Protested SWD Application

By Permian Resources
Operating, LLC AND Read &
Stevens, Inc. Recieved
11/10/2025

From: McClure, Dean, EMNRD on behalf of Engineer, OCD, EMNRD

To: Goetze, Phillip, EMNRD; Harris, Anthony, EMNRD; Sandoval, Stacy, EMNRD

Subject: FW: [EXTERNAL] Objection to Raybaw - Application for authorization to inject

Date: Monday, November 10, 2025 9:36:33 AM

Attachments: image001.png

image002.png

Raybaw - Application for authorization to inject.pdf

I'm marking the email as unread and placing it in the protests folder.

Dean McClure

Petroleum Engineer, Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department (505) 469-8211

From: Dana S. Hardy <dhardy@hardymclean.com>

Sent: Monday, November 10, 2025 9:28 AM

To: Engineer, OCD, EMNRD < OCD.Engineer@emnrd.nm.gov>; McClure, Dean, EMNRD

<Dean.McClure@emnrd.nm.gov>

Cc: Dana S. Hardy dhardy@hardymclean.com; Jaclyn M. McLean jmclean@hardymclean.com; Jaclyn M. McLean jmclean.com; Jaclyn M. McLean <a href="mailto:dhardym

Subject: [EXTERNAL] Objection to Raybaw - Application for authorization to inject

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

Good morning,

I'm writing to notify the Division that Permian Resources Operating LLC and Read & Stevens, Inc. object to the attached application for authorization to inject into the Stivason Federal #3 SWD submitted by Raybaw Operating.

Please let me know if you require any additional information.

Best,

Dana



Dana S. Hardy Senior Managing Partner

Phone: 505-230-4426

Email: dhardy@hardymclean.com

Web www.hardymclean.com

125 Lincoln Avenue, Suite 223, Santa Fe, NM 87501



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From: Sandoval, Stacy, EMNRD

To: "jack@oaknrg.com"; "dhardy@hardymclean.com"

Cc: Goetze, Phillip, EMNRD; Harris, Anthony, EMNRD; Chavez, Carl, EMNRD; Cordero, Gilbert, EMNRD; Powell,

Brandon, EMNRD

Subject: Stivason Federal No. 3 SWD, Unit B, Section 33, Township 19 South, Range 34 East, Lea County, New Mexico -

SWD Notice of Protest

Date: Thursday, November 13, 2025 10:15:00 AM

Attachments: <u>image001.png</u>

Greetings Mr. Carter,

On November 10, 2025, Permian Resources Operating, LLC **and** Read & Stevens, Inc. notified the New Mexico Oil Conservation Division ("OCD") that it is protesting the following SWD permit request application of Raybaw Operating, LLC for disposal:

 Stivason Federal No. 3, Unit B, Section 33, Township 19 South, Range 34 East, Lea County, New Mexico

Permian Resources Operating, LLC and Read & Stevens, Inc. are identified as an affected person for the referenced application. For the application to proceed, Raybaw Operating, LLC has two options: either resolve the matter with the protesting party or go to hearing before the Division. If the protest is withdrawn, then the application could be processed administratively. Meanwhile, OCD will retain your application until a resolution is reached on the status of the submittals. If you have any questions, please don't hesitate to reach out to the UIC group.

Thank you,
Stacy Sandoval
Petroleum Specialist
Stacy.Sandoval@emnrd.nm.gov





October 28, 2025

Read & Stevens, Inc. 300 N. Marienfeld St., Suite 1000 Midland, TX 79701

You have been identified as a party with oil and gas lease interests within one-half mile of the Stivason Federal #3 SWD, located 330' FNL & 1,650' FEL, Unit letter B of Section 33, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico.

Raybaw Operating, 2626 Cole Avenue, Suite 300, Dallas, Texas, 75204, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to reauthorize the Stivason Federal #3 SWD, API #30-025-29544, for salt water disposal. As a concerned party enclosed is a copy of NMOCD Form C-108 Application.

The plan is to take the currently shut-in well to active disposal with resuming injection of produced waters into the Queen Formation. The disposal interval would be through currently open perfs 4,510' – 4,555'. Estimated is a disposal rate of 700 BWPD with a maximum disposal rate of 1,000 BWPD at a calculated disposal pressure 800 psi with a maximum disposal pressure of 902 psi.

All interested parties opposing the aforementioned must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, within 15 days. Additional information can be obtained by contacting Jack Carter at 281-387-6515.

If you have no objections to the above-mentioned Application, please sign on copy of this letter in the space provided and return to the undersigned by mail or email. My contact information is provided below.

Sincerely,

Jack Carter
Flint Oak Energy/Raybaw Operating, LLC
21105 Eva St., Suite 220
Montgomery, Texas 77356
Email: jack@oaknrg.com

We Have No Objections:

By:



October 28, 2025

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Sincerely,

Jack Carter
Flint Oak Energy/Raybaw Operating, LLC
21105 Eva St., Suite 220
Montgomery, Texas 77356
Email: jack@oaknrg.com

We Have No Objections:

By:

				Revised March 23, 2017
RECEIVED:	REVIEWER:	TYPE:	APP NO:	
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administrative understand th	N: I hereby certify that the approval is accurate of the action will be taken action to the Divi	and complete to the en on this applicat	e best of my know	wledge. I also
N	ote: Statement must be complet	ed by an individual with n	nanagerial and/or supe	ervisory capacity.
Jack Carter			10/15/2 Date	025
Print or Type Name		-	281-387-6515	

Phone Number

jack@oaknrg.com e-mail Address

Jack Carter

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

	AFFECATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Raybaw Operating, LLC
	ADDRESS: 2626 Cole Avenue, Suite 300, Dallas, Texas 75204
	CONTACT PARTY: Ronda White PHONE: 432-425-3494
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.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 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.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and
	belief.
	NAME: Jack Carter TITLE: Land Consultant
	SIGNATURE:
	E-MAIL ADDRESS: jack@oaknrg.com
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Administrative Order SWD 420; Dated/approved May 22, 1991 C-108 filed by Strata Production Company: Dated April 3, 1991

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.

APPLICATION FOR REINSTATEMENTOF PERMIT TO INJECT DATA SECTION SUBMISSIONS STIVASON FEDERAL #003 (30-025-29544)

Raybaw Operating, LLC Stivason Federal #003 Unit Letter "B", Section 33, Township 19 South, Range 34 East 330' FNL, 1,650' FEL Lea County, New Mexico

DOCUMENTATION FOR FORM C-108

Section "I"

Purpose

The purpose of this application is seeking administrative approval for the reinstatement of the Stivason Federal #003 from shut-in status as a disposal well in the Queen Formation (4510' to 4555') to an active salt water disposal well on Federal Lease (NM-057285). (Original SWD authority was granted under Administrative Order SWD-420 Approved May 22, 1991)

Section "II"

- Operator, Address, Contact Party, Phone.
 - o Raybaw Operating, LLC OGRID: 330220
 - o 2626 Cole Avenue, Suite 300, Dallas, Texas 75204
 - o Manager: Michael Lee Phone: 214-800-2301 Email: michael@raybawoperating.com

Section "III"

- Complete the data required on the reverse side of Form C-108 for each well proposed for injection.
 - o Form C-108 provided data sheets completed additionally:
 - o Exhibit "1": Stivason Federal #003 detail wellbore schematic
 - o Exhibit "1a": Stivason Federal #003 well history

Section "IV"

- Identify scope/nature of project.
 - The Stivason Federal #003 request is not an expansion of an existing project
 - The Stivason Federal #003 application request is limited to seeking approval for the reinstatement of permit to dispose of produced waters from company only operated wells

Section "V"

- Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
 - Exhibit "2": Well Base Map showing all wells within one (1) mile radius of the Stivason Federal #003 – Noted as the Area Of Review.
 - Exhibit "2a": Well Base Map showing all wells within two (2) mile radius of the Stivason Federal #003.
 - Exhibit "2b" Land Base Map showing all leases within two (2) mile radius of the Stivason Federal #003.
 - Exhibit "2c" Land Base Map showing all leases within one-half (1/2) mile radius of Stivason Federal #003 (AOR) for legal notice

Section "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.

- o Exhibit "3": Well data tabulation
- o Exhibit "3a" Plugging schematic of Stivason Federal #5; Sec 27 Twn 19S Rng 34E
- o Exhibit "3b" Plugging schematic of Sun Pearl Federal #2; Sec 28 Twn 19S Rng 34E
- o Exhibit "3c" Plugging schematic of Stivason Federal #4; Sec 28 Twn 19S Rng 34E
- Exhibit "3d" Plugging schematic of Sun Pearl Federal #1; Sec 28 Twn 19S Rng 34E
- Exhibit "3e" Plugging schematic of Stivason Federal #2; Sec 28 Twn 19S Rng 34E
- Exhibit "3f" Plugging schematic of Stivason Federal #6; Sec 28 Twn 19S Rng 34E
- Exhibit "3g" Plugging schematic of Mallon 33 Federal #8; Sec 33 Twn 19S Rng 34E
- Exhibit "3h" Plugging schematic of Mallon 33 Federal #4; Sec 33 Twn 19S Rng 34E
- Exhibit "3i" Plugging schematic of Stivason Federal #3; Sec 33 Twn 19S Rng 34E
- Exhibit "3j" Plugging schematic of Stivason Federal #1; Sec 33 Twn 19S Rng 34E
- o Exhibit "3k" Plugging schematic of Mallon 34 Federal #1; Sec 34 Twn 19S Rng 34E

Section "VII"

- Attach data on the proposed operation, including:
 - 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 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 production of oil and 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).

