

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: COG Operating, LLC **OGRID Number:** 229137
Well Name: Littlefield 33 Federal SWD #1 **API:** _____
Pool: _____ **Pool Code:** _____

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐ Notice Complete☐ Application
Content
Complete

3) CERTIFICATION: I hereby certify that the information submitted with this application for
 administrative approval is **accurate** and **complete** to the best of my knowledge. I also
 understand that **no action** will be taken on this application until the required information and
 notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Brian Collins

Print or Type Name

Signature

13 May 2019

Date

575-748-6940

Phone Number

bcollins@concho.com

e-mail Address



May 13, 2019

MAY 16 2019 PM02:51

New Mexico Oil Conservation Division
Attn: Phillip Goetze
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

Dear Mr. Goetze:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the referenced well. Attached for your review is a copy of the C-108 application.

This well will be drilled as a Devonian/Silurian SWD well after C108 approval. The estimated top of the Devonian is 15185'. We're permitting the injection interval shallower and deeper than the prognosis just in case the formation tops are different than expected due to the lack of deep well control in this area.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brian Collins".

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

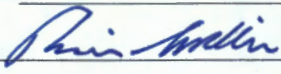
CORPORATE ADDRESS

ONE CONCHO CENTER | 600 WEST ILLINOIS AVENUE | MIDLAND, TEXAS 79701
P 432.683.7443 | F 432.683.7441

ARTESIA WEST OFFICE

2208 MAIN STREET | ARTESIA, NEW MEXICO 88210
P 575.748.6940 | F 575.746.2096

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: COG Operating, LLC
ADDRESS: One Concho Center, 600 W. Illinois Ave., Midland, TX 79701
CONTACT PARTY: Brian Collins PHONE: 575-748-6940
- 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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Brian Collins TITLE: Facilities Engineering Advisor
- SIGNATURE:  DATE: 13 May 2019
- E-MAIL ADDRESS: bcollins@concho.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

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

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

C-108 Application for Authorization to Inject
Littlefield 33 Federal SWD 1
1000' FSL, 370' FWL
Unit E, Section 33, T26S, R29E
Eddy County, NM

COG Operating, LLC, proposes to drill the captioned well to 16,500' for salt water disposal service into the Devonian/Silurian from approximately 15,000' to 16,500'.

Should this well undergo a mechanical integrity issue while in service in the future, it will be taken out of service immediately per UIC rules and repaired as quickly as possible. The water going to this well will be diverted to other SWD wells via pipeline if applicable; otherwise it will be trucked to other SWD wells. If necessary, producing wells serviced by this SWD well will be curtailed and/or shut-in until this well is repaired.

- V. Map is attached.
- VI. No wells within the 1 mile radius area of review penetrate the proposed injection zone.
- VII.
 - 1. Proposed average daily injection rate = 25,000 BWP
Proposed maximum daily injection rate = 40,000 BWP
 - 2. Closed system
 - 3. Proposed maximum injection pressure = 3000 psi
(0.2 psi/ft. x 15,000' ft.)
 - 4. Source of injected water will be Delaware, Bone Spring and Wolfcamp produced water. No compatibility problems are expected. Analyses of Delaware, Bone Spring and Wolfcamp waters from analogous source wells are attached. An appropriate chemical treatment program will be put in place should scale formation become apparent.
- VIII. The injection zone is the Devonian/Silurian, a mixture of non-hydrocarbon bearing limestone and dolomite from 15,000' to 16,500'. Any underground water sources will be shallower than 508', the estimated top of the Rustler Anhydrite. The estimated top of the Devonian is 15,185'. The proposed permitted injection interval has been expanded upwards and downwards to account for geologic uncertainty.
- IX. The Devonian/Silurian injection interval will be acidized with approximately 40,000 gals of 20 % HCl acid.
- X. Well logs will be filed with the Division. A log section from the Mewbourne Fuller 14 Federal SWD 1 located approximately 4 miles northeast in Section 14-26s-29e is attached.
- XI. There are no fresh water wells within a mile of the proposed SWD well. The Pecos River is about 3/4 mile to the east. A water analysis sampled at the low water crossing in Section 8-26s-29e is attached.
- XII. After examining the available geologic and engineering data, no evidence was found of open

faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Prin. Wallin

, Facilities Engineering Advisor,

13 May 2019

Seismicity potential statement is attached.

