh water from two or more injection or disposal well showing location of wells and date			•	,
XII.	Applicants for disposal wells must make an affirmative stat and find no evidence of open faults or any other hydrologic drinking water. ATTACHMENT 8	ement that they have examin	ed availabl	le geologic an	d engineering data
XIII.	I. Applicants must complete the "Proof of Notice" section on	the reverse side of this form.	ATTACH	IMENT 9	
XIV.	7. Certification: I hereby certify that the information submitted	with this application is true a	and correct	to the best of	my knowledge and
	belief.				
	NAME:	TITLE	E:		
	SIGNATURE:		_DATE: _		
	LAUDII	tal:			
DIST	RIBUTION: Original and one c 3 OCD Examiner He	to the appropriate District (earing - Nov. 8-9, 2023	Office		Page 1

Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Page 2

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia. NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 District III 100G Rio Brazos Ruscl, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

<u>District IV</u> 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

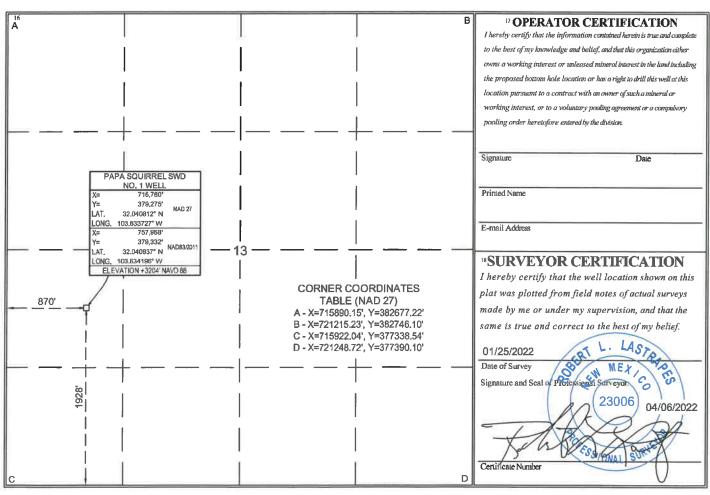
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

WEBE BOOKING TROUBLES BEDIEFING TEXT									
API Num	ber	² Pool C	ode		³ Pool Name				
		9610	0	SWD; DELAWARE					
ty Code			5 P	roperty Name				6 1	Well Number
			PAPA S	QUIRREL SW	/D				1
ID No.			* O	perator Name					⁹ Elevation
4323			CHEVRON U.S.A. INC.				3204'		
¹⁰ Surface Location									
or lot no. Section Township Range Lot			Lot Idn	Feet from the	North/South line	Feet from the	East/West line		
13	26 SOUTH	SOUTH 32 EAST, N.M.P.M.			SOUTH	870'	WE	ST	LEA
		¹¹ Bottom H	ole Locat	ion If Diff	erent From S	Surface			
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/\	West line	County
13	26 SOUTH	32 EAST, N.M.P.M.		1928'	SOUTH	870'	WE	ST	LEA
cres 13 Join	t or Infill	14 Consolidation Code 15	Order No.						
	Section 13	Section Township 13 26 SOUTH Section Township 13 26 SOUTH	API Number 2 Pool C 9610	API Number	API Number	API Number	1 API Number 2 Pool Code 3 Pool Na 5 Property Name PAPA SQUIRREL SWD 1D No. 8 Operator Name CHEVRON U.S.A. INC. 10 Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the 13 26 SOUTH 32 EAST, N.M.P.M. 1928' SOUTH 870'	API Number	API Number

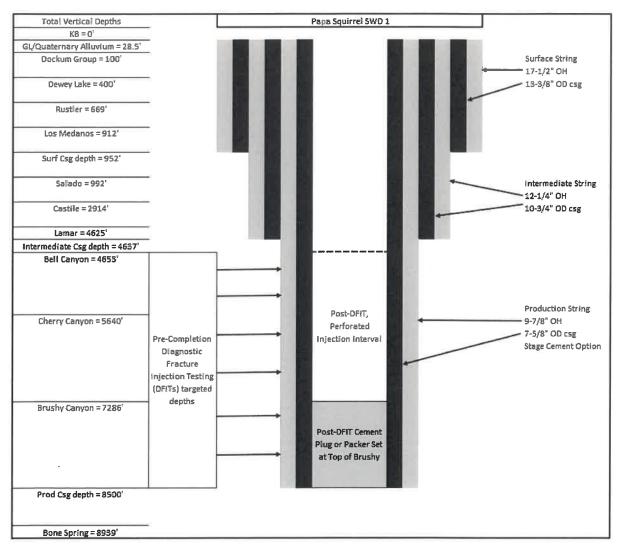
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Page 4

Side 1	INJE	CTION WELL DATA SI	НЕЕТ	
OPERATOR:	Chevron U.S.A. Inc	C.		
WELL NAME & NUM	MBER: Papa Squirrel SWI	D 1		
WELL LOCATION:	1928' from South, 870' from	West, L	13, 26	South, 32 East, N.M.P.M.
WEEL BOOM TON	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP RANGE
<u>WELI</u>	LBORE SCHEMATIC			
Se	e next page	Hole Size:	17-1/2"	Casing Size: 13-3/8"
	1 0		WELL CONSTRUCTION DATA 'Surface Casing 17-1/2" Casing Size: 13-3/8" 380 sx. or 497 ft³ Surface Method Determined: Volumetric Intermediate Casing 12-1/4" Casing Size: 10-3/4" 320 sx. or 758 ft³ Surface Volumetric	
		Top of Cement:	TO 1	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Top of cement.	Intermediat	
		Hole Size:	12-1/4"	Casing Size: 10-3/4"
		Cemented with:	320 _{sx.}	or 758 ft ³
		Top of Cement:	Surface	Volumetric
			Production	Casing
		Hole Size:	9-7/8"	Casing Size: 7-5/8"
		Cemented with:	650 _{sx}	or
		Top of Cement:	Surface	Volumetrie
			3500'	Wellou Determined.
		Total Deptil.	Injection 1	Interval
			1625'	**************************************
* Brushy Canyon targeted for injecti	is included as a potential injection interval. Toon, but the SA&O data and analysis may ind	The Brushy is not intentionally icate that fluids migrate into	v	

Brushy, but are contained by the Bone Spring Limestone.



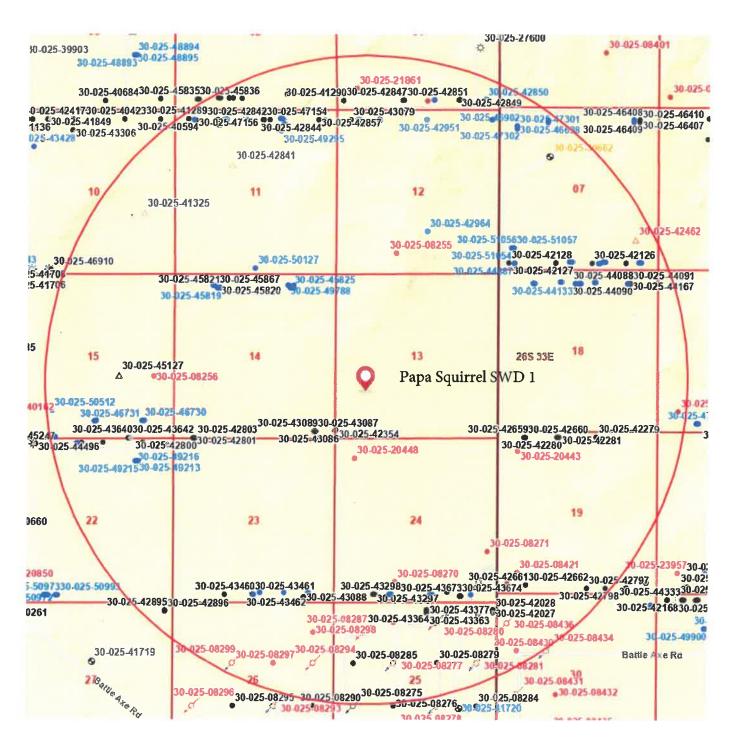
Page 5

Side 2

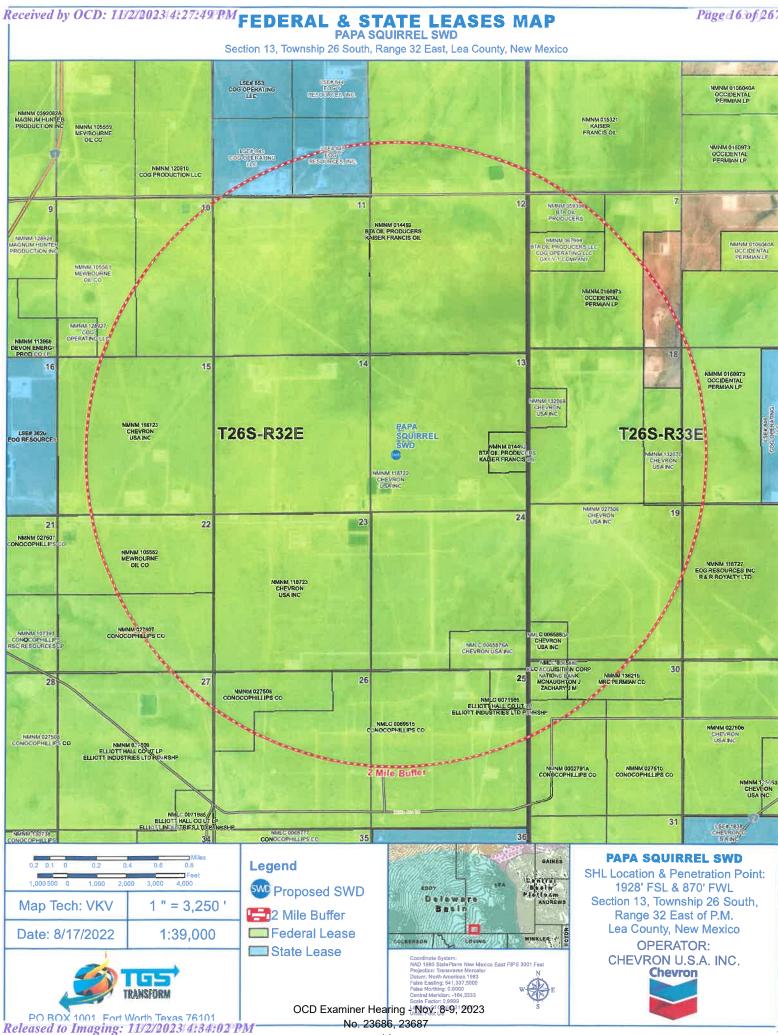
		INJECT	ION WELL DATA SHEET
Tul	bing Size:	5-1/2"	Lining Material:
Ту	pe of Packer:	lydraulically	set packer
Pa	cker Setting Depth:	4525'	
Ot	her Type of Tubing/O	Casing Seal (if app	olicable):
			Additional Data
1.	Is this a new well o	Irilled for injection	
	If no, for what pur	oose was the well	originally drilled?
2.	Name of the Inject	ion Formation:	Bell Canyon, Cherry Canyon, and Brushy Canyon
3.	Name of Field or P	ool (if applicable)	SWD; Delaware Mountain Group
4.	Has the well ever b	een perforated in	any other zone(s)? List all such perforated
	intervals and give p	olugging detail, i.e s a proposed	d new SWD well.
5.	injection zone in th	Depths are w	or gas zones underlying or overlying the proposed rithin a 3 mile area. 1 (8,819-9,749 ft TVD), Bone Spring (8,706-12,028 ft TVD),
	Devonian (17,468-1	7,567 ft MD), Morro	ow (15,999-16,050 ft MD), Pennsylvanian (14,370-14,826 ft MD),
	Silurian (17,4	64-17,512 ft	MD), and Wolfcamp (9,065-13,145 ft TVD).
ta		but the SA&O dat	ial injection interval. The Brushy is not intentionally a and analysis may indicate that fluids migrate into the pring Limestone.

Page 6

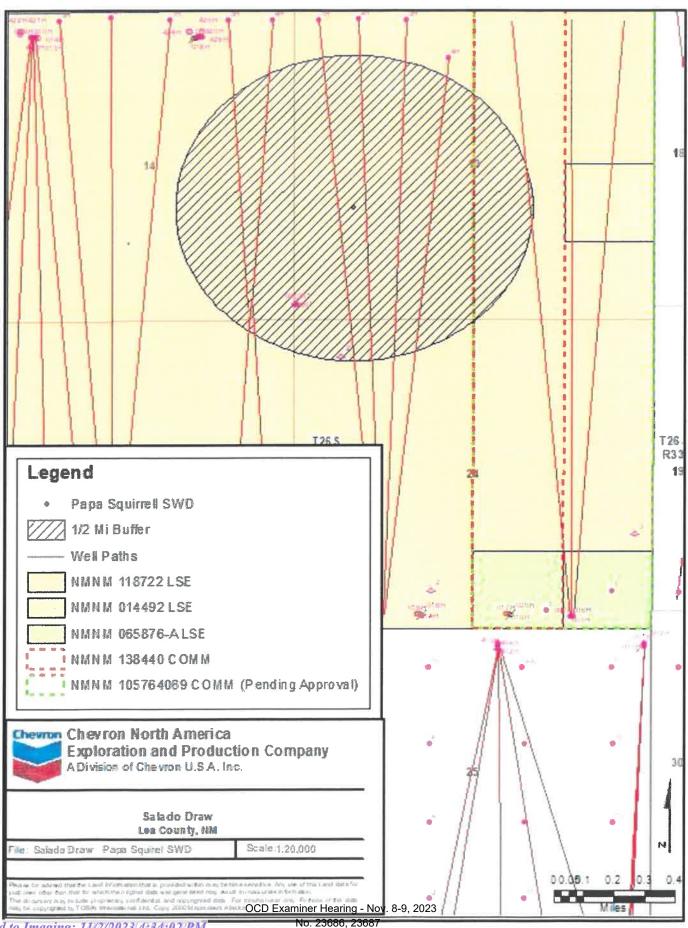
ATTACHMENT 1 Item V



Papa Squirrel SWD 1: 2.0 mile radius circle map showing all wells within the radius.



Federal and State Lease Map (1/2 Mi Radius)



ATTACHMENT 2 Item VI

83		Well							Measured	Vertical			Miles from
API	Well Name	Type		Well Status OGRID Name	Section Tow	nship Rang	Section Township Range Latitude 83 Longitude 83 Depth	Longitude 83		Depth	Associated Pools	Plug Date	SWD
30-025-43086	30-025-43086 SD WE 14 FEDERAL P7 #003H Oil	oil	Active	CHEVRON U S A INC	14 265	32E	32.0362	-103,6393	13,816		[97838] JENNINGS, UPPER 9,074 BONE SPRING SHALE		0.4
30-025-43087	10-025-43087 SD WE 14 FEDERAL P7 #004H Oil	lio	Active	CHEVRON U S A INC	14 265	32E	32.0362	-103.6391	13,816		[97838] JENNINGS, UPPER 9,074 BONE SPRING SHALE		0.4
30-025-43089	:0-025-43089 SD WE 23 FEDERAL P7 #004H Oil	ïö	Active	CHEVRON U S A INC	14 265	32E	32.0362	-103.639	14,002	9,030	[97838] JENNINGS, UPPER 9,030 BONE SPRING SHALE		0.4
30-025-42354	30-025-42354 SALADO DRAW SWD 13 #001 SWD	SWD	Active	NGL WATER SOLUTIONS PERMIAN, LLC	13 265	32E	32.0364	-103.637	18,675		[97869] SWD, DEVONIAN- 18,675 SILURIAN		0.3
30-025-20448	30-025-20448 PRE-ONGARD WELL #002	Ö	Plugged (site released)	PRE-ONGARD WELL OPERATOR	24 265	32E	32,0338	'			4.645 No Data	8/20/1963	

Data tabulation of wells in Area of Review of the Papa Squirrel SWD 1.

Budget Bureau No. 42-R358.4. Form Approved.

ab. 1951)	AUG 21 1983	(SUBMIT IN TRIPLICATE)
o A0	J. L. GORDON TING DISTRIC DERA	UNITED STATES REPMENT OF THE INT

Land Office			
Lease No	IC -	065876 -	
Unit		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	- 1	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		
NOTICE OF INTENTION TO PULL OR ALIER CASING	X	SUPPLEMENTARY WELL HISTORY
	- 10	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

PEDERAL LIPPLEPIELD "	DR "	August 2	0,	, 1963
Well No. 2 is located	660 ft	. from ${N \brack {m g}}$ line and	660 ft. from \[\bigwedge	line of sec. 24
W/4 Section 24	26-8	32-E	MOM	
(14 Sec. and Sec. No.) Wildest	(Twp.)	(Range)	(Meridian)	extico
(Field)	(County or Subdivision)	(State or	Territory)

The elevation of the derrick floor above sea level is 3182.8 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, comenting points, and all other important proposed work)

Well was completed dry at a total depth of 4645' on 8-19-63.

It is proposed to run drill pipe to 4645'. Spot cement plug from 4645 to 4545'; and to 800'; cement to 750'; and to 425'; cement to 375'; and to 50'; and cement to surface leaving 384' of 8-5/8" casing in hole. Set marker and abandon.

Location will be cleaned up and pits filled.

Verbal approval received from Mr. J. L. Gordon, by phone 8-20-61.

Company

P. O. Box 980

Address

W. W. WHITAKER

By

Title

Title

Area Engineer

GPO 914974

Budget Bureau No. 42-R358.4. Page 21 of 267 Form Approved.

b. 19				Land Office
		Δ	PPROVE UNITED STATES	Lease No. 12-065876-A
		* 3	FEB 3 DEPARTMENT OF THE INTERIOR	Unit
			GEOLOGICAL SURVEY	
	}		E. G. HUBBLE CTING DISTRICT ENGINEER ATT 3 7 029 00 . = 1	:

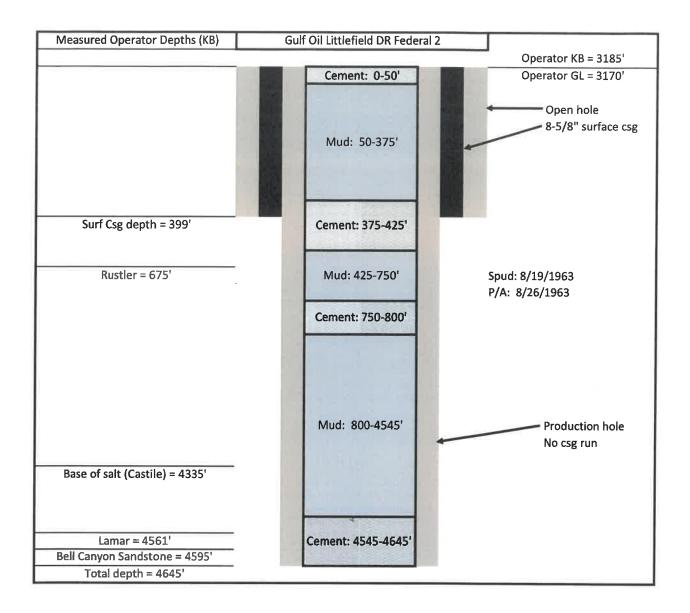
E. G. HUBBLE ACTING DISTRICT ENGINEER AT	1 30 629 60, =
• • •	D REPORTS ON WELLS
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF ALTERING CASING
(INDICATE ABOVE BY CHECK MARK NAT	URE OF REPORT, NOTICE, OR OTHER DATA)
Federal Littlefield "TR"	<u>January 20</u> , 19 <u>04</u>
Well No. 2 is located 600 ft. from 2	$\binom{N}{S}$ line and $\binom{N}{W}$ line of sec. $\binom{24}{W}$
Wilder Joseph (County or Built The elevation of the derrick floor above sea level in the control of the control of the derrick floor above sea level in the control of the derrick floor above sea level in the control of the derrick floor above sea level in the control of the derrick floor above sea level in the control of the derrick floor above sea level in the control of the derrick floor above sea level in the control of the der	ge) (Meridian) L FEET CO division) (State or Territory)
	OF WORK
	eights, and lengths of proposed casings; indicate mudding jobs, cement- important proposed work)
Well was completed dry at 4045' on 8-19	-63.
	spotted 39 sacks cement 4645' to 4545'; '50'; said to 425'; 20 sacks cement to 375'; leaving 384' of 8 5/8" casing in bole.
Location is cleaned up and ready for in	spection.
I understand that this plan of work must receive approval in writi	ng by the Geological Survey before operations may be commenced.
Company Gulf Gil Corporation	
Address F. O. Box 980	SRIGHTAL SIGNED
Kermit, Toms	By W. W. WHITAKES

GPO 914974

Title rea Engineer

COUNTY Lea FIELD WIL	dcat	STA	ATE N.M. NO.	
OPR Gulf Oil Corporation			MAP	
NO. 2 LSE Littlefield "I	R" Federal		7.50	
SEC. 24 T. 26S R 32E	SUR.		CO-ORD.	
Loc. 660' fr N & W Lines o	of Sec.			
MI. FROM P&A		CLASS.	EL.	
SPUD. 8-13-63 €0MF. 8-20-6	3 FORMATION	DATUM	FORMATION	DATUM
IRI.	LOG:			
	Rust 675			
CSG. & SX.	B/Salt 4335			
8 5/8" 399 250	Del 1s 4561			
0 10 10 20	Del sd 4595			
	THET SO 4393			
TBG. DEPTH SIZE				
LOGS EL GR RA IND HC A				
	TD 4645		PB	
		GOR GT	Y C. P. T. F	HRS. TEST
PLUG	GED & ABANDOI	NED		
Distribution limited and Reproduction rights re	publication prohibited	by subscriber	s' agreement.	
Reproduction rights re	served by Williams & I	Lee Scouting 5	Service, Inc.	
CONT. Johnn Drlg. Co.		ROP DEPTH	4950 TYP	

F.R. 8-15-63, Delaware PD 4950'-Johnn Drlg. Co. 8-19-63 Drlg. 4435'. Oper's Elev. 3185' KB. TD 4645', PLUGGED & ABANDONED. No tests or cores.



Schematic of plugging detail of Gulf Littlefield DR Federal 2 (API 30-025-20445).

ATTACHMENT 3 Item VII

ltem	Well 5.5" tubing	Papa Squirrel SWD #1
1)	Permit Max Rate (bwpd)	20,000
1)	Permit Avg Daily Rate (bwpd)	15,000
2)	System	closed
3)	Permit Max Pressure (psig)	925
3)	Permit Avg Pressure (psig)	750

Item	Water Requi	Water Requirements		
4)	Injected fluid is produced water.	Source WQ of injectate and receiving formation is not required per application.		
	Disposal Zone Water Quality	for non-productive in 1 mile		
5)	SD24 13 FED P416 17H (API 3002547303)			
	Results on next page			

Sample Name / Well	No.		SD24 13 FED P416 17H
Date Received			Tuesday, June 21, 2022
Lab Sample #			25168
			Northpark Geotechnical
Address of Testing			Center 100 Northpark Blvd.,
Laboratory			Covington, LA 70433
Date sampled			6/16/2022
Time Sampled			12:00
Area & Block			Salado Draw
Depth			6504.00ft MD
Reservoir			Cherry Canyon
Analyte	Method	Symbol	mg/L
Chloride	IC	CI-	159942
Bromide	IC	Br	1135.2
lodide	IC	1-	35.68
Sulfate	IC	SO ₄ 2-	564.12
Nitrate	IC	NO ₃ -	10.63
Phosphate	IC	as PO ₄ 3-	BDL
Total Alkalinity	Titration	as HCO₃-	1127
Organic Acids	Titration	NVWA	ND
Weak Bases	Titration	as NH ₄ +	ND
Bicarbonate	Titration (calc.)	as HCO₃⁻	NA
Acetate	IC	CH₃COO-	BDL
Propionate	IC	(C ₂ H ₅)COO-	BDL
Formate	IC	HCOO-	BDL
Butyrate	IC	(C ₃ H ₇)COO-	BDL
Sodium	ICP-AES	Na	64989
Potassium	ICP-AES	К	1808.07
Calcium	ICP-AES	Ca	33684.88
Magnesium	ICP-AES	Mg	2305.32
Strontium	ICP-AES	Sr	1361.01
Barium	ICP-AES	Ва	<0.1
Iron	ICP-AES	Fe	<0.05
Manganese	ICP-AES	Mn	<0.05
Lithium	ICP-AES	Li	15.32
Aluminum	ICP-AES	Al	0.72
Silicon	ICP-AES	Si	1.60
Boron	ICP-AES	В	24.19
Phosphorus	ICP-AES	Р	0.39

Zinc	ICP-AES	Zn	2.44
Lead	ICP-AES	Pb	<0.25
Nickel	ICP-AES	Ni	<0.1
Chromium	ICP-AES	Cr	<0.05
Copper	ICP-AES	Cu	<0.1
Molybdenum	ICP-AES	Мо	<0.05
Sulfur (total)	ICP-AES	S	449.50
Properties	Method	Units	
Field pH	colorimetric	(-log(H+))	8.12
Lab pH (25°C)	potentiometric	(-log(H+))	8.77
TDS	calculated	mg/L	266525
Density (60°F, 1 bar)	Anton Parr meter	g/cm ³	1.190
Conductivity @ 25°C	measured	μmhos/cm	226610
Resistivity @ 25°C	measured	ohm-m	0.044
Charge Balance Error	calculated	%	2.36

Abbreviations:

ICP-AES: Inductively Coupled Plasma Atomic Emission Spectrosco	ру
IC: Ion Chromatography	
BDL: Below Detection Limit	
< * : Below Reporting Limit (*)	
NT: Not Tested	
ND: Not Detected	65
NA: Not Available / Not Applicable	

ATTACHMENT 4 Item VIII

Formation/Geologic Feature Tops & Datum	Lithology	TVD (from Datum)	Z (SSTVD)
KB (Kelly Bushing)	Datum	0.0	3,232.5
GL (ground surface)	Ground Surface	28.5	3,204.0
01 - Dockum Group	Sandstone	100.0	3,132.5
02 - Dewey Lake	Sandstone	400.0	2,832.5
03 - Rustler	Carbonates	669.0	2,563.5
04 - Los Medanos	Siltstone	912.0	2,320.5
05 - Saldo	Halite	992.2	2,240.3
06 - Castile	Anhydrite	2914.4	318.1
07 - Lamar	Carbonates	4625.3	-1,392.8
08 - Bell Canyon	Sandstone	4652.9	-1,420.4
09 - Cherry Canyon	Sandstone	5640.1	-2,407.6
10 - Brushy Canyon	Sandstone	7285.5	-4,053.0
11 - Bone Spring Limestone	Carbonate	8939.0	-5,706.5

Geologic prognosis tops of all formations to be encountered in the Papa Squirrel SWD 1.

ATTACHMENT 5 Item IX

Proposed acid stimulation as part of the completion for the Papa Squirrel SWD 1.

- 1. MI/RU Petroplex Acid and Gladiator N2 Unit
- 2. Perform pressure pumping checklist and record in wellview.
- 3. Rig up Petroplex acid lines and tie in to 4-1/16" wing valve on tree. Test all lines against wing valve to 2,100 psi for 5 min
 - Install tee in Petroplex lines to allow N2 line to be rigged up. Test all N2 lines against wing valve to 2,100 psi for 5 min
- 4. Pump Acid job per Petroplex Pump Schedule diverting with N2 as required.
 - Max pressure for job will be 925 psi
 - Discuss with WOE for operational pressure limits during job.
 - Diversion will be treated with 1,250 scf/bbl of N2
- 5. Once acid is complete R/D Petroplex and Gladiator
- 6. Secure and shut in well.

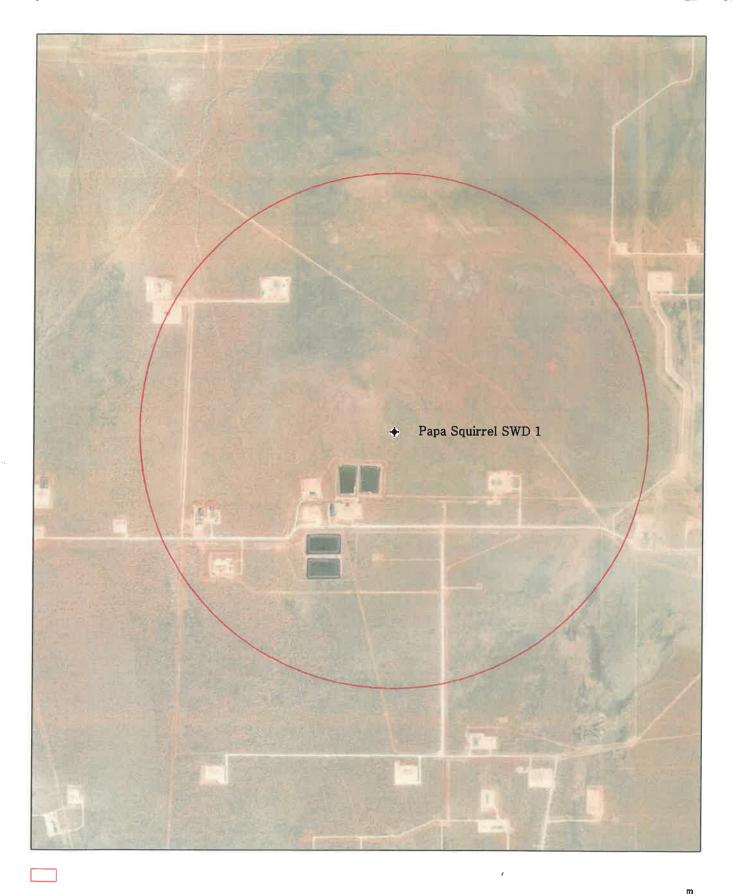
ATTACHMENT 6 Item X

No logs have been run on the Papa Squirrel SWD 1. This is a planned well.

The following open hole logs are planned to be run if hole conditions allow: gamma-ray, resistivity, neutron-density, sonic, and image logs.

Production casing will be installed from surface to near the base of the Brushy Canyon Formation. A total of approximately six Diagnostic Fracture Injection Tests (DFITs) are planned for the Bell Canyon, Cherry Canyon and Brushy Canyon Formations. After the DFITs are run, the Brushy Canyon will be plugged. The Cherry Canyon and Bell Canyon will be perforated to the base of the Lamar Limestone. A step rate test will be run on the Bell Canyon and Cherry Canyon Formation permitted injection interval.

ATTACHMENT 7 Item XI



No fresh water wells within one mile of the Papa Squirrel SWD 1.

ATTACHMENT 8 Item XII



George T. (Tom) Merrifield, Jr., PG SWD DRP Geologist Chevron U.S.A. Inc. 6301 Deauville Blvd Midland, TX 79706 Phone +1 661-448-7489 tommerrifield@chevron.com

April 10, 2023

Dylan Fuge, Acting Director Oil Conservation Division 1220 South St. Francis Dr. Sante Fe, New Mexico 87505

Re: Affirmation Statement C-108 Applications

Papa Squirrel SWD 1 and Severitas 2 State SWD 1

Dear Mr. Fuge:

With the increase of induced seismicity due to deep produced water injection, in 2021 Chevron decided to evaluate the potential for shallow injection in both Texas and New Mexico with exhaustive manpower and technical effort.

This effort led to the following technical evaluations of the DMG: (1) the location of high confident shallow faults in our active development areas using available seismic reflection data (2) assessment of seismic risk of any such shallow faults, (3) other geologic and reservoir engineering assessments addressing storage capabilities, potential impacts, and mitigation, and (4) collaboration and joint efforts with other operators.

Both the Papa Squirrel SWD 1 and Severitas 2 State SWD 1 are locations which we find no indication of open faults at the surface or in the subsurface and no indication of hydraulic connection between the proposed injection zone (Bell Canyon and Cherry Canyon) and an underground source of drinking water (USDW). Both locations have low potential for fault slip and induced seismicity.

Respectively yours,

G. T. Merrifield, Jr., PG

S.J. Munjie 9.

TX (#10838) and CA (#9274)

ATTACHMENT 9 Item XIII

Notice to Surface Owners, Leasehold Operators, and Affected Persons within ½ Mi Radius

Surface Owner:

	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4
United States of America	Section 14: All
(Bureau of Land Management)	Section 15: All
	Section 23: All

Note: All part of T-26-S, R-33-E, NMPM, Lea County, NM

Leasehold Operator within ½ radius:

Operator	Well Name	API
	SD WE 24 FEDERAL P23 001H	30-025-43318
	SD WE 24 FEDERAL P23 002H	30-025-43296
	SD WE 24 FEDERAL P23 003H	30-025-43297
	SD WE 24 FEDERAL P23 004H	30-025-43298
	SD WE 14 FEDERAL P7 003H	30-025-43086
	SD WE 14 FEDERAL P7 004H	30-025-43087
	SD WE 23 FEDERAL P7 003H	30-025-43088
	SD WE 23 FEDERAL P7 004H	30-025-43089
Chevron U.S.A. Inc.	SD WE 24 FEDERAL P24 005H	30-025-43674
	SD WE 24 FEDERAL P24 006H	30-025-43673
	SD WE 24 FEDERAL P24 007H	30-025-43675
	SD 24 13 FEDERAL P415 013H	30-025-49072
	SD 24 13 FEDERAL P415 014H	30-025-49073
	SD 24 13 FEDERAL P415 015H	30-025-49074
	SD 24 13 FEDERAL P416 017H	30-025-47303
	SD 24 13 FEDERAL P416 018H	30-025-47311
	SD 24 13 FEDERAL P416 019H	30-025-47312
NGL Water Solutions Permian LLC	SALADO DRAW SWD 13-1	30-025-42354

Working Interest Owners within ½ mile radius:

Lease	Lands	Depths	WI Owner (%)	Wi (%)
NMNM 118722	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4 Section 14: All Section 15: All Section 23: All Section 24: N/2, N/2 of S/2, S/2 of SW/4	All	Chevron U.S.A. Inc.	100.000000%
SD WE P24 5H Comm Agreement (Pending Approval)	Section 13: W/2 of E/2 Section 24: W/2 of E/2	Bone Spring	Chevron U.S.A. Inc.	100.000000%
CD 24 12 Fed D416			Chevron U.S.A. Inc.	99.453125%
SD 24 13 Fed P416 Comm Agreement	Section 13: E/2 Section 24: E/2	Wolfcamp	Royalty Clearinghouse 2003 LLC	0.078125%
(Pending Approval)			Atlas OBO Energy LP	0.468750%

Note: All part of T-26-S, R-33-E, NMPM, Lea County, NM

Mineral Interest Owner within ½ mile radius:

Lease	Lands	Depths	Federal /State Mineral Interest (MI) Owner	MI (%)
NMNM 118722	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4 Section 14: All Section 15: All Section 23: All Section 24: N/2, N/2 of S/2, S/2 of SW/4	All	United States of America	100.000000%
SD WE P24 5H Comm Agreement (Pending Approval)	Section 13: W/2 of E/2 Section 24: W/2 of E/2	Bone Spring	United States of America	100.000000%
SD 24 13 Fed P416 Comm Agreement (Pending Approval)	Section 13: E/2 Section 24: E/2	Wolfcamp	United States of America	100.000000%

Note: All part of T-26-S, R-33-E, NMPM, Lea County, NM

Tab B: Application Case No. 23687 (includes C-108)

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

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN EDDY COUNTY, NEW MEXICO.

CASE NO. <u>23687</u>

APPLICATION

Chevron USA Inc. ("Chevron"), OGRID No. 4323, through its undersigned attorneys, hereby applies 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 Eddy County, New Mexico. In support of this application, Chevron states as follows:

- (1) Chevron proposes to drill the Severitas 2 State SWD #1 well at a surface location 185' from the North line and 1,082' from the East line, Unit A, Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico for the purpose of operating a salt water disposal well.
- (2) Chevron seeks authority to inject into the Bell Canyon/Cherry Canyon/Brushy Canyon from 2,343' to 6,012'.
- (3) The tubing packer will be set at 2,243' and production casing and cement will be set at 5,500'.
- (4) Chevron requests that the Division approve a maximum daily injection rate for the well of 15,000 BWPD.
 - (5) Chevron requests that a maximum pressure of 468 psi be approved for the well.
 - (6) A proposed C-108 for the subject well is attached hereto in Attachment A.