Proposed average daily injection rate:

700 bwpd

o Proposed maximum daily injection rate:

1,000 bwpd

- o The Stivason Federal #003 is part of a closed SWD system. Raybaw Operating, LLC will operate and be the only user of the system. The water injected into the system will be from Raybaw operated Malachite 22 Federal #1H, & Malachite 22 Federal #2H, & Amethyst 22 Federal #1 all in Secs 22 T 19S R 33E; Anazazi 9 Federal #1 in Sec 9,T20S R33E; Caprock 27 Federal #1H in Sec 27, T 18S R 34E, and Maroon Bells Federal Com 16 32 36 SB in Sec 35 T 19S R 32E
- Proposed average injection pressure:

700 PSI SIP

Proposed maximum injection pressure:

902 PSI SIP

i. (previously authorized by the OCD dated

05/22/1991; Files SWD-420)

Source of proposed injection fluid:

Bones Springs, Abo Reef

The source of the proposed injection water is primarily from the Bone Springs. Produced water will be from Malachite 22 Federal #1H, & Malachite 22 Federal #2H, & Amethyst 22 Federal #1 all in Secs 22 T 19S R 33E; Anazazi 9 Federal #1 in Sec 9,T20S R33E; Caprock 27 Federal #1H in Sec 27, T 18S R 34E, and Maroon Bells Federal Com 16 32 36 SB in Sec 35 T 19S R 32E

- o Exhibit "4" chemical analysis of Bone Springs produced water from the
- o Exhibit "4a" chemical analysis of Bone Springs produced water from
- o Exhibit "4b" chemical analysis of Bone Springs produced water from
- o Exhibit "4c" chemical analysis of Abo Reef produced water from the

Section "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.
 - o Exhibit "5" Geologic data tabulation for the Stivason Federal #003
 - Exhibit "5a" Stivason Federal #003 Log Section of Queen Formation zone Injection Interval

proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

- Exhibit "5" Geologic data tabulation for the Stivason Federal #003
- o Exhibit "5a" Stivason Federal #003 Log Section of Queen Formation zone Injection Interval
- o Exhibit "5b" Stivason Federal #003 Structure Map, Top of Queen Formation, in AOR
- Exhibit "5c" Stivason Federal #003 Cross Section in AOR

Section "IX"

- Describe the proposed stimulation program, if any:
 - At time of application filing, proposed that the Stivason Federal #003 be stimulated with 630 gal of solvent, 50 gal of demulsifier, and 3,500 gal of acid. Treatment indicated for clearing existing injection interval

Section "X"

- Attach appropriate logging and test data on the well. (If welllogs have been filed with the Division, they need not be resubmitted
 - Dual Laterallog-Micro-SFL log for the Stivason Federal #3(Company Moroilco, Inc.) (Schlumberger Well Surveying, 12/24/1985) filed with the OCD (Injection Application approved under Administrative Order SWD-420, 05/22/1991
 - Compensated Neutron Litho Density log for the Stivason Federal #3 (Company Moroilco, Inc.)
 (Schlumberger Well Surveying, 12/24/1985) filed with the OCD (Injection Application approved under Administrative Order SWD-420, 05/22/1991.

Section "XI"

- Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within
 one mile of any injection or disposal well showing location of wells and dates samples were taken).
 - o There are not any fresh water wells currently producing with a 1-mile radius of the Stivason Federal #003.

Section "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.
 - o Exhibit "7" The available geologic and engineering data have been examined and I have found no evidence of open faults or any hydrologic connection between the disposal zone and any underground sources of drinking water.

lagk Carter

Raybaw Consulting Geologist/Landman

Section "XIII"

- Applicants must complete the "Proof of Notice" section on the reverse side of this form.
 - o Exhibit "8" Proof of publication Legal Notice
 - o Statement of Affected Person Notification

Entity Name	Entity Address	Mailing Date
Raybaw Operating	Khanie Nomichit, 2626 Cole Avenue, Suite 300,	5/30/2025
	Dallas, Texas 75204	
Chevron USA	6301 Deauville	10/28/2025
	Midland, Texas 79706-2964	
Coterra Energy	6001 Deauville Blvd., Suite 300N	10/28/2025
	Midland, Texas 79706	
Matador Resources Co	5400 LBJ Freeway, Suite 1500	10/28/2025
	Dallas, Texas 75240	
Read & Stevens, Inc	300 N Marienfeld St, Suite 1000	10/28/2025
	Midland, Texas 79701	
Bureau of Land Management	620 E. Green Street	10/28/2025
Carlsbad Field Office	Carlsbad, New Mexico 88220	
New Mexico State Land Office	PO Box 1148	10/28/2025
Oil, Gas, and Minerals Division	Santa Fe, New Mexico 87504-1148	

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Side 1	INJECTION WELL DATA SHE	ET		
OPERATOR: Raybaw Operating, LLC				
WELL NAME & NUMBER: Stivason Federal #003				
WELL LOCATION: 330' FNL & 1650' FEL	В	33	19 South	34 East
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC RAYBAW Operating, LLC UIC Permit Well		WELL C Surface	ONSTRUCTION DATE Casing	<u>ra</u>
Lease Stivason Federal Well No. 3	Hole Size: 12 1/4"		Casing Size: 8 5/8	' 24# J-55 set at 1,597'
Spud Date 12/15/1986 GL: 3,691.9° WBD SWC 10-1-2025	Cemented with: $\frac{400}{150}$	sx Howco; sx.	or	ft ³
WellHead Surface	Top of Cement: Sur	f	Method Determine	d: Visual (Circ to Surf)
		Intermedia	te Casing	
	Hole Size:		Casing Size:	
8 5/8" 24# J-55 casing set at 1,597'	Cemented with:	SX.	or	ft ³
TOC Calculated at +/- 2,250*	Top of Cement:		Method Determine	d:
		Productio	n Casing	
	Hole Size: <u>7 7/8"</u>		Casing Size: 5 1/2"	15.5# set at 4,630'

Cemented with: 375 sx Cl "C" SX.

Method Determined: Calc @ +/- 2,250'

 ft^3

Top of Cement: 3,070'

Total Depth: __4,630'

Injection Interval

Perfs 4,527 4,536' feet to Perfs 4,546' 4,556'

(Perforated or Open Hole; indicate which)

Perfs 3,901* - 3,908* Prod Interval 7 Rivers Original Compl 3/7/1986 Perfs Squeezed in August 1991 Workover to Convert to SWD in Queen Perfs 3,902* - 3,932* Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,092* - 4,108* Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291* - 4,294* Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291* - 4,294* Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291* - 4,294* Test Squeezed with 75 sxs in 1986 during original Completion 2 3/8 ** IPC 4.7# Tubing at 4,411* Packer at 4,411* Zinc Coated 10* Long Perfs @ 4,927* - 4.556* during Workover August and September 1991	Spud Date	12/15/1986	GL: W	3,891.9 BD SWC 10-1	
Perfs 3,901' - 3,908' Prod Interval 7 Rivers Original Compl 3/7/1986 Perfs Squeezed in August 1991 Workover to Convert to SWD in Queen Perfs 3,926' - 3,932' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,092' - 4,108' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291' - 4,294' Test Squeezed with 75 sxs in 1986 during original Completion 2 3/8" IPC 4.7# Tubing at 4,411' Packer at 4,411' Zinc Coated 10' Long		WellHead	s	urface	
Perfs 3,901' - 3,908' Prod Interval 7 Rivers Original Compl 3/7/1986 Perfs Squeezed in August 1991 Workover to Convert to SWD in Queen Perfs 3,926' - 3,932' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,092' - 4,108' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291' - 4,294' Test Squeezed with 75 sxs in 1986 during original Completion 2 3/8" IPC 4.7# Tubing at 4,411' Packer at 4,411' Zinc Coated 10' Long				5J0" 24# L55 case	ing set at 1.507'
Perfs 3,901' - 3,908' Prod Interval 7 Rivers Original Compl 3/7/1986 Perfs Squeezed in August 1991 Workover to Convert to SWD in Queen Perfs 3,926' - 3,932' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,092' - 4,108' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291' - 4,294' Test Squeezed with 75 sxs in 1986 during original Completion 2 3/8 " IPC 4.7# Tubing at 4,411' Packer at 4,411' Zinc Coated 10' Long			Γ		
Perfs Squeezed in August 1991 Workover to Convert to SWD in Queen Perfs 3,926' - 3,932' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,092' - 4,108' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291' - 4,294' Test Squeezed with 75 sxs in 1986 during original Completion 2 3/8 " IPC 4.7# Tubing at 4,411' Packer at 4,411' Zinc Coated 10' Long				o diculted at 1	. 2,200
Perfs 3,926' - 3,932' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,092' - 4,108' Test Squeezed with 75 sxs in 1986 during original Completion Perfs 4,291' - 4,294' Test Squeezed with 75 sxs in 1986 during original Completion 2 3/8" IPC 4.7# Tubing at 4,411' Packer at 4,411' Zinc Coated 10' Long			P		
Perfs 4,291' -4,294' Test Squeezed with 75 sxs in 1986 during original Completion 2 3/8" IPC 4.7# Tubing at 4,411' Packer at 4,411' Zinc Coated 10' Long	11		P		
2 3/8 " IPC 4.7# Tubing at 4,411' Packer at 4,411' Zinc Coated 10' Long	i		P	erfs 4,092" - 4,108" T	est Squeezed with 75 sxs in 1986 during original Completion
Packer at 4,411' Zinc Coated 10' Long			P	erfs 4,291' - 4,294' T	est Squeezed with 75 sxs in 1986 during original Completion
		,	2	3/8 " IPC 4.7# Tub	ing at 4,411'
Perfs @ 4,527' - 4.556' during Workover August and September 1991			P	acker at 4,411'	Zinc Coated 10' Long
	III		Per	ls @ 4,527' - 4	.556' during Workover August and September 1991

INJECTION WELL DATA SHEET

Tul	ping Size: 2 3/8" Lining Material: IPC J-55 4.7#
Ty	pe of Packer: Zinc Coated 10' long
Pac	cker Setting Depth: 4.95 O.D. 4,411'
Otl	ner Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection? Yes X No
	If no, for what purpose was the well originally drilled? Production of Oil & Gas Originally completed 3/7/1986. Converted to SWD 02/20/1992 under Administrative Order SWD-420 approved May 22, 1991
2.	Name of the Injection Formation: Queen Formation
3.	Name of Field or Pool (if applicable): Pearl Queen
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Seven Rivers Formation tested at Perf & Sqzd 4,192'-94' & Perf & Sqzd 4,092'-4,108' & Perf & Sqzd/w 75 sx 3,926'-32' & Perf
_	3,901'-08' tested non economic and Sqzd w/ 75 sx class "C"
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Disposal interval is 10 feet down dip to the lowest Queen producer
	in the Pearl Queen field. CBL indicates good bond in and above Queen sandstone. Disposal interval is 600 feed below the Seven Rivers Formation only other potential pay zone in the wells within the area of review. Underlying known productive formation in the area Bone Springs at 9,450' and Wolfcamp at 10,890'

EXHIBIT 1 – INJECTION APPLICATION SECTION III WELLBORE SCHEMATIC STIVASON FEDERAL #3 SWD (30-025-29544)

RAYBAW O	perating, LLC		UIC Permit Well
Lease _	Stivason Federal	Well No.	3
Field/Pool	Pearl Queen	API#:	30-025-29544
County	Lea	Location:	330' & 1,650' FEL
State	New Mexico	-	Sec 33-T19S-R34E
Spud Date	12/15/1986	GL:	3,691.9'
_		WBD	SWC 10-1-2025