XIII. Proof of Notice is attached.

COG Operating LLC
Littlefield 33 Fed SWD #1
C-108 Attachment
May 2, 2019

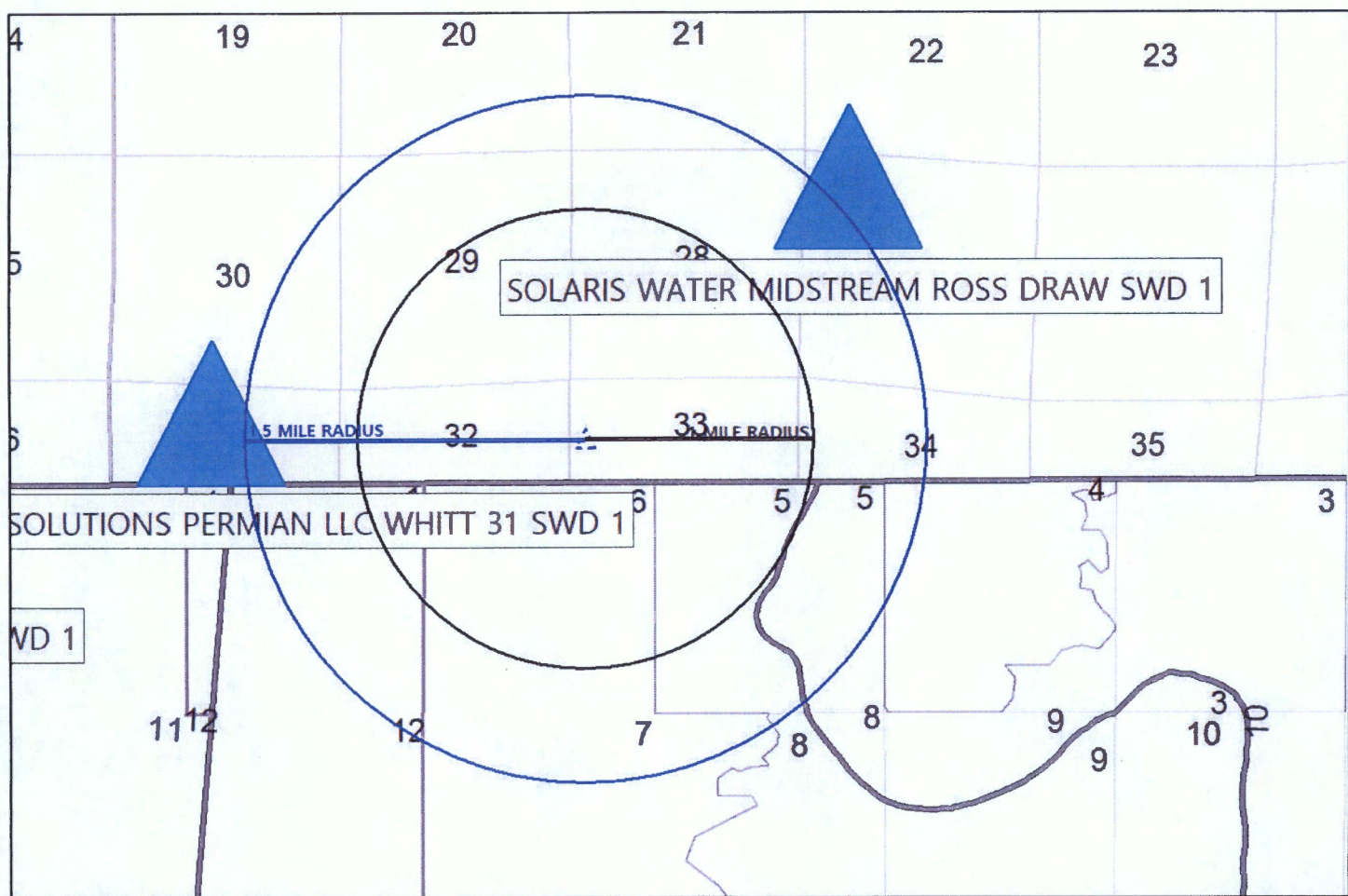
Statement Regarding Seismicity and Disposal Well Location.