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

WHEREFORE, Chevron requests that this application be set for hearing before an Examiner of the Oil Conservation Division on August 3, 2023; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

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

eena M. Bennett

Bv

Deana Bennett

Earl E. DeBrine, JR. Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 Attorneys for Applicant CASE NO. 23687: Application of Chevron USA Inc. for approval of salt water disposal well in Eddy County, New Mexico. Applicant seeks an order approving the Severitas 2 State SWD #1 well at a surface location 185' from the North line and 1,082' from the East line, Unit A, Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 2343 feet to 6012 feet. The tubing packer will be set at 2243 feet, and production casing and cement will be set at 5500 feet. The maximum anticipated injection rate will be 15,000 bwpd and maximum surface injection pressure will be 468 psi. Said location is approximately 13 miles southwest of Malaga, New Mexico.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Released to Imaging: 11/2/2023/4434302PM

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Chevron USA Inc.
	ADDRESS: 6301 Deauville Blvd, Midland, TX 79706
	CONTACT PARTY: Tom Merrifield PHONE: 661-448-7489
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. ATTACHMENT 1
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. ATTACHMENT 2
VII.	Attach data on the proposed operation, including: ATTACHMENT 3
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
VIII.	VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. ATTACHMENT 4
IX.	Describe the proposed stimulation program, if any. ATTACHMENT 5
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). ACHMENT 6
	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any tion or disposal well showing location of wells and dates samples were taken. ATTACHMENT 7
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. ATTACHMENT 8
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form. ATTACHMENT 9
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and
	belief.
	NAME:TITLE:
	SIGNATURE:DATE:
XV.	E-MAIL ADDRESS: If the information required under Sections VI, VIII, X, Please show the date and circumstances of the earlier su EXHIBIT
	RIBUTION: Original and one copy to Santa Fe with one OCD Examiner Hearing - No. 23686, 23687 Control of the Indian Action Control o

Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Page 2

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (375) 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: (305) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

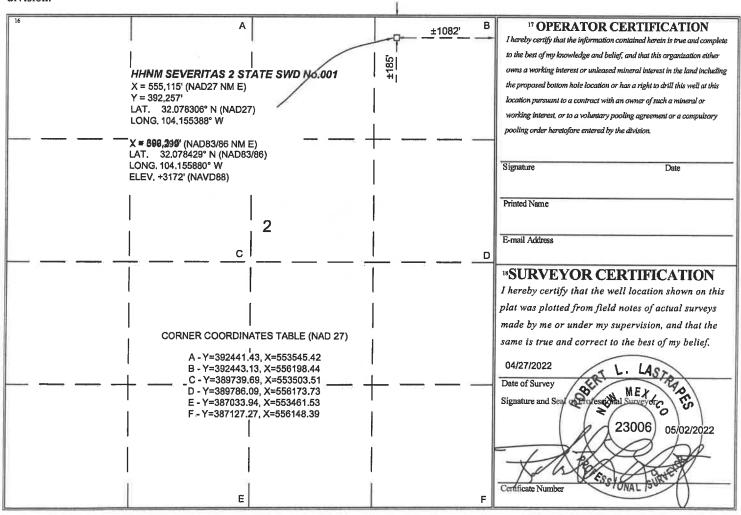
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	' API Num	ber	² Pool Code ³ Pool Name							
			9610	0			SWD; DELA	WARE		
⁴ Proper	Property Code 5 Property Name 6 Well Num						Well Number			
SEVERITAS 2 STATE SWD 001						001				
⁷ OGR	ID No.			^B Ö	perator Name					⁹ Elevation
43	23			CHEVR	ON U.S.A. IN	C.				3172'
				10 Sur	face Locat	ion				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
A	2	26 SOUTH	27 EAST, N.M.P.M.		185'	NORTH	1082'	EAST EDDY		EDDY
	" Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
A	2	26 SOUTH	27 EAST, N.M.P.M.		185'	NORTH	1082'	EAST ED		EDDY
12 Dedicated A	cres 13 Join	t or Infill	⁴ 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.



INJECTION WELL DATA SHEET

OPERATOR:

Side 1

Chevron U.S.A. Inc.

Severitas 2 State SWD 1 WELL NAME & NUMBER:

WELL LOCATION: 185' from North, 1082' from East, FOOTAGE LOCATION

WELLBORE SCHEMATIC

See next page

UNIT LETTER

⋖

26 South, 27 East, N.M.P.M.

TOWNSHIP

SECTION

RANGE

WELL CONSTRUCTION DATA

Surface Casing

SX. 17-1/2" 253 Cemented with:

Hole Size:

Surface

Top of Cement:

13-3/8" 337 Casing Size: or

ff3

Method Determined: Volumetric

Intermediate Casing

12-1/4"

Hole Size:

10-3/4" Casing Size: or SX.

Method Determined: Volumetric

Surface

Top of Cement:

Cemented with:

Production Casing

18/2-6

Hole Size:

Surface 377 Cemented with: Top of Cement:

ff³

901

0

SX.

7-5/8"

Casing Size:

Method Determined: Volumetric 5500

Total Depth:

Injection Interval

10 feet

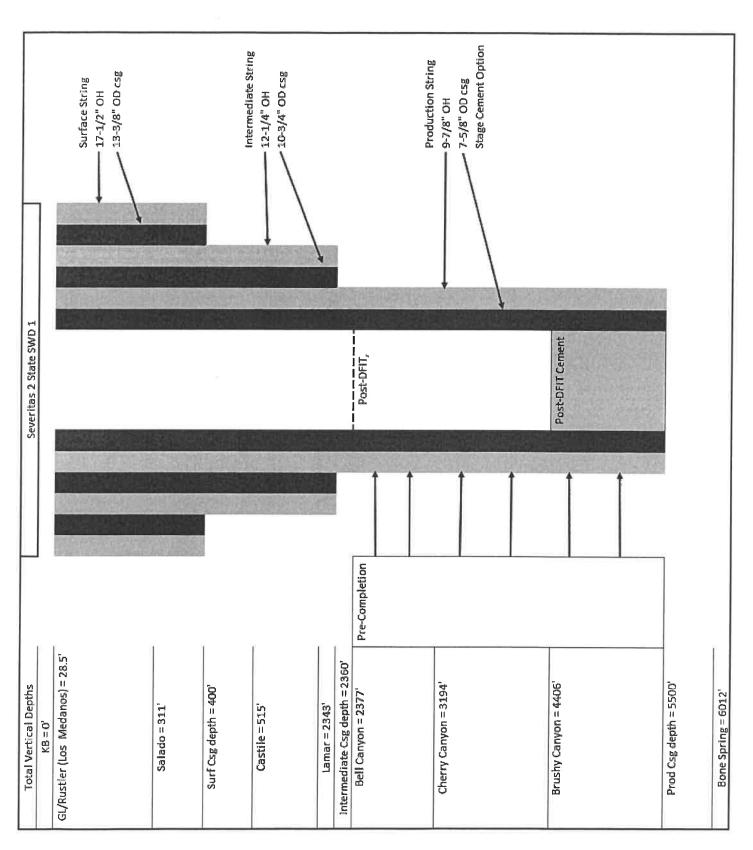
2343

6012'

Page 4

targeted for injection, but the SA&O data and analysis may indicate that fluids migrate into the (Perforated or Open Hole; indicate which) * Brushy Canyon is included as a potential injection interval. The Brushy is not intentionally Brushy, but are contained by the Bone Spring Limestone.

Released to Imaging: 11/2/2023/4434:02PPM



INJECTION WELL DATA SHEET

5-1/2"

Lining Material:

Hydraulically set packer

2243' Packer Setting Depth:

Type of Packer:

Tubing Size:

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

Additional Data

Is this a new well drilled for injection?

_;

Yes ×

ž

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

Bell Canyon, Cherry Canyon, and Brushy Canyon Name of the Injection Formation: d

Name of Field or Pool (if applicable): 3

SWD; Delaware

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

No, this is a proposed new SWD well.

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area. Depths are within a 3 mile area. 5.

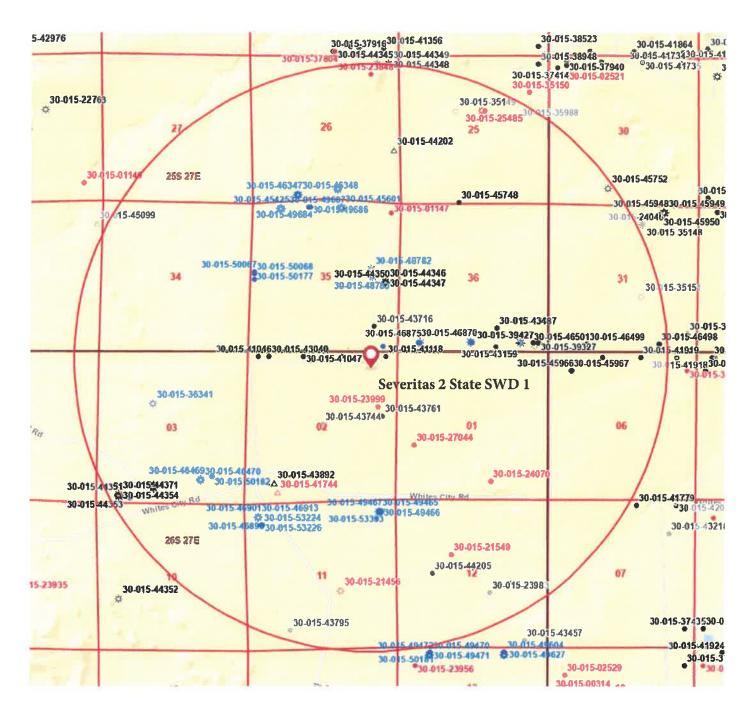
Atoka (11,643-11,794), Bone Spring (5840-18,860)

Morrow (11,966-12,697), Pennsylvanian (11,154-12,522), and

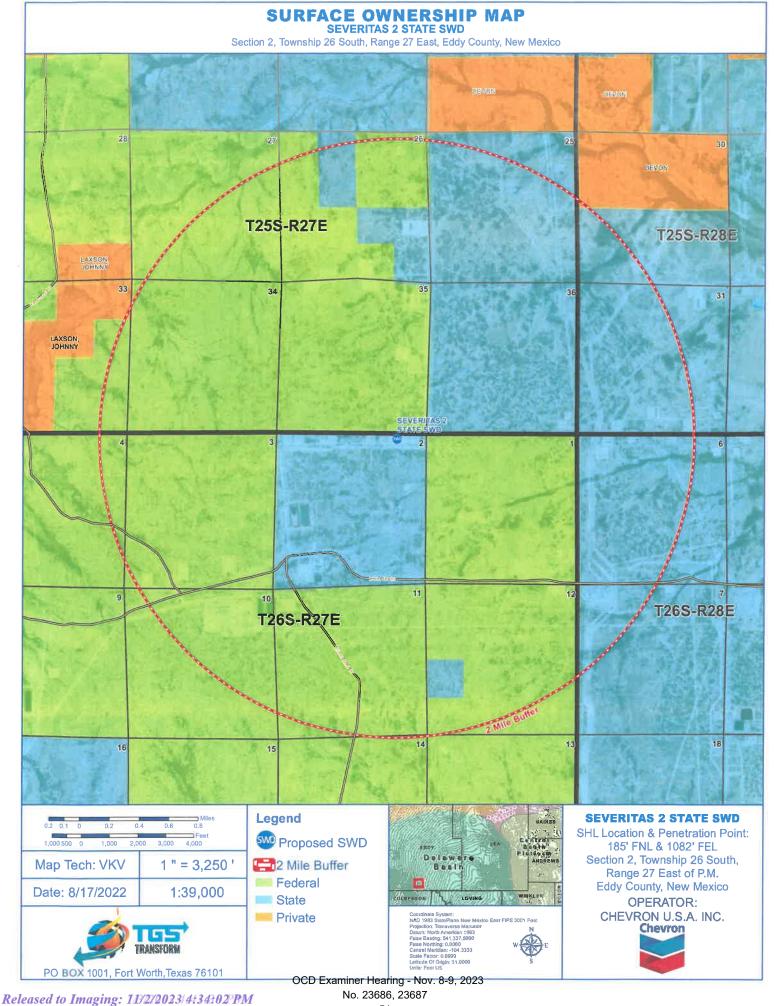
Strawn (11,694-11,719), and Wolfcamp (9299-21,655)

for injection, but the SA&O data and analysis may indicate that fluids migrate into the Brushy, but are * Brushy Canyon is included as a potential injection interval. The Brushy is not intentionally targeted contained by the Bone Spring Limestone.

ATTACHMENT 1 Item V



Severitas 2 State SWD 1: 2.0 mile radius circle map showing all wells within the radius.



Chevron

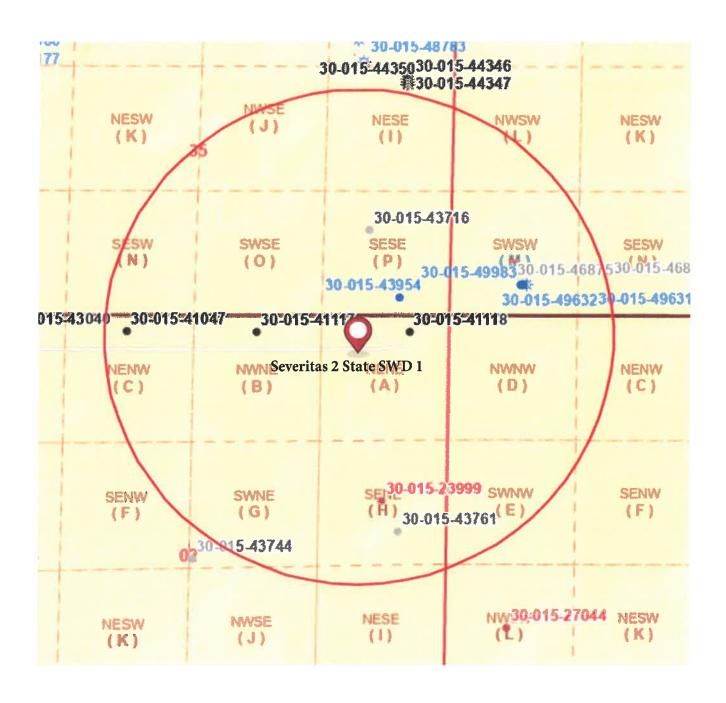
FEDERAL & STATE LEASES MAP **SEVERITAS 2 STATE SWD** Section 2, Township 26 South, Range 27 East, Eddy County, New Mexico LSE# 812 CONCHO OIL & GAS DICOG-OPERATING LLC LSE# 1780 DEVON ENERGY PRODUCTION COMPANY, LP 28 LSE# 734 CHEVRON U.S.A.INC NMNM 092167 EOG A RESOURCES INC EOG M RESOURCES INC OXY Y-1 COMPANY EOG Y RESOURCES INC T25S-R27E LSE# 995 CHEVRON U S A INC T25S-R28E 36 NMNM 107369 CHEVRON USA INC CHEVRONIO SAND SEVERIT LSE#7463 EOGY RESOURCES, IN NVNM EIGE EHEVROR BEARLE T26S-R28E T265-R27E LSE#7448 COG OPERATING LLG 18 16 USENTANI EBSV HESOURUES, INC LSEFE4/0 EOGY RESOURCES/INC LSE# 7385 CHISHOLM ENERGY OPERATING, LLC. **SEVERITAS 2 STATE SWD** GAINES Legend SHL Location & Penetration Point: 4,000 CHETTER 3,000 185' FNL & 1082' FEL M Proposed SWD Section 2, Township 26 South, Map Tech: VKV 1 " = 3,250 ' 2 Mile Buffer Range 27 East of P.M. Eddy County, New Mexico Federal Lease Date: 8/17/2022 1:39,000 OPERATOR: State Lease CHEVRON U.S.A. INC.

OCD Examiner Hearing - Nov. 8-9, 2023 No. 23686, 23687

PO BOX 1001, Fort Worth, Texas 76101

TRANSFORM

False Easting: 641,337,5000 Felse Northing: 0.0000 Contral Meridian: -194,3333



Severitas 2 State SWD 1: 0.5 mile radius circle map showing wells in Area of Review (AOR).

ATTACHMENT 2 Item VI

Miles from SWD	0.3	0.4	0.2	0.2	0.3	0.2	0.4	0.1	0.3	0.3	0.3
Plug Date					5/15/1987						
Associated Pools	[98220] PURPLE SAGE, WOLFCAMP (GAS)	[16800] DELAWARE RIVER, BONE SPRING	[16800] DELAWARE RIVER, BONE SPRING	[97494] COTTONWOOD DRAW, BONE SPRING (0)	[16800] DELAWARE RIVER, BONE SPRING	[16800] DELAWARE RIVER, BONE SPRING	[97494] COTTONWOOD DRAW, BONE SPRING (O)	[16800] DELAWARE RIVER, BONE SPRING	[98220] PURPLE SAGE, WOLFCAMP (GAS)	[98220] PURPLE SAGE, WOLFCAMP (GAS)	[16800] DELAWARE RIVER, BONE SPRING; [30216] HAY HOLLOW, BONE SPRING, NORTH
Vertical Depth	0	7,792	7,768	0	0	0	0	7,789	0	0	0
Measured Depth	0	12,619	12,556	0	0	0	0	12,759	0	0	0
Longitude 83	-104.1499	-104.1632	-104.1588	-104.155	-104.1546	-104.154	-104.154	-104.1537	-104.1498	-104.1499	-104.1499
Latitude 83	32.0798	32.0785	32.0785	32.0814	32.0735	32.0795	32.0726	32.0785	32.0798	32.0798	32.0798
Range	27E	27E	27E	26E	27E	27E	26E	27E	27E	27E	27E
Township	255	265	265	255	265	255	255	265	255	255	258
Section	36	2	2	14	2	35	24	2	36	36	36
naging: 1	<u>၂</u> 1/2/202	<u>u</u> 13/4:34	<u>ပ</u> 02 PM	0€ (€ \	D Exami	ner Hearing o. 2 32 86, 2	- Nov. 8- 3 6 €7	-9, <u>2</u> 023	3 LLC	3 LLC	3 LLC

Data tabulation of wells in Area of Review of the Severitas 2 State SWD 1.

WAYNE MOORE

403 N. MARIENFELD MIDLAND, TEXAS 79701 RECEIVED

APR 25 1983

O. C. D. ARTESIA, OFFICE

April 18, 1983

Mr. Leslie A. Clements Supervisor District II Energy and Mineral Department P.O. Drawer DD Artesia, New Mexico 88210

WAYNE MOORE - AZTEC STATE #1, SEC 2-T26S-R27E, LEASE #L-6791, EDDY COUNTY, NEW MEXICO

Mr. Clements,

This is in reference to your letter of April 11, 1983, concerning the above listed lease.

The well was perforated in the Bone Springs Section (perfs. 6125-6727, 37 perforations) and put on pump for testing. Down hole and surface equipment problems plagued the operation as testing continued, thus the testing took much longer than anticipated.

The well, although operating at a small profit, is not sufficiently productive so as to warrent the drilling of additional Bone Springs wells on this lease. With that in mind a completion in the Delaware Section is now in the final planning stage.

(See attached letter). We plan to:

- A. Set a cast iron bridge plug at the top of the Bone Springs.
- B. Spot 50' of cement on top of this bridge plug.
- C. Perforate below the zones of interest and circulate cement 200' into the 8-5/8" casing set at 2330'.
- D. Perforate and test zones of interest in the Delaware Section.

WAYNE MOORE

403 N. MARIENFELD MIDLAND, TEXAS 79701

Mr. Clements, sorry for the delay in reporting, but we've until recently, been at a loss as to what to do with the well. We will file reports as this work progresses. Please let me know if you require additional information.

Thank you for your help with this problem.

Sincerely,

Tom E. Moore

TEM/mp

STATE OF A	ii ii		
ENERGY AND MITTER ALS LIE - MENT			
	OIL CONSERVATION		* P
DIST II BUT ON	F. O. BOX 20		Form (1931) Revised (1941)
	SANTA CE. NEW ME	XICO 8750 RECEIVED	Barra and a second
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to 5700'. (4-27-83)			
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G. Swab test with oil & gas			
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STATE OF NEW	```		
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Daniel 7	Mario	Devlogut.	May 20, 1987

OCD Examiner Hearing - Nov. 8-9, 2023 No. 23686, 23687

ONGITIONS OF APPROVAL, IF ANY:

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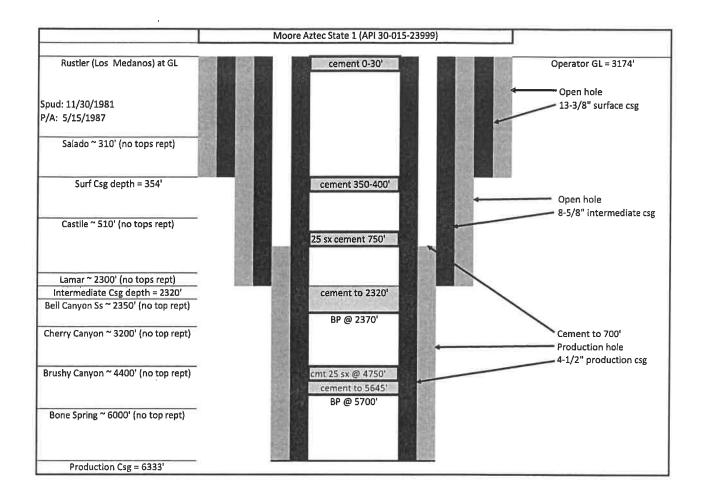
Leslie A. Clements OCD Examiner Hearing - Nov. 8-9, 2023
No. 23686, 23687

Released to Imaging: 11/2/2023/4:34:02PM

NEW MEXICO OIL CONSERVATION COMMISSION P. O. DRAWER DD ARTESIA, NEW MEXICO 88210

	DATE -22-85
	WayneMoore
40	3 N. Marien field
	lidland, Tr. 79701
Gentleme	
	Re: Plugging Reports
Form C-1	03, Report of Plugging for your Arke St. H 2-26-27 Lease Well # Unit S-T-R
and Toung	e approved until a Division representative has made an inspection of the location d it to be cleared to comply with Division Rules and Regulations. Please check n in the space provided to indicate that the work has been done.
() 1.	All pits have been filled and leveled.
() 2.	Rat hole and cellar have been filled and leveled.
	A steel marker 4" in diameter and approximately 4' above mean ground level has been set in concrete. It must show the quarter-quarter section or unit designation, section, township and range numbers which have been permanently stenciled or welded on the marker.
() 4.	The location has been leveled as nearly as possible to original top ground contour and has been cleared of all junk and equipment.
() 5.	The dead men and tie downs have been cut and removed.
() 6.	If a one well lease or last remaining well on lease, the battery and burn pit locations have been leveled and cleared of all junk and equipment.
The above locations	are minimum requirements and no plugging bond will be cancelled until all for plugged and abandoned wells have been inspected and Form C-103 approved.
filling ir	of the work outlined above has been done, please notify this office by n the blank form below and returning this letter to us so that our represently not have to make more than one trip to the location.
2	OIL CONSERVATION DIVISION
FILL IN BE	ELOW AND RETURN DISTRICT GEOLOGIST
certify	that the above work has been done and the
	Lease is ready for example that the same and approval

No. 23686, 23687 61



Schematic of plugging detail of Moore Aztec State 1 (API 30-015-23999).

ATTACHMENT 3 Item VII

ltem	Well 5.5" tubing	Severitas 2 State SWD #1			
1)	Permit Max Rate (bwpd)	15,000			
1)	Permit Avo Daily Rate	12,500			
2)	System	closed			
3)	Permit Max Pressure (psig)	468			
3)	Permit Avg Pressure (psig)	400			
ltem		Water Requirements			
4)	Reinjected produced water	source WQ of injectate and receiving formation is not required per application			
	Disposal Zone Water	for non-productive in 1 mile			
5)	Chicken Hawk State 1 (API 3001533682)				
	Results on next page				

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ab Test#	Lease	Location	Salesman	Date Out	Sample Date	Date Out Sample Date Specific Gravity Ionic Strength	lonic Strenath	TDS and conductivity Ca (mg/l.) Mg (mg/l.)	H	fivity Ca	/ / //ou/	(I/out) of
11128361	Chicken' Hawk State.		William D Polk	9/28/2011	9/13/2011	Polk 9/28/2011 9/13/2011 1.12	3.17	133	06	, T	4133 30	725 18

OCD Examiner Hearing - Nov. 8-9, 2023 No. 23686, 23687

	***************************************	 ***************************************		H2S (ma/l)	000	3		H2S (mg/l)	17.00
				CO2 (ma/l.)	540.00	200		CO2 (madil)	500.00
				·Cl (ma/L)	134000 00			Cl (ma/l)	111400.00
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				OH (mg/L)				OH (ma/L))
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				.) Ba (mg/L	2.00			'H (CaCO3) Na (mg/L) K (mg/L) Zn (mg/L) Fe (mg/L) Ba (mg/L) Sr (mg/L)	0.00
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				L). K (mg/l	0 815.00			L) K (mg/l	3 1056.0
				3) Na (mg/	.55296.0	1244-124-1		3) Na (mg/	69462:6
				TH (CaCO;	917,1.56			TH (CaCO)	13854.58

66

ATTACHMENT 4 Item VIII

Formation/Geologic Feature Tops & Datum	Lithology	TVD (from Datum) Z (SSTVD)	Z (SSTVD)
KB (Kelly Bushing)	Datum	0.0	3200.5
GL (ground surface)	Ground Surface	28.5	3172.0
01 - Rustler (Los Medanos at surface)	Mudstone, Salt & Anhydrite	28.5	3172.0
02 - Salado	Gypsum & Anhydrite	310.5	2890.0
03 - Castile	Anhydrite & Salt	514.8	2685.7
04 - Lamar	Carbonate	2343.3	857.2
05 - Bell Canyon	Sandstone	2376.9	823.6
06 - Cherry Canyon	Sandstone, Siltstone & Carbonate	3193.6	6.9
07 - Brushy Canyon	Sandstone, Mudstone & Carbonate	4405.8	-1205.3
08 - Bone Spring	Carbonate	6011.7	-2811.2

Geologic prognosis tops of all formations to be encountered in the Severitas 2 State SWD 1.

ATTACHMENT 5 Item IX

Proposed acid stimulation as part of the completion for the Severitas 2 State SWD 1.

- 1. MI/RU Petroplex Acid and Gladiator N2 Unit
- 2. Perform pressure pumping checklist and record in wellview.
- 3. Rig up Petroplex acid lines and tie in to 4-1/16" wing valve on tree. Test all lines against wing valve to 2,100 psi for 5 min
 - Install tee in Petroplex lines to allow N2 line to be rigged up. Test all N2 lines against wing valve to 2,100 psi for 5 min
- 4. Pump Acid job per Petroplex Pump Schedule diverting with N2 as required.
 - Max pressure for job will be 468 psi
 - Discuss with WOE for operational pressure limits during job.
 - Diversion will be treated with 1,250 scf/bbl of N2
- 5. Once acid is complete R/D Petroplex and Gladiator
- 6. Secure and shut in well.

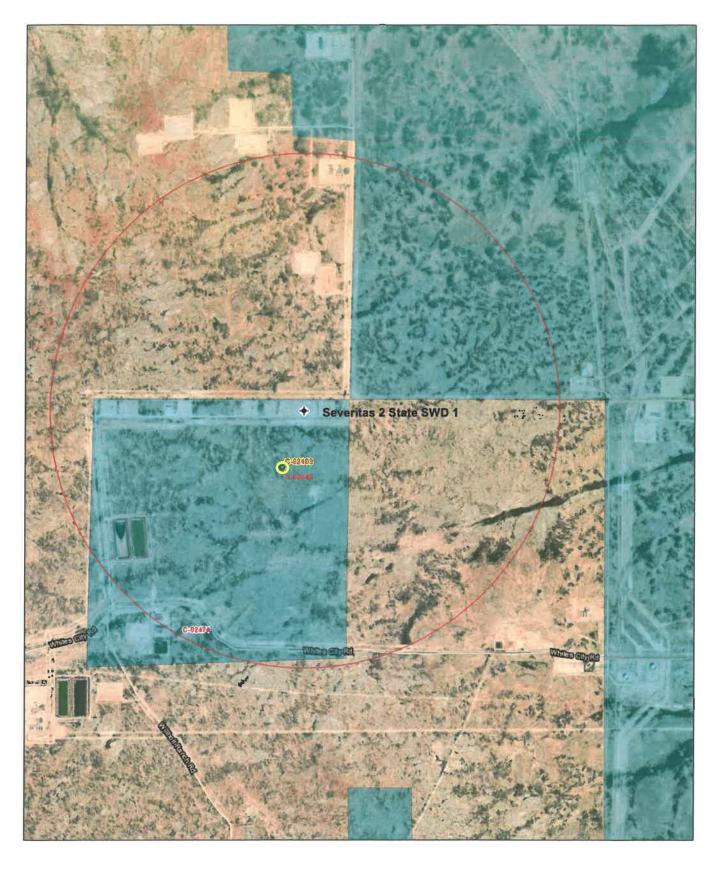
ATTACHMENT 6 Item X

No logs have been run on the Severitas 2 State SWD 1. This is a planned well.

The following open hole logs are planned to be run if hole conditions allow: gamma-ray, resistivity, neutron-density, sonic, and image logs.

Production casing will be installed from surface to near the base of the Brushy Canyon Formation. A total of approximately six Diagnostic Fracture Injection Tests (DFITs) are planned for the Bell Canyon, Cherry Canyon and Brushy Canyon Formations. After the DFITs are run, the Brushy Canyon will be plugged. The Cherry Canyon and Bell Canyon will be perforated to the base of the Lamar Limestone. A step rate test will be run on the Bell Canyon and Cherry Canyon Formation permitted injection interval.

ATTACHMENT 7 Item XI





Both the C-02103 and the C-02048 permits have expired with no evidence wells were drilled. The C-02474 was drilled in 1913 and may have not been used past 1918. No lab reports available. The well is confined to the first 100 ft in the Alluvium. No Rustler Aquifer exists in the immediate area.



Water Right Summary

WR File Number: C 02048

Subbasin: C

Cross Reference: -

Primary Purpose: STK

72-12-1 LIVESTOCK WATERING **EXPIRED**

Subfile:

Header: -

Total Diversion:

Primary Status:

Total Acres:

Cause/Case: -

Owner: DELAWARE RANCH INC

Documents on File

Status

From/ To

Acres Diversion Consumptive

465436 72121 1983-02-02

EXP EXP C 02048

T

3

Current Points of Diversion

(NAD83 UTM in meters)

POD Number

Well Tag Source 64Q16Q4Sec Tws Rng

2 02 26S 27E

Transaction Desc.

579582 3549072*

Other Location Desc

An () after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/6/22 9:16 AM

C 02048

WATER RIGHT SUMMARY



Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 465436

Transaction Desc: C 02048

File Date: 01/31/1983

Primary Status:

EXP **Expired Permit**

Secondary Status: EXP Expired

Person Assigned:

Applicant: DELAWARE RANCH INC

Events

get 01/31/1983 images

Type Description APP Application Received Comment

Processed By *****

02/02/1983 FIN Final Action on application

02/02/1983 WAP

General Approval Letter

03/01/1984 EXP

Expired Permit (well log late)

05/20/2011

Rec & Arch - file location ARV

C 02048 Box: 1870

Change To:

WR File Nbr

Acres

Consumptive Purpose of Use Diversion

C 02048

3

STK 72-12-1 LIVESTOCK WATERING

**Point of Diversion

C 02048

579582 3549072*

An () after northing value indicates UTM location was derived from PLSS - see Help

Remarks

LOCATION: DELEWARE RANCH PROPERTIES

ABSTRACTOR'S NOTE: PER LETTER DATED 03/01/1984, THIS PERMIT IS EXPIRED, NO WELL RECORD ON FILE WITH THE OFFICE OF THE STATE ENGINEER.

Conditions

- Depth of the well shall not exceed the thickness of the valley fill.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved

Action Date: Log Due Date:

02/02/1983 02/29/1984

State Engineer:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/6/22 9:16 AM

Released to Imaging: 11/2/2023/4434302PM

TRANSACTION SUMMARY



Water Right Summary

WR File Number: C 02103

Subbasin: C

Cross Reference: -

Primary Purpose: STK

Primary Status: EXP EXPIRED

72-12-1 LIVESTOCK WATERING

Subfile:

Header: -

Total Diversion:

Total Acres:

Cause/Case: -

Owner: DELAWARE RANCH INC

Documents on File

Status

From/

Acres Diversion Consumptive

Trn# Doc File/Act 468575 72121 1984-05-14

1 2 Transaction Desc. EXP EXP C 02103

To Т

3

Current Points of Diversion

(NAD83 UTM in meters)

POD Number C 02103

Well Tag Source 64Q16Q4Sec Tws Rng 2 02 26S 27E 579582 3549072*

Other Location Desc

An () after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

WATER RIGHT SUMMARY



Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 468575

Transaction Desc: C 02103

File Date: 05/14/1984

Primary Status:

EXP Expired Permit

Secondary Status: EXP Expired

Person Assigned:

Applicant: DELAWARE RANCH INC

Events

	Date	Туре	Description	Comment	Processed By
eg ima	05/14/1984 ses	APP	Application Received	*	******
	05/14/1984	FIN	Final Action on application		*****
	05/14/1984	WAP	General Approval Letter		*****
	06/03/1985	EXP	Expired Permit (well log late)		*****
	05/23/2011	ARV	Rec & Arch - file location	C 02103 Box: 1871	*****

Change To:

WR File Nbr

Consumptive Purpose of Use

C 02103

STK 72-12-1 LIVESTOCK WATERING

**Point of Diversion

C 02103

579582 3549072*

An () after northing value indicates UTM location was derived from PLSS - see Help

Remarks

LOCATION: DELAWARE RANCH PROPERTIES.

ABSTRACTOR'S NOTE: PER LETTER DATED 06/03/1985, THIS PERMIT IS EXPIRED. NO WELL RECORD ON FILE WITH THE OFFICE OF THE STATE ENGINEER.

Conditions

- Depth of the well shall not exceed the thickness of the valley fill.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved Action Date: 05/14/1984 Log Due Date: 05/31/1985

State Engineer:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/6/22 9:14 AM

Released to Imaging: 11/2/2023/4434:02PM

TRANSACTION SUMMARY



Water Right Summary

C 02474

Subbasin: CUB

Cause/Case: -

Cross Reference: -

Primary Status:

Primary Purpose:

PLS

DCL DECLARATION

Total Acres:

0

Subfile:

NON 72-12-1 LIVESTOCK WATERING

Header: -

Total Diversion:

Owner: MARTHA SKEEN

Documents on File

Doc File/Act

1 2 Transaction Desc.

From/ To

Acres Diversion Consumptive

198101 DCL 1995-12-12 DCL PRC C-02474

Т

0 3

Current Points of Diversion

Trn#

Other Location Desc

POD Number C 02474

Well Tag Source 64Q16Q4Sec Tws Rng 4 3 02 26S 27E

578964 3548029*

(NAD83 UTM in meters)

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority 12/31/1913 Status DCL Acres Diversion Pod Number 3 C 02474

Place of Use

256 64 Q16 Q4Sec Tws Rng

Diversion Acres 0

CU Use Priority

Status Other Location Desc PLS 12/31/1913 DCL NO PLACE OF USE GIVEN

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/6/22 9:18 AM

WATER RIGHT **SUMMARY**

IMPORTANT - READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

December 12, 1995 Declaration No. 3. Describe well location under one of the following subheadings: b. Tract No. of Map No. feet, N. M. Coordinate System. Grant. On land owned by State of N. Mex 4. Description of well: date drilled_ 6 inches; original capacity. feet; static water level feet (above) (below) land surface: make and type of pump_ make, type, horsepower, etc., of power plant ... Fractitional or percentage interest claimed in well_ 5. Quantity of water appropriated and beneficially used acres, located and described as follows (describe only lands actually irrigated): 6. Acreage actually irrigated_ Range -Irrigated (Note: location of well and acreage actually irrigated must be shown on plat on reverse side,) 7. Water was first applied to beneficial use_ and since that time month has been used fully and continuously on all of the above described lands or for the above described purposes except being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief. DECEMBER

UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATE OF REJECTION OF ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF OCD Examiner Hearing - Nov. 8-9, 2023

My commission expises 02/22/99

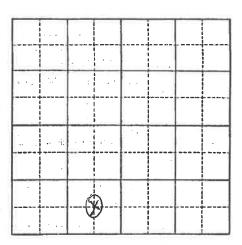
T-198101

Platentin in and

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) _______ Township _______ Range _______ N. Pl. P. I

September 1 to the Little Co. 1 Alka



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2½ acre subdivision. It located on ansurveyed lands, describe by legal supdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach accuraly hereto.