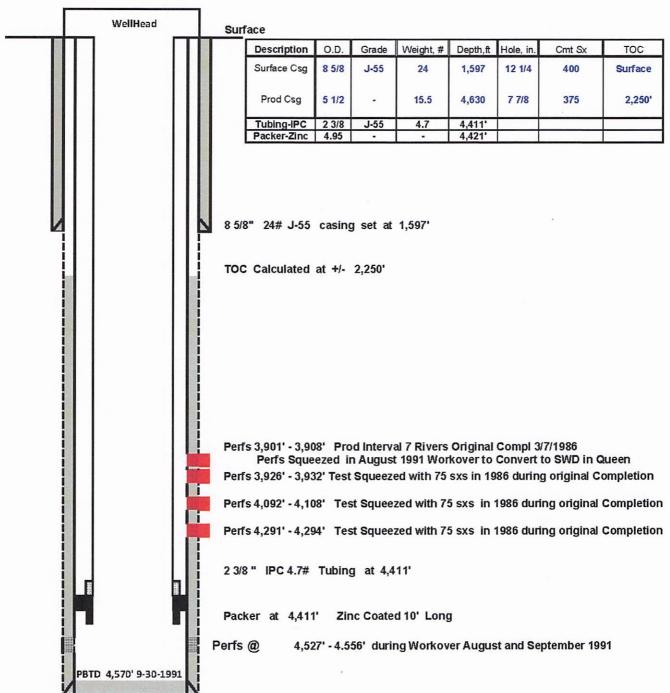


EXHIBIT 1A – INJECTION APPLICATION SECTION III WELL DATA STIVASON FEDERAL #3 SWD (30-025-29544)

Lease Name:

Lease: Stivason Federal (BLM NM-57285)
 Unit & Well No.: 3 SWD
 Section: 33 (Lot B)
 Township: 19 South

5. Range: 34 East 6. Footage: 330' FNL, 1,650' FEL

Casing Data:

1. 8-5/8" 24# J-55 @1,597' w/400 sxs cmt. Howco Lite and tailed in with 150 sxs Cl "C" 2% CaCl, 1/4# floseal. (Circulated 25 sxs to pit. TOC @ Surface'). (12-1/4" hole)

2. 5-1/2" 15.5# @4,630' w/375 sxs cmt Cl "C" (TOC Calculated @ +- 2,250' (7-7/8" hole).

Tubing Data:

1. 2-7/8" 4.7# IPC tubing at 4,411' (run from surface to the packer). Bottom packer set at 4,421'

Packer Data:

1. 4.95" O.D. Zinc Coated 10' long set at 4,411'

Injection Data:

- The Stivason Federal #3 SWD was originally drilled and completed as a gas producer on 5/5/1986 in the Seven Rivers Formation from the interval 3,901'-3,908'. Other intervals test prior to the above completion were 4,527'-4,536' (made water) isolated by bridge plug, 4,291'-4,294' & 4,092' – 4,108' squeezed perfs with 75 sacks cement; 3,926'-32' squeezed perfs with 75 sacks of cement. Well last produced hydrocarbons 11/01/1991.
- 2. Under Administrative Order SWD 420, dated/approved May 22, 1991 (applicant Strata Production Company) the well was authorized to be utilized as a disposal well. Interval approved for injection was from 4,527' to 4,556' (Queen Formation).
- 3. The Stivason Federal #3 SWD actively injected through August 2018.
- 4. The Stivason Federal #3 SWD is currently open into the Queen Formation with perforations from 4,527' to 4,536' and 4,546' to 4,556'.

Perforations:

a. Squeeze perfs: 3,901'-3,908' Sqz'd with 75 sxs cmt Cl "C" (8/27/1991)
b. Squeeze perfs: 3,926'-3,932' Sqz'd with 75 sxs cmt Cl "C" (3/1986)
c. Squeeze perfs: 4,527'-36' & 4,092'-108' Sqz'd with 75 sxs cmt Cl "C" (3/1986)
d. Queen perfs: 4,527'-4,556' Current injection perfs (9/3/1991)

Next Higher and Lower Productive Zone In Area:

a. Seven Rivers: 3,901' Top of formation depth

b. Nothing productive at a more shallow depth

EXHIBIT 2 - INJECTION APPLICATION SECTION V - AOR WELLS MAP - 1/2 MILE RADIUS STIVASON FEDERAL #003 SWD

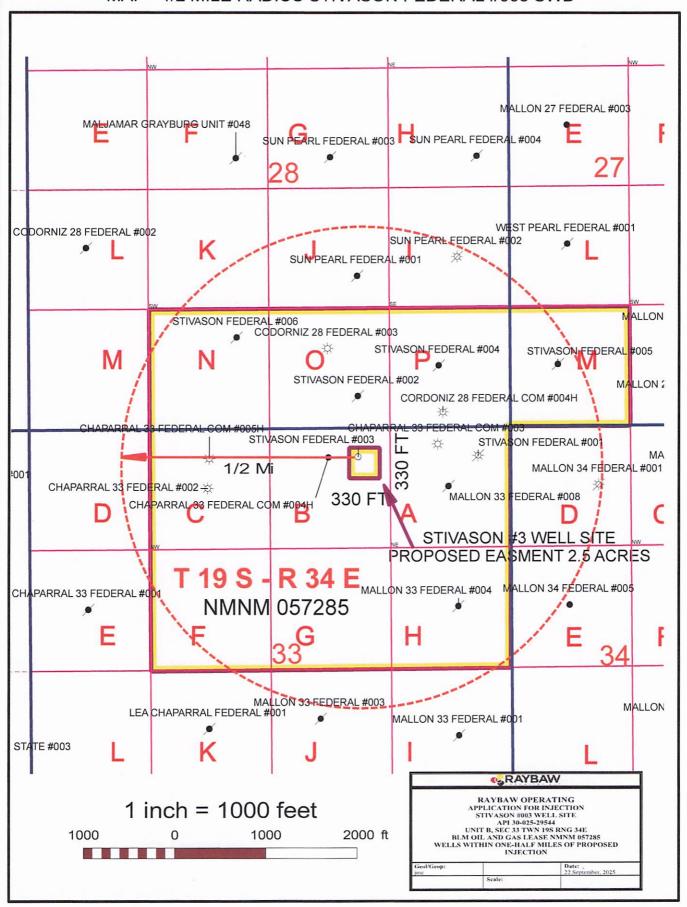


EXHIBIT 2a - INJECTION APPLICATION SECTION V - REVIEW AREA MAP - 2 MILE & 1/2 MILE RADIUS CENTER ON STIVASON FEDERAL #003 SWD

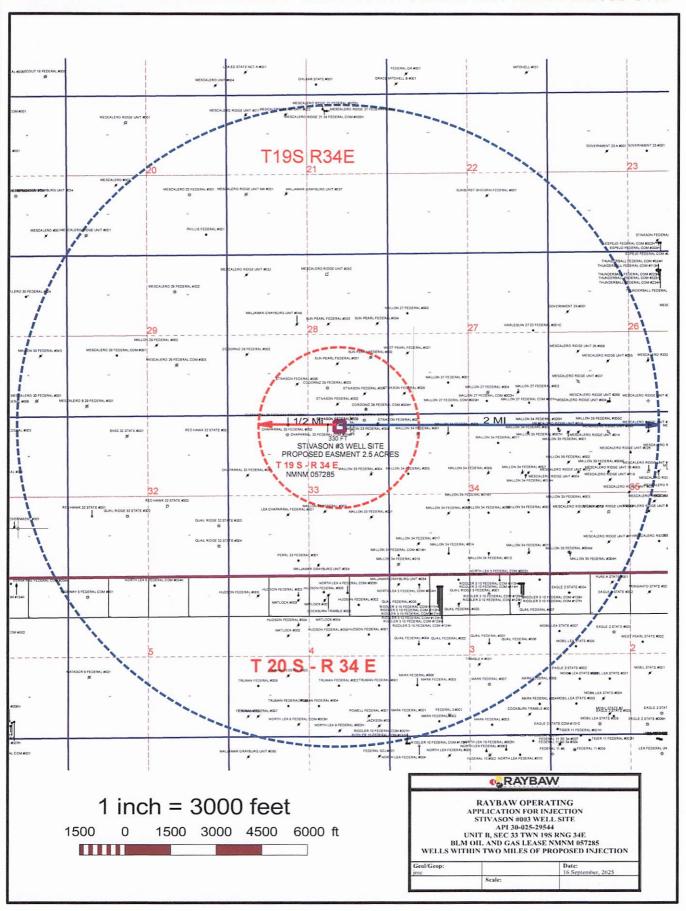
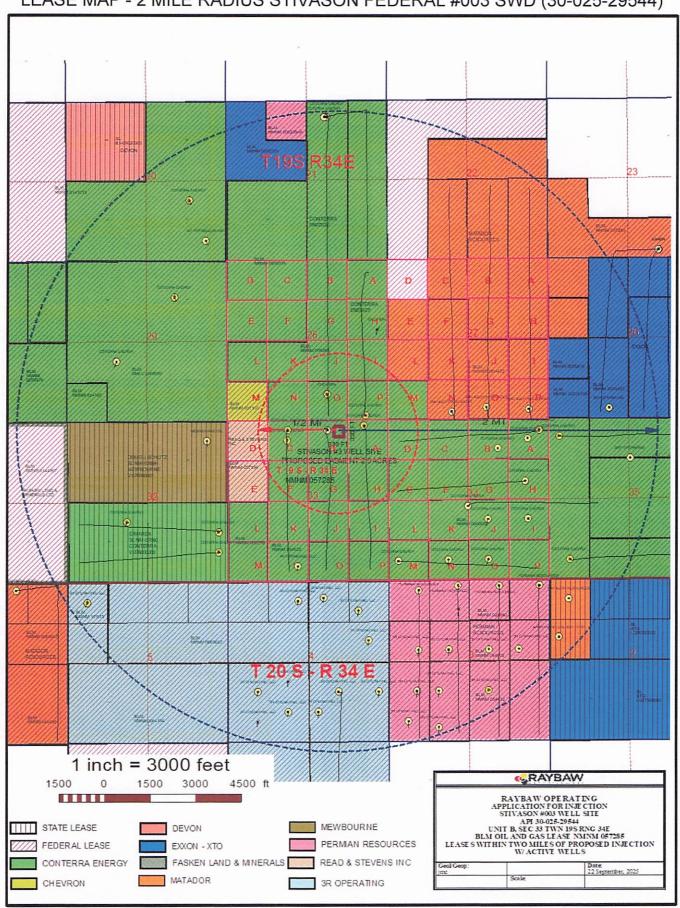