The Littlefield 33 Fed SWD #1 is a new Devonian SWD well planned at location 1000' FSL & 370' FWL of Sec. 33, T26S R29E, Eddy County, NM. There no other active, permitted or pending Devonian SWD wells within a 1.0 mile radius of this location.

COG Operating, LLC has interpreted licensed 3D seismic data in the area around our proposed SWD. Our investigation of the deep formations does not indicate any faults or structures that would increase the chances of induced seismicity.

Regards,

Harvin L. Broughton
Geoscience Advisor
COG Operating LLC
hbroughton@concho.com
432-934-1238



Area map depicting the proposed location of the Littlefield 33 Fed SWD 1. Also included are 1.0 mile and 1.5 mile radius circles indicating notification area and SWD well spacing distance respectively. Offset SWD well proposals are shown to verify spacing requirements.

III.

WELL DATA

Zero:
KB elev:
GL elev: 2869'



INJECTION WELL DATA SHEET

Operator: COG Operating, LLC
Well Name & Number: Littlefield 33 Federal SWD 1
Well Location: 1000' FSL, 370' FWL, Unit E, Section 33, T26S, R29E

Wellbore Schematic: See attached schematic

Surface Casing:

Hole Size: 26"
Casing Size: 20" @ 525'
Cemented with: 1500 cubic feet
Top of Cement: Surface by design

Intermediate Casing:

Hole Size: 17-1/2"
Casing Size: 13-3/8" @ 2825'
Cemented with: 3900 cubic feet
Top of Cement: Surface by design

Intermediate Casing:

Hole Size: 12-1/4"
Casing Size: 9-5/8" @ 10000'
Cemented with: 4700 cubic feet
Top of Cement: Surface by design

Production Casing:

Hole Size: 8-1/2"
Casing Size: 7-5/8" liner @ 9800-15000'
Cemented with: 550 cubic feet
Top of Cement: Liner top by design

Injection Interval:

15000' to 16500' (6-1/2" open hole)

Injection Tubing/Packer:

Tubing Size: 5-1/2" 0-9700' inside 9-5/8" casing, 5" from 9700-14950' inside 7-5/8" casing
Lining Material: Internally plastic coated or internally fiberglass lined
Type of Packer: Nickel plated 10K double grip retrievable or permanent packer
Packer Setting Depth: 14950'
Other Type of Tubing/Casing Seal: Not Applicable

Additional Data:

1. Is this a new well drilled for injection? Yes
If no, for what purpose was well originally drilled? N/A
2. Name of Injection Formation: Devonian/Silurian
3. Name of Field or Pool (if applicable): SWD: Devonian
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. No
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Overlying: Possible Delaware 2850-6400', Bone Spring 6450-9850', Wolfcamp 9850-11800', possible Strawn 12425'+, possible Atoka 12650'+, possible Morrow 13125'+

Underlying: None

**Fishing Risk Assessment
Littlefield 33 Federal SWD 1**

Note: All fishing procedures are subject to well conditions. Expert judgement and experience are required and there are too many combinations of possible fishing operations options to list below. Fishing techniques are determined on a case-by-case, day-by-day basis.

5" Injection Tubing Inside of 7-5/8" Casing

7-5/8"/39ppf casing: ID = 6.625", Drift ID = 6.500"

5"/18ppf/L80/TCPC FG-lined injection tubing: Tube/body OD = 5.000", Cplg OD = 5.700"

Clearance between body OD of tubing and drift ID of casing = 1.500"

The proposed downhole configuration allows for effective, straightforward tubing fishing operations.

Tubing will have a floating seal assembly landed in seal bore extensions below the packer which will allow a simple straight pull to separate the tubing from the packer.

For washover operations:

- 6-3/8" washpipe: OD = 6.375", ID = 5.625", Drift ID = 5.500"
- OD of washpipe is less than drift ID of casing (6.500" drift ID vs 6.375" washpipe OD)
- Drift ID of washpipe is greater than OD of 5" tubing (5.500" drift ID vs 5.000" Tubing OD)
- Drift ID of washpipe is slightly less than coupling OD of 5" tubing (washpipe 5.500" drift ID vs 5.700" tubing coupling OD---0.200" difference). If necessary to wash over the coupling, would use a mill on the end of the washpipe to mill off the 0.200" dimensional difference in such a way:
 1. To allow a 6.625" Series 150 spiral grapple overshot turned down from 6.625" OD to 6.5" OD to catch the milled down coupling (mill coupling to 5.5" or less OD).
 2. To allow a 5.875" OD Series 150 spiral grapple overshot to catch the 5" body of the tubing (mill coupling to 5" tube OD).