STATE OF NEW MEXICO

STATE ENGINEER OFFICE ROSWELL

THOMAS C. TURNEY State Engineer

DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521

DOINGN KIND

51

December 12, 1995

C-2474 FILES: C-2473 thru C-2481; LWD-C-64 thru LWD-C-70

Martha Skeen 321 South Canyon Carlsbad, NM 88220

Dear Ms. Skeen:

ENGINEER OFFICE Enclosed are your copies of Declaration of Owner of Underground Water Right, and Declaration of Ownership of Livestock Water Dam or Tank, as numbered above, which have been accepted for filing in the office of the State Engineer.

Please refer to these numbers in all future correspondence concerning these declarations.

The acceptance for filing of these declarations by this office does not indicate affirmation or rejection of the statements contained therein.

Sincerely,

Richard C. Cibak Area Supervisor

Enclosures cc: Santa Fe Hydro Section

ATTACHMENT 8 Item XII



George T. (Tom) Merrifield, Jr., PG SWD DRP Geologist Chevron U.S.A. Inc. 6301 Deauville Blvd Midland, TX 79706 Phone +1 661-448-7489 tommerrifield@chevron.com

April 10, 2023

Dylan Fuge, Acting Director Oil Conservation Division 1220 South St. Francis Dr. Sante Fe, New Mexico 87505

Re: Affirmation Statement C-108 Applications

Papa Squirrel SWD 1 and Severitas 2 State SWD 1

Dear Mr. Fuge:

With the increase of induced seismicity due to deep produced water injection, in 2021 Chevron decided to evaluate the potential for shallow injection in both Texas and New Mexico with exhaustive manpower and technical effort.

This effort led to the following technical evaluations of the DMG: (1) the location of high confident shallow faults in our active development areas using available seismic reflection data (2) assessment of seismic risk of any such shallow faults, (3) other geologic and reservoir engineering assessments addressing storage capabilities, potential impacts, and mitigation, and (4) collaboration and joint efforts with other operators.

Both the Papa Squirrel SWD 1 and Severitas 2 State SWD 1 are locations which we find no indication of open faults at the surface or in the subsurface and no indication of hydraulic connection between the proposed injection zone (Bell Canyon and Cherry Canyon) and an underground source of drinking water (USDW). Both locations have low potential for fault slip and induced seismicity.

Respectively yours,

G. T. Merrifield, Jr., PG

S.J. Mempies 9.

TX (#10838) and CA (#9274)

ATTACHMENT 9 Item XIII

Notices will be sent to the following surface owners, leasehold operators, mineral interest owners, etc., within ½ mile radius.

- Bureau of Land Management
- State Land Office
- COG Operating, LLC

Note: Chevron is the operator of the wells within the 0.5 mile area of review shown in Attachment 1.

Tab C: Support Letters

Stefan Hussenoeder

22777 Springwoods Village Parkway Spring, TX 77389 (364) 502-0163 (o) (713) 208-7967 (m) hussenoeder@exxonmobil.com



November 2, 2023

New Mexico Oil Conservation Division Via e-filing in Case No. 23686 and via email to OCD.Engineer@emnrd.nm.gov

Re: Support for Chevron USA Inc.'s Papa Squirrel State SWD #1 well, proposed to be located in Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico.

Dear New Mexico Oil Conservation Division:

XTO respectfully submits this letter in support of Chevron USA Inc.'s ("Chevron") Papa Squirrel State SWD #1 well, proposed to be located in Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico, and proposed to inject into the Bell Canyon/Cherry Canyon formations. XTO has had discussions with Chevron regarding the location of the proposed injection well and the target injection zone, and understands it is a pilot project with a primary purpose of information gathering rather than large scale disposal.

XTO supports Chevron's proposed Papa Squirrel State SWD #1 well, and supports approval of Chevron's application in Case No. 23686.

Sincerely,

Stefan Hussenoeder

Geoscience Technology Advisor

XTO, An ExxonMobil Subsidiary

Stefan Hussenoeder

22777 Springwoods Village Parkway Spring, TX 77389 (364) 502-0163 (o) (713) 208-7967 (m) hussenoeder@exxonmobil.com



November 2, 2023

New Mexico Oil Conservation Division Via e-filing in Case No. 23686 and via email to OCD.Engineer@emnrd.nm.gov

Re: Support for Chevron USA Inc.'s Severitas 2 State SWD #1 proposed to be located in Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico

Dear New Mexico Oil Conservation Division:

XTO respectfully submits this letter in support of Chevron USA Inc.'s ("Chevron") Severitas 2 State SWD #1 well, proposed to be located in Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico, and proposed to inject into the Bell Canyon/Cherry Canyon formations. XTO has had discussions with Chevron regarding the location of the proposed injection well and the target injection zone, and understands it is a pilot project with a primary purpose of information gathering rather than large scale disposal.

XTO supports Chevron's proposed Severitas 2 State SWD #1 well, and supports approval of Chevron's application in Case No. 23687.

Sincerely,

Stefan Hussenoeder

Geoscience Technology Advisor

XTO, An ExxonMobil Subsidiary



Coterra Energy Inc. Permian Business Unit 6001 Deauville Blvd Suite 300N Midland, TX 79706 T 432-571-7800 F 432-571-7832 coterra.com

October 23, 2023

New Mexico Oil Conservation Division

Via e-filing in Case No. 23686 and via email to OCD.Engineer@emnrd.nm.gov

Re: Support for Chevron USA Inc.'s Papa Squirrel State SWD #1 well, proposed to be located in Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico.

Dear New Mexico Oil Conservation Division:

[Insert entity name] respectfully submits this letter in support of Chevron USA Inc.'s ("Chevron") Papa Squirrel State SWD #1 well, proposed to be located in Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico, and proposed to inject into the Bell Canyon/Cherry Canyon formations. [Entity name] has had discussions with Chevron regarding the location of the proposed injection well and the target injection zone and supports Chevron's proposal.

Granting the proposed application is in the interest of conservation, will prevent waste and will protect correlative rights. Additionally, the consideration of and granting the application based upon evidence adduced at the hearing will demonstrate that the Division has in place regulations and procedure for the management and disposal of produced water in a manner that allows for the development of the State's oil and gas resources for the benefit of the people while protecting the environment. Chevron has evaluated the potential impacts of the proposed well and its analysis has demonstrated that it will not interfere with existing or future oil and gas production within the Bell Canyon and Cherry Canyon formations and will reduce the potential for induced seismicity associated with deeper injection wells. The information generated by this pilot project will provide the Division and other operators with valuable information for the disposition of produced water.

In sum, Coterra Energy supports Chevron's proposed Papa Squirrel State SWD #1 well, and supports approval of Chevron's application in Case No. 23686.

Sincerely,

Phillip G. Levasseur

Manager, Regulatory Compliance

Coterra Energy

Received by OCD: 11/2/2023 4:27:49 PM

Levas

Coterra Energy Inc. Permian Business Unit 6001 Deauville Blvd Suite 300N Midland, TX 79706 T 432-571-7800 F 432-571-7832 coterra.com

Released to Imaging: 11/2/2023 4:34:02 PM

October 23, 2023

COTERRA

New Mexico Oil Conservation Division

Via e-filing in Case No. 23687 and via email to OCD.Engineer@emnrd.nm.gov

Re: Support for Chevron USA Inc.'s Severitas 2 State SWD #1 proposed to be located in Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico

Dear New Mexico Oil Conservation Division:

[Insert entity name] respectfully submits this letter in support of Chevron USA Inc.'s ("Chevron") Severitas 2 State SWD #1 proposed to be located in Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico, and proposed to inject into the Bell Canyon/Cherry Canyon formations. [Entity name] has had discussions with Chevron regarding the location of the proposed injection well and the target injection zone and supports Chevron's proposal.

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In sum, Coterra Energy supports Chevron's proposed Severitas 2 State SWD #1 well, and supports approval of Chevron's application in Case No. 23687.

Sincerely,

Phillip G. Levasseur

Manager, Regulatory Compliance

Coterra Energy

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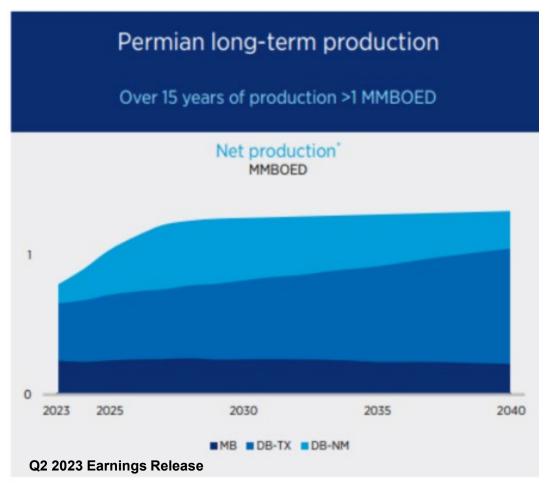
Tab D: Consolidated Hearing Presentation

Chevron Permian Operations and Long-Term Focus



Chevron currently operates a total of 68 active SWD wells within the Permian Basin with six in New Mexico.

	Name	Land area		
-	District of Columbia	39,000 acres		
]],	Rhode Island	660,000 acres		
	Delaware	1,200,000 acres		
A	MCBU	2,200,000 acres		
	Connecticut	3,100,000 acres		
2021 CID				



Chevron is committed to New Mexico and plans to increase production into the next decade.

Received by OCD: 11/2/2023 4:27:49 PM

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Chevron SWD Pilot Project: Opportunities and Benefits

- •Since 2021 Chevron has undertaken manpower-intensive, regional, sub-regional, and local investigations of Delaware Mountain Group (DMG) SWD reservoir potential, risks, and correlative rights and waste issues in the Permian Basin.
- •This investigation driven by:
 - •Need for additional water disposal options to address high volumes of produced water from Bone Spring and Wolfcamp formations.
 - •Need for disposal options that do not impair correlative rights and that prevent waste. Certain DMG areas are depleted or geology indicates low likelihood of unknown oil in the area, and therefore good option for disposal.
 - Low potential for induced seismicity.
 - •Need to have disposal options that are protective of underground sources of drinking water.
- •Chevron developed a proposal for a 2-well SWD pilot project that are theoretically sound in application, but also contain a surveillance, analysis, and mitigation plan to address correlative rights, waste, and protection of underground sources of drinking water.
- •Chevron presented this plan to an operator working group, met numerous times, solicited and incorporated feedback into the plan, and secured their support for the proposal presented herein.
- Chevron also met with the NMOCD and the NMSLO.

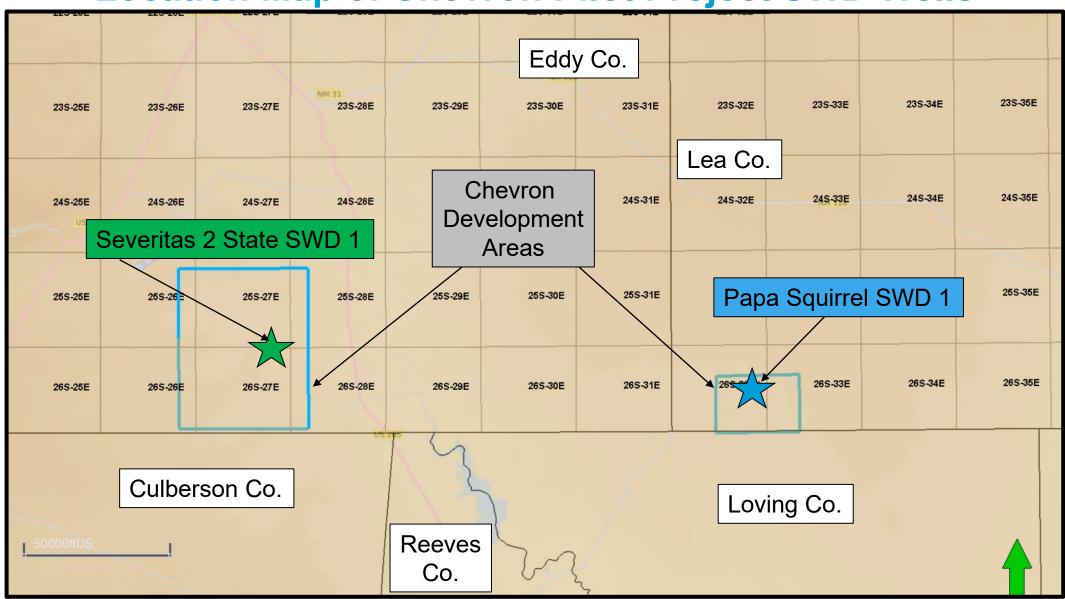
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Page 97 of 267

SWD Pilot Project: Opportunities and Benefits

- Chevron selected the Papa Squirrel and Severitas SWDs as pilot SWDs due to variation in injection thickness, containment zones, and the low potential for adverse impacts to offset production.
- Well bore design (3-string casing) will protect the aquifer.
- Targeted operational injection is the Bell Canyon and Cherry Canyon formations. No nearby DMG production.
- Chevron is proposing data gathering and reporting programs, which will create greater data sets regarding the potential to use DMG for injection.
- Chevron is also proposing monitoring programs, to address impacts to correlative rights and waste if such issues arise during the course of operation.
- Chevron has conducted a thorough review of technical field, subsurface and literature data to plan for and propose locations to mitigate seismicity.

Location Map of Chevron Pilot Project SWD Wells



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Papa Squirrel SWD: Wells Penetrate DMG in 1/2-Mile Radius

AOR wells

- Three active Bone Spring horizontal producers
 - All Chevron operated



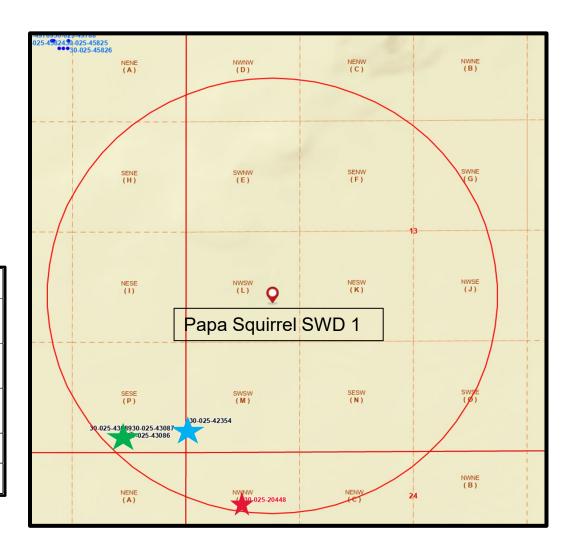
- No DMG production within $\frac{1}{2}$ 2 miles
- NGL Devonian-Silurian SWD 🔭



The closest Delaware Mountain Group (DMG) producers lie 1.5-2.0 miles to the southeast; all three wells produce less than 1 barrel per day (B/D).

API	Well Name	Well Type	Well Status	OGRID Name	Production Target	Plug Date	Miles from SWD
30-025-43086	SD WE 14 FEDERAL P7 #003H	Oil	Active	CHEVRON U S A INC	Bone Spring		0.4
30-025-43087	SD WE 14 FEDERAL P7 #004H	Oil	Active	CHEVRON U S A INC	Bone Spring		0.4
30-025-43089	SD WE 23 FEDERAL P7 #004H	Oil	Active	CHEVRON U S A INC	Bone Spring		0.4
30-025-42354	SALADO DRAW SWD 13 #001	SWD	Active	NGL WATER SOLUTIONS PERMIAN, LLC	Devonian-Silurian		0.3
30-025-20448	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR		8/20/1963	0.4

Abandonment report provided

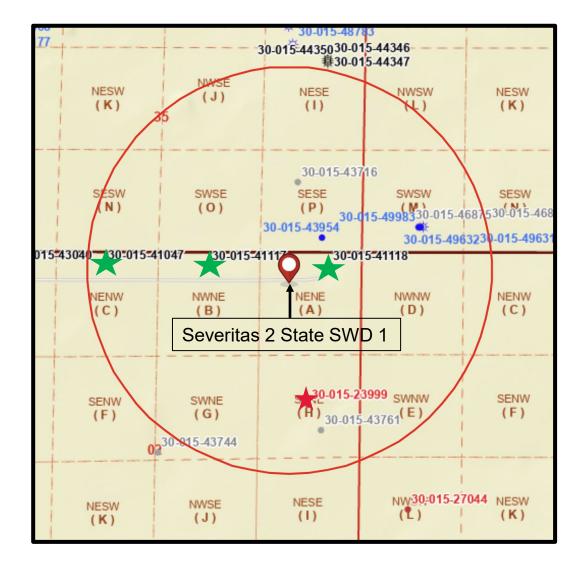


Severitas SWD: Wells Penetrate DMG in 1/2-Mile Radius

AOR wells

- Three active Bone Spring horizontal producers
 - All Chevron operated **
- No DMG production within 2 miles
- No DMG SWD or EOR injection

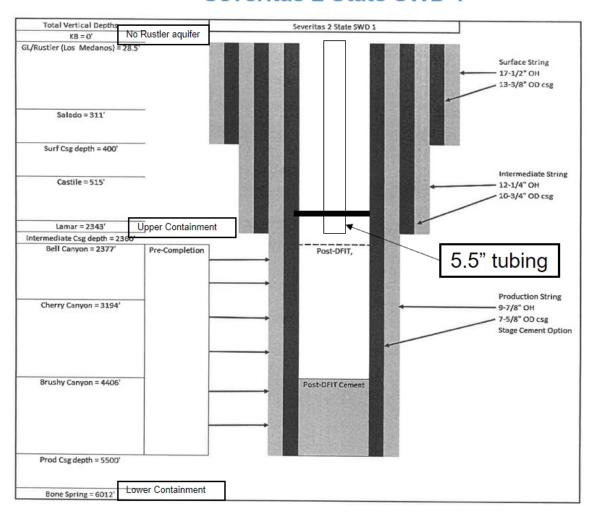
API	Well Name	Well Type	Well Status	OGRID Name	Production Target	Plug Date	Miles from SWD
30-015-46875	ATTICUS STATE COM #706C	Gas	Cancelled	COG OPERATING LLC	Wolfcamp		0.3
30-015-41047	SKEEN 2 26 27 STATE #002H	Oil	Active	CHEVRON U S A INC	Bone Spring		0.4
30-015-41117	SKEEN 2 26 27 STATE #003H	Oil	Active	CHEVRON U S A INC	Bone Spring		0.2
30-015-43716	GRYNBERG 11 FEDERAL COM #006C	Oil	Cancelled	CIMAREX ENERGY CO.	Bone Spring		0.2
30-015-23999	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	Bone Spring	5/15/1987	0.3
30-015-43954	SAGE 35 B2PA FEDERAL COM #001H	Oil	New (abandoned location)	CHEVRON U S A INC	Bone Spring		0.2
30-015-43761	WHITE CITY 14 FEDERAL #016C	Oil	Cancelled	CIMAREX ENERGY CO.	Bone Spring		0.4
30-015-41118	SKEEN 2 26 27 STATE #004H	Oil	Active	CHEVRON U S A INC	Bone Spring		0.1
30-015-49632	ATTICUS STATE COM #705H	Gas	New (abandoned location)	COG OPERATING LLC	Wolfcamp		0.3
30-015-49633	ATTICUS STATE COM #706H	Oil	New (abandoned location)	COG OPERATING LLC	Wolfcamp		0.3
30-015-49983	ATTICUS STATE COM #522H	Oil	New	COG OPERATING LLC	Bone Spring		0.3



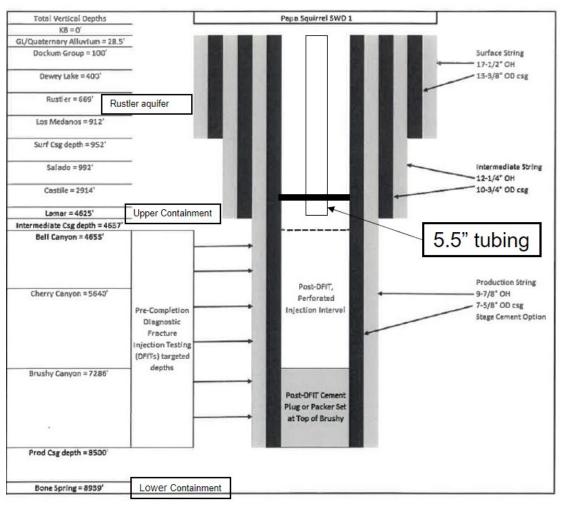
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Casing Design Protects Aquifer

Severitas 2 State SWD 1



Papa Squirrel SWD 1



Notifications

Severitas 2 State SWD 1

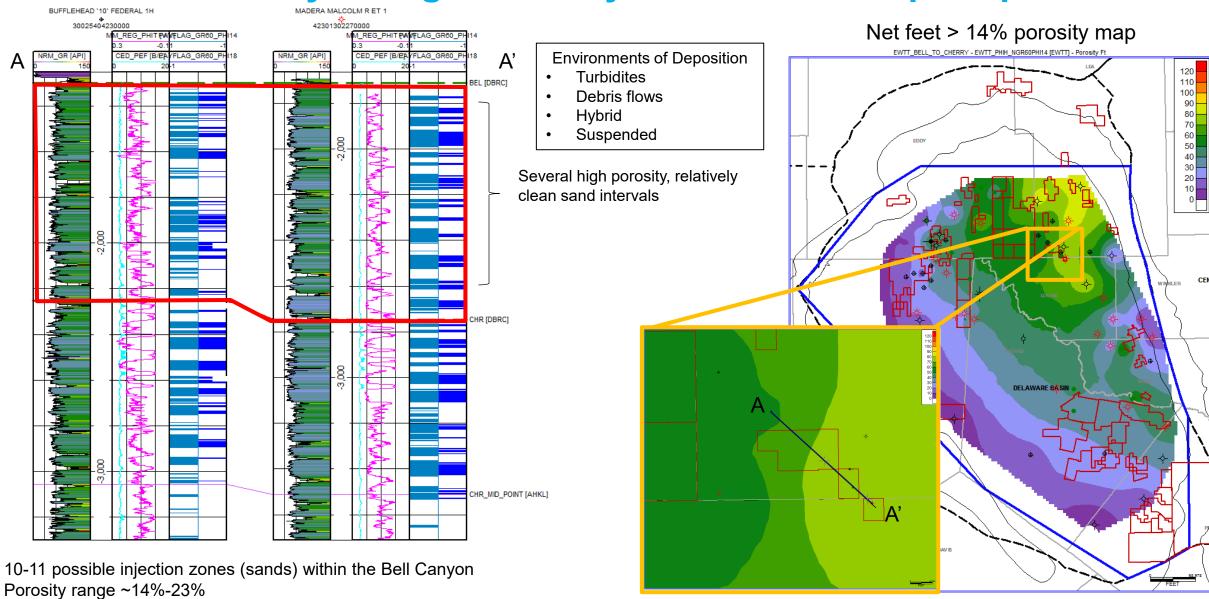
- Proof of Notice:
 - -New Mexico State Land Office
 - –Bureau of Land Management
 - –COG Operating LLC

Papa Squirrel SWD 1

- Proof of Notice:
 - -Bureau of Land Management
 - -NGL
 - -Royalty Clearinghouse 2003 LLC
 - -Atlas OBO Energy LP

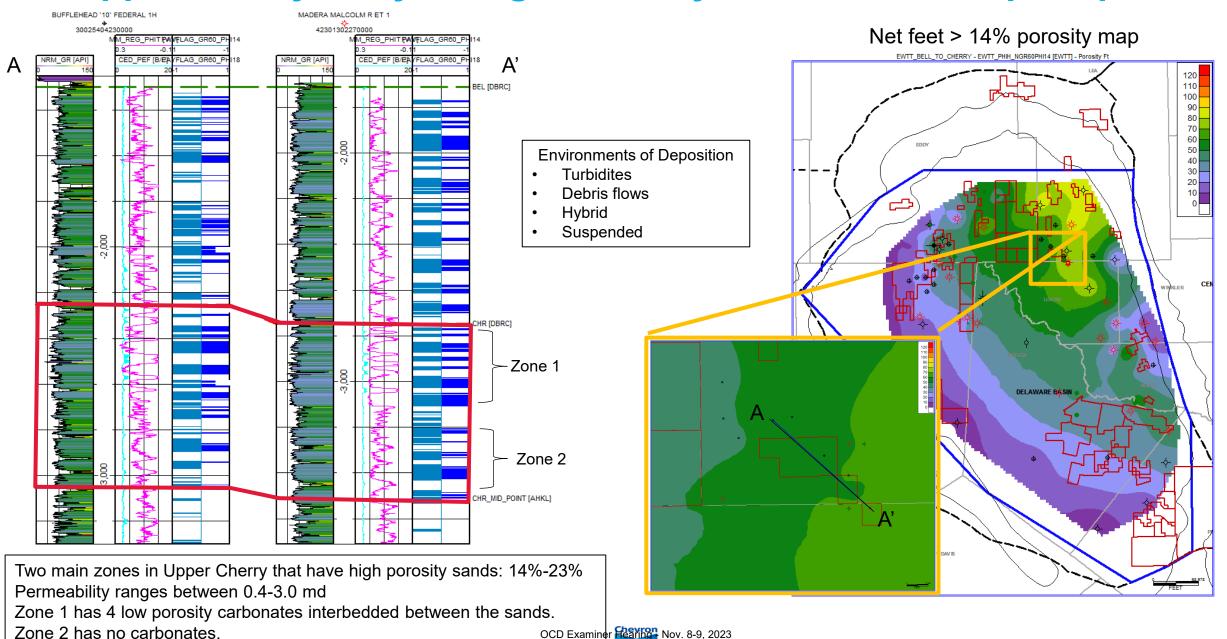
Geological Analysis of DMG Productive Zones

Received by OCD: 11/2/2023 4:27 47 PC anyon High Porosity Clean Sand: Papa Squirrel



Permeability 0.4-3.0 md

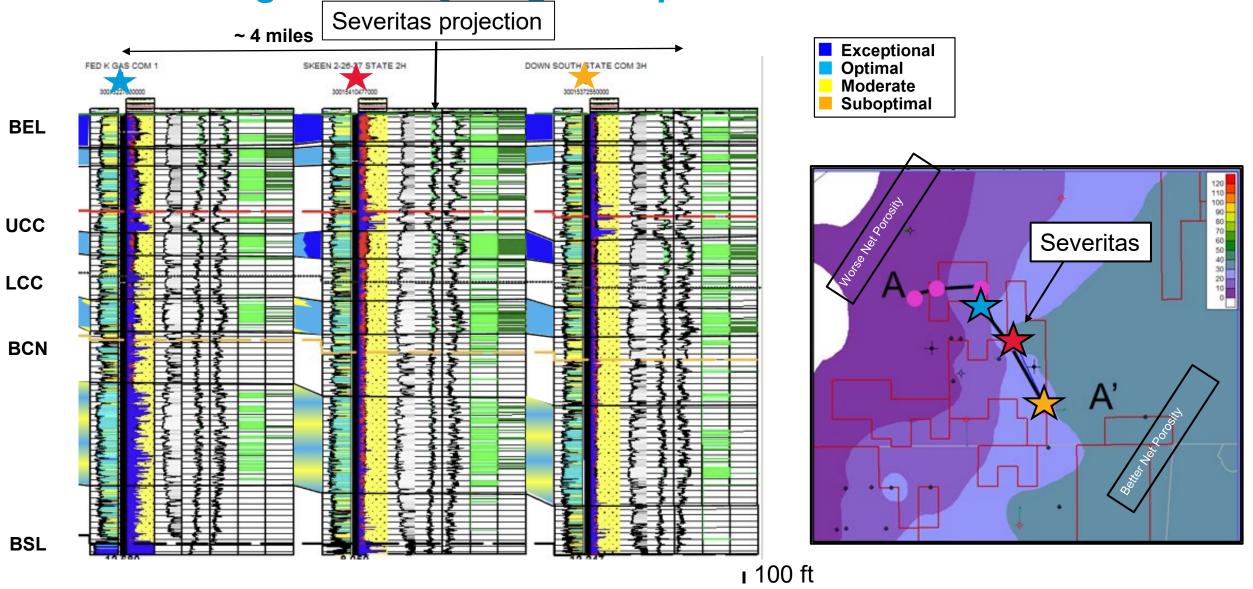
Received by JCP: 142/2023 4 27:41 Perry Canyon High Porosity Clean Sand: Papa Squirred 105 of 267



OCD Examiner Hearing Nov. 8-9, 2023

Released to Imaging: 11/2/2023 4:34:02 PM

Received by OCD: 11/2/2023 4:27:49 PM Gh Porosity Targets Improve to SE: Severitas



- Reservoir quality across the area of the Severitas is relatively consistent with slight degradation towards NW
- Best reservoir is in Bell Canyon, followed by Upper Cherry Canyon
 OCD Examiner Hearing Nov. 8-9, 2023

Drill Stem Tests Confirm Low DMG Productivity

Severitas 2 State SWD 1

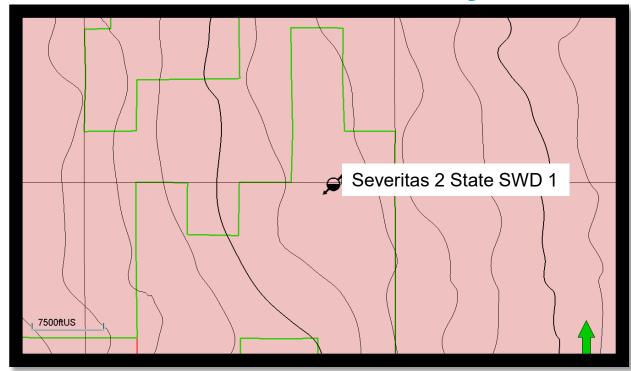
- No DSTs were taken in the DMG within 2 miles from the Severitas 2 State SWD 1.
- Two DSTs were taken within three miles
 - The State "23" 1 (30015277900) was drilled and P&A in 1994.
 - The East Apple Unit 1 (3001526105)
 was P&A in 2017 after:
 - Producing from parent and 2 SS:
 - 14k barrels oil
 - 31k Mcf gas
 - 41k barrels water
- Risks of impact to DMG hydrocarbons appear very low.

Papa Squirrel SWD 1

 No DSTs have been taken in the DMG within 2 or 3 miles from the Papa Squirrel SWD 1. Received by OCD: 11/2/2023 4:27:49 PM

Page 108 of 267

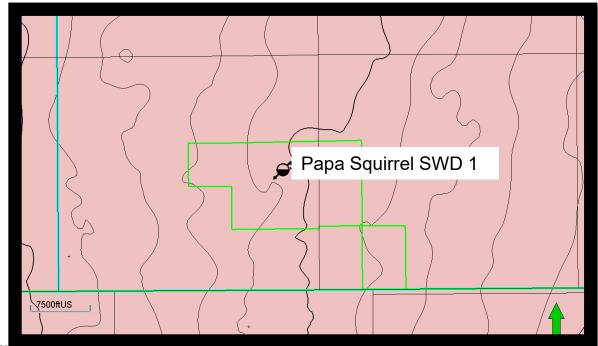
Geologic Structure Maps Suggest Low Likelihood of Hydrocarbons in DMG



- The continuity of the sands in the Bell and Cherry Canyon, coupled with the lack of structural closure, suggest little chance of hydrocarbon trapping in the area.
- Chevron is not targeting the Brushy Canyon, as it is a known unconventional target, but not productive in the immediate areas.
- However, the same surveillance data program implemented for the deeper production, will be implemented for any offset DMG unconventional wells, if encountered in the future.

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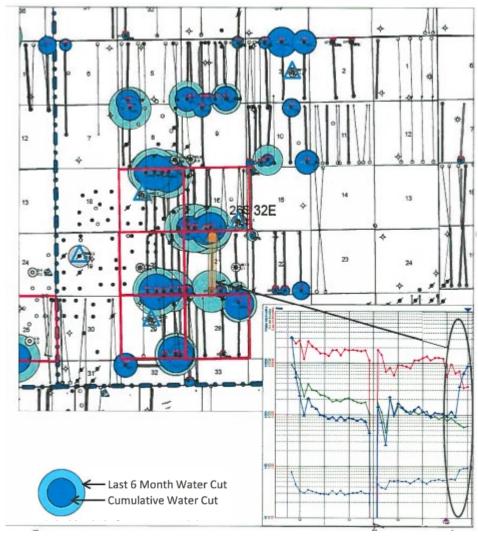
- No faults are interpreted from seismic data in the lower containment layer, Bone Spring Limestone, within 2 miles of either well.
- No faults are interpreted across the upper containment horizon, Lamar Limestone, within 2 miles of either well.
- Large density differences in the Castile result in significant velocity variations and seismic interpretation uncertainties which cannot be resolved.



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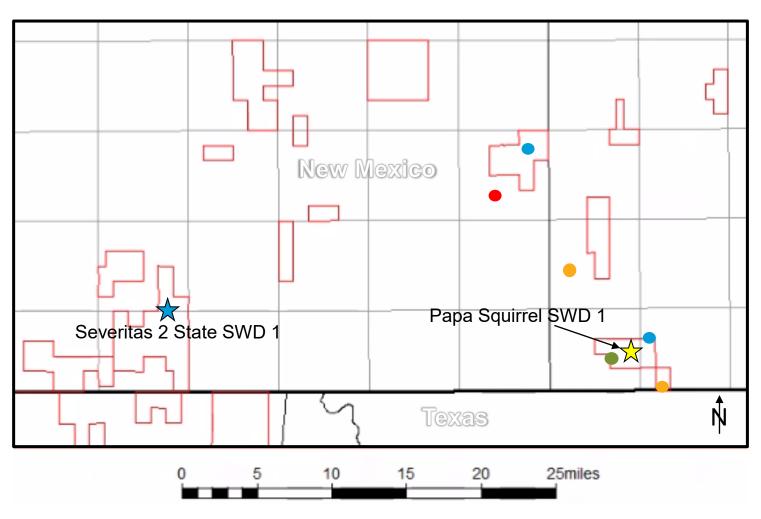
Watercut is not a definitive test of SWD interference

- In 2016, an operator workgroup shared observations with the OCD regarding Avalon and DMG production changes potentially being caused by DMG injection
- Potentially affected wells were identified when the last 6-month water cuts were higher than the cumulative water cuts.
- Hypothesis was that watercut increases were due to shallow SWD in the area.
- Other potential causes were typically not investigated



Case Study Locator Map

Several case studies indicate alternative hypotheses can explain the observed increases in water cut.