EXHIBIT 2b - INJECTION APPLICATION SECTION V LEASE MAP - 2 MILE RADIUS STIVASON FEDERAL #003 SWD (30-025-29544)



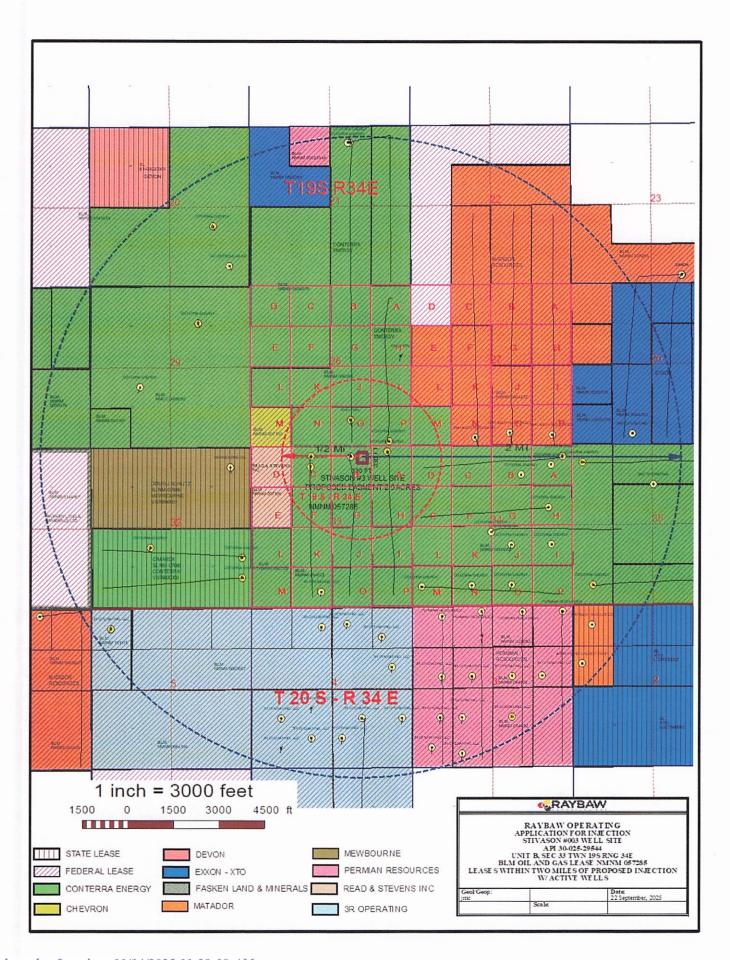


EXHIBIT 2c - INJECTION APPLICATION SECTION V LEASE MAP - 1/2 MILE RADIUS STIVASON FEDERAL #003 SWD (30-025-29544)

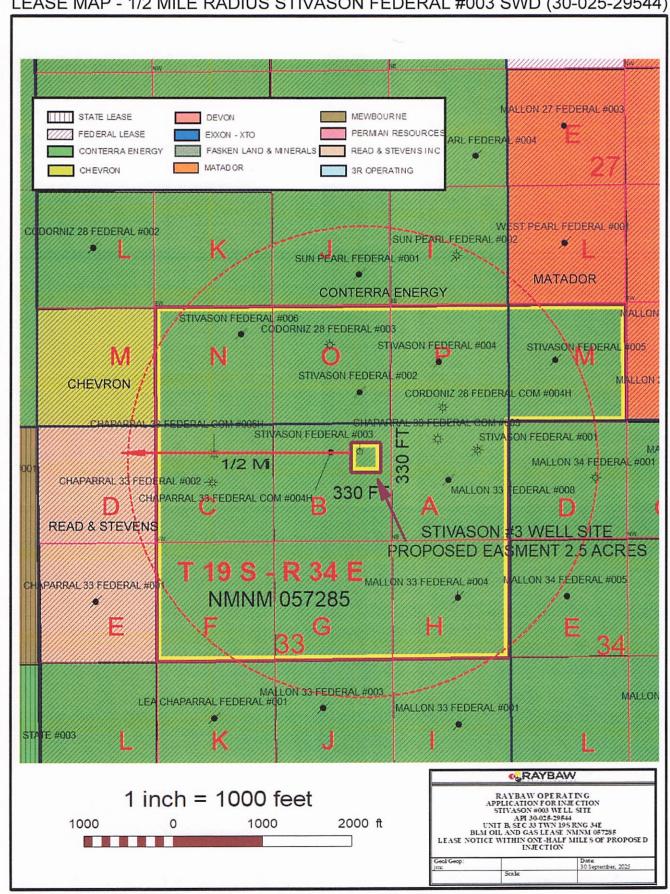


EXHIBIT 2 - INJECTION APPLIATION SECTION VI - AOR WELLS STIVASON FEDERAL #003 SWD (30-025-29544) AREA OF REVIEW - OFFSET WELLS - 1/2 MILE RADIUS

	Section 27 Township 19 South Range 34 East														
Unit Letter	API#	Туре	Lease/Well Name	Well No	Operator	MTD	TVD	Class	Status	Penetrates Injection Interval	Comp Date	Upr Perf	Lwr Perf	Comp Formation	Well Bore Diagram
М	3002530725	٧	STIVASON FEDERAL	5	CRESCENT ENERGY CO	4955	4954	OIL	P & A	YES	12/18/1989	4794	4844	QUEEN	YES

					Section 28 Townsh	nip 19	South	n Rang	ge 34 Eas	t					
Unit Letter	API#	Туре	Lease/Well Name	Well No	Operator	MTD	TVD	Class		Penetrates Injection Interval	Comp Date	Upr Perf	Lwr Perf	Comp Formation	Well Bore Diagram
B,G,J,0	3002550724	Н	MESCALERO RIDGE 21 28 FED COM	002H	COTERRA ENERGY	20679	10873	OIL	ACTIVE	YES	2/1/2023			BONE SPRING, S	
Р	3002541834	Н	CORDONIZ 28 FEDERAL COM	004H	COTERRA ENERGY	15386	10811	GAS	ACTIVE	YES	10/15/2014	10880	15355	BONE SPRING, S	
0	3002537523	٧	CODORNIZ 28 FEDERAL	3	CHEVRON	13750	13750	GAS	ACTIVE	YES	2/24/2006	13276	13394	MULTIPLE	
1	3002530663	>	SUN PEARL FEDERAL	2	CHEVRON	5153	5153	GAS	P & A	YES	1/1/1990	4520	4835	QUEEN	YES
Р	3002530629	>	STIVASON FEDERAL	4	CRESCENT ENGY CO	5067	5066	OIL	P & A	YES	7/21/1989	4508	4531	QUEEN	YES
J	3002530409	>	SUN PEARL FEDERAL	1	CHEVRON	5152	5152	OIL	P & A	YES	6/26/1989	5070	5080	QUEEN	YES
0	3002529070	٧	STIVASON FEDERAL	2	STRATA PRODUCTION	4610	4610	OIL	P & A	YES	2/1/1985	4523	4531	QUEEN	YES
N	3002502397	٧	STIVASON FEDERAL	6	STRATA PRODUCTION	5805	5805	OIL	D&A	YES	12/17/1959			NONE	YES

	Section 33 Township 19 South Range 34 East														
Unit Letter	API#	Туре	Lease/Well Name	Well No	Operator	MTD	TVD	Class	Status	Penetrates Injection Interval	Comp Date	Upr Perf	Lwr Perf	Comp Formation	Well Bore Diagram
С	3002541879	Ξ	CHAPARRAL 33 FEDERAL COM	005H	COTERRA ENERGY	15129	10835	GAS	ACTIVE	YES	12/5/2014	10720	15100	BONE SPRING, S	
В	3002540328	H	CHAPARRAL 33 FEDERAL COM	004H	COTERRA ENERGY	15306	10846	OIL	ACTIVE	YES	8/24/2013	10620	15273	BONE SPRING, S	
Α	3002540253	I	CHAPARRAL 33 FEDERAL COM	3	COTERRA ENERGY	15302	10851	GAS	ACTIVE	YES	12/18/2012	11100	15225	BONE SPRING, S	
C _.	3002536403	>	CHAPARRAL 33 FEDERAL	2	COTERRA ENERGY	13800	13800	GAS	ACTIVE	YES	12/11/2003	13352	13407	MORROW (GAS)	
Α	3002534156	>	MALLON 33 FEDERAL	8	COTERRA ENERGY	10281	10281	OIL	P & A	YES	2/3/1998	9686	10210	BONE SPRING, S	YES
Н	3002534114	٧	MALLON 33 FEDERAL	4	COTERRA ENERGY	10302	10302	OIL	P & A	YES	11/23/1997	9674	9686	MULTIPLE	YES
В	3002529544	٧	STIVASON FEDERAL	3	RAYBAW OPERATING	4630	4630	SWD	INACTIVE	YES	3/13/1986	3901	3932	QUEEN	YES
Α	3002528745	>	STIVASON FEDERAL	1	GRIZZLY ENERGY	5207	5207	GAS	P & A	YES	6/6/1987	4511	5028	QUEEN; PENROSE	YES

	Section 34 Township 19 South Range 34 East														
Unit Letter	API#	Туре	Lease/Well Name	Well No	Operator	MTD	TVD	Class	Status	Penetrates Injection Interval	Comp Date	Upr Perf	Lwr Perf	Comp Formation	Well Bore Diagram
Α	3002540135	Н	MALLON 34 FEDERAL	020H	COTERRA ENERGY	15352	10870	GAS	ACTIVE	YES	11/2/2011	10702	12909	BONE SPRING, S	
D	3002532605	٧	MALLON 34 FEDERAL	1	COTERRA ENERGY	6036	6306	GAS	P & A	YES	10/6/1994	5094	5138	SAN ANDRES	YES