For fishing operations with overshot:

- 5" tube/body can be fished with 5.875" OD Series 150 spiral grapple overshot (5.875" overshot OD vs 6.5" casing drift ID).
- 5.700" OD TCPC coupling can be milled down and fished as described above in "washover operations."

For fishing operations with spear:

- Fiberglass liner can be milled out, or torn out with a spear, to allow a releasable spear assembly to grasp the ID of the injection tubing.

**Fishing Risk Assessment
Littlefield 33 Federal SWD 1**

Note: All fishing procedures are subject to well conditions. Expert judgement and experience are required and there are too many combinations of possible fishing operations options to list below. Fishing techniques are determined on a case-by-case, day-by-day basis.

5-1/2" Injection Tubing Inside of 9-5/8" Casing

9-5/8"/53.5 ppf casing: ID = 8.535", Drift ID = 8.379"

5-1/2"/20ppf/P110/TCPC FG-lined injection tubing: Tube/body OD = 5.500", Cplg OD = 6.250"

Clearance between body OD of tubing and drift ID of casing = 2.879"

The proposed downhole configuration allows for effective, straightforward tubing fishing operations.

Tubing will have a floating seal assembly landed in seal bore extensions below the packer which will allow a simple straight pull to separate the tubing from the packer.

For washover operations:

- 7-3/8" washpipe: OD = 7.375", ID = 6.625", Drift ID = 6.500"
- OD of washpipe is less than drift ID of casing (8.379" drift ID vs 7.375" washpipe OD)
- Drift ID of washpipe is greater than OD of 5-1/2" tubing (6.500" drift ID vs 5.500" Tubing OD)
- Drift ID of washpipe greater than OD of 5-1/2" tubing coupling (6.500" drift ID vs 6.250" Tubing Coupling OD)

For fishing operations with overshot:

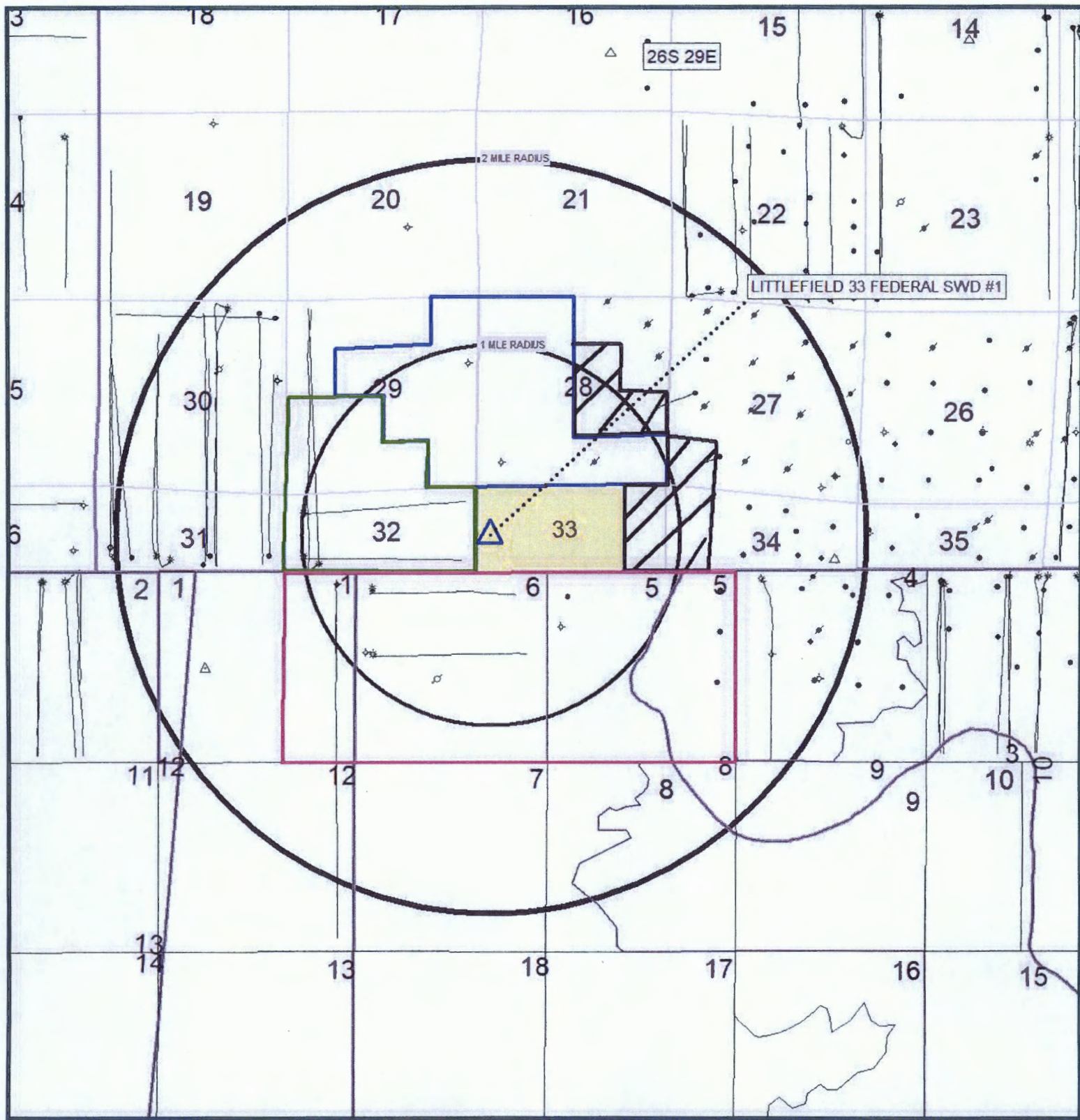
- 5-1/2" tube/body can be fished with 6.625" OD Series 150 spiral grapple overshot (6.625" overshot OD vs 8.379" casing drift ID).
- 6.250" OD TCPC coupling can be fished with 7.375" OD Series 150 spiral grapple overshot (7.375" overshot OD vs 8.379" casing drift ID).