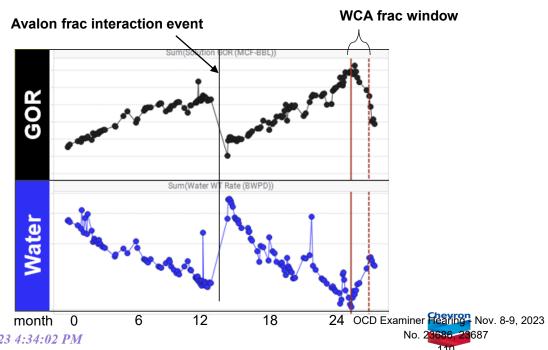


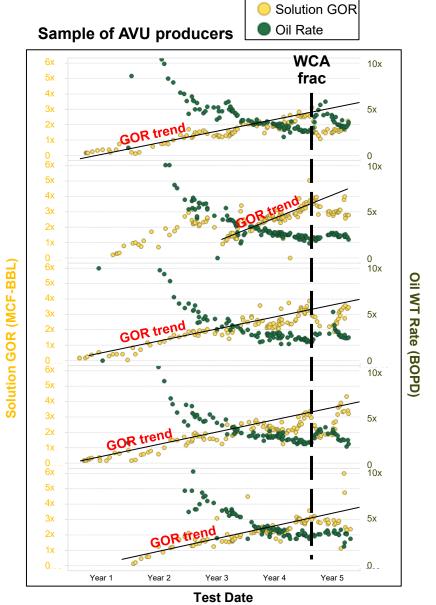
- WCA completions affected Avalon
- Avalon not affected by SWD
- Geologic features between DMG producer & SWD
- Geologic features between Avalon producer & SWD

Wolfcamp Completions Affect Avalon Production

Wolfcamp Completions Result in Avalon Production Interaction Page 112 of 267

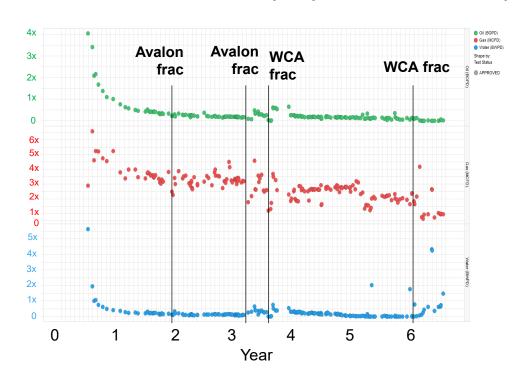
- 2019-2020: Observed significant production changes in Avalon wells overlying WCA fracs.
 - increases in liquids production (oil and water)
 - Order of magnitude decrease in producing gas-oil ratio (GOR)
- Assessment indicated WCA completions correlated with these changes
- In 2020, subsurface team confirmed the interactions with targeted surveillance
- Each pad of WCA wells has since predictably resulted in an Avalon watercut and **GOR** changes

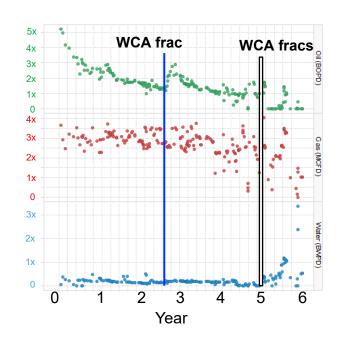


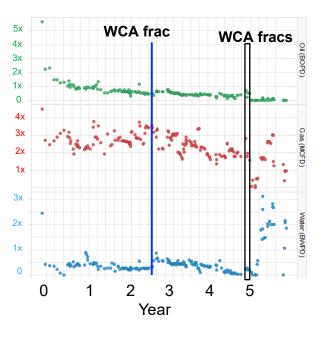


Wolfcamp Completions Have Initiated Extended Periods Of Water Influx in Nearby Avalon Wells

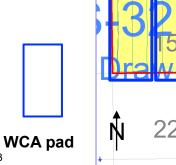
7 unique pads of WCA completions have interacted with ~40 Avalon producers

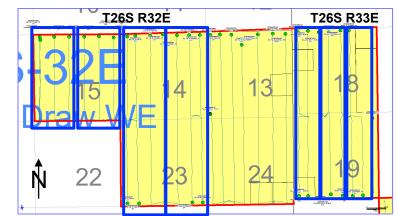




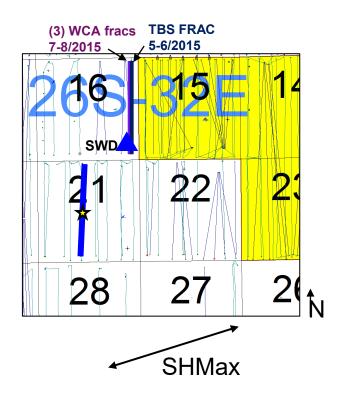


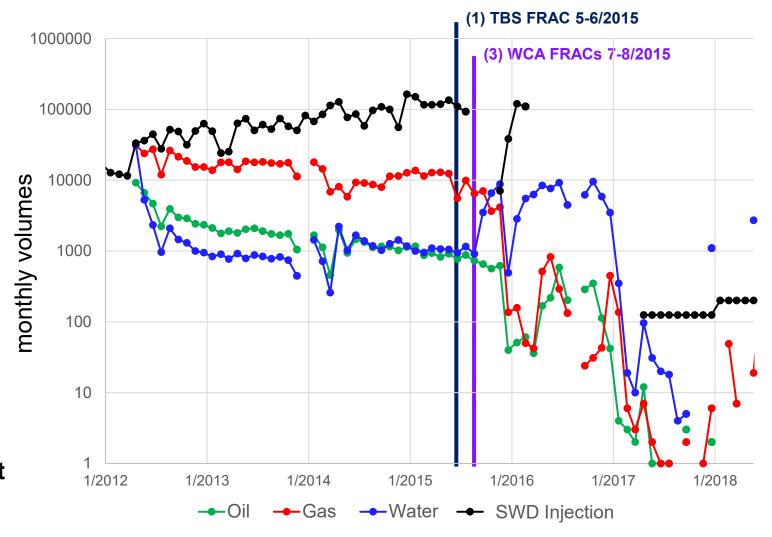
- Many Wolfcamp fracture interactions were long-lasting which is not typical of the general industry view of fracture interaction duration
- This long-lasting increase in water production following Wolfcamp completions is consistent with observations shared by industry in 2016 thought to be potential SWD interactions





Wolfcamp completions correlate with production changes in the Avalon Page 114 of 267 previously interpreted as SWD communication

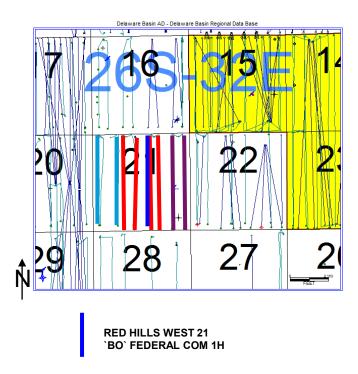




The initiation of the watering out event correlates with the Wolfcamp completion dates in well files

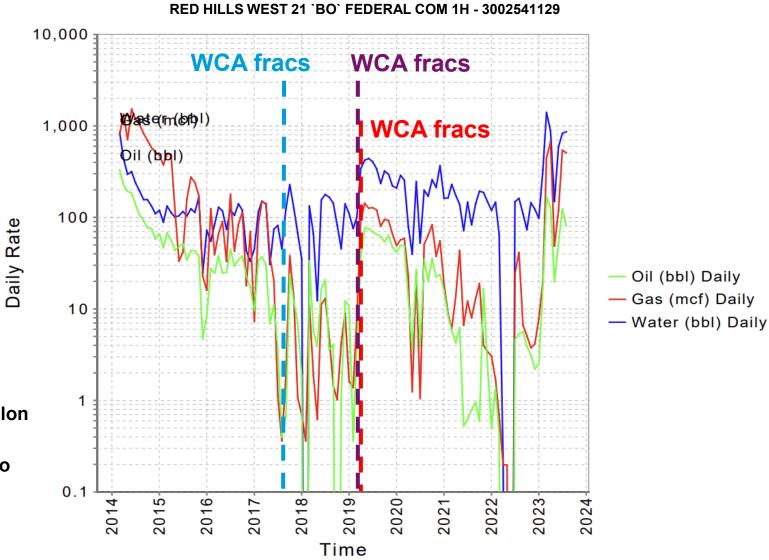
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Wolfcamp completions impact Avalon production





 Consistent with observations in Chevron's Salado **Draw**



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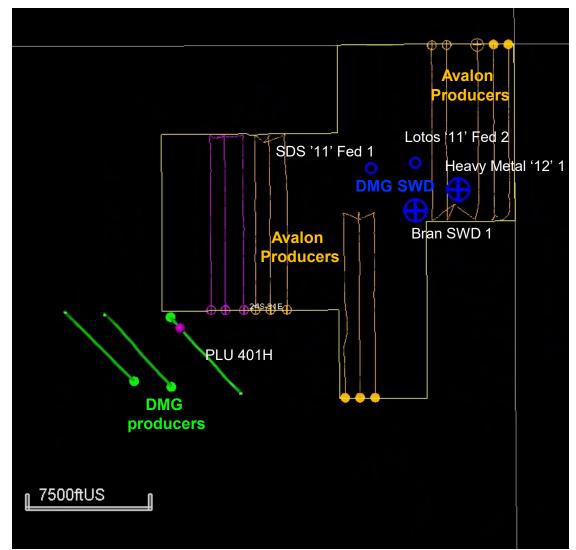
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Avalon wells not affected by DMG disposal

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Chevron Avalon wells not affected by overlying DMG disposal

- Chevron Lower Avalon wells located between DMG SWD and DMG producers were not affected by injection
- The DMG producers experienced high water production and pressure increases that correlated with DMG injection
- Chevron's Avalon wells produced at stable rates and water cuts with no indication of interaction with the DMG disposal wells



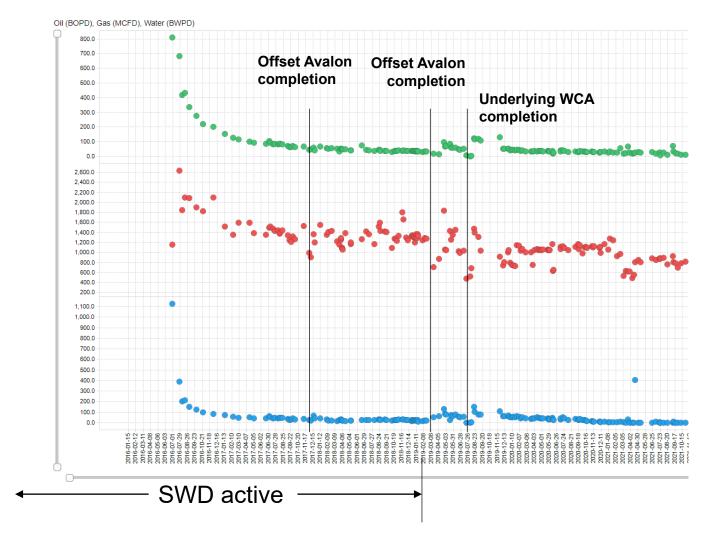




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Chevron Avalon wells not affected by DMG injection across lease line

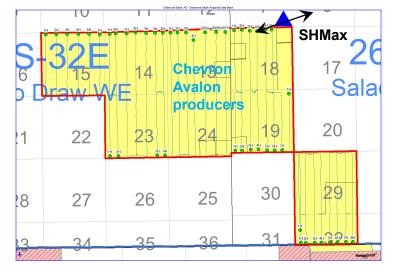


Near the end of SWD injection period:

- Avalon static bottom hole pressures 500 800 psig
- 40-60 bbl/day total fluid at a 50% water cut
- Stable decline rates

Mesa B: 3002542462 (P&A)

- Typical inj. rate = 2-4 Mbpd
- Last injection Feb 2019
- 1.8MM bbl. cumulative

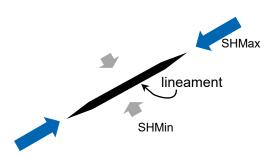


In cases where DMG SWD is a possible cause of DMG or Avalon water production, faulting or lineaments were identified

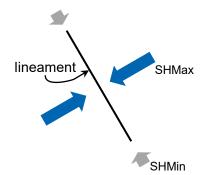
Lineaments parallel to SHmax identified between injectors and DMG producers

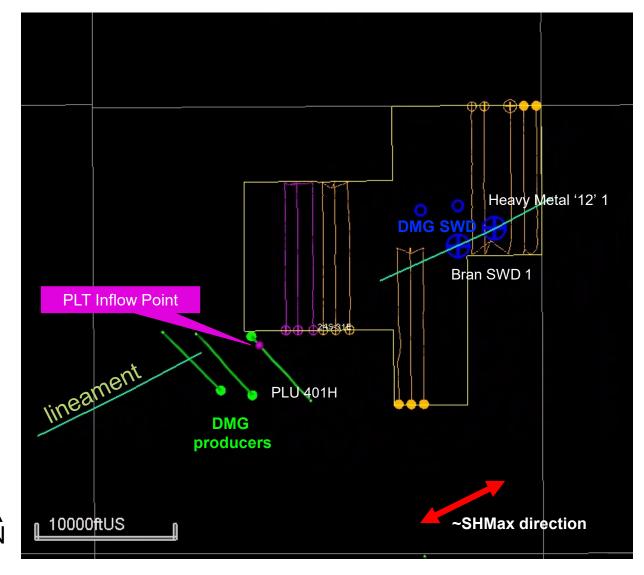
- 2 potential lineaments mapped on vertically exaggerated 3-D seismic horizons may provide insights into the communication within the DMG between Mesquite SWD's and the PLU 401H (Brushy Canyon well)
- When SHmax aligns with a lineament or fault, the effect is an opening force on the lineament allowing for fluid migration

Fractures striking parallel to SHMax open, enabling fluid migration



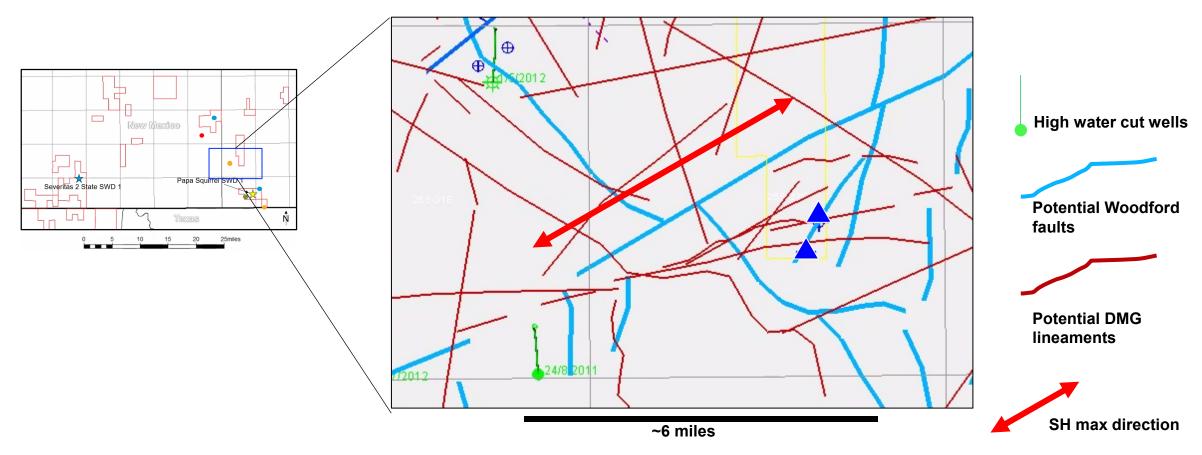
Lineaments striking perpendicular to SHMax close, restricting fluid migration





Lineaments Parallel to SHmax Potentially Contribute to Water Influx

- Basement strike slip fault system is co-parallel with overlying network of DMG lineaments
 - Producer and SWDs are ~4.5 miles apart
 - Woodford features coincident with possible DMG lineament networks are not widely observed
 - Correlation between SHmax direction and lineaments look to be a potential contributor in this case



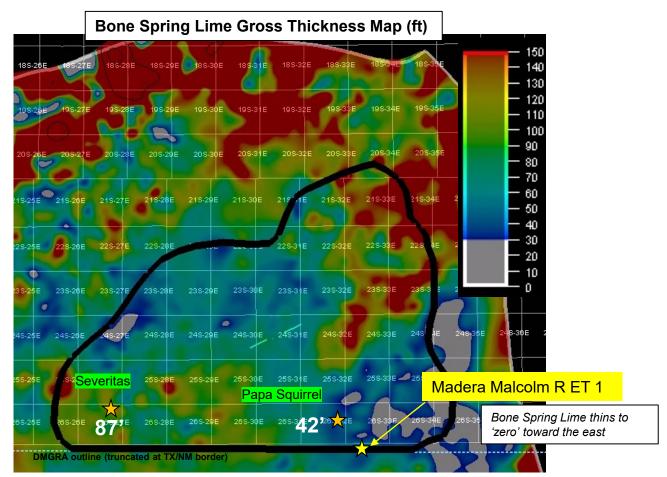
Bone Spring Limestone (BSL) Lower Containment

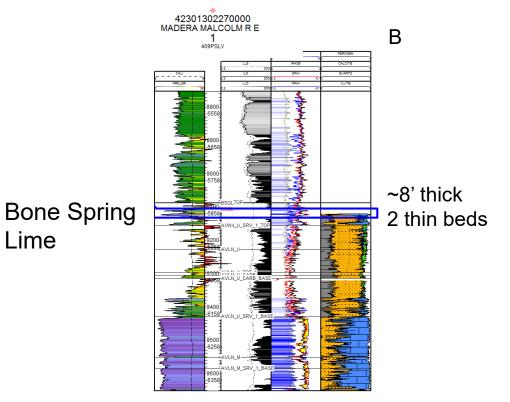
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Bone Spring Lime thickness varies across the basin

Modeling Overview:

- To determine the amount of Avalon completion gal/cluster that would require to breach an 8' foot thick Bone Spring Lime formation
- A breach in the Bone Spring Lime may lead to watering out underlying Avalon development wells





BSL isochore is 87 and 42 feet, respectively, in the Severitas and Papa Squirrel.

Lime

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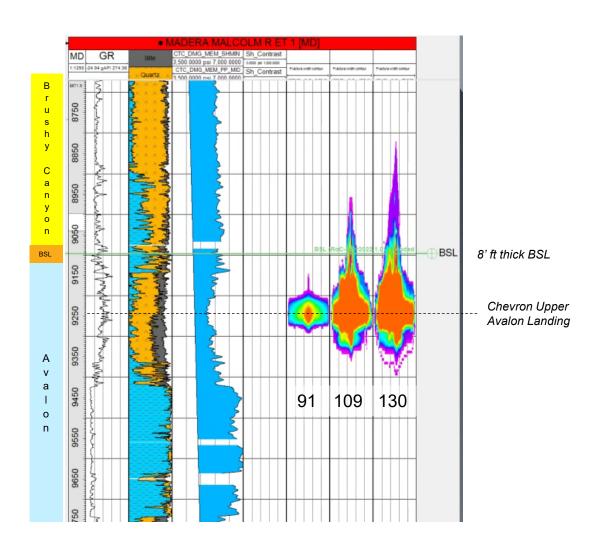
Models Indicate an 8' Thick Bone Spring Lime is not Breached by Typical-sized Avalon Completions

Methodology

- Planar 3D in Kinetix was used to assess the chance of fracture growth into the DMG for each sensitivity.
 - Base pump schedule: 1500 #/ft 1500 gal/ft at 6 clusters on 45' spacing
 - SVC sensitivities: 69, 79, 91 Kgal/cluster [1500, 1750, 2000 intensities]
 - Pump Rate sensitivities: 70 & 100 bbl/min
- SVC sensitivities to find the point at which the rock breach through the Bone Spring Lime [91, 109, 130K gal/cluster]

Results:

- Simulation shows low chance of breaching through the BSL. At volumes higher than 109 Kgal/cluster, the chances of breaching through the Bone Spring Lime increases.
- BSL isochore is 87 and 42 feet, respectively, in the Severitas and Papa Squirrel. There is a much less likely chance of breaching in subject SWDs.
- The Bone Spring Lime is not breached during intentional Avalon hydraulic fracture operations. SWD operating at lower pressure gradients and greater vertical offset are unlikely to breach the Bone Spring Lime.



Summary

- Watercut is not a definitive test of SWD interference
- Wolfcamp completions have consistently resulted in Avalon watercut and gas-oil-ratio changes in Chevron's Salado Draw area
- Avalon producers are operated offsetting and underlying DMG injection without indications of communication
- When SHMax aligns with a lineament, the effect is an opening force on the lineament enabling fluid migration
- The Bone Spring Lime is not breached during Avalon completions. SWD operations at lower pressure gradients and greater vertical offset are unlikely to breach the Bone Spring Lime

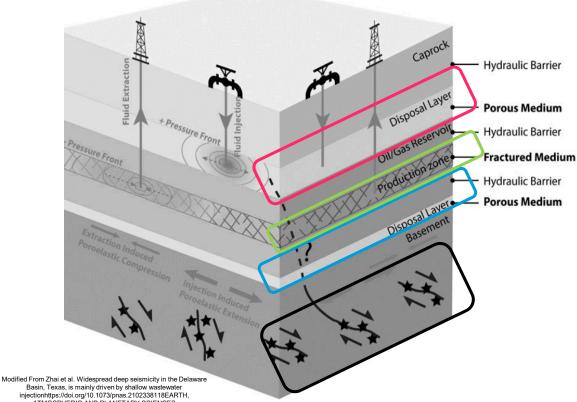
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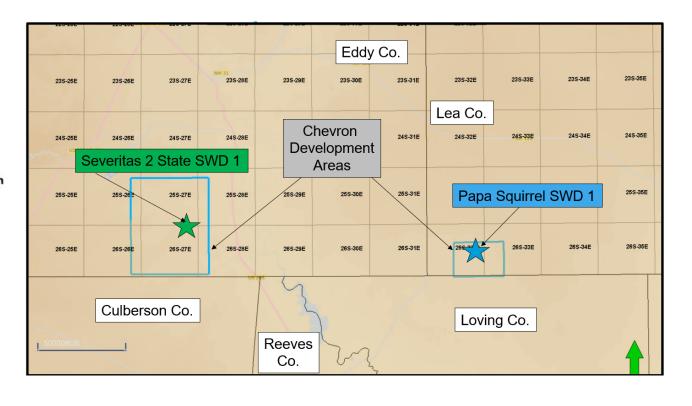
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Seismicity Review

Geological theoretical layer model for Permian Basin

operations





Shallow injection: in SE. New Mexico ~ 5,000 – 7,000'

Production: in SE. New Mexico ~ 6,500-12,500

Deep injection: in SE. New Mexico ~ 17,000-20,000'

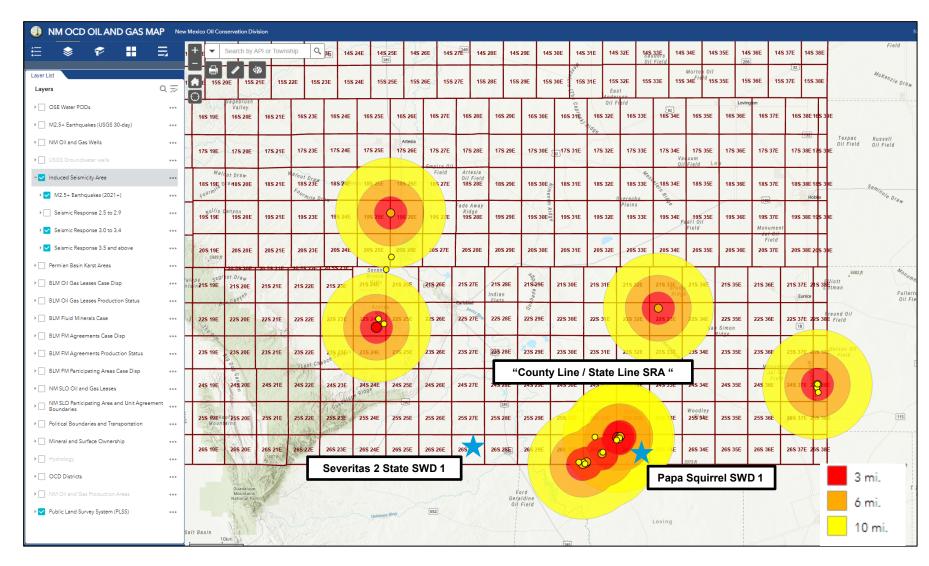
Seismicity ~ 20,000'+

33

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New Mexico Seismic Review Areas "SRA"

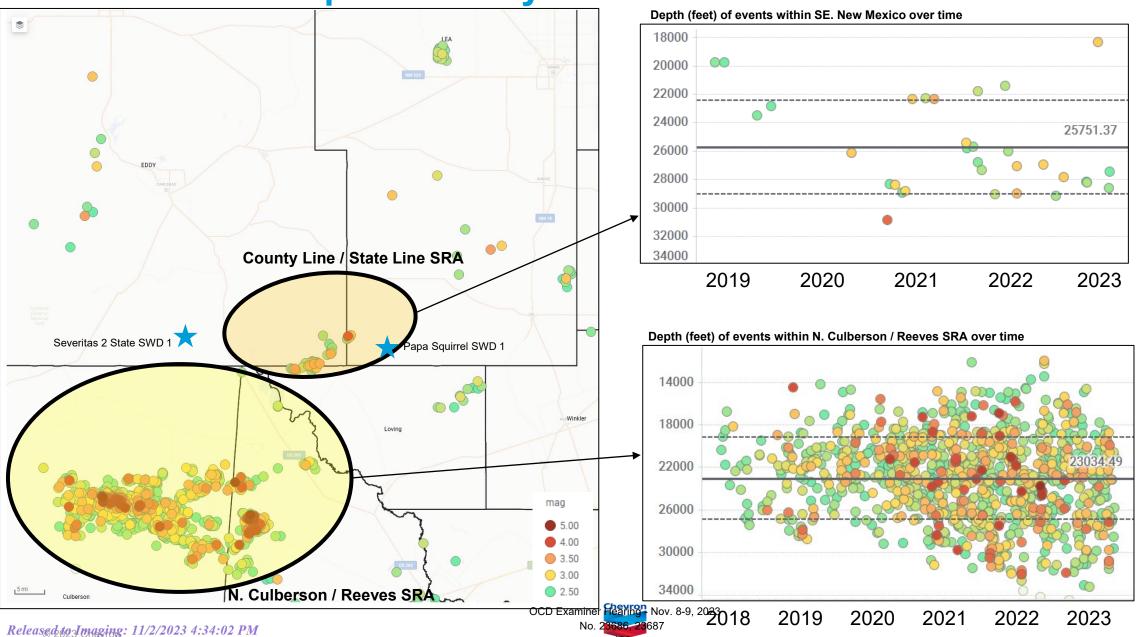


Map depicts current NMOCD SRA area (as of 9/29/23)

Papa Squirrel SWD 1 lies within the "County Line / State Line" SRA

Severitas 2 State SWD 1 is outside of any SRA

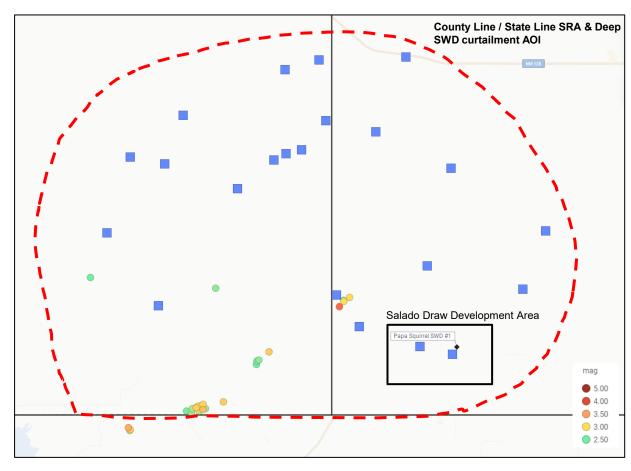
Deep Seismicity within N. Delaware Basin



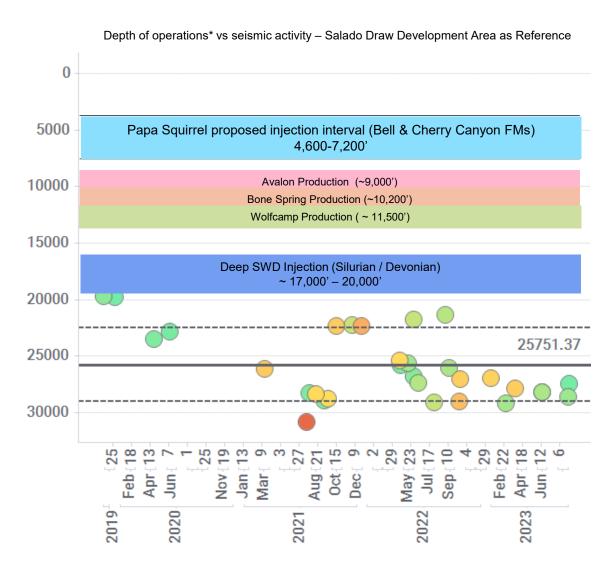
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Seismicity Confined within Silurian / Devonian



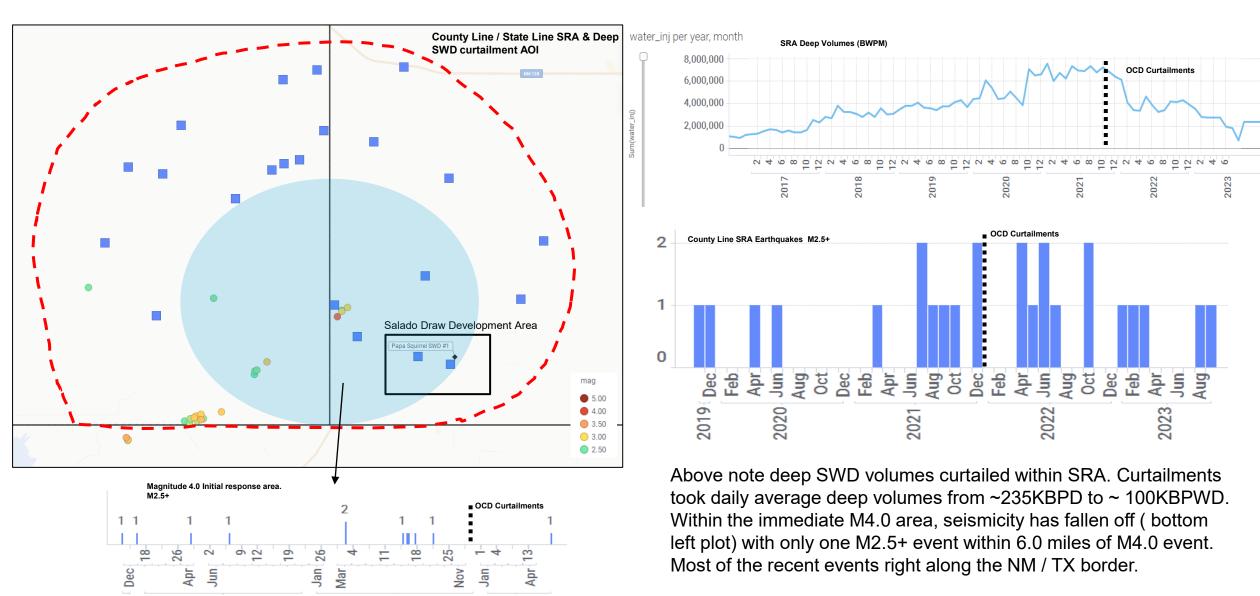
Blue wells note deep SWD wells within the SRA boundary. Only deep SWD wells are curtailed or impacted by SRA protocol.



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SRA Volume Curtailments Correlate with Reduced Seismic Activity



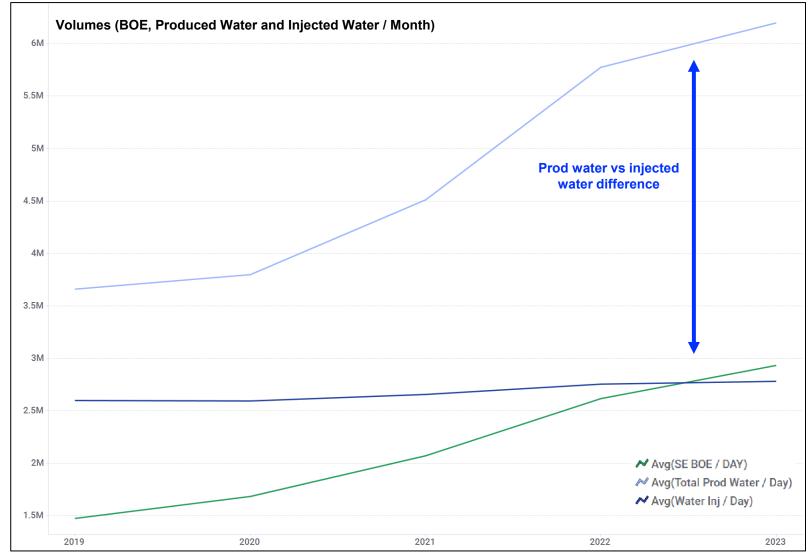
OCD Examiner Hearing Nov. 8-9, 2023

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SE New Mexico (Permian Basin) Production



Plot for SE New Mexico (Eddy and Lea CO)

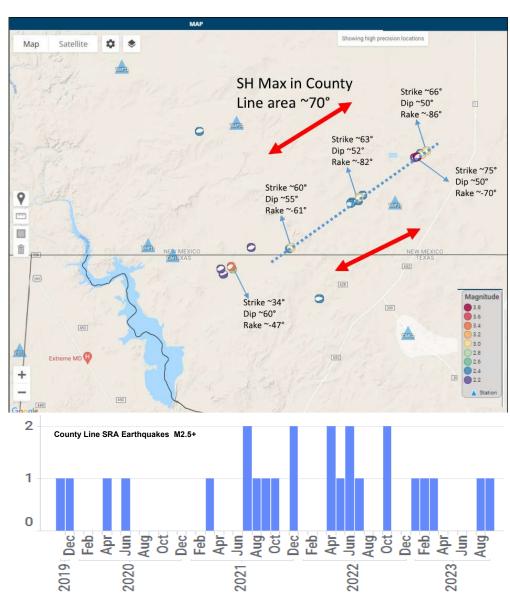
~ 3MM BWPD difference vs total water production and injection

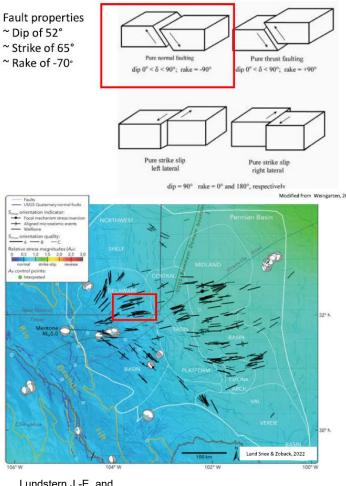
Data from NMOCD Statistics (https://www.emnrd.nm.gov/ocd/ocd-data/statistics/)- S. New Mexico Only.

OCD Examiner Particle Nov. 8-9, 2023

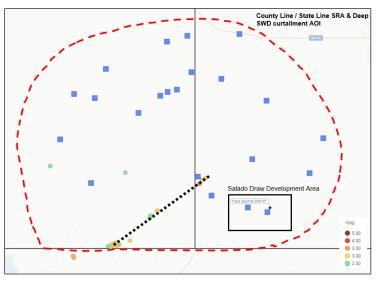
Received by OCD: 11/2/2023 4:27:49 PM Page 132 of 267

Chevron Undertook In-DepthTechnical Review





Lundstern, J.-E., and M.D.Zoback(2016), StateofstressinTexas: Implications for induced seismiciy, Geophys. Res. Lett., 43, 10, 208-10,214,doi:10.1002/2016GL070974.



Based off stress data, SE New Mexico is in a dominantly normal faulting stress environment. Thus, faults oriented roughly parallel to this direction are more geologically prone to movement.

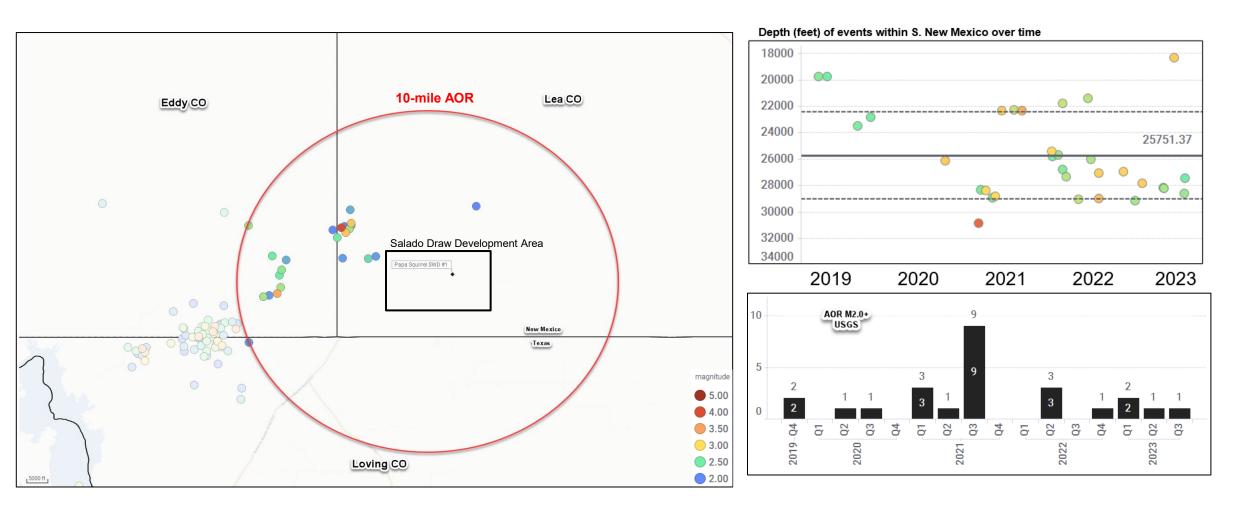
The Moment Tensors (MT) from Earthquake catalogs provide robust agreement with faults movement and regional stress.