EXHIBIT 3a APPLICATION SECTION VI WELLBORE SCHEMATIC STIVASON FEDERAL #5 (30-025-30725) Unit M S27 T19S R34E

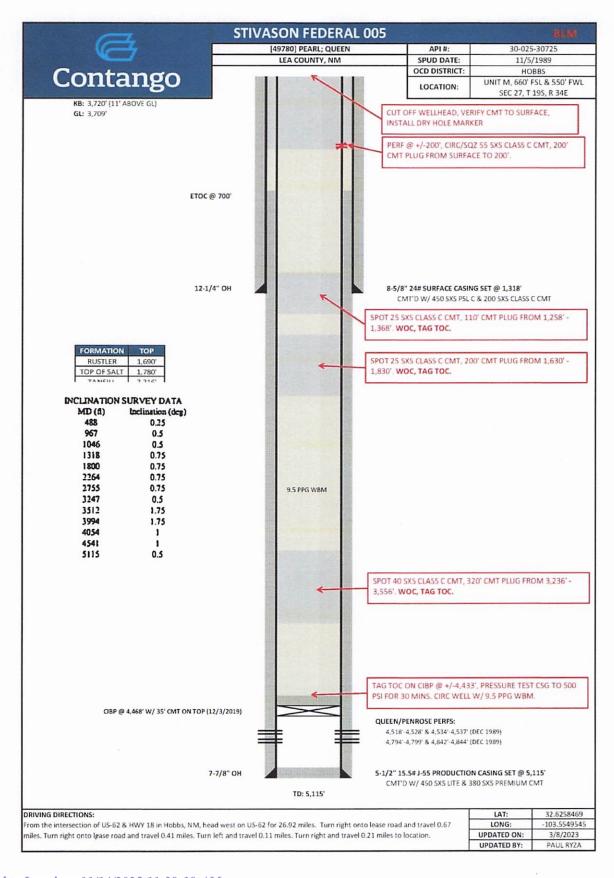
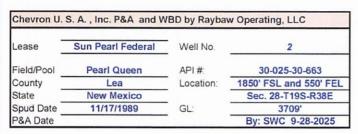


EXHIBIT 3b APPLICATION SECTION VI WELLBORE SCHEMATIC SUN PEARL FEDERAL #2 (30-025-30663) Unit I S28 T19S R34E



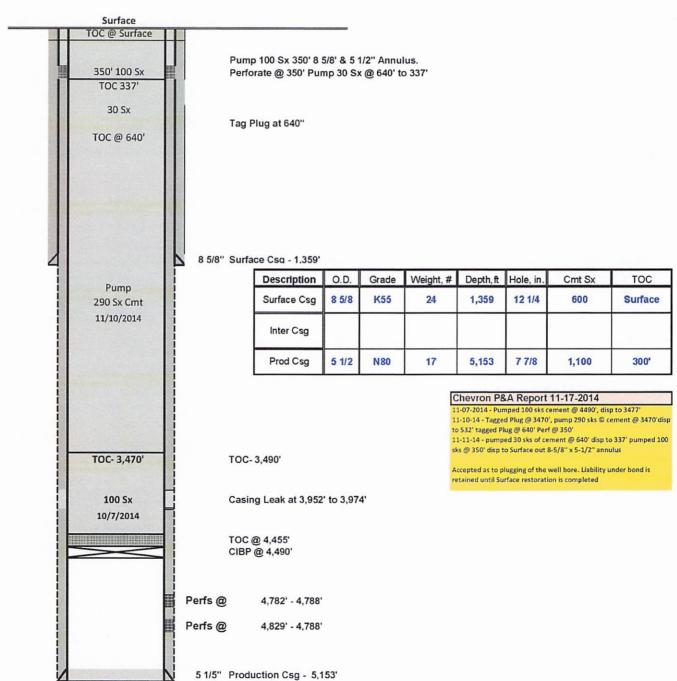


EXHIBIT 3c APPLICATION SECTION VI WELLBORE SCHEMATIC STIVASON FEDERAL #4 (30-025-30629) Unit P S28 T19S R34E

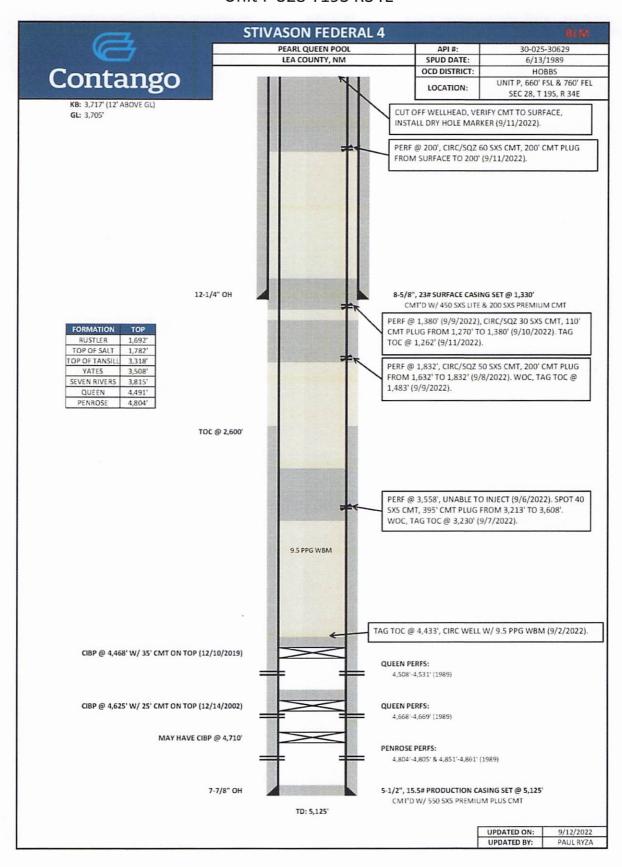


EXHIBIT 3d APPLICATION SECTION VI WELLBORE SCHEMATIC SUN PEARL FEDERAL #1 (30-025-30409) Unit J S28 T19S R34E

Chevron U.	S.A. , Inc	Raybaw Operating, Inc.			
Lease	Sun Pearl Federal	Well No.	1		
Field/Pool	Pearl Queen	API#:	30-025-30409		
County	Lea	Location:	1650 FSL & 1650 FEL		
State	New Mexico	5	Sec. 23-T19S-R34E		
Spud Date	6/2/1989	GL:	3,700.4 feet		
P&A Date	11/15/2016		By: SWC 9-29-2025		

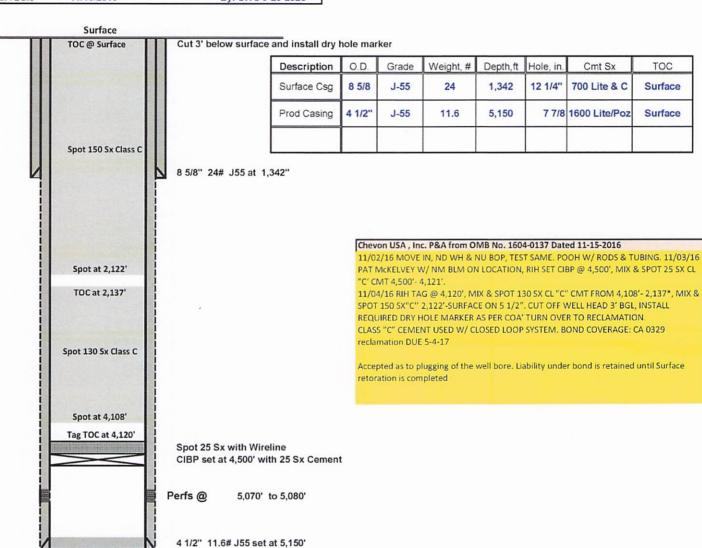
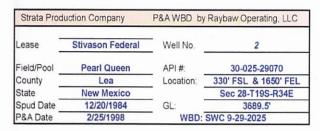
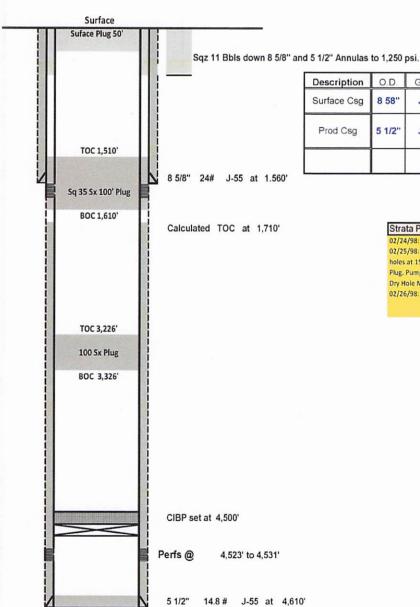


EXHIBIT 3e APPLICATION SECTION VI WELLBORE SCHEMATIC STIVASON FEDERAL #2 (30-025-29070) Unit J S28 T19S R34E





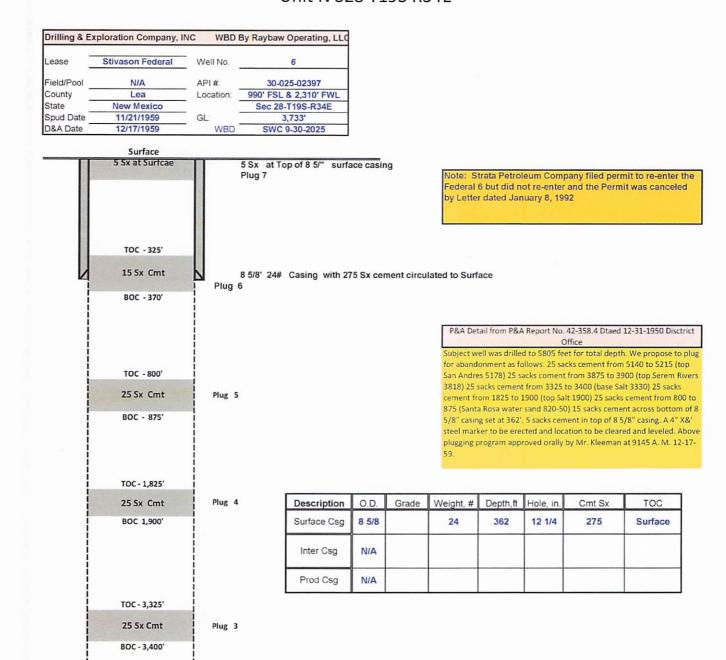
Description	O.D.	Grade	Weight, #	Depth,ft	Hole, in.	Cmt Sx	TOC
Surface Csg	8 58"	J-55	24	4,610	12 1/4	550 Lite & C	Surface
Prod Csg	5 1/2"	J-55	14.8	4,610	7 7/8	450 Lite & C	Calc 1,710'

Strata Production Co. Form 1004-01354-15-1998

02/24/98: MIRU pulling unit. TOH with tubing. TIH with CIBP. Set at 4500'.
02/25/98:Set First Plug at 3326'-3226', 100', with 25 sacks Class "C" Neat cement. Perf squeeze holes at 1565'. Squeeze 100' plug across 8 5/8" casing shoe with 35 sacks cement. Set 50' Surface Plug. Pump 11 barrels cement between 8 5/8" casing and 5 1/2" casing. Squeeze to 1250#. Install

Dry Hole Marker. Plugging witnessed by Steve Caffey with the Hobbs BLM. 02/26/98: RD. Clean location. Well plugged and abandoned. Approved well bore.