For fishing operations with spear:

- Fiberglass liner can be milled out, or torn out with a spear, to allow a releasable spear assembly to grasp the ID of the injection tubing.

V.

MAP



COG OPERATING LLC, ASTIN ENERGY INV LTD, WELDON ASTIN, JAY EASLY, ROBERT H FORREST JR., LAILA M GLEASON, JOHN SIMMET MARITAL TRUST, MAGNUM HUNTER PRODUCTION INC, PILOT ENE 1985 LTD, CHARLES SIMMONS, STAR PRODUCTION INC, WES-TEX DRILLING CO LP

COG OPERATING LLC, TAP ROCK RESOURCES LLC

CONOCO PHILLIPS CO.

COG OPERATING LLC, 55 SERVICES LTD, OGX RESOURCES LLC, TYCOR ENTERPRISES

COG OPERATING LLC, RED BLUFF WATER POWER CONTROL DISTRICT, 55 SERVICES LTD, EDWARD ADCKOCK, GP II ENERGY INC, OGX PRODUCTION LP, OGX RESOURCES LLC



CONCHO

Project: NDB
NORTHERN DELAWARE BASIN TEAM
LITTLEFIELD 33 FEDERAL
SWD 1

1000 FSL 370 FWL
 SEC 33-26S-29E
 EDDY, NM

Author:
 NALVAREZ

Date:
 8 May, 2019

File Path: G:\X06\North Delaware Basin\NDB SWD AO\Littlefield 33 FED SWD 1

C-108 Application for Authorization to Inject
Littlefield 33 Federal SWD 1
1000' FSL, 370' FWL
Section 33, T26S, R29E
Eddy County, NM

List of Affected Persons Within 1 Mile Radius Area of Review

Surface Owner:

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292

Affected Persons:

SW/4 NE/4 and N/2 SE/4 Sec 28, SW/4 SW/4 Sec 27, E/2 NE/4 Sec 33, W/2 NW/4 Sec 34