OCD Examiner Hearing Nov. 8-9, 2023

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Papa Squirrel SWD 1 Seismicity Review



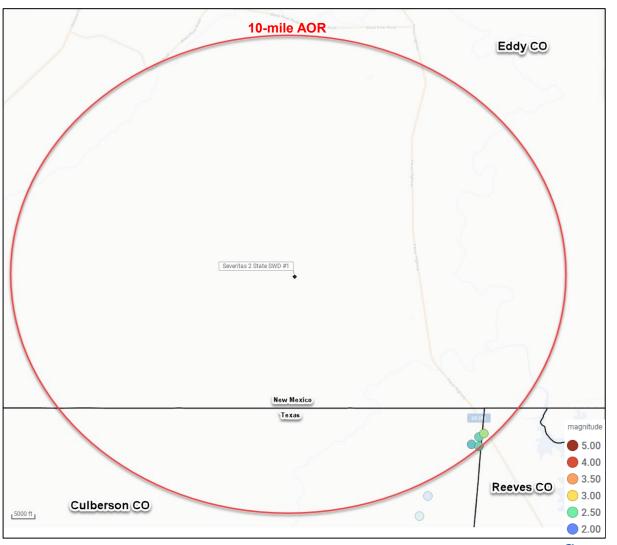
Events within 10 miles of Papa Squirrel SWD 1 location are within County Line / State Line SRA. Depth of events over 15,000' deep vs injection formation of Papa Squirrel.

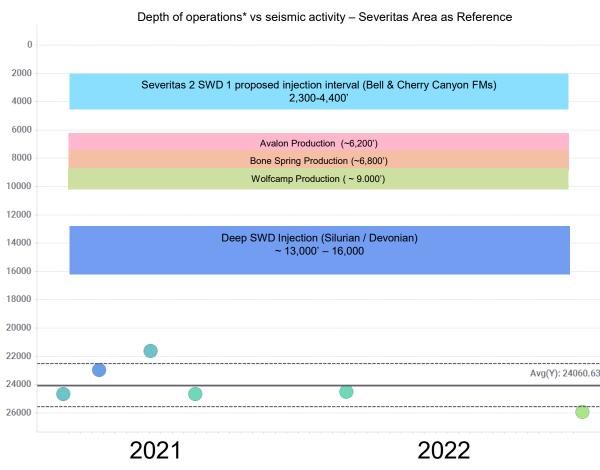
Closest M2.5+ event ~ 5.7 miles from Papa Squirrel location

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Severitas 2 State SWD 1 Seismicity Review





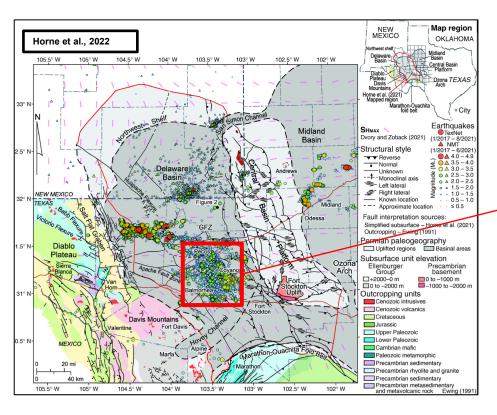
Only five events (largest magnitude 2.3) within 10 miles of proposed Severitas 2 State SWD 1 location (all events within Texas). Depth of events over 20,000' TVD.

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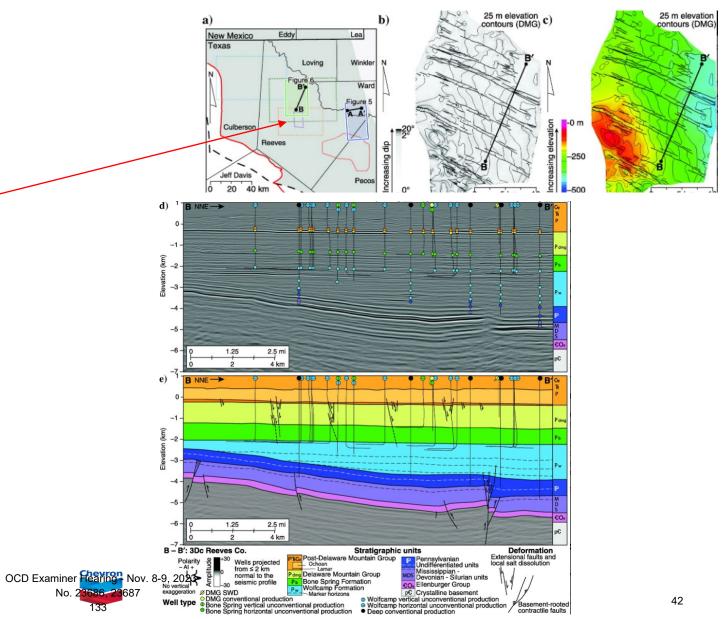
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Shallow (DMG Related) Seismicity – Southern Delaware Basin

S. Reeves and Pecos



Elizabeth A. Horne, Peter H. Hennings, Katie M. Smye, Scott Staniewicz, Jingyi Chen, and Alexandros Savvaidis, (2022), "Structural characteristics of shallow faults in the Delaware Basin," *Interpretation* 10: T807-T835.https://doi.org/10.1190/INT-2022-0005.1

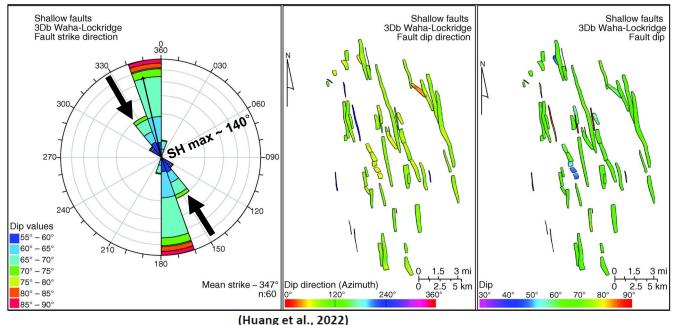


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Shallow (DMG Related) Seismicity – Southern Delaware Basin

S. Reeves and Pecos

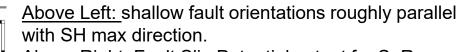


-103.5°

Coalson event

Zone 3

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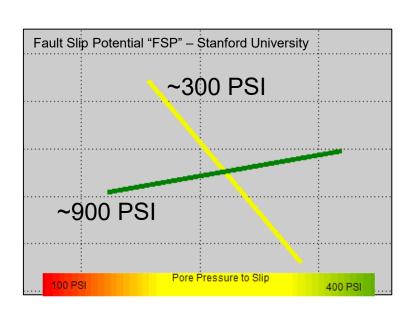
Above Right: Fault Slip Potential output for S. Reeves, noting importance of fault orientation w/ SH max.

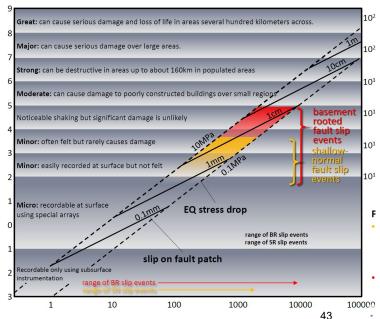
<u>Below Left:</u> moment tensor (MT) solutions nothing depth of EQ's within S. Reeves and associated w/ shallow faulting.

<u>Below Right:</u> relation to fault size, stress and potential EQ magnitude.

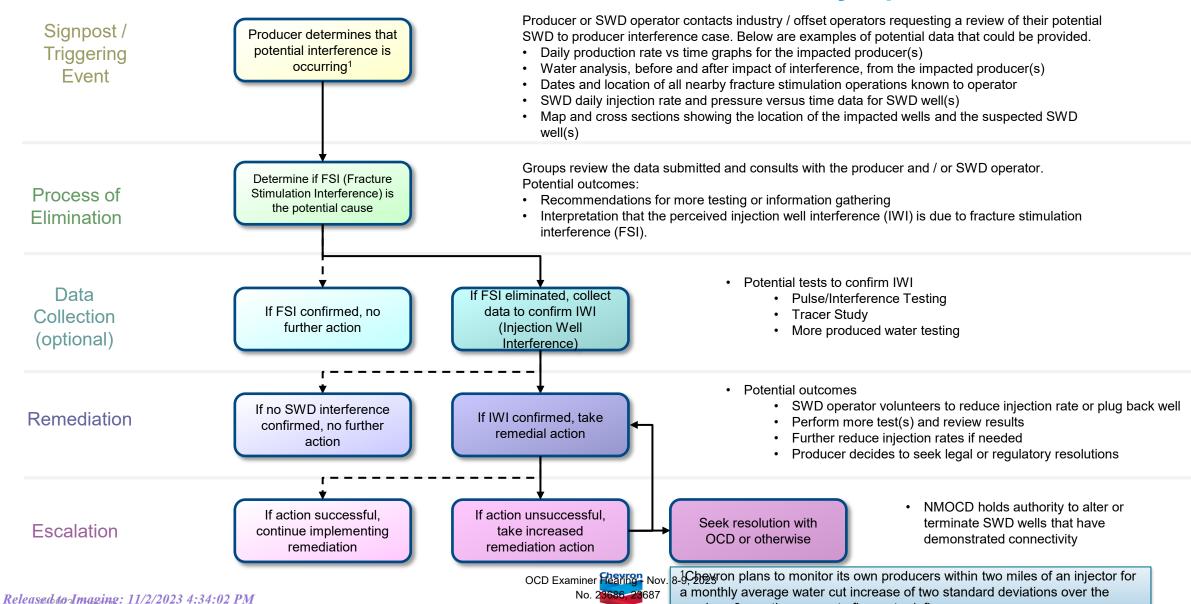


Mark D. Zoback and Steven M. Gorelick, Nov(28-22) 2023 Inquake triggering and large-687 scale geologic storage of carbon dioxide" PNAS Vol 109, no. 26.





Notional SWD Interference and Communication & Resolution Framework Created in Collaboration with other Industry Operators



previous 3-month average to flag water influx

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Chevron's Proposed SWD Data Collection & Surveillance Program

Surveillance	Purpose	
Quad Combo Logs (Gamma Ray, Resistivity, Neutron / Density and Sonic)	 Injection interval depths & thicknesses Fill spatial gaps in key modeling logs (i.e., sonic logs for DMG) FE properties for injectivity validation through rate transient analysis (RTA) work Stress properties from Sonic Inputs to mechanical earth model (MEM) 	
XRMI Log (X-tended Range Micro Imager [formation image log])	 Natural Fractures & stress orientation identification Inputs to MEM model 	
Downhole Pressure Gauge	 Pore pressure and frac gradient models and 1D MEM updates Injector performance evaluation and forecasting 	
Spinner Surveys	Identify high permeability zones; compare with log data	
Water Chemistry	 Water chemistry profiles for bench-to-bench communication analysis Water source identification and allocation 	
DFIT	 Identify fracture closure stress in DMG (Bell, Cherry, and Brushy) Support geomechanics modeling 	
Step Rate Tests	 Identify rate and pressure at which the reservoir as an aggregate fractures Understand operating limits of SWD 	
Tracers	Identify if injected wastewater is being produced by offset unconventional wells	
Downhole Gauges in offset Producers	Measure influence/communication of injectors on offset producers	
Production Monitoring	 Monitor water cut trends to identify communication between injectors and producers 	

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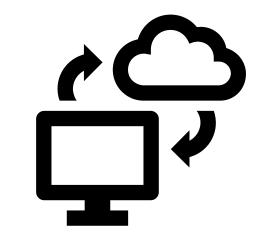
Chevron's Proposed SWD Data Collection & Surveillance Program Timeline

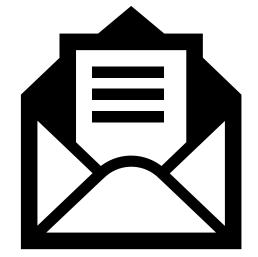
SWD SPUD

Category	Pre SWD-Spud	Execution	Injection Start Up	3 – 6 months	> 6 months
Injectivity/Injection rates	Reservoir pressure measured from reservoir formation tester (RFT) in development wells → improved max rate calculation	Well logs to determine porosity, thickness and fracture presence	Step Rate Test established max injection rate and injectivity without fracturing reservoir.	Spinner surveys to identify high perm zones	Hall plot monitored injectivity change
			Image logs to identify high perm zones from fractures / faults		through time.
			Reservoir and bottom hole pressure from DHPG for pressure and injector performance monitoring		
Injection capacity fill- up volume/timing	Reservoir pressure measured from RFT in development wells Well logs to determine porosity, thickness and	determine	SRT established frac gradient and fracture pressure limit.	Rate transient analysis derive pressure, reservoir boundary up time.	
	fracture p		Reservoir and bottom hole pressure from DHPG for pressure and injector performance monitoring		
Reservoir pressure	form DET in development and	Reservoir pressure at SWD measured prior to SRT			
monitoring		Reservoir pressure from DHPG to monitor change in reservoir pressure with time			
Fracturing pressure	Conduct DFIT, analyze pressure gradient from logs,		Forecasted BHP increase from RTA derived reservoir model and how to compares with SRT established frac gradient and fracture pressure limit.		
		calibrate with DFIT.	Reservoir pressure from DHPG to monitor change in reservoir pressu	ıre with time	
Injection zone			Analyze SRT to determine injection rate limits	Monitor offset producing wells for une acquire water samples, and run dowr	
conformance		Image logs to identify high perm zones from fractures / faults	Spinner surveys to identify hig	nh perm zones	
Downhole water sampling of DMG from RFT on development		Run tracer in injector, sample offset producers			
	wells			Forecasted fill up time from RTA	
		Routine water sampling to monitor and compare injected water with baseline aquifer chemis		baseline aquifer chemistry	
			INSAR ground level monitoring		

Pilot Project Data Reporting

- Chevron's proposed plan for data submittals to NMOCD will be in the same format as those to other operators.
- Transfer of data and interpretations to operators is straight forward.
- Chevron is committed to engaging with NMOCD on data submissions





Seismicity Section & Data Collection Conclusions

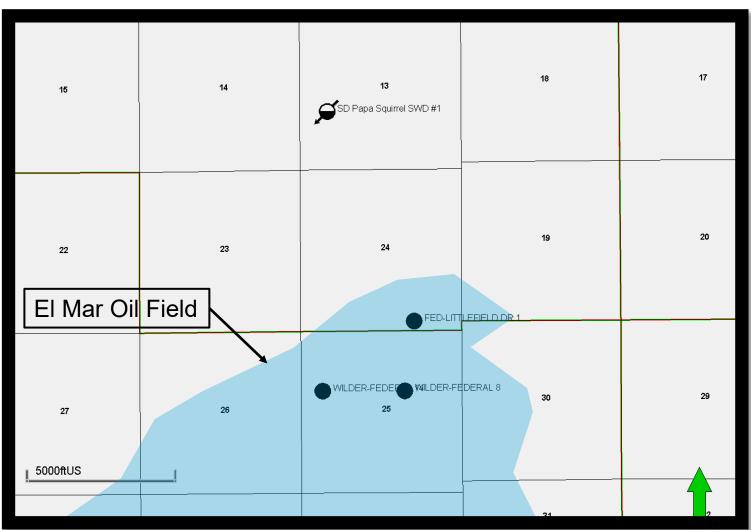
- Current working hypothesis, supported by modern day research and observations, note that recent increases in deep disposal volumes is attributed to the increase in seismicity across the northern Delaware Basin of Texas and SE NM
- Seismic events within the AORs of the Papa Squirrel and Severitas locations are well over 15,000' deeper than the injection intervals and to date, do not suggest that shallow SWD operations are, in this area, contributing to seismicity
- Chevron has conducted a thorough review of technical field, subsurface and literature data to plan for and propose locations to mitigate seismicity
- Proposed SWD pilots will collect an industry leading dataset to understand subsurface issues and opportunities w/r/t injection operations
- Chevron supports open data collection and dissemination to support broad learnings and collaboration

DMG Production Assessment

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DMG Production within a Two-Mile Radius Papa Squirrel SWD 1 and Severitas 2 State SWD 1



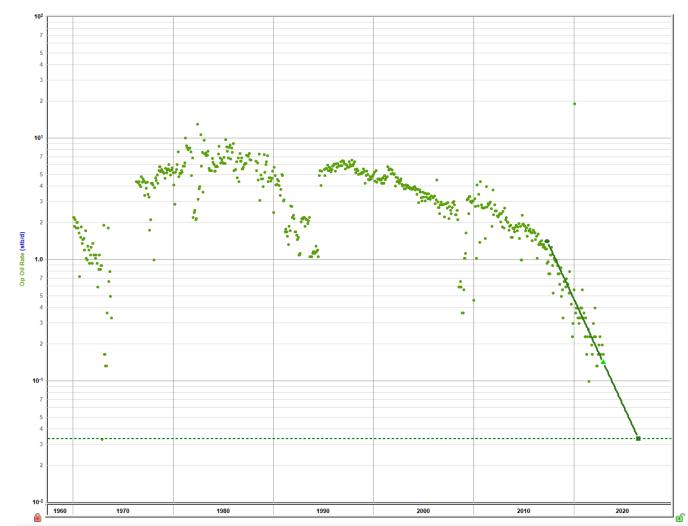
- The only active DMG producers within 2-mile radius of the Papa Squirrel SWD 1 proposed well lie within the El Mar Field:
 - Sahara Fed-Littlefield DR 1
 - Sahara Wilder-Federal 8
 - Sahara Wilder-Federal 14
- There are no active DMG producers within 2-mile radius of the Severitas 2 State SWD 1 proposed well.

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Sahara Fed-Littlefield DR 1* Decline Analysis

Decline Type	Exponential
Annual Decline, %/year	33.67
Cutoff Rate, BO/Month	1.0
End Date	June 2026
Remaining Oil, MSTB	0.096

Most current production is less than 1 B/D.

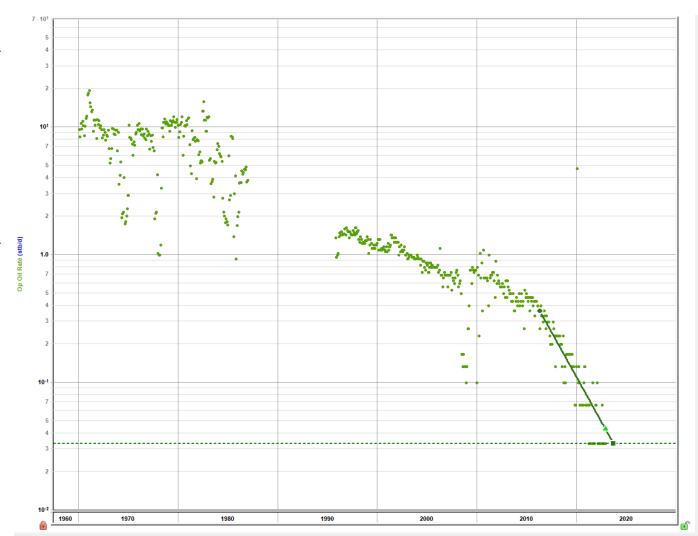


Gas excluded from analysis due to data missing post 1994

Sahara Wilder-Federal 8* Decline Analysis

Decline Type	Exponential
Annual Decline, %/year	27.62
Cutoff Rate, BO/Month	1.0
End Date	Sep 2023
Remaining Oil, MSTB	0.011

Most current production is less than 1 B/D.



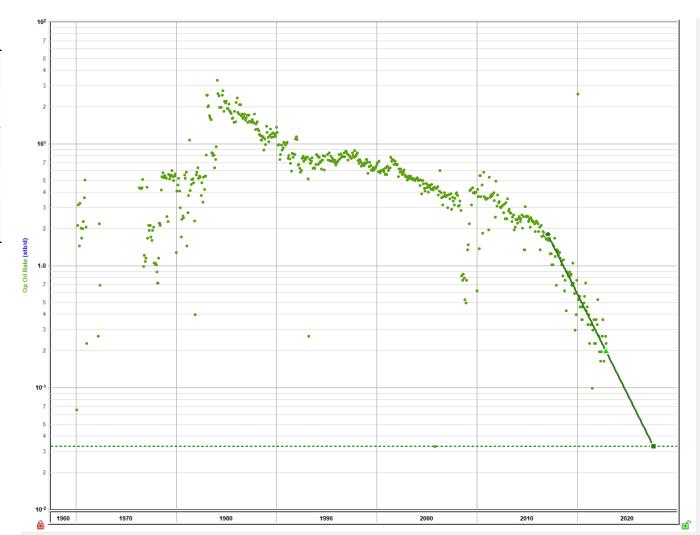
Gas excluded from analysis due to data missing post 1986

OCD Examiner Hearing Nov. 8-9, 2023 No. 23686, 23687

Sahara Wilder-Federal 14* Decline Analysis

Decline Type	Exponential
Annual Decline, %/year	31.58
Cutoff Rate, BO/Month	1.0
End Date	Aug 2027
Remaining Oil, MSTB	0.158

Most current production is less than 1 B/D.



Gas excluded from analysis due to data missing post 1997

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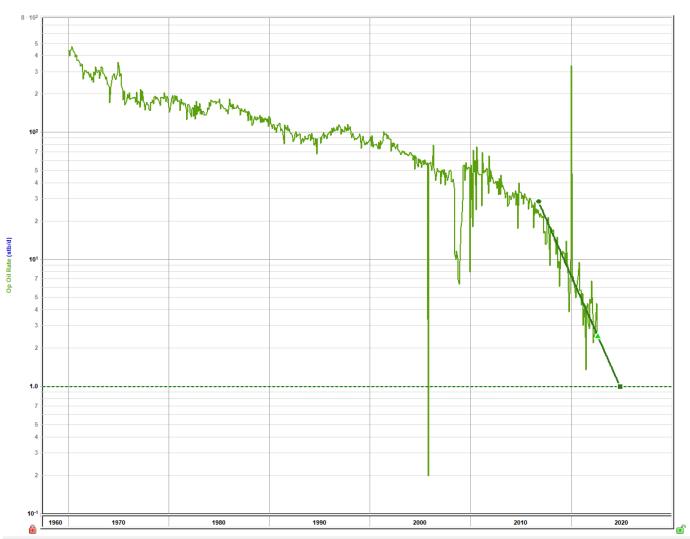
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El Mar Field Decline Analysis Demonstrates Limited Remaining Reserves in Entire Field

Decline Type	Exponential
Annual Decline, %/year	33.82
Cutoff Rate, BO/Month	30.0
End Date	Nov 2024
Remaining Oil, MSTB	1.313

El Mar Field Well Count: 20 in 2022

Most recent well drilled:



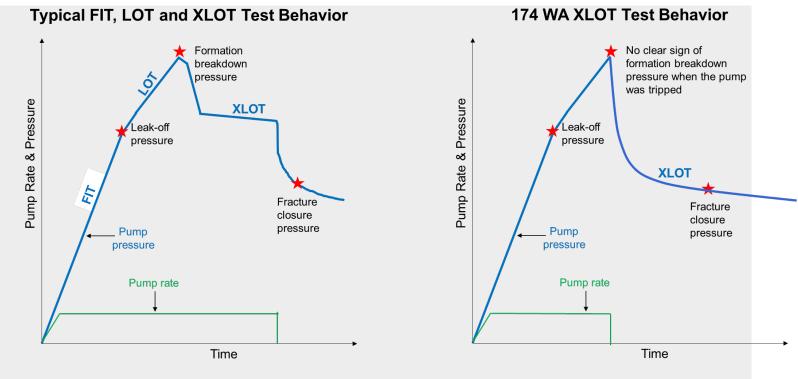
Gas excluded from analysis due to data missing post 1997

OCD Examiner **Fearing** Nov. 8-9, 2023 No. 2<mark>3686, 28</mark>687

Lamar Limestone Upper Containment

Received by OCD: 11/2/2023 4:27:49 PM Extended Leak-off Test – Lamar Limestone Seal No Signs of Seal Breakdown at High Pressure

- Formation Integrity Test (FIT)
 - A test to evaluate the strength and integrity of a new formation and it is the first step after drilling a casing shoe.
- Leak-Off Test (LOT)
 - A test to determine the fracture pressure of the open formation, usually conducted immediately after drilling below a new casing shoe.
- Extended Leak-Off Test (XLOT)
 - With minor modifications, LOT becomes XLOT to provide fracture closure pressure (FCP).
 - Chevron Conducted XLOT on well 174WA in Oct 2022



- Due to pump tripping at max pressure of 2200 psi, no clear sign of formation breakdown pressure was observed during any of the three 174WA XLOT tests.
- Max pressure during the XLOT is significantly higher than pressures encountered during injection operation.

OCD Examiner Hearing Nov. 8-9, 2023

Lamar XLOT Test Data Summary

Test	Cycle 1	Cycle 2	Cycle 3
Test date	10/29/2022	10/29/2022	10/29/2022
Pumping start time	1:24:45 AM	2:08:28 AM	2:40:58 AM
Pumping duration (mm:ss)	2:17	1:41	1:38
Total injection volume (bbl)	0.59	0.73	1.18
Average injection rate (bpm)	0.26	0.43	0.72
Shut-in time (min)	23.5	23.0	32.0
Flowback volume (bbl)	-	0.25	0.20
Surface ISIP (psi)	1,744	1,713	1,701
ISIP at csg shoe (1583.94ft TVD) (ps	2,499	2,468	2,456
Leak off pressure (psi)	2,380	2,411	2,426
Leak off pressure (ppg)	28.90	29.27	29.45
Fracture closure time (min)	10.8	14.6	18.0
Minimum stress at casing shoe (psi	1930	1821	1,799 - 1,729
Minimum stress gradient (psi/ft)	1.22	1.15	1.14 - 1.10
Minimum stress gradient (ppg)	23.43	22.11	21.84

- Casing Shoe Depth ~1584 ft.
- The XLOT results clearly show that the Lamar has higher closure stress (1.1– 1.22 psi/ft) and ultralow perm.
- Higher values in tensile strength, Young's Modulus and fracture toughness make the Lamar difficult to break down. LOP: 1.5-1.53 psi/ft
- Above properties and testing pressure behavior suggest that Lamar can act as a seal during disposal in the DMG

No sign of clear formation breakdown observed up to 2,200psi surface pressure (36.4ppg EMW)

- Reduction in ISIP from Cycles 1 to 3 indicates the rock was weakened and fracture complexity was reduced.
- Reduction in closure stress suggests that the impact of multiple fractures diminished after each injection.
- The fracture closure time was longer than the model predicted, which indicates that Lamar is tighter than 1md.

Max BHP gradient during injection operations will be ~ 0.7 psi/ft giving a safety factor on the Lamar fracture closure pressure of 1.57 – 1.74

^{*} Minimum stress from the G·dP/dG Plot is used as the value is more evident.

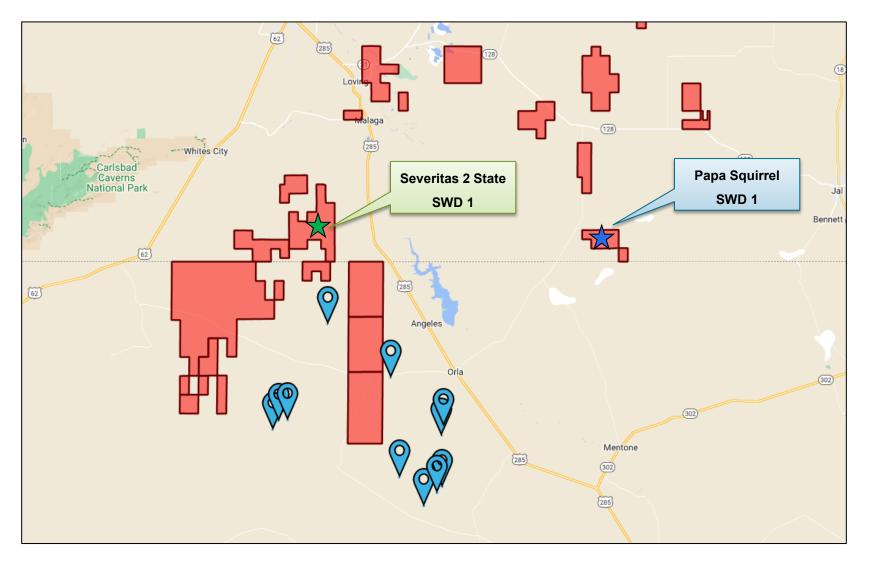
^{**} Fracture closure from Cycle 1 may not occur.
*** No density log data available to calculate overburden stress, but it is estimated to be around 1.2 psi/ft.

Injection Modeling and Reservoir Pressure Impacts

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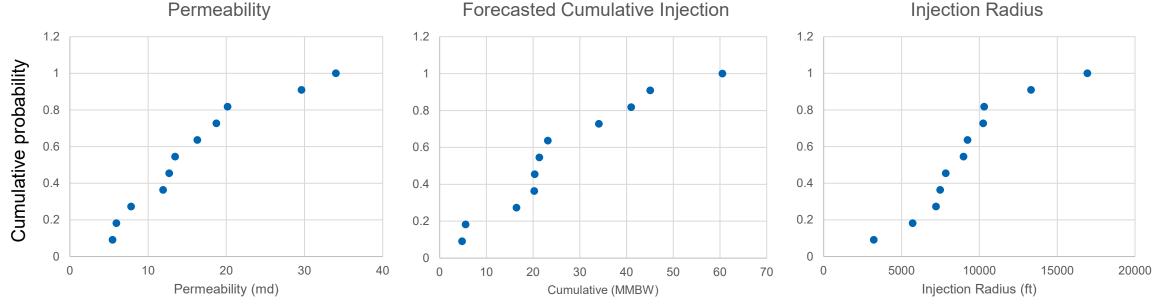
Location of Wells with Sufficient Data for Rate Transient Analysis



Rate Transient Analysis Summary on DMG Injectors

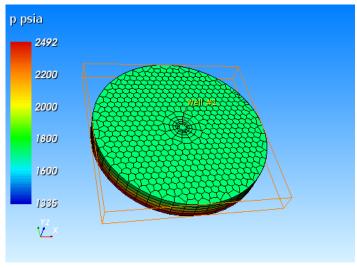
- Rate Transient Analysis (RTA) is the primary method used to understand the part of the reservoir the injector accesses (permeability, boundary type/distance), measure near wellbore effects (skin), and forecast (rate, cumulative injection, reservoir pressure)
- Well data taken from 11 wells with publicly reported daily rates and pressures and analyzed through RTA to infer properties below
 - Cumulative injection dependent on injection radius and interval thickness; injection rates dependent on permeability
 - Forecasted cumulative volumes based on a 0.2 psi/ft surface pressure limitation

Parameter	P10 Value	P50 Value	P90 Value
Permeability (md)	6 md	13 md	30 md
Injection Radius (ft)	5,717 ft	8,979 ft	13,314 ft
Cumulative Injection (MMBW)	5.54 MMBW	21.34 MMBW	45.08 MMBW

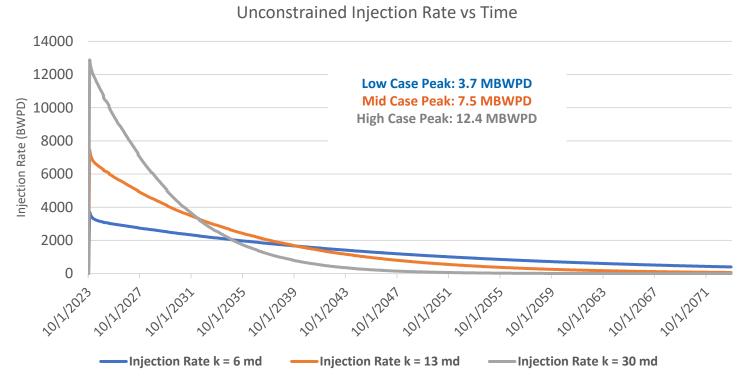


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Severitas 2 State SWD 1 Modeling Results Cumulative storage 28.8 MMBW



Pi	1236.0 psi
Т	98 F
Water TDS	160000 ppm
Bell Top	2376.9 ft
Bell Thickness	816.7 ft
Bell Porosity	17.0%
Cherry Thickness	1212.2 ft
Cherry Porosity	15.5%
THP	475 psi
Boundary Radius	8979 ft
Cumulative Storage	28.8 MMBW

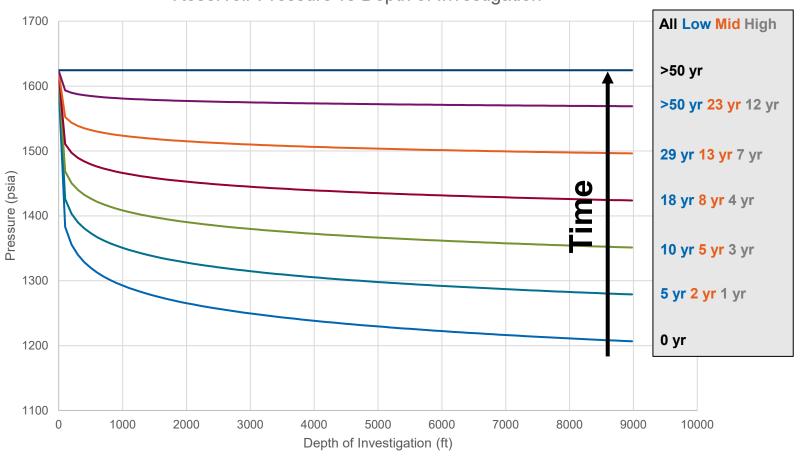


- Homogenous flow model created to simulate injection rates through time
- Inputs were taken from geological log correlations and general RTA statistics
- Injection profiles shown are unconstrained on rate but subject to maximum permitted surface pressure (0.2 psi/ft)

OCD Examiner Hearing Nov. 8-9, 2023 No. 23686, 23687

Severitas 2 State SWD 1 Modeling Results Reservoir Pressure Increases Slowly Over Time





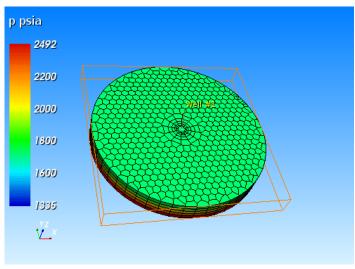
-0 MMSTB ---- 5 MMSTB ----- 10 MMSTB ----- 15 MMSTB ----- 20 MMSTB ----- 25 MMSTB ----- 28.8 MMSTB

- Reservoir pressure plot shows pressure at different depths of investigation at different times in the well's life (based on P50 permeability of 13 md)
- Reflects the BHP which would be recorded in a theoretical observation well placed at a given distance away from the injector
- Reservoir pressure increase is relatively slow, with a 300-psi increase taking more than a decade