EXHIBIT 3f APPLICATION SECTION VI WELLBORE SCHEMATIC STIVASON FEDERAL #6 (30-025-02397) Unit N S28 T19S R34E



TOC - 3,800°

BOC - 3.875

TOC - 5,215'

BOC - 5,140°

TD- 5,805'

Plug 2

Plug 1

TD at 5,805' with 77/8" Hole

EXHIBIT 3g APPLICATION SECTION VI WELLBORE SCHEMATIC MALLON 33 FEDERAL #8 (30-025-34156) Unit A S33 T19S R34E

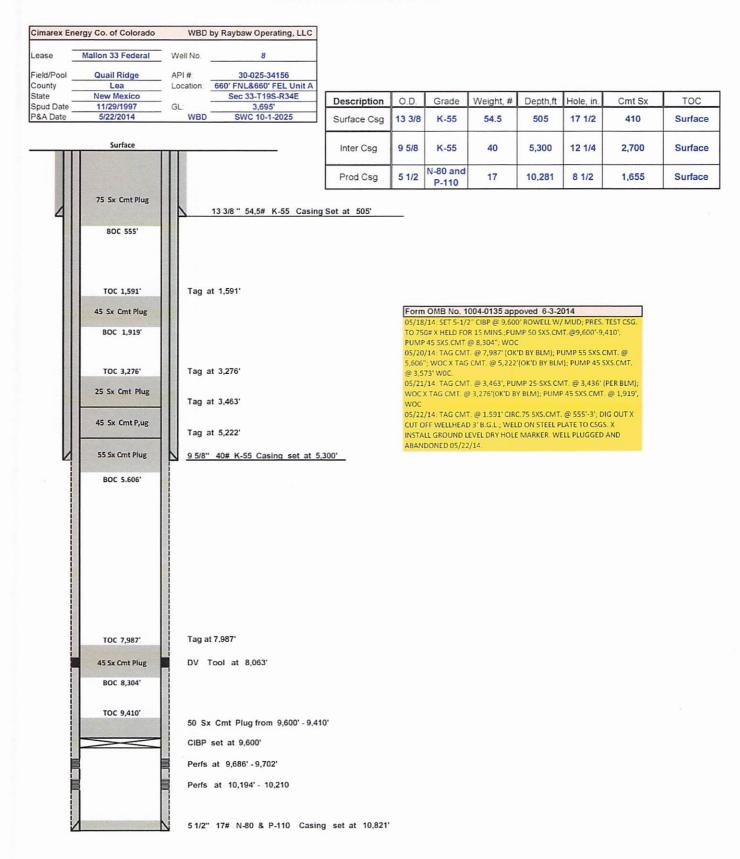


EXHIBIT 3h APPLICATION SECTION VI WELLBORE SCHEMATIC MALLON 33 FEDERAL #4 (30-025-34114) Unit H S33 T19S R34E

Cimarex En	ergy Co. of Colorado	WBD by Raybaw Operating, LLC			
Lease	Mallon 33 Federal	Well No.	4		
Field/Pool	Quail Ridge	API#:	30-025-34114		
County	Lea	Location:	1980' FNL & 560' FEL-Unit H		
State	New Mexico		Swc 33-T19S-R34E		
Spud Date	9/10/1997	GL:	3,668.60		
P&A Date	4/10/2019	WBD	SWC 10-1-2025		

	15 Sx Cmt Plug				Description	O.D.	Grade	Weight, #	Depth,ft	Hole, in.	Cmt Sx	тос
	BOC Cmt Plug				Surface Csg	9 5/8	-	40	1,515	14 3/4	1,050	Surface
					Prod Csg	5 1/2	N-8-0	17	10,302	8 3/4	2,375	Surface
	TOC 1,310'		Tag Plug a	at 1,310'								
И	60 Sx Cmt Plug	V	9 5/8" 40#	Casing set	at 1,515'							
i	BOC 1,885'										d 4-11-2019]
i	TOC 3,445'		Tag Plug a	at 3,445'		SXS.CMT	@ 9,650'-9				F: PUMP 25 8,144'; PUMP 25	5
i	25 Sx Cmt Plug					04/06/19		. @ 7,680' (O				
	BOC 3,445'	i				(OK'D BY	BLM);				MT. @ 3,445'	
	TOC 5,504					BY BLM)	: CIRC TO SI	URF 15 SXS. CI	MT. @ 100'-	3';	T. @ 1.310'(OK'	D
	75 Sx Cmt Plug	i				PLATE TO	CSG. X INS		GROUND D		ARKER. WELL	
	TOC 6,071'					PLUGGE	D AND ABA	NDONED 04/1	10/19.			
	TOC 7,680' 25 Sx Cmt Plug		Tag Plug a	t 7,680'								
	25 Sx Cmt Plug BOC 7,885'		Tag Plug a	t 7,680°								
	25 Sx Cmt Plug BOC 7,885' TOC 8,144'		Tag Plug a	t 7,680°								
	25 Sx Cmt Plug BOC 7,885' TOC 8,144' 25 Sx Cmt Plug		Tag Plug a	t 7,680'								
	25 Sx Cmt Plug BOC 7,885' TOC 8,144'		Tag Plug a	t 7,680°								
	25 Sx Cmt Plug BOC 7,885' TOC 8,144' 25 Sx Cmt Plug		Tag Plug a	t 7,680'								
	25 Sx Cmt Plug BOC 7,885' TOC 8,144' 25 Sx Cmt Plug BOC 8,324'		Tag Plug a	t 7,680°								
	25 Sx Cmt Plug BOC 7,885' TOC 8,144' 25 Sx Cmt Plug BOC 8,324' TOC 9,210'		Tag Plug a									

5 1/2" 17# N-80 Casing set at 10,302'

EXHIBIT 3i APPLICATION SECTION VI WELLBORE SCHEMATIC STIVASON FEDERAL #3 (30-025-29544) Unit B S33 T19S R34E

RAYBAW O	perating, LLC		UIC Permit Well	
Lease _	Stivason Federal	Well No.	3	
Field/Pool	Pearl Queen	API#:	30-025-29544	
County	Lea	Location:	330' & 1,650' FEL	
State	New Mexico	•	Sec 33-T19S-R34E	
Spud Date	12/15/1986	GL:	3,691.9'	
· ·		WBD	SWC 10-1-2025	

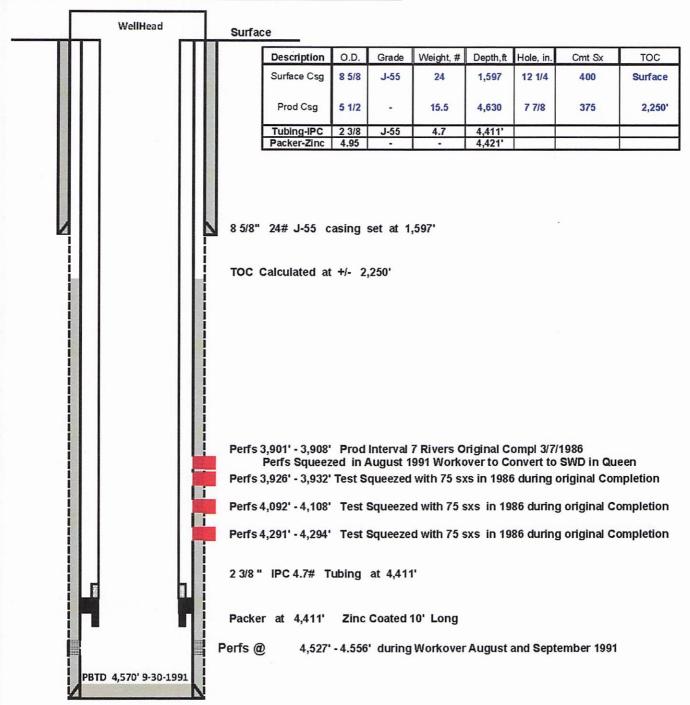
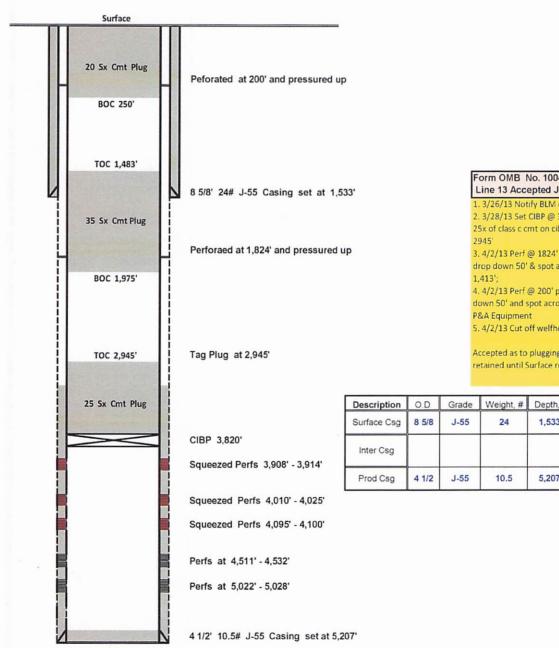


EXHIBIT 3j APPLICATION SECTION VI WELLBORE SCHEMATIC STIVASON FEDERAL #1 (30-025-28745) Unit A S33 T19S R34E

Vanguard P	ermian, LLC	WBD Raybaw Operating , LLC			
Lease _	Stivason Federal	Well No.	1		
Field/Pool	Queen	API#:	30-025-28745		
County	Lea	Location:	330' FNL & 330' FEL Unit A		
State	New Mexico	_	Sec 33-T19S-R34E		
Spud Date	5/31/1984	GL:	3.694.9'		
P&A Date	4/2/2013	WBD	SWC 10-2-2025		

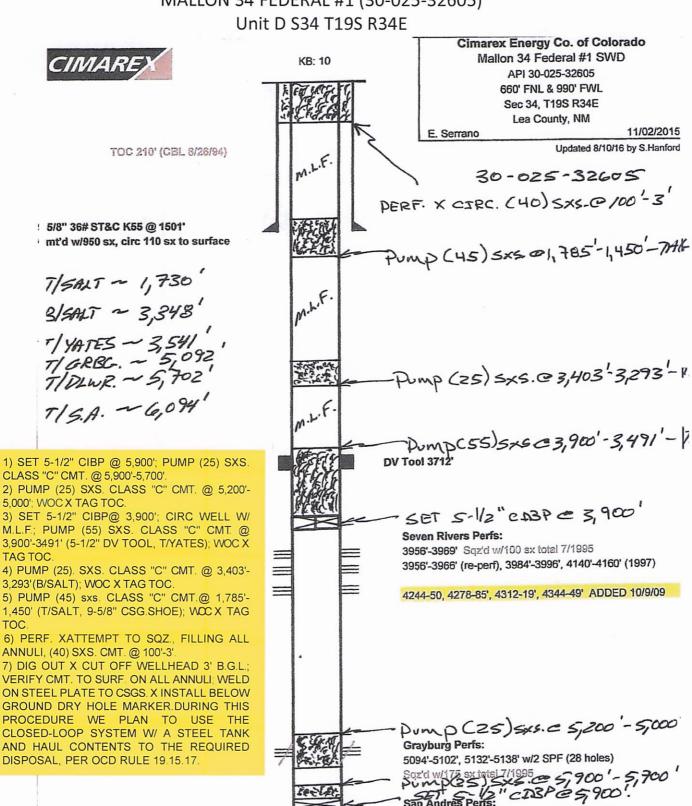


- 1. 3/26/13 Notify BLM of move in of P & A equipment
- 2. 3/28/13 Set CIBP @ 3820' circ 60 bbls of mlf w/ brine spot 25x of class c cmt on cibp 3820'; spot 25x 3360'-3230' tag @
- 3. 4/2/13 Perf @ 1824' pressured up_call Pat @ BLM witness. drop down 50' & spot across spot 35X 1,875'-1,483' tag @
- 4. 4/2/13 Perf @ 200' pressured up Notified Pat w/ BLM drop down 50' and spot across spot 20X class c cmt 250'-surf RD
- 5. 4/2/13 Cut off welfheads, install dry hole marker plate.