COG OPERATING, LLC
One Concho Center
600 W Illinois Ave.
Midland, TX 79701

RED BLUFF WATER POWER CONTROL DISTRICT
111 W. 2nd Street
Pecos, TX 79772

55 SERVICES LTD
113 Corporate Dr
Midland, TX 79705

EDWARD ADCOCK
PO Box 52307
Midland, TX 79710

GP II ENERGY INC.
MITCHELL GROUP
PO Box 506882
Midland, TX 79710

OGX PRODUCTION LP
PO Box 2064
Midland, TX 79702

OGX RESOURCES LLC
400 N. Marienfeld #200
Midland, TX 79701

W/2 Sec 28, S/2 SE/4 Sec 28, E/2 E/2 Sec 29, SW/4 NE/4 Sec 29, SE/4 NW/4 Sec 29, NW/4 SE/4 Sec 29

COG OPERATING, LLC

One Concho Center
600 W Illinois Ave.
Midland, TX 79701

ASTIN ENERGY INV LTD

4901 Bradford Ct
Ft Worth, TX 76132

WELDON ASTIN

1465 Continental Plz
Ft Worth, TX 76102

JAY EASLEY

PO Box 5036
Victoria, TX 77903

ROBERT H FORREST JR

609 Elora Drive
Carlsbad, NM 88220

LAILA M GLEASON

925 Hillcrest
Ft. Worth, TX 76107

JOHN SIMMET MARITAL TRUST

PO Box 17532
CNDT0615
Denver, CO 80217

MAGNUM HUNTER PRODUCTION INC.

202 S. Cheyenne Ave, Suite 1000
Tulsa, OK 74103

PILOT ENE 1985 LTD

1000 Louisiana St
Houston, TX 77002

CHARLES SIMMONS

Box 186
Ft. Worth, TX 76106

STAR PRODUCTION INC.

PO Box 10918
Dallas, TX 75207

WES-TEX DRILLING CO LP

PO Box 3739
Abilene, TX 79604

NW/4 Sec 33, W/2 NE/4 Sec 33

COG OPERATING, LLC

One Concho Center
600 W Illinois Ave.
Midland, TX 79701

55 SERVICES LTD

113 Corporate Dr
Midland, TX 79705

OGX RESOURCES LLC

400 N. Marienfeld #200
Midland, TX 79701

TYCOR ENTERPRISES

5720 Grey Rock Rd
Agoura Hills, CA 91301

SW/4 Sec 29, SW/4 SE/4 Sec 29, All Sec 32

COG OPERATING, LLC

One Concho Center
600 W Illinois Ave.
Midland, TX 79701

TAP ROCK RESOURCES, LLC

602 Park Point Drive, Suite 200
Golden, CO 80401

Texas

CONOCO PHILLIPS COMPANY

600 N. Dairy Ashford Road
Houston, TX 77079

Nearby SWD Well Applicants

NGL WATER SOLUTIONS PERMIAN, LLC

1509 W Wall St, Suite 306
Midland, TX 79701

SOLARIS WATER MIDSTREAM, LLC

701 Tradewinds Blvd, Suite C
Midland, TX 79706

VI.

**No Wells Penetrate
Proposed Disposal
Interval Within One
Mile Area of Review**

VII.

Water Analysis Produced and Receiving Formation Water



Permian Basin Area Laboratory
2101 Market Street,
Midland, Texas 79703

Delaware Sand

Upstream Chemicals

REPORT DATE: 5/11/2018

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: COG OPERATING LLC
DISTRICT: NEW MEXICO
AREA/LEASE: SRO
SAMPLE POINT NAME: SRO STATE UNIT 46H
SITE TYPE: WELL SITES
SAMPLE POINT DESCRIPTION: NOT PROVIDED

ACCOUNT REP: KENNETH MORGAN
SAMPLE ID: 201401021646
SAMPLE DATE: 10/8/2014
ANALYSIS DATE: 10/21/2014
ANALYST: SAMUEL NEWMAN