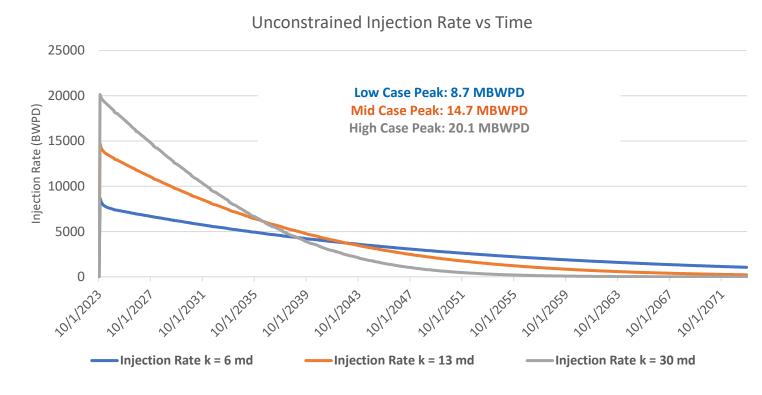
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Papa Squirrel SWD 1 Modeling Results Cumulative storage 72.9 MMBW



Pi	2419.2 psi
T	98 F
Water TDS	160000 ppm
Bell Top	4652.9 ft
Bell Thickness	987.2 ft
Bell Porosity	17.5%
Cherry Thickness	1645.4 ft
Cherry Porosity	15.0%
THP	931 psi
Boundary Radius	8979 ft
Cumulative Storage	72.9 MMBW

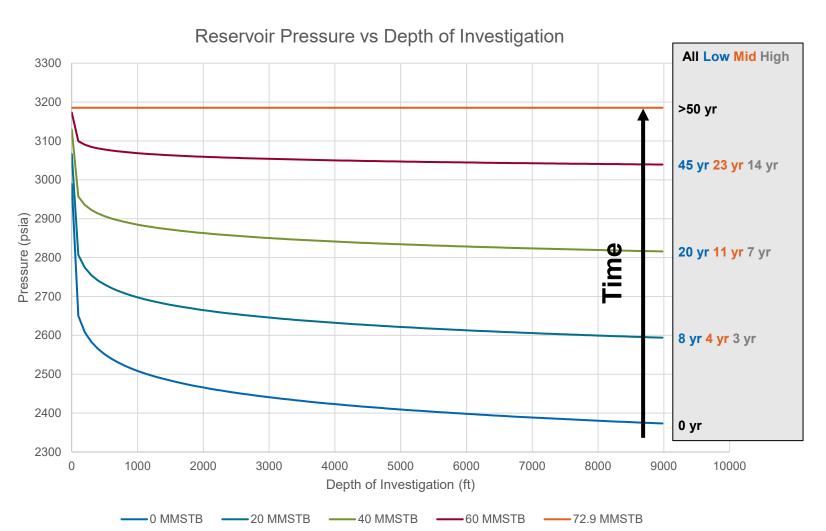


- Homogenous flow model created to simulate injection rates through time
- Inputs were taken from geological log correlations and general RTA statistics
- Injection profiles shown are unconstrained on rate but subject to maximum permitted surface pressure (0.2 psi/ft)

OCD Examiner Hearing Nov. 8-9, 2023 No. 23686, 23687 Received by OCD: 11/2/2023 4:27:49 PM

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Papa Squirrel SWD 1 Modeling Results Reservoir Pressure Increases Slowly Over Time



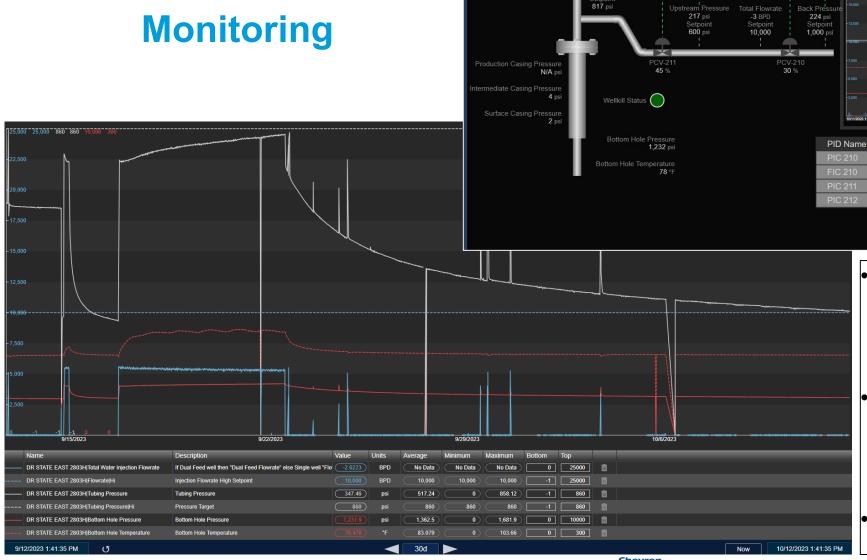
- Reservoir pressure plot shows pressure at different depths of investigation at different times in the well's life (based on P50 permeability of 13 md)
 - Reflects the BHP which would be recorded in a theoretical observation well placed at a given distance away from the injector
- Reservoir pressure increase is relatively slow, with a 450-psi increase taking more than a decade

Surface Systems

SWD Control Logic Active Monitoring to Ensure Safe Operations

- High-pressure flowlines carry fluids from facility H-pumps to wells for disposal. Flowrate and pressure are controlled with 1-2 chokes by a local PLC at the wellsite.
- Well flowrate is constantly monitored by an on-site flowmeter.
- Chokes ensure tubing pressure remains at target ~25 psig below permit.
 - Operator callout issued if pressure increases to or above permit for 30 second. Automatic well shut-in occurs if pressure is not lowered within 30 min.
 - Automatic well shut-in will also occur if pressure is greater than 110% of permit pressure for more than 30 seconds.
- Wellhead controls target minimum required backpressure on the high-pressure water transfer line. The transfer line is allowed to pressure up if the additional pressure is required to reach tubing pressure setpoint. If line pressure increases above normal operating pressures, protections on the facility side will shut down H-pumps.
- The controls have been designed to work for standalone shallow disposal wells or for a network of wells.
 Networked wells may be all shallow or a combination of shallow and deep.

SCADA Continuous Data Monitoring



 Data collected by SCADA: flowrate, injection pressure, bottom hole pressure, control valve pressures, casing pressures, temperatures, etc.

Permit Data

Volume

20,000 BPD

Pressure

- Chevron has integrated operations control center where data from all facilities and wells are actively monitored
- Examples from TX SWD

SWD Well Rate and Pressure versus Time

PID Output

PID Sp

OCD Examiner Hearing Nov. 8-9, 2023

DR STATE EAST 2803H

EC Disposal Well Info

Solids Handling

SWD facilities fitted with filtration system to improve injected water quality

- Flush tank (API 12F 750 BBL) collects solids from filter
 - Water and solids from the filter flush enter the tank
 - Solids settle in the cone bottom
 - High level switch for the solids alerts operations when tank cleaning is needed
 - Truck connection is provided for solids removal to solid waste facility (similar to drilling tailings and recovered frac sand)
 - Water from flush tank is routed back to charge pumps

Engineering Key Takeaways

- SWD wells proposed by Chevron are in the best interests of conservation, prevention of waste, and will not impair correlative rights.
- The nearest DMG producers/field to our proposed injectors are depleted.
- The Lamar Limestone is a very competent seal above the DMG; downhole pressures associated with SWD operations do not come close to the fracture closure, leak-off, or breakdown pressures of the Lamar.
- DMG SWD well analogs tend to influence the reservoir out to ~1.7 miles, reservoir pressure within that radius expected to increase slowly.
 - Severitas peak rates estimated between 3.7-12.4 MBWPD and 29 MMBW total storage capacity.
 - Papa Squirrel peak rates estimated between 8.7-20.1 MBWPD and 73 MMBW total storage capacity.
- Chevron standard operations feature active monitoring and control logic to ensure safe operations, with real time continuous data collection: flowrate, tubing pressure, bhp, temperature, etc.
- SWD facilities fitted with filtration system to improve injected water quality; solids removed to solid waste facilities.

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Concluding Remarks

Concluding Remarks

- Industry needs produced water (PW) optionality to support continued development in New Mexico
- Deep saltwater disposal (SWD) is contributing to the increase of seismicity in areas of the Permian Basin
- Evidence indicates DMG disposal can be done within the Avalon exclusion zone in a manner that protects correlative right and prevents waste.
- DMG disposal can also be done in a manner that is protective of underground sources of drinking water.
- Goals of Chevron's DMG SWD pilot program:
 - Evaluate injection conformance of the Delaware Mountain Group
 - Monitor injected fluids and identify mitigations to keep water in zone
 - Provide open and clear dissemination of data to key stakeholders

Tab E: Witness Resumes

George T. (Tom) Merrifield, Jr., PG

Chevron USA, 6301 Deauville Blvd, Midland, TX 79706 Cell: (661) 448-7489; Email: tommerrifield@chevron.com

EDUCATION:

Texas A&M University, College Station, TX

May 1976

BS in Geology

Southern Illinois University, Carbondale, IL

Aug. 1979

MS in Geology:

Texas A&M University, College Station, TX

PhD candidate in Geology

No degree

LICENSES:

- Registered Geologist, Texas, #10838, 2010 (active)
- Professional Geologist, California, #9274, 2015 (active)
- Registered Geologist, Arizona, #33752, 1999 (inactive)

PROFESSIONAL EXPERIENCE BRIEF:

Chevron, Midcontinent Business Unit, Midland, TX

Mar 22-present

SWD DRP Geologist: Permitting, planning and executing all SWD wells in Permian Basin.

Chevron, San Joaquin Business Unit, Bakersfield, CA

Jul 20-Mar 22

Senior Environmental & Permitting Specialist, Hydrogeology: Addressed UIC regulatory issues both water and steam.
 Chevron, San Joaquin Business Unit, Bakersfield, CA
 Jun 13-Jul 20

Asset Development Geologist: Lost Hills Oil Field and addressed CA regulations on frac and UIC permitting.
 Chevron, San Joaquin Business Unit, Bakersfield, CA
 Oct 12-Jun 13

Execution Geologist: Lost Hills/Coalinga Oil Fields water- and steam-flood, 3-yr, 2-rig. 70 well oversight.

sight.

Balmorhea Geoscience Services, Gilbert, AZ

Aug. 08-Jun 13

Owner, Principal Geologist: water well design/installation/testing; permitting; groundwater flow modeling.

dolina

Fluid Solutions, Phoenix, AZ

Dec. 99-Aug 08

Member, Principal Geologist: water well design/install; G&G interpretations; groundwater flow modeling; permitting.
 Arizona Department of Environmental Quality, Phoenix, AZ
 May 97-Dec. 99

Hydrologist III, Aquifer Protection Permitting: G&G review, monitor well designs and state regulations.

Delta Environmental, Phoenix, AZ

Feb 97-May 97

Environmental Geophysicist: seismic reflection, refraction, gravity, magnetics, and resistivity

Ocean Drilling Program, College Station, TX

Aug 90-Jun 96

Research Assistant: G&G well and core database management; technical writing

Texas A&M University, College Station, TX

Aug 86-Aug 90

Graduate Student: rock fracture, fault, fluid-flow mechanics, surface and subsurface geology

Exxon Company USA, Midland, TX

May 80-Aug 86

Senior Geologist: West Texas Exploration, Operations Geology, Frontier, well log/geophysics interpretations

Atlantic Richfield Co, Midland, TX and Denver, CO

Summer 76, 77, and 78

Summer internships geologist oil and gas exploration

SKILL EXPERIENCE (some years overlapping):

- 25 years: water regulations of oil and gas, environmental, and water resource.
- 10 years: Underground Injection Control (UIC) permitting in CA, NM, and TX.
- 15 years: oil and gas exploration and asset development with 8 years in Permian Basin.
- 19 years: hydrogeology.
- Academic background in rock mechanics and structural geology.

Jason R. Parizek

Sr. Earth Scientist, Chevron

+1 (432) 208-3521 JRParizek@chevron.com Midland, Texas

RELAVENT EXPERIENCE

2023 - Present	Sr. Earth Scientist, New Mexico Asset Development Chevron, Midland, Tx
	Plan and oversee execution of horizontal well programs. Plan, oversee, and conduct technical studies and technology assessments. Mentor and provide technical assurance for early career colleagues.
2021 - 2023	Regional Earth Scientist, Permian Basin Chevron, Midland, Tx
	Planned horizontal drilling programs on a cross-functional team. Coordinated geosteering operations and teams, selected and called casing points, planned and oversaw execution of data collection programs.
2018 - 2021	Sr. Operations Earth Scientist, Delaware Basin Operations Chevron, Midland, Tx
	Assessed and planned refrac program, up hole recompletions, fracture driven interaction mitigation pilots, and production diagnostics and optimization programs with production engineers.
2016 - 2018	Operations Earth Scientist, San Joaquin Valley, California Chevron, McKittrick, Ca
	Planned and executed vertical and horizontal well sidetrack drilling programs. Managed the reservoir management and data collection program for water and sour gas disposal operations.
2013 - 2016	Development Geologist, San Joaquin Valley, California Chevron, Bakersfield, Ca
	Planned and executed vertical and horizontal well drilling programs in heavy oil steam-flooded reservoirs. Executed at wellsite, drilling and wireline logging operations as G&G representative.
EDUCATION	
December 2013	MSc. Earth Sciences

San Diego State University, San Diego, California

San Diego State University, San Diego, California

BSc. Earth Sciences

May 2012

Resume of Bryce Taylor

Senior PE Advisor MCBU AD Water Strategy Team MCBU – Permian Basin Development

Overall Experience: 11.5 years in Chevron/industry

Work Experience

Water Strategy Petroleum Engineering Advisor for Permian – 2 years Reservoir Engineer for Unconventionals in Midland Basin in Permian – 4.5 years Production Engineer for Heavy Oil in California – 2.5 years Reservoir Engineer for Heavy Oil assets in California – 2.5 years

Education

Master's Degree Petroleum Engineering University of Southern California 2020 Bachelor's Degree Mechanical Engineering Brigham Young University 2012

Resume of Cody Comiskey

Current Title: Subsurface Advisor: Chevron MCBU

Education

Texas Tech University, B.S. Geophysics *cum laude*, 2011 Baylor University, M.S. Geophysics, Earthquake Seismology, 2013

Experience

Anadarko Petroleum Corp 2013-November 2019

- Onshore development, Marcellus business unit (2013-2016)
- Global Technical Center, West Africa exploration and development (2016-2017)
- Analytics and modeling onshore development (2017-2018)
- Onshore analytics subsurface supervisor (2019)

Chevron November 2019-current

- MCBU subsurface advisor focused on seismicity and produced water management

Tab F: Hearing Notices

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

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 23686

SELF-AFFIRMED DECLARATION OF DEANA M. BENNETT

Deana M. Bennett, attorney in fact and authorized representative of Chevron USA, Inc.,

the Applicant herein, declares as follows:

1) The above-referenced Application was provided under notice letter, dated July 13,

2023, and attached hereto, as Exhibit A.

2) Exhibit B is the mailing list, which show the notice letters were delivered to the

USPS for mailing on July 13, 2023.

3) Exhibit C is the certified mailing tracking information, which is automatically

complied by CertifiedPro, the software Modrall uses to track the mailings. This spreadsheet

shows the names and addresses of the parties to whom notice was sent and the status of the

mailing.

4) Exhibit D is the Affidavit of Publication from the Hobbs News-Sun, confirming

that notice of the August 3, 2023 hearing was published on July 16, 2023.

5) I attest under penalty of perjury under the laws of the State of New Mexico that

the information provided herein is correct and complete to the best of my knowledge and belief.

Dated: November 1, 2023

Dena M. Bennett

Deana M. Bennett



July 13, 2023

Deana M. Bennett 505.848.1834 dmb@modrall.com

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

Re: APPLICATION OF CHEVRON U.S.A. INC. TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 23686

TO: AFFECTED PARTIES

This letter is to advise you that Chevron U.S.A. Inc. ("Chevron") has filed the enclosed application.

In Case No. 23686, Chevron seeks an order approving the Papa Squirrel State SWD #1 well at a surface location 1,928' from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 4625 feet to 8939 feet. The tubing packer will be set at 4525 feet, and production casing and cement will be set at 8500 feet. The maximum anticipated injection rate will be 20,000 BWPD and maximum surface injection pressure will be 925 psi. Said area is located approximately 26 miles west of Jal, New Mexico.

The hearing will be conducted remotely on August 3, 2023 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: https://www.emnrd.nm.gov/ocd/hearing-info/. This hearing is subject to continuance by the Division to a subsequent docket date.

As a party who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

Modrall Sperling Roehl Harris & Sisk P.A.

500 Fourth Street NW Suite 1000 Albuquerque, New Mexico 87102

PO Box 2168 Albuquerque, New Mexico 87103-2168

Tel: 505.848.1800 www.modrall.com

EXHIBIT A

Page 2

You are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Sincerely,

Deana M. Bennett

Attorney for Applicant

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

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 23686

APPLICATION

Chevron USA Inc. ("Chevron"), OGRID No. 4323, through its undersigned attorneys, hereby applies 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, Chevron states as follows:

- (1) Chevron proposes to drill the Papa Squirrel State SWD #1 well at a surface location 1,928' from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.
- (2) Chevron seeks authority to inject salt water into the Bell Canyon/Cherry Canyon/Brushy Canyon from 4,625' to 8,939'.
- (3) The tubing packer will be set at 4,525' feet, and production casing and cement will be set at 8,500'.
- (4) Chevron requests that the Division approve a maximum daily injection rate for the well of 20,000 BWPD.
 - (5) Chevron requests that a maximum pressure of 925 psi be approved for the well.
 - (6) A proposed C-108 for the subject well is attached hereto in Attachment A.

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

WHEREFORE, Chevron requests that this application be set for hearing before an Examiner of the Oil Conservation Division on August 3, 2023; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

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

eona M. Bennett

Deana Bennett

Earl E. DeBrine, JR. Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 Attorneys for Applicant

CASE NO. 23686: Application of Chevron USA Inc. for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving the Papa Squirrel State SWD #1 well at a surface location 1,928' from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 4625 feet to 8939 feet. The tubing packer will be set at 4525 feet, and production casing and cement will be set at 8500 feet. The maximum anticipated injection rate will be 20,000 BWPD and maximum surface injection pressure will be 925 psi. Said area is located approximately 26 miles west of Jal, New Mexico.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

l.	PURPOSE: Application qua		ondary Recovery istrative approval?	Х	Pressure Main Yes	tenance No	х D	isposal	Storage
11.	OPERATOR:	Chevron USA	Inc.						
	ADDRESS:	6301 Deauville	Blvd, Midland, TX 7970	6	- Alexander - Alexander Alexander Alexander	_			
	CONTACT PA	RTY: Tom	Merrifield				P	HONE:	661-448-7489
III.			ata required on the revets may be attached if i			each well prop	oosed for	injection	
IV.	Is this an expan If yes, give the		ing project? umber authorizing the	Yes	X	No			
V.	Attach a map the drawn around e	nat identifies all ach proposed in	wells and leases within jection well. This circ	n two mil cle identi	es of any propos fies the well's ar	sed injection we ea of review.	ell with a	one-half	mile radius circle 1
VI.	data shall includ	de a description	ll wells of public recor of each well's type, co all plugging detail. A	nstruction	n, date drilled, lo	w which penet ocation, depth,	rate the p record of	roposed i completi	njection zone. Such on, and a schematic
VII.	Attach data on t	the proposed op	eration, including: A	ГТАСНІ	MENT 3				
	 Whether the Proposed av Sources and produced wa If injection i chemical and wells, etc.). 	e system is open rerage and maxi an appropriate ater; and, is for disposal p alysis of the dis	mum injection pressur analysis of injection fl urposes into a zone no posal zone formation v	e; uid and c t product vater (ma	ompatibility wit ive of oil or gas y be measured o	th the receiving at or within or inferred fron	ne mile of n existing	f the prop literature	osed well, attach a e, studies, nearby
VIII.	the geologic nan dissolved solids	ne, and depth to concentrations	a on the injection zone bottom of all undergr of 10,000 mg/l or less njection interval. AT	ound sou) overlyi	rces of drinking ng the proposed	water (aquife	rs contain	ing water	s with total
IX.	Describe the pro	posed stimulati	on program, if any. A	ТТАСН	MENT 5				
XI.	ACHMENT 6 Attach a chemica injection or dispo	al analysis of fre osal well showir	test data on the well. (esh water from two or a g location of wells and est make an affirmative	more fres d dates sa	h water wells (i mples were take	f available and n. ATTACHI	producin MENT 7	g) within	one mile of any
	and find no evide drinking water.	ence of open fau	ilts or any other hydro	logic con	nection between	the disposal z	one and a	any under	engineering data
XIII.	Applicants must	complete the "P	roof of Notice" section	n on the r	everse side of th	is form. ATT	ACHME	NT 9	
XIV.	Certification: 1 he	ereby certify tha	t the information subm	itted wit	this application	is true and cor	rect to the	e best of n	ny knowledge and
	belief.								
						DAT	TE:		
XV.	E-MAIL ADDRI If the information Please show the d	required under	Sections VI, VIII, X,	and XI a					
DISTR	IBUTION: Origin	nal and one c	A	to	the appropriate	District Office			Page 1

Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Page 2

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 Pax: (575) 748-9720 District III 1000 Rie Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 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

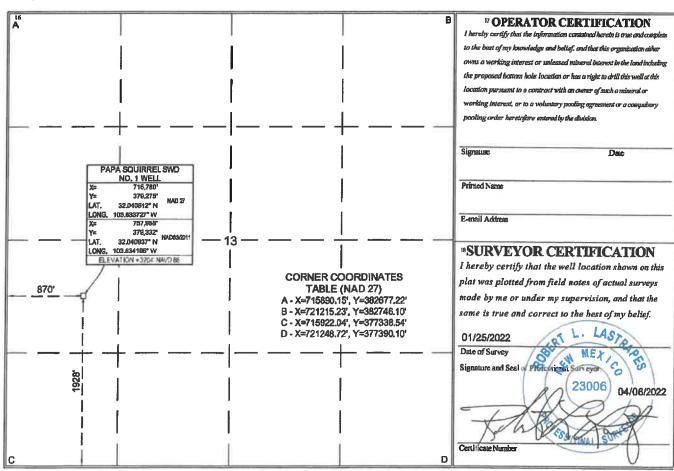
API Number	² Pool Code	³ Pool Name			
	96100	SWD; DELAWA	AWARE		
⁴ Property Code	⁵ Pr	⁵ Property Name			
	PAPA S	QUIRREL SWD	1		
7OGRID No.	8 OI	perator Name	⁹ Elevation		
4323	CHEVRON U.S.A. INC.				
	¹⁰ Sur	face Location			

" Dettern Hele I agetian If Different From Cyafege									
L	13	26 SOUTH	32 EAST, N.M.P.M.		1928'	SOUTH	870'	WEST	LEA
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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
L	13	26 SOUTH	32 EAST, N.M.P.M.		1928'	SOUTH	870¹	WEST	LEA
12 Dedicated A	cres 13 Join	nt or Infill	14 Consolidation Code 15	Order No.				•	
		- 1							

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.

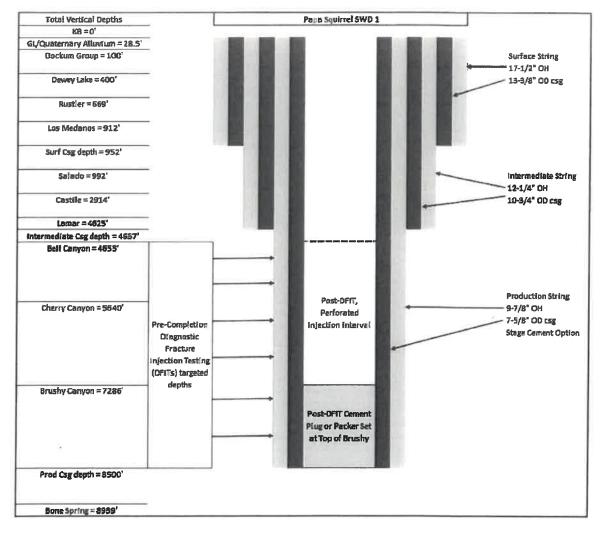


Page 3

	And the second s	
, L		26 South, 32 East, N.M.P.M
IT LETTER	SECTION	TOWNSHIP RANGE
		CONSTRUCTION DATA
Hole Size:	17-1/2"	Casing Size: 13-3/8"
Cemented with:	380 s	t. or 497
Top of Cement:	Surface	Method Determined: Volumetric
	Interme	diate Casin
Hole Size:	12-1/4"	Casing Size: 10-3/4"
Cemented with:	320 s	, or 758
Top of Cement:	Surface	Method Determined: Volumetric
	Production Casing	
Hole Size:	9-7/8"	Casing Size: 7-5/8"
Cemented with:	650 ss	1529 _{tt} 1
Top of Cement	Surface	Method Determined: Volumetric
-	8500'	
	Injecti	on Interval
	4625'	feet to 8939'
	Cemented with: Top of Cement: Hole Size: Cemented with: Top of Cement: Hole Size: Cemented with: Top of Cement. Total Depth:	Hole Size: 17-1/2" Cemented with: 380 st Surface Top of Cement: 12-1/4" Cemented with: 320 st Surface Top of Cement: 9-7/8" Cemented with: 50 st Surface Product Size: 9-7/8" Cemented with: 50 st Surface Surface Product Surface Sur

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Brushy, but are contained by the Bone Spring Limestone.



Page 5

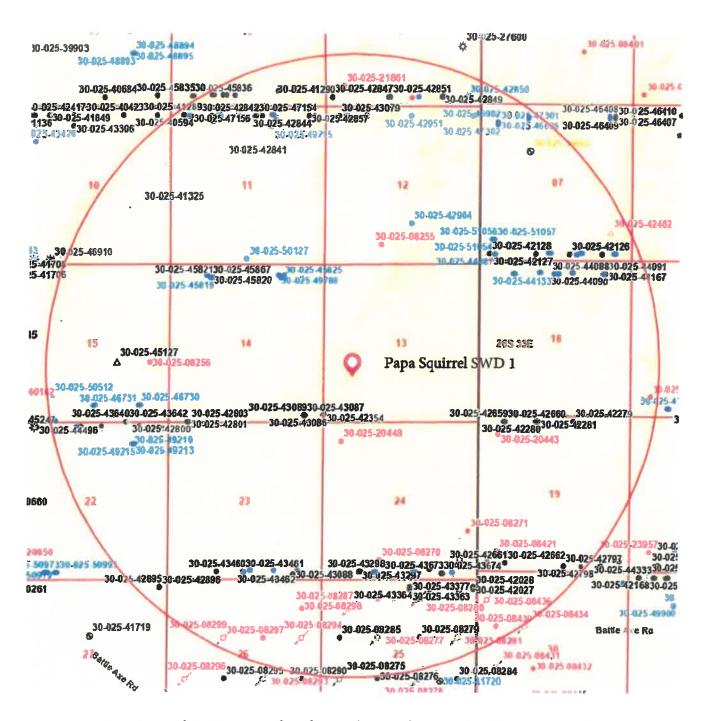
Side 2

	INJECTION	WELL DATA SHEET
oing Size:	5-1/2"	Lining Material:
oe of Packer:	Hydraulically se	t packer
ker Setting Dep	oth: 4525'	10 ************************************
er Type of Tub	ing/Casing Seal (if applica	able):
	A	dditional Data
ls this a new v	vell drilled for injection?	X
If no, for what	purpose was the well orig	
	D.	
Name of the la	njection Formation: Be	ll Canyon, Cherry Canyon, and Brushy Canyo
Name of Field	or Pool (if applicable):	SWD; Delaware Mountain Group
Has the well e	ver been perforated in any	other zone(s)? List all such perforated
intervals and g No, th	ive plugging detail, i.e. sa is is a proposed n	cks of cement or plug(s) used.
Give the name	and depths of any oil or g	as zones underlying or overlying the proposed
injection zone	in this area: Depths are within	
Atoka (14,418	-14,545 ft MD), Avalon (8,	819-9,749 ft TVD), Bone Spring (8,706-12,028 ft TVD),
Devonian (17,4	68-17,567 ft MD), Morrow (1	15,999-16,050 ft MD), Pennsylvanian (14,370-14,826 ft MD)
Silurian (1	7,464-17,512 ft MC), and Wolfcamp (9,065-13,145 ft TVD).
geted for inject		njection interval. The Brushy is not intentionally d analysis may indicate that fluids migrate into the g Limestone.

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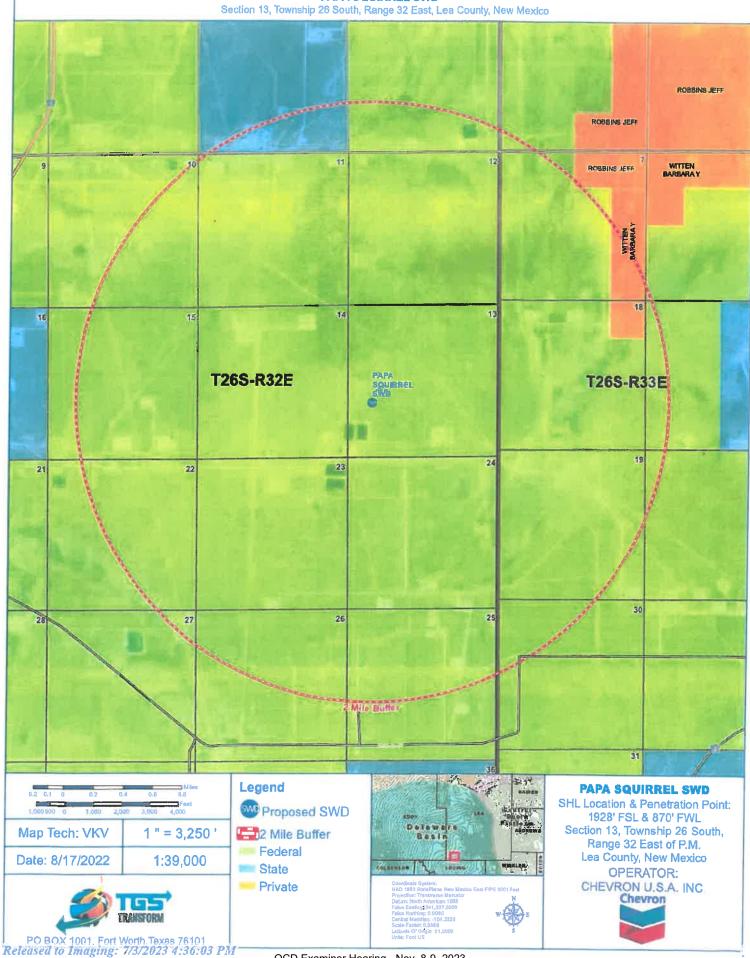
ATTACHMENT 1 Item V

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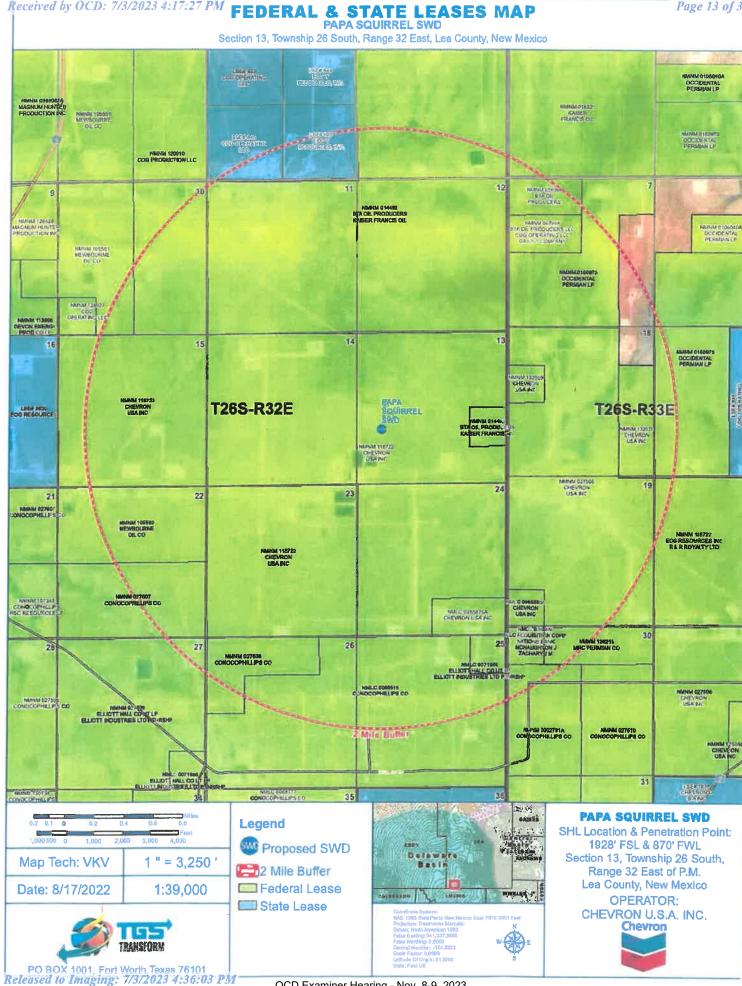
Papa Squirrel SWD 1: 2.0 mile radius circle map showing all wells within the radius.

SURFACE OWNERSHIP MAP PAPA SQUIRREL SWD

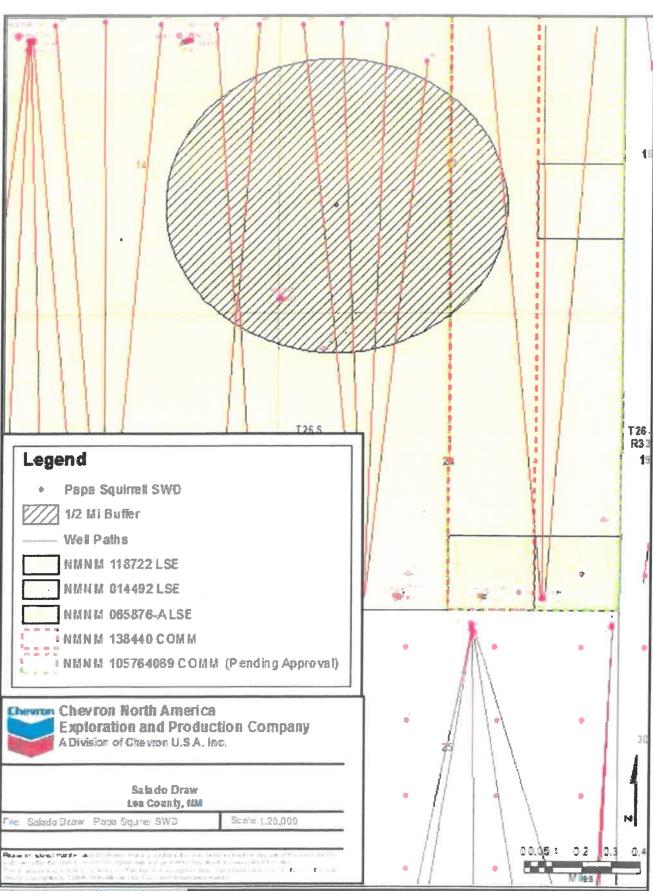


OCD Examiner Hearing - Nov. 8-9, 2023

Received by OCD: 7/3/2023 4:17:27 PM



Federal and State Lease Map (1/2 Mi Radius)



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ATTACHMENT 2 Item VI

API	Well Name	Type	Well Status OGRID	OGRID Name	Section Township Range Latitude 83 Longitude 83 Depth	p Range	Latitude 83	Longitude 83	eg G		stociated Pools	Miles f	Miles from
30-025-43086	30-025-43086 SD WE 14 FEDERAL P7 #003H Oil	ট	Active	CHEVRON USA INC	14 265	32E	32,0362	-103.6393	816	9,074	(97838] JENNINGS, UPPER 1 9,074 BONE SPRING SHALE	0	Ö
30-025-43087	30-025-43087 SD WE 14 FEDERAL P7 #004H Gil	ঠ	Active	CHEVRON USA INC	14 265	32E	32.0362	-103.6391	13,816	9,074	(97838] JENNINGS, UPPER 9,074 BONE SPRING SHALE	1	0.4
30-025-43089	30-025-43089 SD WE 23 FEDERAL P7 #00AH OII	ē	Active	CHEVRON USA INC	14 265	32E	32,0362	-103.639		030	(97838) JENNINGS, UPPER 9,030 BONE SPRING SHALE		-
30-025-42354	30-025-42354 SALADO DRAW SWD 13 #001 SWD	SWD	۹,	NGL WATER SOLUTIONS PERMIAN, LLC	13 265	32E	32.0364	-103.637	18,675	675	[97869] SWD, DEVONIAN- SILURIAN		C
30-025-20448	30-D25-20448 PRE-ONGARD WELL #002	ē	Plugged (site released) PRE-ONG	PRE-CNGARD WELL OPERATOR	24 265	32E	32.0338	Y	0			8/20/1963	

Data tabulation of wells in Area of Review of the Papa Squirrel SWD 1.

ob. 1	-881 a 951)		AUG 21 1963 (SUBMIT IN TRIPLICATE)	Land Office
0		A	J. L. GORDON UNITED STATES .	Lease No. 1/C - 065876
****			GEOLOGICAL SURVEY	
	1	ï		

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT.
MOTICE OF INTENTION TO PULL OR ALIER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

PETERAL LEVEL PETER D	DR"	awet	209	-76-50-66-66	, 1963
Well No 2 is located	660 ft. fr	rom $\left\{egin{array}{c} \mathbf{N} \\ \mathbf{S} \end{array}\right\}$ line an	d 660 ft. from	W line of sec	. 2h
IW/4 Section 24	26-8	32-E	MEN		
(% Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	Maid og	
(Field)	(Cou	nty or Subdivision)	(Stat	e or Territory)	

The elevation of the derrick floor above sea level is 3162.8 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, comenting points, and all other important proposed work)

Well was completed dry at a total depth of 4645' on 8-19-63.