Accepted as to plugging of the well bore. Liability under bond is retained until Surface restoration is completed

Description	O.D	Grade	Weight, #	Depth,ft	Hole, in.	Cmt Sx	TOC
Surface Csg	8 5/8	J-55	24	1,533	12 1/4	600 Lite&C	Surface
Inter Csg							
Prod Csg	4 1/2	J-55	10.5	5,207	7 7/8	600	3,504'

EXHIBIT 3k APPLICATION SECTION VI WELLBORE SCHEMATIC MALLON 34 FEDERAL #1 (30-025-32605)



secult.

San Andres Perfs:

PBTD: 6260' TD: 6306'

6180'-6186', 6218'-6260'

5986'-6010', 6094'-6112' w/2 SPF (84 holes) 8/94

5937-45', 6136-60', 6190-6206' ADDED 10/9/09

i 1/2" 15.5# LT&C J55 @ 6306' 'mt'd w/1410 sx, TOC 210' (CBL 8/26/94)

TOC

EXHIBIT 5 – INJECTION APPLICATION SECTION VIII WELLBORE SCHEMATIC STIVASON FEDERAL #3 SWD (30-025-29544)

Well: Stivason Federal #3 SWD Operator: Raybaw Operating, LLC

API: 30-025-29544

Legal: Unit Letter "B", Section 33, Township 19 South, Range 34 East

330' FNL, 1,650' FEL, Lea County, New Mexico

Proposed disposal zone is in the Upper Queen Formation with injection occurring from currently open perforation at 4,527' to 4,556'. Last filed disposal was August 2018. Injection was previously active and authorized under Administrative Order SWD-420 dated May 22, 1991. The overall interval is laterally extensive 30 foot thick sandstone with porosities of 18 to 22%. Originally on test this zone tested 100% water with no shows of hydrocarbons. Top of cement calculations indicates isolation in and above the zone with the top of the interval 600 feet below the only other potential pay zone in the Area Of Review.

Lease Number: BLM NM-057285

Geologic Name of Surface Formation:

• Quaternary Alluvium

Geologic Zones

	Formation	Depth (MD)	Depth (SS)	Lithology
•	Quaternary Alluvium	0'		
•	Rustler	1,684'	2,019'	Red Beds
•	Top of Salt	1,774'	1,929'	Anhydrite
•	Base of Salt	3,310′	393'	Anhydrite
•	Yates	3,500'	203'	Sandstone
•	Seven Rivers	3,807'	-104′	Dolo/Sandstone
•	Queen	4,487'	-780′	Sandstone
•	TD	4.630′		

Depth of Fresh water

	Formation	Depth
•	Quaternary Alluvium	300'
•	Base of Fresh Water	1,100'

The surface fresh water sands are protected by 8-5/8" surface casing set at 1,597' with cement circulated back to surface

SECTION VII EXHIBIT 4 PRODUCED WATER FOR INJECTION



DownHole SAT®

WATER CHEMISTRY

RAYBAW OPERATING LLC

JODY FORTNER LEA NM MALACHITE 22 FEDERAL 1H

WELLHEAD

Report Date: Sample #:

09-29-2025 6311 Sampled: 09-23-2025 at 0000

Sample ID: 423537

CATIONS		ANIONS		
Calcium (as Ca)	1228	Chloride (as CI)		87988
Magnesium (as Mg)	270.15	Sulfate (as SO ₄)		452.68
Barium (as Ba)	1.45	Bromine (as Br)		0.00
Strontium (as Sr)	330.22	Dissolved CO ₂ (as CO ₂)		200.00
Sodium (as Na)	54738	Bicarbonate (as HCO ₃)		976.00
Potassium (as K)	1265	Carbonate (as CO ₃)		0.00
Lithium (as Li)	0.00	Oxalic acid (as C ₂ O ₄)		0.00
Ammonia (as NH ₃)	0.00	Silica (as SiO ₂)		0.00
Aluminum (as Al)	0.00	Phosphate(as PO ₄)		0.00
Iron (as Fe)	2.70	H ₂ S (as H ₂ S)		0.00
Manganese (as Mn)	0.100	Fluoride (as F)		0.00
Zinc (as Zn)	0.00	Nitrate (as NO ₃)		0.00
Lead (as Pb)	0.00	Boron (as B)		100.82
PARAMETERS		BOUND IONS	TOTAL	FREE
Calculated T.D.S.	157706	Calcium	1351	1277
Molar Conductivity	165605	Barium	1.60	1.60
Resistivity	6.04	Carbonate	71.46	0.620
Sp.Gr.(g/mL)	1.100	Phosphate	0.00	0.00
Pressure(atm)	1.00	Sulfate	497.95	250.21
pCO ₂ (atm)	0.0992			
pH ₂ S(atm)	0.00			
Temperature (^O F)	75.00	CORROSION RATE PRE	DICTION	
pН	6.80	CO ₂ - H ₂ S Rate(mpy)		0.129
	COMMENTS			
_		LEA NM		

SECTION VII EXHIBIT 4c PRODUCED WATER FOR INJECTION DOWNHOLE SAT®

WATER CHEMISTRY

RAYBAW OPERATING JODY FORTNER

LEA NM

ANASAZI 9 FEDERAL 1

WELLHEAD

Report Date:

10-09-2025

Sampled: 09-23-2025 at 0000

Sample #: 6311 Sample ID: 423812

CATIONS		ANIONS		
Calcium (as Ca)	464.32	Chloride (as Cl)		6156
Magnesium (as Mg)	59.72	Sulfate (as SO ₄)		30.45
Barium (as Ba)	4.54	Bromine (as Br)		0.00
Strontium (as Sr)	39.53	Dissolved CO ₂ (as CO ₂)		20.00
Sodium (as Na)	2972	Bicarbonate (as HCO ₃)		0.00
Potassium (as K)	370.17	Carbonate (as CO ₃)		0.00
Lithium (as Li)	0.00	Oxalic acid (as C ₂ O ₄)		0.00
Ammonia (as NH ₃)	0.00	Silica (as SiO ₂)		0.00
Aluminum (as Al)	0.00	Phosphate(as PO ₄)		0.00
Iron (as Fe)	168.47	H ₂ S (as H ₂ S)		0.00
Manganese (as Mn)	11.88	Fluoride (as F)		0.00
Zinc (as Zn)	0.00	Nitrate (as NO ₃)		0.00
Lead (as Pb)	0.00	Boron (as B)		73.12
PARAMETERS		BOUND IONS	TOTAL	FREE
Calculated T.D.S.	10785	Calcium	468.96	466.89
Molar Conductivity	15830	Barium	4.59	4.59
Resistivity	63.17	Carbonate	0.00	0.00
Sp.Gr.(g/mL)	1.010	Phosphate	0.00	0.00
Pressure(atm)	1.00	Sulfate	30.76	22.01
pCO ₂ (atm)	0.00			
pH ₂ S(atm)	0.00			
Temperature (^O F)	75.00	CORROSION RATE PRE	DICTION	
рH	6.10	CO ₂ - H ₂ S Rate(mpy)		0.00
	COMMENTS			
		LEA NM		

SECTION VII EXHIBIT 4d PRODUCED WATER FOR INJECTION DOWNHOLE SAT® C JACAM CATALYST

WATER CHEMISTRY

RAYBAW OPERATING LLC

JODY FORTNER LEA NM

CAPROCK 27 STATE FEDERAL COM # 1H

WELLHEAD

Report Date:

06-15-2023

Sampled: 06-01-2023 at 0000

Sample #: 6311 Sample ID: 333864

CATIONS		ANIONS		
Calcium (as Ca)	3660	Chloride (as CI)		145988
Magnesium (as Mg)	3034	Sulfate (as SO ₄)		1080
Barium (as Ba)	0.692	Bromine (as Br)		0.00
Strontium (as Sr)	161.90	Dissolved CO ₂ (as CO ₂)		290.00
Sodium (as Na)	83259	Bicarbonate (as HCO ₃)		146.40
Potassium (as K)	2647	Carbonate (as CO ₃)		0.00
Lithium (as Li)	0.00	Oxalic acid (as C ₂ O ₄)		0.00
Ammonia (as NH ₃)	0.00	Silica (as SiO ₂)		0.00
Aluminum (as Al)	0.00	Phosphate(as PO ₄)		0.00
Iron (as Fe)	49.94	H ₂ S (as H ₂ S)		0.00
Manganese (as Mn)	1.27	Fluoride (as F)		0.00
Zinc (as Zn)	0.00	Nitrate (as NO ₃)		0.00
Lead (as Pb)	0.00	Boron (as B)		149.88
PARAMETERS		BOUND IONS	TOTAL	FREE
Calculated T.D.S.	260355	Calcium	4264	4138
Molar Conductivity	279104	Barium	0.806	0.806
Resistivity	3.58	Carbonate	6.93	0.00666
Sp.Gr.(g/mL)	1.165	Phosphate	0.00	0.00
Pressure(atm)	1.00	Sulfate	1258	220.27
pCO ₂ (atm)	0.0443			
pH ₂ S(atm)	0.00			
Temperature (^O F)	75.00	CORROSION RATE PRE	DICTION	
pН	6.10	CO ₂ - H ₂ S Rate(mpy)		0.197
	COMMENTS			
		LEA NM		

SECTION VII EXHIBIT 4e PRODUCED WATER FOR INJECTION



DownHole SAT®

WATER CHEMISTRY

RAYBAW OPERATING LLC

JODY FORTNER

Report Date:

MAROON BELLS FEDERAL COM SB 1H

WELLHEAD

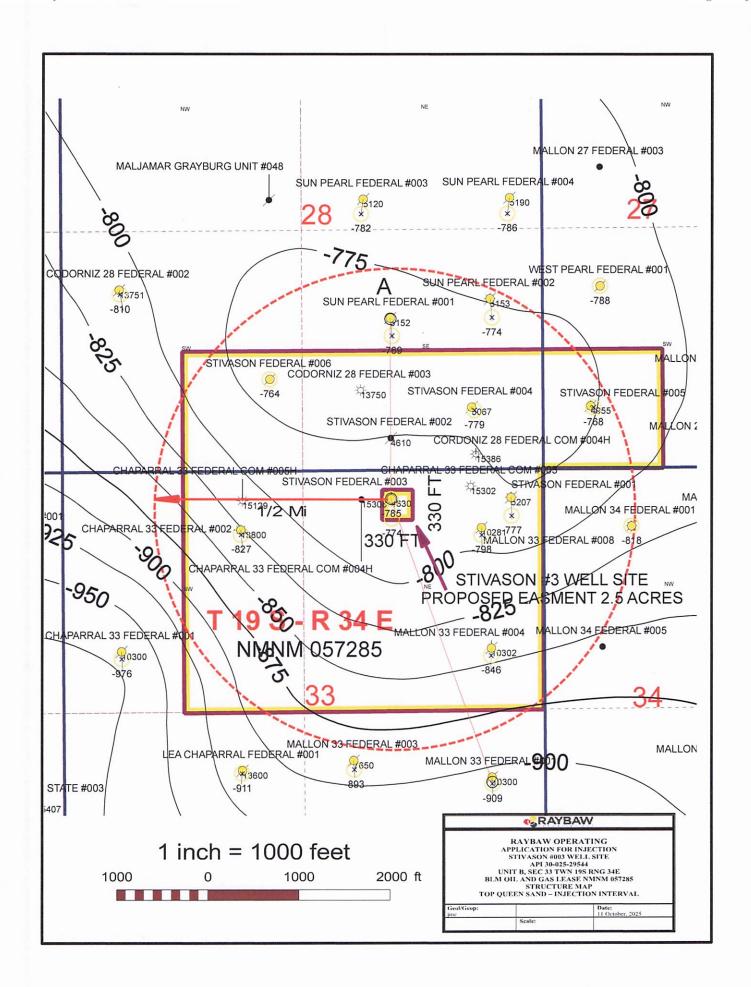
LEA NM

09-29-2025

Sampled: 09-23-2025 at 0000

Sample #: 6311 Sample ID: 423536

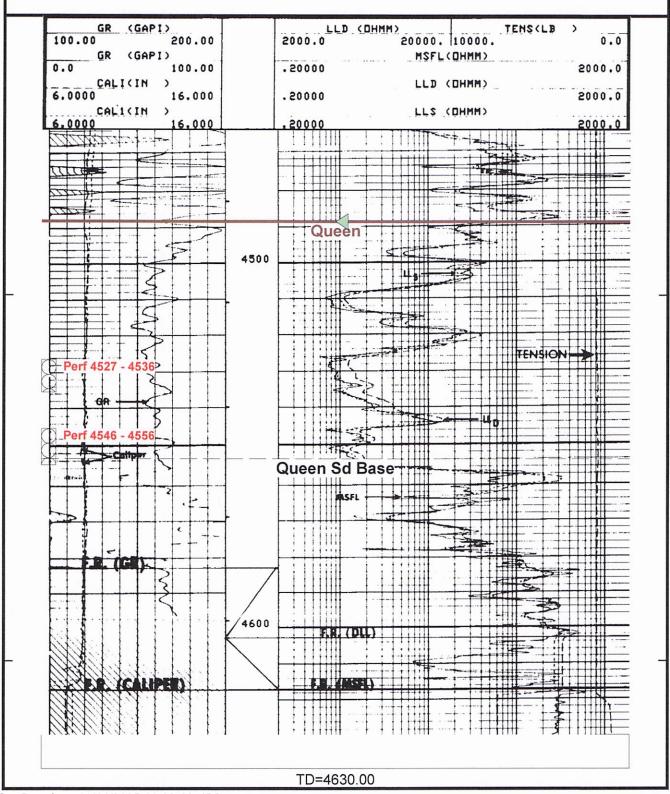
0.17000		41170110		
CATIONS	6262	ANIONS		000.40
Calcium (as Ca)	6262	Chloride (as CI)		90243
Magnesium (as Mg)	1031	Sulfate (as SO ₄)		1196
Barium (as Ba)	0.410	Bromine (as Br)		0.00
Strontium (as Sr)	256.47	Dissolved CO ₂ (as CO ₂)		100.00
Sodium (as Na)	49119	Bicarbonate (as HCO ₃)		244.00
Potassium (as K)	1198	Carbonate (as CO ₃)		0.00
Lithium (as Li)	0.00	Oxalic acid (as C ₂ O ₄)		0.00
Ammonia (as NH ₃)	0.00	Silica (as SiO ₂)		0.00
Aluminum (as Al)	0.00	Phosphate(as PO ₄)		0.00
Iron (as Fe)	24.18	H ₂ S (as H ₂ S)		0.00
Manganese (as Mn)	0.810	Fluoride (as F)		0.00
Zinc (as Zn)	0.00	Nitrate (as NO ₃)		0.00
Lead (as Pb)	0.00	Boron (as B)		179.12
PARAMETERS		BOUND IONS	TOTAL	FREE
Calculated T.D.S.	161274	Calcium	6907	6646
Molar Conductivity	159119	Barium	0.452	0.452
Resistivity	6.28	Carbonate	5.62	0.0457
Sp.Gr.(g/mL)	1.103	Phosphate	0.00	0.00
Pressure(atm)	1.00	Sulfate	1320	405.15
pCO ₂ (atm)	0.0481		•	
pH ₂ S(atm)	0.00			
Temperature (°F)	75.00	CORROSION RATE PRE	DICTION	
рН	6.40	CO ₂ - H ₂ S Rate(mpy)		0.0987
•	COMMENTS			
		LEA NM		



STIVASON FEDERAL #003 SWD TYPE SECTION - QUEEN INJECTION INTERVAL

3002529544

RAYBAW OPERATING, LLC STIVASON FEDERAL 003 TWP: 19 S - Range: 34 E - Sec. 33





2626 Cole Avenue, Suite 300 Dallas, Texas 75204 214-600-9185

Subject

C-108 Application for Authorization to inject.

Raybaw Operating, LLC Stivason Federal #3 SWD

Unit Letter "B", Section 33, Township 19 South, Range 34 East

330' FNL, 1,650' FEL, Lea County, New Mexico

Raybaw Operating, LLC has examined available geological and engineering data and finds no evidence of open faults or any other hydrological connection between the disposal zone and any underground sources of drinking water.

Jack Carter

Consulting Geologist/Landman

Raybaw Operating, LLC

Date 10/15/2025

EXHIBIT "7"

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 October 23, 2025 and ending with the issue dated October 23, 2025.

Publisher

Sworn and subscribed to before me this 23rd day of October 2025.

My commission expires August 09, 2029

PAULA GUELL-RISING Notary Public State of New Mexico Comm. # 1135156 My Comm. Exp. Aug 9, 2029

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 publication has been made.

LEGAL NOTICE October 23, 2025

Cotoper 23, 2025

Salt Water Disposal Well Application
Lease Name of Application:
Lease: Stivason Federal #3
Location: Unit Letter "B", Section 33, Township
19 South, Range 34 East, Lea Co., NM
Footage Call: 330' FNL, 1,650' FEL
Contact Information for Application:
Raybaw Operating, LLC
2626 Cole Ave, Suite 300, Dalias, Texas 75204',
Contact Person: Tom Campbell, 713-540-0819;
Email: tom@oaktrg.com
Intended Purpose of Well:
The Stivason Federal #3 is a salt water disposal
well that was first approved to disposing of produced
water in 1991. The #3 is open in the Queen
Formation from 4,510' to 4,555'. Raybaw Operating
is seeking reinstatement of the injection permit to
continue to utilize the #3 as a salt water disposal
well.

well.

The minimum injection rate is expected to be approximately 400 barrels of water per day. The maximum injection rate is expected to be approximately 1000 barrels of water per day. Minimum injection pressure will be approximately 700 psi. The maximum injection pressure is expected to be 902 psi.

Any interested parties may file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87605, within 15 days.

67118566

00305530

ABBIE PSHIGODA **FLINT OAK ENERGY** 21105 EVA ST., STE. 220 MONTGOMERY, TX 77356



2626 Cole Avenue, Suite 300 Dallas, Texas 75204 214-600-9185

October 28, 2025

You have been identified as a party with oil and gas lease interests within one-half mile of the Stivason Federal #3 SWD, located 330' FNL & 1,650' FEL, Unit letter B of Section 33, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico

Raybaw Operating, 2626 Cole Avenue, Suite 300, Dallas, Texas 75204 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to reauthorize the Stivason Federal #3 SWD, API #30-025-29544, for salt water disposal. As a concerned party enclosed is a copy of NMOCD form C 108 application.

The plan is to take the currently shut-in well to active disposal with resuming injection of produced waters into the Queen Formation. The disposal interval would be through currently open perfs 4510' - 4555'. Estimated is a disposal rate of 700 BWPD with a maximum disposal rate of 1000 BWPD at a calculated disposal pressure 800 psi with a maximum disposal pressure of 902 psi.

All interested parties opposing the aforementioned must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Jack Carter 281-387-6515.

If you have no objections to the above mentioned Application, please sign on copy of this letter in the space provide and return to the undersigned by mail or email. My contact information is provided below.

Sincerely,

Jack Carter
Flint Oak Energy/Raybaw Operating, LLC
21105 Eva St., Suite 220
Montgomery, Texas 77356
Email: jack@oaknrg.com

W- H----N- Objections

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 526645

CONDITIONS

Operator:	OGRID:
NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE	264235
1220 S St Francis Dr	Action Number:
Santa Fe , NM 87504	526645
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
stacy.sandoval	None	11/14/2025