It is proposed to run drill pipe to 4645'. Spot cament plug from 4645 to 4545'; and to 800'; cament to 750'; and to 425'; cament to 375'; and to 50'; and cament to surface leaving 354' of 8-5/8" casing in hole. Set marker and abandon.

Location will be cleaned up and pits filled.

Verbal approval received from Mr. J. L. Oardon, by phone 8-20-61.

I understand the	t this plan of work must receive approval in writing by t	he Geological Survey before operations may be commenced.
Company	Gulf Oil Corporation	
Address	P. O. Bost 980	ORIGINAL SIGNAL :
	Kernit, Tems	By
		Title Area Engineer

GPO 914974

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Budget Bu	resu No.	42-R358.4.
Form Appr	oved.	
and Office		

Ormi 9-881a (Feb. 1951)	
6	APPROVE UNITED STATES
	3 DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY
	E. G. HUBBLE ACTING DISTRICT ENGINEER ATT 3 1 028 00.

Land Office
Lesse No. 12-065876-A
Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.	SUBSEQUENT REPORT OF WATER SHUT-OFF
	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALCER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

	*****	Jennery 20	1904
Federal Littlefield "TR			•
	1 ~ 1	ne and $\frac{660}{W}$ ft. from $\frac{28}{W}$ line of	sec. 24
(4 Sec. and Sec. No.)	26-3 32-12 (Twp.) (Range)	MACVE	
(34 Sec. and Sec. No.)	(Twp.) (Range)	(Meridian)	
Wildcat	I:08	Hew Hexteo	
(F.eld)	(Connty or Subdivision	(State or Territory)	

The elevation of the derrick floor above sea level is 3180 s ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, centering points, and all other important proposed work)

Well was completed dry at 4045' on 8-19-63.

Rem drill pipe open ended to 4645' and spotted 35 sacks cement 4645' to 4545'; mud 4545' to 300'; 20 sacks cement to 750'; and to 425'; 20 sacks cement to 375'; and to 50'; 20 sacks cement to surface lesving 384' of 8 5/8" casing in bolo. Set marker & abandoned.

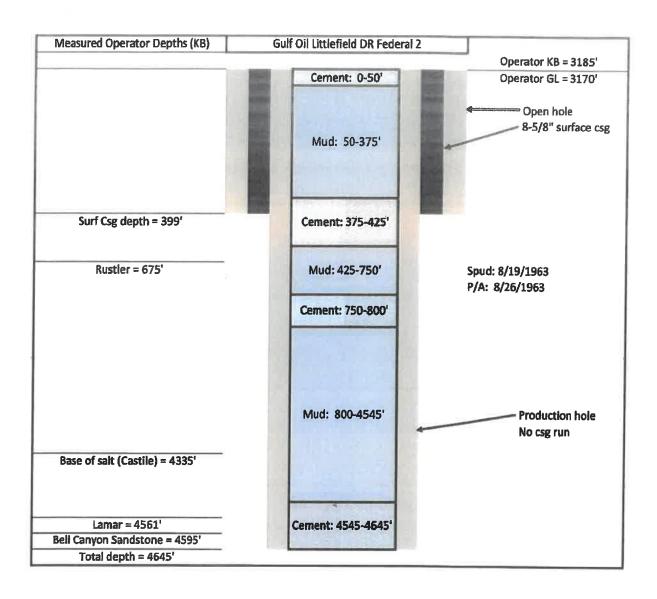
Location is cleaned up and ready for inspection.

I understand that this plan of work must receive approval in writing by the	Geological Survey before operations may be commenced.
Company Gulf Gil Corporation	
Address F. O. Box 980	Jalums: Signed
Kernit, Toms	By W. W. WHILAKES
**************************************	Title Fren Engineer

GPO 914974

	Commonstian				
NO. 2 LSE.	l Corporation		MAP		
	Littlefield "	DR" Federal			
SEC 24 T.	26S R 32	E SUR.		CO-ORD.	
Loc. 660' fr	N & W Lines	of Sec.			
MI.	FROM P&A		CLASS.	EL	
spub. 8-13-63	€емр. 8-20-	63 FORMATION	DATUM	FORMATION	DATUN
IRI.		LOG.			
		Rust 675			
CSG. & SX.		B/Salt 4335			
8 5/8 ¹¹ 399	250	Del 1s 4561			
		Del sd 4595			
TBG. DEPTH	SIZE				
LOGS EL GR R	A IND HC A				
		TD 4645		PB	
PROD INT.	(DAILY RATE)	BEAW GH	GOR GT	/ C. P. T. P.	HRS TES
	PT.IV	GGED & ABANDON	JED		
	2.3040	Lat. Phillips and the state of the late of	ARREST.		

F.R. 8-15-63, Delaware PD 4950'-Johnn Drlg. Co. 8-19-63 Drlg. 4435'. Oper's Elev. 3185' KB. TD 4645', PLUGGED & ABANDONED. No tests or cores.



Schematic of plugging detail of Gulf Littlefield DR Federal 2 (API 30-025-20445).

ATTACHMENT 3 Item VII

ltem	Well 5.5" tubing	Papa Squirrel SWD #1
1)	Permit Max Rate (bwpd)	20,000
1)	Permit Avg Daily Rate (bwpd)	15,000
2)	System	closed
3)	Permit Max Pressure (psig)	925
3)	Permit Avg Pressure (psig)	750

Item	Water Requirements			
4)	Injected fluid is produced water.	Source WQ of injectate and receiving formation is not required per application.		
	Disposal Zone Water Quality	for non-productive in 1 mile		
5)	SD24 13 FED P416 17H (API 3002547303)			
	Results on next page			

Sample Name / Well		144	SD24 13 FED P416 17H
Date Received			Tuesday June 21, 2022
Lab Sample #	25168		
	Northpark Geotechnical		
Address of Testing			Center 100 Northpark Blvd.,
Laboratory	Covington, LA 70433		
Date sampled			6/16/2022
Time Sampled			12:00
Area & Block			Salado Draw
Depth			6504.00ft MD
Reservoir			Cherry Canyon
Analyte	Method	Symbol	mg/L
Chloride	IC	Cl-	159942
Bromide	IC	Br	1135.2
lodide	IC	F	35.68
Sulfate	IC	SO ₄ 2-	564.12
Nitrate	IC	NO ₃ -	10.63
Phosphate	IC	as PO ₄ 3-	BDL
Total Alkalinity	Titration	as HCO₃⁻	1127
Organic Acids	Titration	NVWA	ND
Weak Bases	Titration	as NH ₄ +	ND
Bicarbonate	Titration (calc.)	as HCO ₃ -	NA
Acetate	IC	CH₃COO-	BDL
Propionate	IC	(C ₂ H ₅)COO ⁻	BDL
Formate	IC	HCOO-	BDL
Butyrate	IC	(C ₃ H ₇)COO-	BDL
Sodium	ICP-AES	Na	64989
Potassium	ICP-AES	K	1808.07
Calcium	ICP-AES	Ca	33684.88
Magnesium	ICP-AES	Mg	2305.32
Strontium	ICP-AES	Sr	1361.01
Barium	ICP-AES	Ba	<0.1
Iron	ICP-AES	Fe	<0.05
Manganese	ICP-AES	Mn	<0.05
Lithium	ICP-AES	Li	15.32
Aluminum	ICP-AES	Al	0.72
Silicon	ICP-AES	Si	1.60
Boron	ICP-AES	В	24.19
Phosphorus	ICP-AES	P	0.39

Charge Balance Error	calculated	%	2.36
Resistivity @ 25°C	measured	ohm-m	0.044
Conductivity @ 25°C	measured	μmhos/cm	226610
Density (60°F, 1 bar)	Anton Parr meter	g/cm³	1.190
TDS	calculated	mg/L	266525
Lab pH (25°C)	potentiometric	(-log(H*))	8.77
Field pH	colorimetric	(-log(H⁺))	8.12
Properties	Method	Units	
Sulfur (total)	ICP-AES	S	449.50
Molybdenum	ICP-AES	Мо	<0.05
Copper	ICP-AES	Cu	<0.1
Chromium	ICP-AES	Cr	<0.05
Nickel	ICP-AES	Ni	<0.1
Lead	ICP-AES	Pb	<0.25
Zinc	ICP-AES	Zn	2.44

Abbreviations:

IC: Ion Chromatography	
BDL: Below Detection Limit	
< * : Below Reporting Limit (*)	
NT: Not Tested	
ND: Not Detected	
NA: Not Available / Not Applicable	

ATTACHMENT 4 Item VIII

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Formation/Geologic Feature Tops & Datum	Lithology	TVD (from Datum)	Z (SSTVD)	
KB (Kelly Bushing)	Datum	0.0	3,232.5	
GL (ground surface)	Ground Surface	28.5	3,204.0	
01 - Dockum Group	Sandstone	100.0	3,132.5	
02 - Dewey Lake	Sandstone	400.0	2,832.5	
03 - Rustler	Carbonates	669.0	2,563.5	
04 - Los Medanos	Siltstone	912.0		
05 - Saldo	Halite	992.2	2,240.3	
06 - Castile	Anhydrite	2914.4	318.1	
07 - Lamar	Carbonates	4625.3	-1,392.8	
08 - Bell Canyon	Sandstone	4652.9	-1,420.4	
09 - Cherry Canyon	Sandstone	5640.1	-2,407.6	
10 - Brushy Canyon	Sandstone	7285.5	-4,053.0	
11 - Bone Spring Limestone	Carbonate	8939.0	-5,706.5	

Geologic prognosis tops of all formations to be encountered in the Papa Squirrel SWD 1.

ATTACHMENT 5 Item IX

Proposed acid stimulation as part of the completion for the Papa Squirrel SWD 1.

- 1. MI/RU Petroplex Acid and Gladiator N2 Unit
- 2. Perform pressure pumping checklist and record in wellview.
- 3. Rig up Petroplex acid lines and tie in to 4-1/16" wing valve on tree. Test all lines against wing valve to 2,100 psi for 5 min
 - Install tee in Petroplex lines to allow N2 line to be rigged up. Test all N2 lines against wing valve to 2,100 psi for 5 min
- 4. Pump Acid job per Petroplex Pump Schedule diverting with N2 as required.
 - Max pressure for job will be 925 psi
 - Discuss with WOE for operational pressure limits during job.
 - Diversion will be treated with 1,250 scf/bbl of N2
- 5. Once acid is complete R/D Petroplex and Gladiator
- 6. Secure and shut in well.

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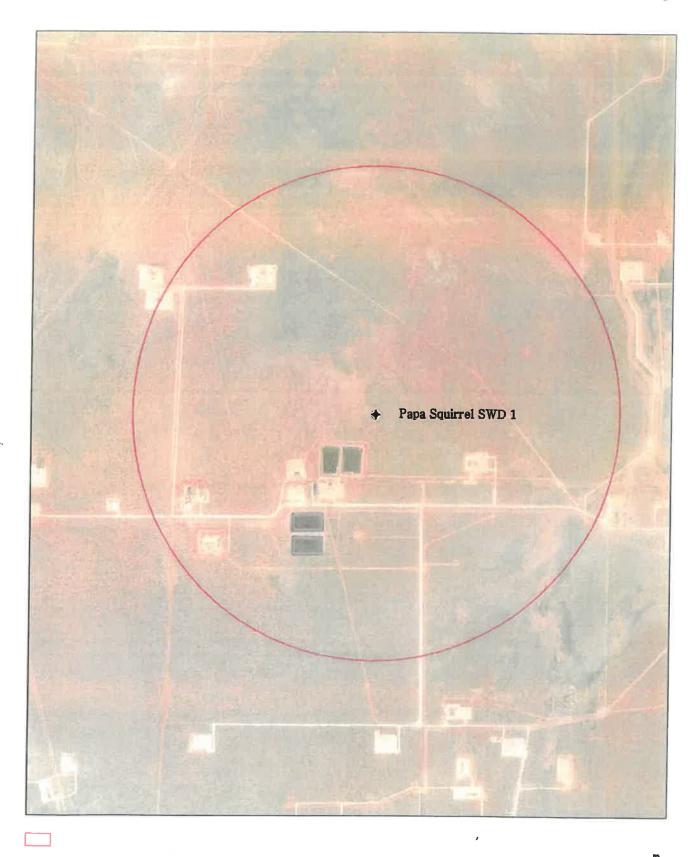
ATTACHMENT 6 Item X

No logs have been run on the Papa Squirrel SWD 1. This is a planned well.

The following open hole logs are planned to be run if hole conditions allow: gamma-ray, resistivity, neutron-density, sonic, and image logs.

Production casing will be installed from surface to near the base of the Brushy Canyon Formation. A total of approximately six Diagnostic Fracture Injection Tests (DFITs) are planned for the Bell Canyon, Cherry Canyon and Brushy Canyon Formations. After the DFITs are run, the Brushy Canyon will be plugged. The Cherry Canyon and Bell Canyon will be perforated to the base of the Lamar Limestone. A step rate test will be run on the Bell Canyon and Cherry Canyon Formation permitted injection interval.

ATTACHMENT 7 Item XI



No fresh water wells within one mile of the Papa Squirrel SWD 1.

ATTACHMENT 8 Item XII

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ATTACHMENT 8 Item XII



George T. (Tom) Merrifield, Jr., PG SWD DRP Geologist Chevron U.S.A. Inc. 6301 Deauville Blvd Midland, TX 79706 Phone +1 661-448-7489 tommerrifield@chevron.com

April 10, 2023

Dylan Fuge, Acting Director Oil Conservation Division 1220 South St. Francis Dr. Sante Fe, New Mexico 87505

Re: **Affirmation Statement C-108 Applications** Papa Squirrel SWD 1 and Severitas 2 State SWD 1

Dear Mr. Fuge:

With the increase of induced seismicity due to deep produced water injection, in 2021 Chevron decided to evaluate the potential for shallow injection in both Texas and New Mexico with exhaustive manpower and technical effort.

This effort led to the following technical evaluations of the DMG: (1) the location of high confident shallow faults in our active development areas using available seismic reflection data (2) assessment of seismic risk of any such shallow faults, (3) other geologic and reservoir engineering assessments addressing storage capabilities, potential impacts, and mitigation, and (4) collaboration and joint efforts with other operators.

Both the Papa Squirrel SWD 1 and Severitas 2 State SWD 1 are locations which we find no indication of open faults at the surface or in the subsurface and no indication of hydraulic connection between the proposed injection zone (Bell Canyon and Cherry Canyon) and an underground source of drinking water (USDW). Both locations have low potential for fault slip and induced seismicity.

Respectively yours,

G. T. Merrifield, Jr., PG

S.J. Munjie 9.

TX (#10838) and CA (#9274)

ATTACHMENT 9 Item XIII

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Notice to Surface Owners, Leasehold Operators, and Affected Persons within ½ Mi Radius

Surface Owner:

	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4			
United States of America (Bureau of Land Management)	Section 14: All			
	Section 15: All			
	Section 23: All			

Note: All part of T-26-S, R-33-E, NMPM, Lea County, NM

Leasehold Operator within ½ radius:

Operator	Well Name	API
	SD WE 24 FEDERAL P23 001H	30-025-43318
	SD WE 24 FEDERAL P23 002H	30-025-43296
	SD WE 24 FEDERAL P23 003H	30-025-43297
	SD WE 24 FEDERAL P23 004H	30-025-43298
	SD WE 14 FEDERAL P7 003H	30-025-43086
	SD WE 14 FEDERAL P7 004H	30-025-43087
	SD WE 23 FEDERAL P7 003H	30-025-43088
	SD WE 23 FEDERAL P7 004H	30-025-43089
Chevron U.S.A. inc.	SD WE 24 FEDERAL P24 005H	30-025-43674
	SD WE 24 FEDERAL P24 006H	30-025-43673
	SD WE 24 FEDERAL P24 007H	30-025-43675
	SD 24 13 FEDERAL P415 013H	30-025-49072
	SD 24 13 FEDERAL P415 014H	30-025-49073
	SD 24 13 FEDERAL P415 015H	30-025-49074
	SD 24 13 FEDERAL P416 017H	30-025-47303
	SD 24 13 FEDERAL P416 018H	30-025-47311
	SD 24 13 FEDERAL P416 019H	30-025-47312
NGL Water Solutions Permian LLC	SALADO DRAW SWD 13-1	30-025-42354

Working Interest Owners within ½ mile radius:

Lease	Lands Depths WIO		WI Owner (%)	WI (%)	
NMNM 118722	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4 Section 14: All Section 15: All Section 23: All Section 24: N/2, N/2 of S/2, S/2 of SW/4	All	Chevron U.S.A. Inc.	100.000000%	
SD WE P24 5H Comm Agreement (Pending Approval)	Section 13: W/2 of E/2 Section 24: W/2 of E/2	Bone Spring	Chevron U.S.A. Inc.	100.000000%	
SD 24 13 Fed P416	Section 13: E/2 Section 24: E/2		Chevron U.S.A. Inc.	99.453125%	
Comm Agreement		Wolfcamp	Royalty Clearinghouse 2003 LLC	0.078125%	
(Pending Approval)			Atlas OBO Energy LP	0.468750%	

Note: All part of T-26-S, R-33-E, NMPM, Lea County, NM

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Mineral Interest Owner within ½ mile radius:

Lease	Lands	Depths	Federal /State Mineral Interest (MI) Owner	Mi (%)
NMNM 118722	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4 Section 14: All Section 15: All Section 23: All Section 24: N/2, N/2 of S/2, S/2 of SW/4	All	United States of America	100.000000%
SD WE P24 5H Comm Agreement (Pending Approval)	Section 13: W/2 of E/2 Section 24: W/2 of E/2	Bone Spring	United States of America	100.000000%
SD 24 13 Fed P416 Comm Agreement (Pending Approval)	Section 13: E/2 Section 24: E/2	Wolfcamp	United States of America	100.000000%

Note: All part of T-26-S, R-33-E, NMPM, Lea County, NM

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

PS Form 3877

Type of Mailing: CERTIFIED MAIL 07/13/2023

Firm Mailing Book ID: 249130

n . c.

Line	USPS Article Number	Name, Street, City, State, Zip		Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0109 8675 77	United States of America Bureau of Land Management 301 Dinosaur Trail Santa Fe NM 87508		\$2.31	\$4.35	\$2.20	\$0.00	83420.0047 Papa Notice
2	9314 8699 0430 0109 8675 84	NGL Water Solutions Permian LLC 865 North Albion Street, Suite 400 Denver CO 80220		\$2.31	\$4.35	\$2.20	\$0.00	83420.0047 Papa Notice
3	9314 8699 0430 0109 8675 91	Royalty Clearinghouse 2003 LLC 201 W. 5th St. #1350 Austin TX 78701		\$2.31	\$4.35	\$2.20	\$0.00	83420.0047 Papa Notice
4	9314 8699 0430 0109 8676 07	Atlas OBO Energy LP 1900 Saint James Pl., St 800 Houston TX 77056		\$2.31	\$4.35	\$2.20	\$0.00	83420.0047 Papa Notice
5	9314 8699 0430 0109 8676 14	Mewbourne Oil Company Tim Harrington PO Box 7598 Tyler TX 75711		\$2.31	\$4.35	\$2.20	\$0.00	83420.0047 Papa Notice
			Totals:	\$11.55	\$21.75	\$11.00	\$0.00	
					Grand '	Total:	\$44.30	

List Number of Pieces Total Number of Pieces Postmaster: Dated:
Listed by Sender Received at Post Office Name of receiving employee

5



EXHIBIT B

Page 213 of 267

Transaction Report Details - CertifiedPro.net Firm Mail Book ID= 249130 Generated: 11/1/2023 8:11:31 AM **Mail Delivery Date USPS Article Number** Date Created Reference Number Name 1 Zip Postage Fees Firm MailBook ID Mailing Status **Service Options** Name 2 City State 9314869904300109867614 2023-07-13 8:58 AM 83420.0047 Papa Mewbourne Oil Company 2.31 6.55 249130 Delivered Return Receipt - Electronic, Certified Mail 2023-07-18 8:56 AM Tim Harrington Tyler TX 75711 9314869904300109867607 2023-07-13 8:58 AM 83420.0047 Papa Atlas OBO Energy LP Houston TX 77056 2.31 6.55 249130 Delivered Return Receipt - Electronic, Certified Mail 2023-07-17 12:14 PM 249130 9314869904300109867591 2023-07-13 8:58 AM 83420.0047 Papa Royalty Clearinghouse 2003 LLC Austin TX 78701 2.31 6.55 Lost Return Receipt - Electronic, Certified Mail 2023-07-13 8:58 AM 83420.0047 Papa NGL Water Solutions Permian LLC 80220 2.31 6.55 249130 2023-07-19 3:37 PM 9314869904300109867584 Denver CO Delivered Return Receipt - Electronic, Certified Mail 9314869904300109867577 2023-07-13 8:58 AM 83420.0047 Papa United States of America Bureau of Land M Santa Fe NM 87508 2.31 6.55 249130 Delivered Return Receipt - Electronic, Certified Mail 2023-07-17 1:11 PM

EXHIBIT C

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 July 16, 2023 and ending with the issue dated July 16, 2023.

Publisher

Sworn and subscribed to before me this 16th day of July 2023.

Business Manager

My commission expires January 29, 2027

(Seal)

STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

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

LEGAL NOTICE July 16, 2023

CASE NO. 23686: Notice to all affected parties, as well as helrs and devisees of: United States of America Bureau of Land Management; NGL Water Solutions Permian LLC; Royalty Clearinghouse 2003 LLC; Atlas OBO Energy LP of Application of Chevron USA Inc. 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 August 3, 2023 to consider this application. Information about accessing the electronic hearing is posted at "OCD NOTICES" at https://www.emnrd.nm.gov/ocd/hearing-info/. This hearing is subject to continuance by the Division to a subsequent docket date. Applicant seeks an order approving the Papa Squirrel State SWD #1 well at a surface location 1,928 from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 4625 feet to 8939 feet. The tubing packer will be set at 4525 feet, and production casing and cement will be set at 8500 feet. The maximum anticipated injection rate will be 20,000 BWPD and maximum surface injection pressure will be 925 psi. Said area is located approximately 26 miles west of Jal, New Mexico. #00280692

01104570

00280692

DOLORES SERNA MODRALL, SPERLING, ROEHL, HARRIS & P. O. BOX 2168 ALBUQUERQUE, NM 87103-2168

EXHIBIT D

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

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN EDDY COUNTY, NEW MEXICO.

CASE NO. 23687

SELF-AFFIRMED DECLARATION OF DEANA M. BENNETT

Deana M. Bennett, attorney in fact and authorized representative of Chevron USA, Inc.,

the Applicant herein, declares as follows:

1) The above-referenced Application was provided under notice letter, dated July 13,

2023, and attached hereto, as Exhibit A.

Exhibit B is the mailing list, which show the notice letters were delivered to the 2)

USPS for mailing on July 13, 2023.

3) Exhibit C is the certified mailing tracking information, which is automatically

complied by CertifiedPro, the software Modrall uses to track the mailings. This spreadsheet

shows the names and addresses of the parties to whom notice was sent and the status of the

mailing.

4) Exhibit D is the Affidavit of Publication from the Carlsbad Current Argus,

confirming that notice of the August 3, 2023 hearing was published on July 19, 2023.

5) I attest under penalty of perjury under the laws of the State of New Mexico that

the information provided herein is correct and complete to the best of my knowledge and belief.

Dated: November 1, 2023

Weena M. Bennett

Deana M. Bennett



July 13, 2023

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Deana M. Bennett 505.848.1834 dmb@modrall.com

Re: APPLICATION OF CHEVRON U.S.A. INC. TO APPROVE SALT WATER DISPOSAL WELL IN EDDY COUNTY, NEW MEXICO.

CASE NO. 23687

TO: AFFECTED PARTIES

This letter is to advise you that Chevron U.S.A. Inc. ("Chevron") has filed the enclosed application.

In Case No. 23687, Chevron seeks an order approving the Severitas 2 State SWD #1 well at a surface location 185' from the North line and 1,082' from the East line, Unit A, Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 2343 feet to 6012 feet. The tubing packer will be set at 2243 feet, and production casing and cement will be set at 5500 feet. The maximum anticipated injection rate will be 15,000 bwpd and maximum surface injection pressure will be 468 psi. Said location is approximately 13 miles southwest of Malaga, New Mexico.

The hearing will be conducted remotely on August 3, 2023 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: https://www.emnrd.nm.gov/ocd/hearing-info/. This hearing is subject to continuance by the Division to a subsequent docket date.

As a party who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

EXHIBIT A

Modrall Sperling Roehl Harris & Sisk P.A.

500 Fourth Street NW Suite 1000 Albuquerque, New Mexico 87102

PO Box 2168 Albuquerque, New Mexico 87103-2168

Tel: 505.848.1800 www.modrall.com Page 2

You are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Sincerely,

Deana M. Bennett

Attorney for Applicant

Deena 4 Bennett

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

APPLICATION OF CHEVRON USA INC. TO APPROVE SALT WATER DISPOSAL WELL IN EDDY COUNTY, NEW MEXICO.

CASE NO. 23687

APPLICATION

Chevron USA Inc. ("Chevron"), OGRID No. 4323, through its undersigned attorneys, hereby applies 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 Eddy County, New Mexico. In support of this application, Chevron states as follows:

- (1) Chevron proposes to drill the Severitas 2 State SWD #1 well at a surface location 185' from the North line and 1,082' from the East line, Unit A, Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico for the purpose of operating a salt water disposal well.
- (2) Chevron seeks authority to inject into the Bell Canyon/Cherry Canyon/Brushy Canyon from 2,343' to 6,012'.
- (3) The tubing packer will be set at 2,243' and production casing and cement will be set at 5,500'.
- (4) Chevron requests that the Division approve a maximum daily injection rate for the well of 15,000 BWPD.
 - (5) Chevron requests that a maximum pressure of 468 psi be approved for the well.
 - (6) A proposed C-108 for the subject well is attached hereto in Attachment A.

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The granting of this application will avoid the drilling of unnecessary wells, will (7) prevent waste, and will protect correlative rights.

WHEREFORE, Chevron requests that this application be set for hearing before an Examiner of the Oil Conservation Division on August 3, 2023; and that after notice and hearing. the Division enter its order approving this application.

Respectfully submitted,

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

By: Near H Bennest Deana Bennett

Earl E. DeBrine, JR. Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 Attorneys for Applicant

CASE NO. 23687: Application of Chevron USA Inc. for approval of salt water disposal well in Eddy County, New Mexico. Applicant seeks an order approving the Severitas 2 State SWD #1 well at a surface location 185' from the North line and 1,082' from the East line, Unit A, Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 2343 feet to 6012 feet. The tubing packer will be set at 2243 feet, and production casing and cement will be set at 5500 feet. The maximum anticipated injection rate will be 15,000 bwpd and maximum surface injection pressure will be 468 psi. Said location is approximately 13 miles southwest of Malaga, New Mexico.

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Page 4 of 47 FORM C-108 Revised June 10, 2003

Page 221 of 267

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Stora Application qualifies for administrative approval? X Yes No
П.	OPERATOR: Chevron USA Inc.
	ADDRESS: 6301 Deauville Blvd, Midland, TX 79706
	CONTACT PARTY: Tom Merrifield PHONE: 661-448-7489
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. ATTACHMENT 1
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schemat of any plugged well illustrating all plugging detail. ATTACHMENT 2
VII.	Attach data on the proposed operation, including: ATTACHMENT 3
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
VIII.	VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. ATTACHMENT 4
IX.	Describe the proposed stimulation program, if any. ATTACHMENT 5
*X,	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted) ACHMENT 6
*XI. injec	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any ction or disposal well showing location of wells and dates samples were taken. ATTACHMENT 7
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering da and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. ATTACHMENT 8
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form. ATTACHMENT 9
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge an
	belief.
	NAME:
	SIGNATURE:DATE:
XV.	E-MAIL ADDRESS: If the information required under Sections VI, VIII, X, Please show the date and circumstances of the earlier su RIBUTION: Original and one copy to Santa Fe with one
	RIBUTION: Original and one copy to Santa Fe with one to Imaging: 7/3/2023 4:41:38 PM OCD Examiner Hearing - Nov. 8-9, 2023

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No. 23686, 23687

Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Page 2

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
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) 334-6178 Fax: (505) 334-6170

<u>District IV</u> 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

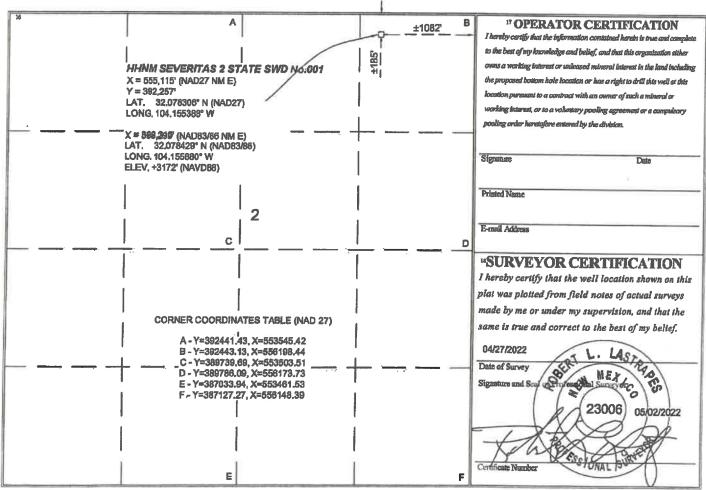
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	¹ API Nun	aber	² Pool C	ode			³ Pool Nag	ne		
			9610	3			SWD; DELAY	WARE		
Proper	ty Code			5 P1	roperty Name				6 W	ell Number
	_			SEVERIT	AS 2 STATE S	SWD				001
7OGR	D No.			¹ Ö	perator Name				9 I	devation
43:	23			CHEVR	ON U.S.A. IN	C.				3172'
				10 Sur	face Locat	ion				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County
Α	2	26 SOUTH	27 EAST, N.M.P.M.		1851	NORTH	1082'	EAST		EDDY
			" Bottom H	ole Locat	ion If Diffe	erent From S	urface			

UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 26 SOUTH 27 EAST, N.M.P.M. 185' NORTH 10821 **EAST EDDY** 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code

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.



Page 3

Page 4

INJECTION WELL DATA SHEET

OPERATOR:

Chevron U.S.A. Inc.

Severitas 2 State SWD 1 WELL NAME & NUMBER:

UNIT LETTER WELL LOCATION: 185' from North, 1082' from East, FOOTAGE LOCATION

4

WELLBORE SCHEMATIC

See next page

26 South, 27 East, N.M.P.M. TOWNSHIP SECTION ς Ĉ

RANGE

WELL CONSTRUCTION DATA

Surface Casing

13-3/8" Casing Size:

17-1/2"

Hole Size:

337 9 SX.

Method Determined: Volumetric

Surface

Top of Cement:

253

Cemented with:

Intermediate Casing

12-1/4"

Hole Size:

Casing Size: 0 SX. Surface

Cemented with:

Top of Cement:

£3

Method Determined: Volumetric

Production Casing

18/2-6 377 Cemented with: Hole Size:

Surface 5500' Top of Cement: Total Depth:

Method Determined: Volumetric

£3

901

0

SX.

7-5/8"

Casing Size:

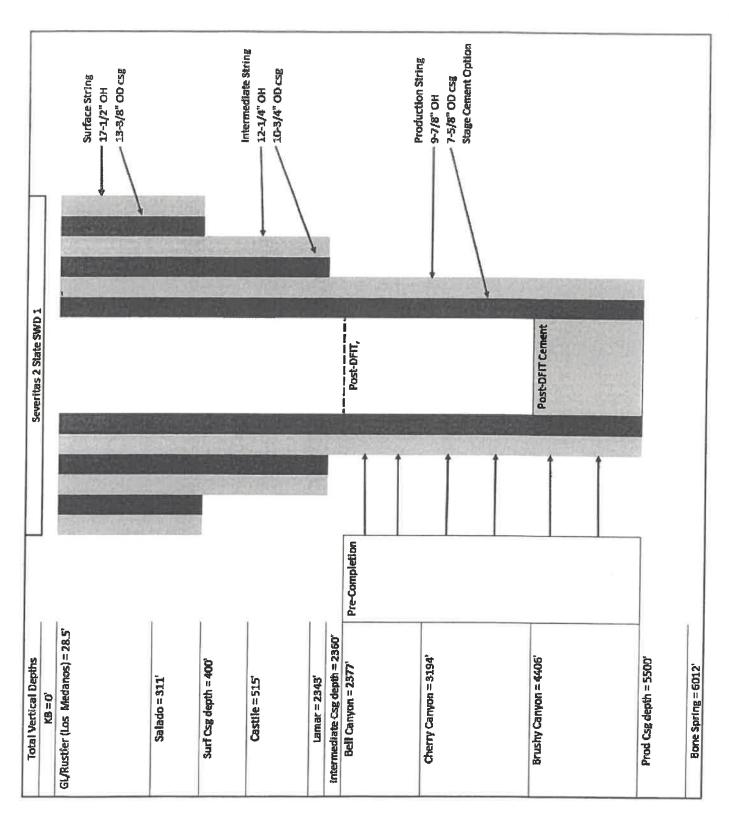
In ection Interval

feet to

2343

targeted for injection, but the SA&O data and analysis may indicate that fluids migrate into the (Perforated or Open Hole; indicate which) * Brushy Canyon is included as a potential injection interval. The Brushy is not intentionally Brushy, but are contained by the Bone Spring Limestone.

Side 1 Released to Imaging: 7/3/2023 4:41:38 PM



INJECTION WELL DATA SHEET

5-1/2"

Tubing Size:

Lining Material:

Hydraulically set packer

2243 Packer Setting Depth: Type of Packer:

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

Additional Data

Is this a new well drilled for injection?

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

å Yes

×

Bell Canyon, Cherry Canyon, and Brushy Canyon Name of the Injection Formation: d

Name of Field or Pool (if applicable): ei ei

SWD; Delaware

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

No, this is a proposed new SWD well.

Give the name and depths of any oil or gas zones underlying or overlying the proposed njection zone in this area: Depths are within a 3 mile area. Ś

Atoka (11,643-11,794), Bone Spring (5840-18,860),

Morrow (11,966-12,697), Pennsylvanian (11,154-12,522), and Strawn (11,694-11,719), and Wolfcamp (9299-21,655)

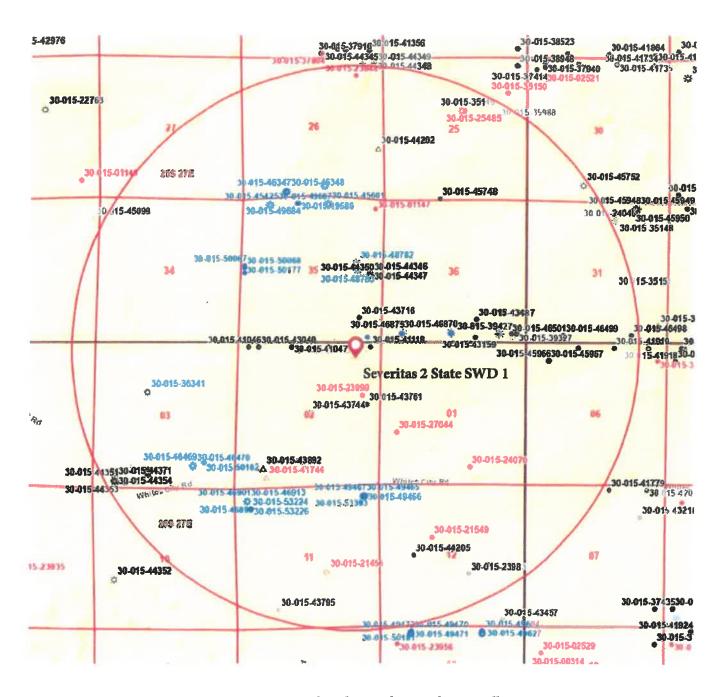
Page 6 for injection, but the SA&O data and analysis may indicate that fluids migrate into the Brushy, but are * Brushy Canyon is included as a potential injection interval. The Brushy is not intentionally targeted contained by the Bone Spring Limestone.

Side 2

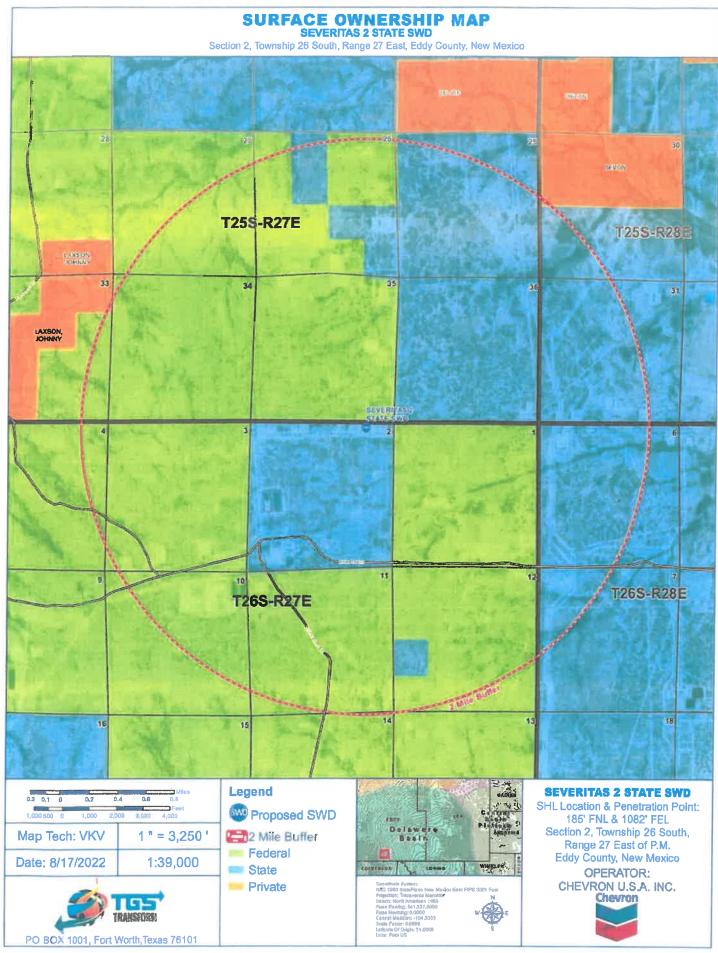
ATTACHMENT 1 Item V

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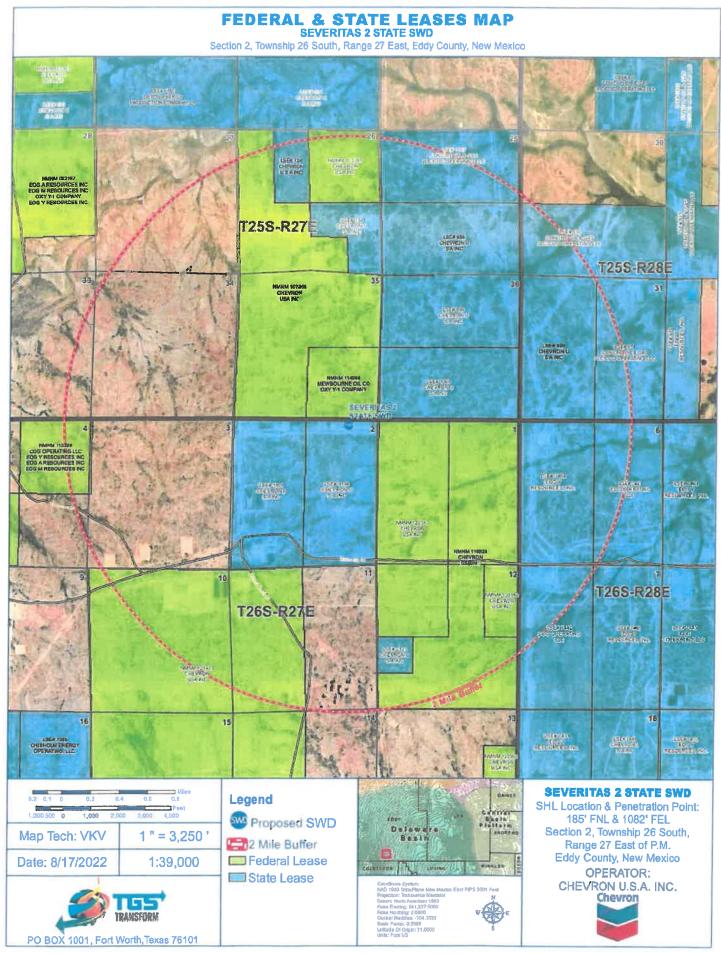
Released to Imaging: 11/2/2023 4:34:02 PM No. 236



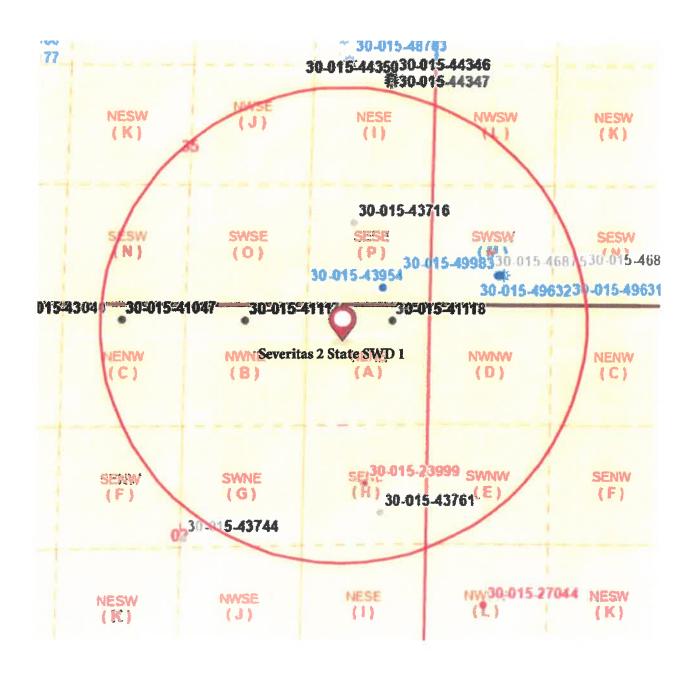
Severitas 2 State SWD 1: 2.0 mile radius circle map showing all wells within the radius.



OCD Examiner Hearing - Nov. 8-9, 2023 No. 23686, 23687



OCD Examiner Hearing - Nov. 8-9, 2023 No. 23686, 23687 228



Severitas 2 State SWD 1: 0.5 mile radius circle map showing wells in Area of Review (AOR).

ATTACHMENT 2 Item VI

Miles from SWD	0.3	4.0	0.2	0.2	0.3	0.2	4.0	0.1	0.3	0.3	0.3
Plug Date					5/15/1987						
Associated Pools	(98220) PURPLE SAGE, WOLFCAMP (GAS)	[16800] DELAWARE RIVER, BONE SPRING	[16800] DELAWARE RIVER, BONE SPRING	[97494] COTTONWOOD DRAW, BONE SPRING (O)	[16800] DELAWARE RIVER, BONE SPRING	[16800] DELAWARE RIVER, BONE SPRING	[97494] COTTONWOOD DRAW, BONE SPRING (0)	[16800] DELAWARE RIVER, BONE SPRING	[98220] PURPLE SAGE, WOLFCAMP (GAS)	[98220] PURPLE SAGE, WOLFCAMP (GAS)	[16800] DELAWARE RIVER, BONE SPRING; [30216] HAY HOLLOW, BONE SPRING, NORTH
Vertical Depth.	0	7,792	7,768	0	0	0	0	7,789	0	0	0
Measured Depth	0	12,619	12,556	0	0	0	0	12,759	0	0	0
Longitude 83	-104.1499	-104.1632	-104.1588	-104.155	-104.1546	-104.154	-104.154	-104.1537	-104.1498	-104.1499	-104.1499
Latitude 83	32.0798	32.0785	32.0785	32.0814	32.0735	32.0795	32.0726	32.0785	32.0798	32.0798	32.0798
Range	27E	27E	27E	26E	27E	27E	26E	27E	27E	27E	27E
Township	255	265	265	255	265	255	255	265	255	255	255
Section	36	7	7	14	2	35	24	2	36	36	36
aging: 7/:	ე 3/ <u>2</u> 023	<u>0</u> 4≨41:3	8 EM	§ ocd	ELL	2 er Hearing	₹G¥	N 2822	3 LLC	3 LLC	3 LLC

Data tabulation of wells in Area of Review of the Severitas 2 State SWD 1.

WAYNE MOORE

403 N. MARIENFELD MIDLAND, TEXAS 79701 RECEIVED

APR 25 1983

O. C. D. ARTESIA, OFFICE

April 18, 1983

Mr. Leslie A. Clements Supervisor District II Energy and Mineral Department P.O. Drawer DD Artesia, New Mexico 88210

WAYNE MOORE - AZTEC STATE #1, SEC 2-T26S-R27E, LEASE #L-6791, EDDY COUNTY, NEW MEXICO

Mr. Clements,

This is in reference to your letter of April 11, 1983, concerning the above listed lease.

The well was perforated in the Bone Springs Section (perfs. 6125-6727, 37 perforations) and put on pump for testing. Down hole and surface equipment problems plagued the operation as testing continued, thus the testing took much longer than anticipated.

The well, although operating at a small profit, is not sufficiently productive so as to warrent the drilling of additional Bone Springs wells on this lease. With that in mind a completion in the Delaware Section is now in the final planning stage.

(See attached letter). We plan to:

- A. Set a cast iron bridge plug at the top of the Bone Springs.
- B. Spot 50' of cement on top of this bridge plug.
- C. Perforate below the zones of interest and circulate cement 200' into the 8-5/8" casing set at 2330'.
- D. Perforate and test zones of interest in the Delaware Section.

WAYNE MOORE

403 N. MARIENFELD MIDLAND, TEXAS 79701

Mr. Clements, sorry for the delay in reporting, but we've until recently, been at a loss as to what to do with the well. We will file reports as this work progresses. Please let me know if you require additional information.

Thank you for your help with this problem.

Sincerely,

Tom E. Moore

TEM/mp

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D. Ran temperature survey - top of cement 700' from surface.	
E Perforate 4752 - 4798 with 13 holes. (5-12-83)	
F. Acidize and Frac (5-15-83)	
G. Swab test with oil & gas show (5-17-83) H. Put on pump for additional testing (5-25-83)	•
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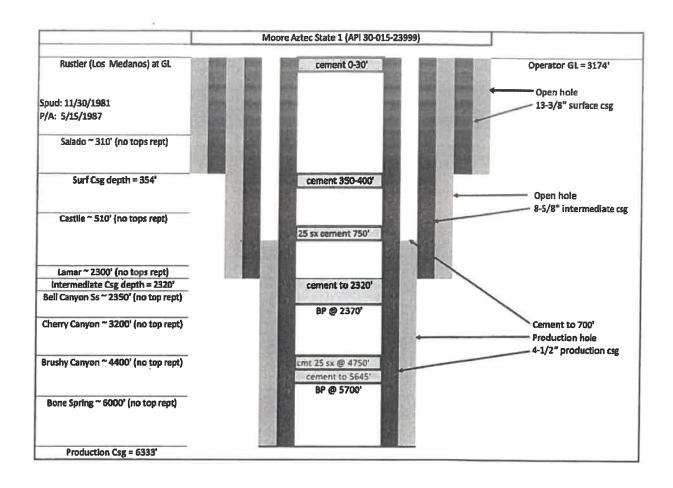
OCD Examiner Hearing - Nov. 8-9, 2023

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NEW MEXICO OIL CONSERVATION COMMISSION P. O. DRAWER DD ARTESIA, NEW MEXICO 88210

DATE 1-22-85
- Wayne Moore
403 N. Marien field
Midland, Tr. 79701
Gentlemen:
Re: Plugging Reports
Form C-103, Report of Plugging for your Azfec Sf. H 2-26-27 Lease Well # Unit S-T-R
cannot be approved until a Division representative has made an inspection of the location and found it to be cleared to comply with Division Rules and Regulations. Please check each item in the space provided to indicate that the work has been done.
() 1. All pits have been filled and leveled.
() 2. Rat hole and cellar have been filled and leveled.
() 3. A steel marker 4" in diameter and approximately 4' above mean ground level has been set in concrete. It must show the quarter-quarter section or unit designation, section, township and range numbers which have been permanently stenciled or welded on the marker.
 4. The location has been leveled as nearly as possible to original top ground contour and has been cleared of all junk and equipment.
() 5. The dead men and tie downs have been cut and removed.
() 6. If a one well lease or last remaining well on lease, the battery and burn pit locations have been leveled and cleared of all junk and equipment.
The above are minimum requirements and no plugging bond will be cancelled until all locations for plugged and abandoned wells have been inspected and Form C-103 approved.
When all of the work outlined above has been done, please notify this office by filling in the blank form below and returning this letter to us so that our representative will not have to make more than one trip to the location.
OIL CONSERVATION DIVISION
FILL IN BELOW AND RETURN Barry Brooks DISTRICT GEOLOGIST
I certify that the above work has been done and the
is ready for your inspection and approval. **Release 1877 To 28 4:41:38 PM



Schematic of plugging detail of Moore Aztec State 1 (API 30-015-23999).

ATTACHMENT 3 Item VII

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Item	Well 5.5" tubing	Severitas 2 State SWD #1
1)	Permit Max Rate (bwpd)	15,000
1)	Permit Avo Daily Rate	12,500
2)	System	closed
3)	Permit Max Pressure (psig)	468
3)	Permit Avg Pressure (psig)	400

İtem		Water Requirements
4)	Reinjected produced water	source WQ of injectate and receiving formation is not required per application
	Disposal Zone Water	for non-productive in 1 mile
5)	Chic	ken Hawk State 1 (API 3001533682)
		Results on next page

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ATTACHMENT 4 Item VIII

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Formation/Geologic Feature Tops & Datum Lithology	Lithology	TVD (from Datum) Z (SSTVD)	Z (SSTVD)
KB (Kelly Bushing)	Datum	0.0	3200.5
GL (ground surface)	Ground Surface	28.5	
01 - Rustler (Los Medanos at surface)	Mudstone, Salt & Anhydrite	78.5	
02 - Salado	Gypsum & Anhydrite	310.5	
03 - Castile	Anhydrite & Salt	514.8	
04 - Lamar	Carbonate	2343.3	
05 - Bell Canyon	Sandstone	2376.9	
06 - Cherry Canyon	Sandstone, Siltstone & Carbonate	3193.6	
07 - Brushy Canyon	Sandstone, Mudstone & Carbonate		-120
08 - Bone Spring	Carbonate	6011.7	

Geologic prognosis tops of all formations to be encountered in the Severitas 2 State SWD 1.

OCD Examiner Hearing - Nov. 8-9, 2023 No. 23686, 23687

ATTACHMENT 5 Item IX

Proposed acid stimulation as part of the completion for the Severitas 2 State SWD 1.

- 1. MI/RU Petroplex Acid and Gladiator N2 Unit
- 2. Perform pressure pumping checklist and record in wellview.
- 3. Rig up Petroplex acid lines and tie in to 4-1/16" wing valve on tree. Test all lines against wing valve to 2,100 psi for 5 min
 - Install tee in Petroplex lines to allow N2 line to be rigged up. Test all N2 lines against wing valve to 2,100 psi for 5 min
- 4. Pump Acid job per Petroplex Pump Schedule diverting with N2 as required.
 - Max pressure for job will be 468 psi
 - Discuss with WOE for operational pressure limits during job.
 - Diversion will be treated with 1,250 scf/bbl of N2
- 5. Once acid is complete R/D Petroplex and Gladiator
- 6. Secure and shut in well.

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ATTACHMENT 6 Item X

No logs have been run on the Severitas 2 State SWD 1. This is a planned well.

The following open hole logs are planned to be run if hole conditions allow: gamma-ray, resistivity, neutron-density, sonic, and image logs.

Production casing will be installed from surface to near the base of the Brushy Canyon Formation. A total of approximately six Diagnostic Fracture Injection Tests (DFITs) are planned for the Bell Canyon, Cherry Canyon and Brushy Canyon Formations. After the DFITs are run, the Brushy Canyon will be plugged. The Cherry Canyon and Bell Canyon will be perforated to the base of the Lamar Limestone. A step rate test will be run on the Bell Canyon and Cherry Canyon Formation permitted injection interval.

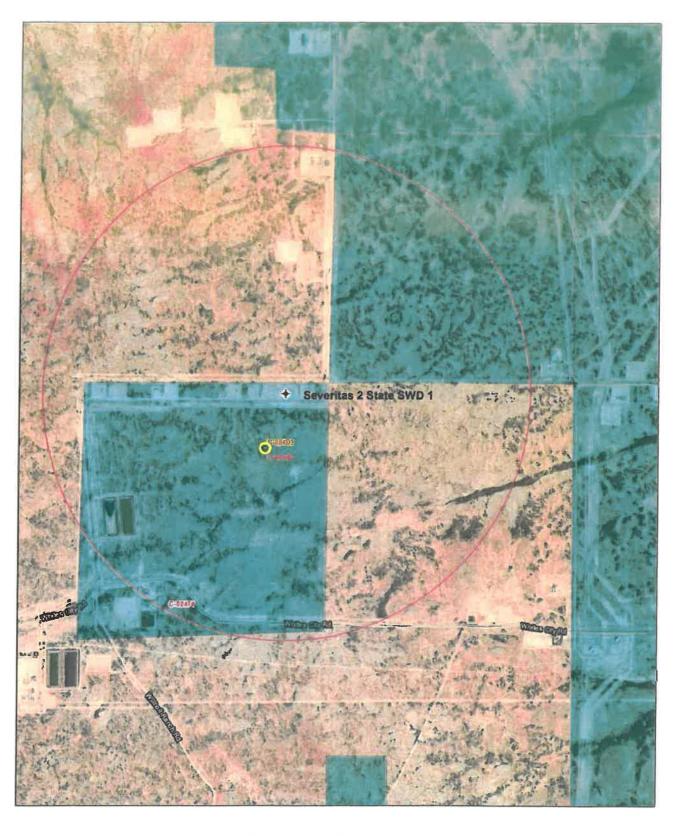
ATTACHMENT 7 Item XI

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OCD Examiner Hearing - Nov. 8-9, 2023

No. 23686, 23687

249





Both the C-02103 and the C-02048 permits have expired with no evidence wells were drilled. The C-02474 was drilled in 1913 and may have not been used past 1918. No lab reports available. The well is confined to the first 100 ft in the Alluvium. No Rustler Aquifer exists in the immediate area.

OCD Examiner Hearing - Nov. 8-9, 2023 No. 23686, 23687



New Mexico Office of the State Engineer **Water Right Summary**

WR File Number: C 02048

Subbasin: C

Cross Reference:

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING Primary Status: EXP EXPIRED

Subfile:

Header: -

Total Acres: Total Diversion: 0

Cattse/Case: -

Owner: DELAWARE RANCH INC

Documents on File

From/

Acres Diversion Consumptive To

Trn# Doc File/Act get 465436 72121 1983-02-02

1 2 Transaction Desc. EXP EXP C 02048

Т

Current Points of Diversion

POD Number

C 02048

(NAD83 UTM in meters)

Well Tag Source 64Q16Q4Sec Tws Rng 2 02 26S 27E

579582 3549072*

Other Location Desc

"An (") after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is succepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, capressed or implied, concerning the accuracy, completeness, reliability, usuability for any particular purpose of the data.

9/6/22 9:16 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer **Transaction Summary**

72121 All Applications Under Statute 72-12-1

Transaction Number: 465436

Transaction Desc: C 02048

File Date: 01/31/1983

Primary Status: EXP Expired Permit

Secondary Status: EXP Expired

Person Assigned: *******

Applicant: DELAWARE RANCH INC

Events

	Date	Type	Description	Comment	Processed By
gel imps	01/31/1983	APP	Application Received	*	******
	02/02/1983	FIN	Final Action on application	******	
	02/02/1983	WAP	General Approval Letter		******
	03/01/1984	EXP	Expired Permit (well log late)		******
	05/20/2011	ADV	Pac & Amb - file location	C 02048 Box: 1870	******

Change To:

WR File Nbr

Consumptive Purpose of Use

STK 72-12-1 LIVESTOCK WATERING C 02048

**Point of Diversion

C 02048 579582 3549072*

An () after northing value indicates UTM location was derived from PLSS - see Help

LOCATION: DELEWARE RANCH PROPERTIES

ABSTRACTOR'S NOTE: PER LETTER DATED 03/01/1984, THIS PERMIT IS EXPIRED, NO WELL RECORD ON FILE WITH THE OFFICE OF THE STATE ENGINEER.

Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved Action Date: 02/02/1983 Log Due Date: 02/29/1984 State Engineer:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/6/22 9:16 AM

TRANSACTION SUMMARY



New Mexico Office of the State Engineer **Water Right Summary**

WR File Number: C 02103

Subbasin: C

Crass Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: EXP EXPIRED

Total Acres:

Subfile: Cause/Case: -

Total Diversion: 0

Owner: DELAWARE RANCH INC

Header: -

Documents on File

From/

Acres Diversion Consumptive

Rei 1468575 72121 1484-05-14

Doc File/Act

1 2 Transaction Desc. EXP EXP C 02103

Te

3

Current Points of Diversion

Ten#

(NAD83 UTM in meters)

POD Number C 02103

Well Tag Source 64Q16Q4Sec Tws Rng

2 02 268 27E 579582 3549072*

Other Location Desc

"An (") after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, capressed or implied, concerning the accuracy, completeness, reliability, or outstability for any particular purpose of the date.

9/6/22 9:12 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer **Transaction Summary**

72121 All Applications Under Statute 72-12-1

Transaction Number: 468575

Transaction Desc: C 02103

File Date: 05/14/1984

Primary Status: EXP Expired Permit Secondary Status: EXP Expired

Person Assigned: *******

Applicant: DELAWARE RANCH INC

Events

Date	Type	Description	Comment	Processed By
SEL 05/14/1984	APP	Application Received	*	******
05/14/1984	FIN	Final Action on application		******
05/14/1984	WAP	General Approval Letter	General Approval Letter	
06/03/1985	EXP	Expired Permit (well log late)		******
05/23/2011	ARV	Rec & Arch - file location	C 02103 Box: 1871	******

Change To:

C 02103

WR File Nbr

Consumptive Purpose of Use

3

STK 72-12-1 LIVESTOCK WATERING

**Point of Diversion

579582 3549072*

Am () after northing value indicates UTM location was derived from FLSS - see Help

Remarks

LOCATION: DELAWARE RANCH PROPERTIES.

ABSTRACTOR'S NOTE: PER LETTER DATED 06/03/1985. THIS PERMIT IS EXPIRED. NO WELL RECORD ON FILE WITH THE OFFICE OF THE STATE ENGINEER.

Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved 05/14/1984 Action Date:

Log Due Date: 05/31/1985

State Engineer:

The data is formished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

9/6/22 9:14 AM

TRANSACTION SUMMARY

Released to Imaging: 11/2/2023 4:34:02 PM



New Mexico Office of the State Engineer **Water Right Summary**



WR File Number: C 02474

Subbasin: CUB

Cross Reference: -

Primary Purpose: PLS NON 72-12-1 LIVESTOCK WATERING Primary Status:

Total Acres:

Total Diversion:

3

DCL DECLARATION

Subfile: Cause/Case: -

Owner: MARTHA SKEEN

Documents on File

Tra # Doc File/Act

Status 1 2 Transaction Desc. Prom/ Te

Acres Diversion Consumptive

Header: -

POB Number

gel 198101 DCL 1995-12-12

DCL PRC C-02474

T

3

Current Points of Diversion

Well Tag Source 64Q16Q4Sec Tws Rug

4 3 02 26S 27E 578964 3548029°

(NAD83 UTM in motors)

Other Location Desc

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

C 02474

Priority 12/31/1913 Status DCL Acres Diversion Ped Number 3 C 02474

Place of Use

256 64 Q16 Q4Sec Tws Rng

Diversion

CU Use Priority Status Other Location Desc PLS 12/31/1913 DCL NO PLACE OF USE GIVEN

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or amplied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/6/22 9:18 AM

WATER RIGHT **SUMMARY**

Released to Imaging: 7/3/2023 4:41:38 PM

Released to Imaging: 11/2/2023 4:34:02 PM

(w) twell Kelly Polk Wels.
Revised December 1975

IMPORTANT - READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

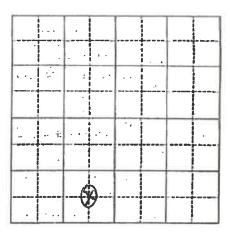
Declaration of Owner of Underground Water Right

Cantsback		
BASIN NAMI:	1095	
Date received December 12	1337	
STATEMENT.		
Name of Declarant Muntha Lesen		
Mailing Address 32/ Aruth Conyme, Clubbal		
County of Colicles , State of N. May		
ource of water supply Shallow (attesian or site ow water squifer)		
restring well have ton study one of the following subheadings:		
1 5E 4 5W 4 of Sec. 2 Tup. 265, Rge.	2781 N	.M.P.M., in
Tract No of Map No of the		
X = Feet, Y = feet, N. M. Coordinate System		Zone
in the	-	Grant,
On land owned by State of the Mes	100	
Description of well: date drilled 1913 drilles Heples Benkepth	700	iret.
ruside diameter of casing inches; original capacity 5al. per min.; present c	apacity	
al. per min.; pumping liftfeet; static water levelfeet (above) (below) land su	rface;	
nake and type of pamp Wino mill	_	35.
nake and type of pamp		5
pake, type, horsepower, etc., of power plant		1 -1
Fractitional or percentage interest claimed in well 10090	1.	, 'si Ei
manily of water appropriated and beneficially used 3 acres 44.	. 4	my i
A B (acre feat not feet) (acre fe	et per ånnum	
JIVESTOCK	15 50	ulpdees.
creage actually irrigated acres, located and described as follows (describe only lan	ds actually is	rrigined):
Acres 1111	ဝဂ္ဂ	
Subdivision Sec. Twp. Range trigated	Owner	8
		7 . 11
, the state of the	(C)	
	155	11 24 1 2 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	enty .	7.55 T.T.
	-3	- 2
	0	
(Notes location of well and acroage actually irrigated must be shown an plat as reverse side,	.) ස	83
ater was first applied to beneficial use month day year	_and since (hat Eine
is been used fully and continuously on all of the above described lands or for the above descri	bed purposes	except
i follows:		i
iditional statements or explanations These Wella and tomber	1140	
dictional statements or explanations - 1800 William was Combo	1.	
leader Barn Sun of the Rout beaut	16-4	/2
reaction less this Product But to the	2 Miles	R-
Dela Berry Resident Shows	- -	<u> </u>
MILITALLE & MARIE MARIE STRUMENT CARREN	7	
being first duly	Colored When a	ou back
pose and say that the above is a full and complete statement prepared in accordance with the i	nstructions o	n the re-
rse side of this form and submitted in evidence of ownership of a valid underground water right	that I have	carefully
ed each atta attached therein and that the same are true to the beat of my know	viedge and be	lief.
In acom W. Al	<u>lee,</u> de	clarant.
by:		
med and what profession me this 1 day of PECEMBER	A 10 10	.95
02/12/199 Michie	45 - · ·	
HLED Vinginglopes	Notice Publ	re
UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CACCE TANCE FOR FILING DOES NOT CONSTITUTE FOR FILING FOR	CLASS.	icio.
ACCE INTO THE PARTY OF THE PART	- -	1981

Stort sales are a work

and a section of the con-

Lumis well and areas actually brigated as accurately as pensible on following plat: Township



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate end must be accompanied by a \$1.60 filling fee. Each of triplicate copies must be properly signed and attested.

A separate decisration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-5. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, siate total quantity in sore feet used samually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 21/2 acre subdivision. If located on unsurveyed lands describe by legal supdivision "as profected" from the nearest government survey corners, or describe by meter and bounds and the survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any-other data necessary to faily

If additional space is necessary, use a separate sheet or sheets and attach accurely hersto.

Released to Imaging: 7/3/2023 4:41:38 PM

Released to Imaging: 11/2/2023 4:34:02 PM



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

THOMAS C. TURNEY State Engineer

ROSWELL

DISTRICT IF 1900 West Second St. Floewell, New Mexico 88201 (505) 622-6521

December 12, 1995

ピ- マソフマ FILES: C- 2473 thru C-2481; LWD-C-64 thru LWD-C-70

Martha Skeen 321 South Canyon Carlsbad, NM 88220

Dear Ms. Skeen:

SATTA CHAMBER OFFICE Enclosed are your copies of Declaration of Owner of Underground Water Right, and Declaration of Ownership of Livestock Water Dam or Tank, as numbered above, which have been accepted for filing in the office of the State Engineer.

Please refer to these numbers in all future correspondence concerning these declarations.

The acceptance for filing of these declarations by this office does not indicate affirmation or rejection of the statements contained therein.

Richard C. Cibak Area Supervisor

S HEW MEXICO

57

Enclosures cc: Santa Fe Hydro Section

ATTACHMENT 8 Item XII



George T. (Tom) Merrifield, Jr., PG SWD DRP Geologist Chevron U.S.A. Inc. 6301 Deauville Blvd Midland, TX 79706 Phone +1 661-448-7489 tommerrifield@chevron.com

April 10, 2023

Dylan Fuge, Acting Director Oil Conservation Division 1220 South St. Francis Dr. Sante Fe, New Mexico 87505

Re: Affirmation Statement C-108 Applications
Papa Squirrel SWD 1 and Severitas 2 State SWD 1

Dear Mr. Fuge:

With the increase of induced seismicity due to deep produced water injection, in 2021 Chevron decided to evaluate the potential for shallow injection in both Texas and New Mexico with exhaustive manpower and technical effort.

This effort led to the following technical evaluations of the DMG: (1) the location of high confident shallow faults in our active development areas using available seismic reflection data (2) assessment of seismic risk of any such shallow faults, (3) other geologic and reservoir engineering assessments addressing storage capabilities, potential impacts, and mitigation, and (4) collaboration and joint efforts with other operators.

Both the Papa Squirrel SWD 1 and Severitas 2 State SWD 1 are locations which we find no indication of open faults at the surface or in the subsurface and no indication of hydraulic connection between the proposed injection zone (Bell Canyon and Cherry Canyon) and an underground source of drinking water (USDW). Both locations have low potential for fault slip and induced seismicity.

Respectively yours,

G. T. Merrifield, Jr., PG

S.J. Mempies 9.

TX (#10838) and CA (#9274)

ATTACHMENT 9 Item XIII

Notices will be sent to the following surface owners, leasehold operators, mineral interest owners, etc., within ½ mile radius.

- Bureau of Land Management
- State Land Office
- COG Operating, LLC

Note: Chevron is the operator of the wells within the 0.5 mile area of review shown in Attachment 1.

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

PS Form 3877

Type of Mailing: CERTIFIED MAIL 07/13/2023

Firm Mailing Book ID: 249154

Line	USPS Article Number	Name, Street, City, State, Zip		Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0109 8801 32	United States of America Bureau of Land Management 301 Dinosaur Trail Santa Fe NM 87508		\$2.55	\$4.35	\$2.20	\$0.00	83420.0047 severi Notice
2	9314 8699 0430 0109 8801 49	New Mexico State Land Office PO Box 1148 Santa Fe NM 87504		\$2.55	\$4.35	\$2.20	\$0.00	83420.0047 severi Notice
3	9314 8699 0430 0109 8801 56	COG Operating 600 W. Illinois Midland TX 79701		\$2.55	\$4.35	\$2.20	\$0.00	83420.0047 severi Notice
4	9314 8699 0430 0109 8801 63	Mewbourne Oil Company Tim Harrington PO Box 7598 Tyler TX 75711		\$2.55	\$4.35	\$2.20	\$0.00	83420.0047 severi Notice
			Totals:	\$10.20	\$17.40	\$8.80	\$0.00	
					Grand	Total:	\$36.40	

List Number of Pieces Total Number of Pieces Postmaster: Dated:
Listed by Sender Received at Post Office Name of receiving employee

4



EXHIBIT B

Received by OCD: 11/2/2023 4:27:49 PM Page 266 of 267

Transaction Report Details - CertifiedPro.net Firm Mail Book ID= 249154 Generated: 11/1/2023 9:06:39 AM

USPS Article Number	Date Created	Reference Number	Name 1	Name 2	City	State	Zip	Mailing Status	Service Options	Mail Delivery Date
9314869904300109880163	2023-07-13 11:11 AM	83420.0047 severi	Mewbourne Oil Company	Tim Harrington	Tyler	TX	75711	Delivered	Return Receipt - Electronic, Certified Mail	2023-07-18 8:56 AM
9314869904300109880156	2023-07-13 11:11 AM	83420.0047 severi	COG Operating		Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	2023-07-18 12:00 AM
9314869904300109880149	2023-07-13 11:11 AM	83420.0047 severi	New Mexico State Land Office		Santa Fe	NM	87504	Delivered	Return Receipt - Electronic, Certified Mail	2023-07-17 10:27 AM
9314869904300109880132	2023-07-13 11:11 AM	83420.0047 severi	United States of America	Bureau of Land N	ار Santa Fe	NM	87508	Delivered	Return Receipt - Electronic, Certified Mail	2023-07-17 1:11 PM

EXHIBIT C

Carlsbad Current Argus.

CASE NO. 23687: Notice to all affected parties, as well as heirs and devisees of: United States of America Bureau of Land Management; New Mexico State Land Office; COG Operating of Application of Chevron USA Inc. for approval of salt water disposal well in Eddy 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 August 3, 2023 to consider this application. Information about accessing the electronic hearing is posted at "OCD NOTICES" at https://www.emnrd.nm.gov/ocd/hearing-info/. This hearing is subject to contin-

nm.gowoco/nearing-into/. Inis hearing is subject to continuance by the Division to a subsequent docket date. Applicant seeks an order approving the Severitas 2 State SWD #1 well at a surface location 185' from the North line and 1,082' from the East line, Unit A, Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 2343 feet to 6012 feet. The tubing packer will be set at 2243 feet, and production casing and cement will be set at 5500 feet. The maximum and cement will be set at 5500 feet.

ing and cement will be set at 5500 feet. The maximum anticipated injection rate will be 15,000 bwpd and maximum surface injection pressure will be 468 psi. Said location is

proximately 13 miles southwest of Malaga, New Mexico.

#5771514, Current Argus, July 19, 2023

Affidavit of Publication Ad # 0005771514 This is not an invoice

MODRALL SPERLING POBOX 2168

ALBUQUERQUE, NM 87103

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

07/19/2023

- 11

Legal Clerk

Subscribed and sworn before me this July 19, 2023:

State of WI, County of Brown NOTARY PUBLIC

My commission expires

KATHLEEN ALLEN Notary Public State of Wisconsin

Ad # 0005771514 PO #:

of Affidavits: 1

This is not an invoice

EXHIBIT D