COG OPERATING LLC, SRO, SRO STATE UNIT 46H

FIELD DATA			ANALYSIS OF SAMPLE								
			ANIONS:		mg/L	meq/L	CATIONS:		mg/L	meq/L	
Initial Temperature (°F):	250	Chloride (Cl⁻):		168788.9		4761.3	Sodium (Na⁺):		74214.2	3229.5	
Final Temperature (°F):	80	Sulfate (SO₄²⁻):		0.0		0.0	Potassium (K⁺):		1329.1	34.0	
Initial Pressure (psl):	100	Borate (H₃BO₃):		84.4		1.4	Magnesium (Mg²⁺):		3949.5	325.1	
Final Pressure (psl):	15	Fluoride (F⁻):		ND			Calcium (Ca²⁺):		19033.5	949.8	
		Bromide (Br⁻):		ND			Strontium (Sr²⁺):		1511.5	34.5	
pH:		Nitrite (NO₂⁻):		ND			Barium (Ba²⁺):		58.0	0.8	
pH at time of sampling:	6.5	Nitrate (NO₃⁻):		ND			Iron (Fe²⁺):		72.0	2.6	
		Phosphate (PO₄³⁻):		ND			Manganese (Mn²⁺):		4.3	0.2	
		Silica (SiO₂):		ND			Lead (Pb²⁺):		ND		
							Zinc (Zn²⁺):		0.0	0.0	
ALKALINITY BY TITRATION:			mg/L	meq/L							
Bicarbonate (HCO₃⁻):	146.4		2.4	Aluminum (Al³⁺):						ND	
Carbonate (CO₃²⁻):	ND	Chromium (Cr³⁺):								ND	
Hydroxide (OH⁻):	ND	Cobalt (Co²⁺):								ND	
				ORGANIC ACIDS:	mg/L	meq/L	Copper (Cu²⁺):			ND	
aqueous CO₂ (ppm):	370.0	Formic Acid:		ND	Molybdenum (Mo²⁺):					ND	
aqueous H₂S (ppm):	0.0	Acetic Acid:		ND	Nickel (Ni²⁺):					ND	
aqueous O₂ (ppb):	ND	Propionic Acid:		ND	Tin (Sn²⁺):					ND	
		Butyric Acid:		ND	Titanium (Ti²⁺):					ND	
Calculated TD5 (mg/L):	269107	Valeric Acid:		ND	Vanadium (V²⁺):					ND	
Density/Specific Gravity (g/cm³):	1.1715	Zirconium (Zr²⁺):								ND	
Measured Specific Gravity	1.1840	Lithium (Li):								ND	
Conductivity (mmhos):	ND										
Resistivity:	ND	Total Hardness:								65621	N/A
MCF/D:	No Data										
BOPD:	No Data										
BWPD:	No Data	Anion/Cation Ratio:				1.04	ND = Not Determined				



Permian Basin Area Laboratory
2101 Market Street,
Midland, Texas 79703

Bone Spring

Upstream Chemicals

REPORT DATE: 5/23/2018

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: COG OPERATING LLC
DISTRICT: NEW MEXICO
AREA/LEASE: SRO
SAMPLE POINT NAME: SRO STATE 53H
SITE TYPE: WELL SITES
SAMPLE POINT DESCRIPTION: WELL HEAD

ACCOUNT REP: KENNETH MORGAN
SAMPLE ID: 201801031089
SAMPLE DATE: 5/15/2018
ANALYSIS DATE: 5/23/2018
ANALYST: DG

COG OPERATING LLC, SRO, SRO STATE 53H

FIELD DATA			ANALYSIS OF SAMPLE							
			ANIONS:		mg/L	meq/L	CATIONS:		mg/L	meq/L
Initial Temperature (°F):	250	Chloride (Cl):			120345.5	3394.8	Sodium (Na ⁺):		59941.8	2608.4
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):			545.2	11.4	Potassium (K ⁺):		1005.0	25.7
Initial Pressure (psf):	100	Borate (H ₃ BO ₃):			168.1	2.7	Magnesium (Mg ²⁺):		1248.4	102.7
Final Pressure (psf):	15	Fluoride (F ⁻):			ND		Calcium (Ca ²⁺):		9550.0	476.5
		Bromide (Br ⁻):			ND		Strontium (Sr ²⁺):		810.2	18.5
pH:		Nitrite (NO ₂ ⁻):			ND		Barium (Ba ²⁺):		2.4	0.0
pH at time of sampling:		Nitrate (NO ₃ ⁻):			ND		Iron (Fe ³⁺):		90.9	3.3
		Phosphate (PO ₄ ³⁻):			ND		Manganese (Mn ²⁺):		1.9	0.1
		Silica (SiO ₂):			ND		Lead (Pb ²⁺):		0.0	0.0
							Zinc (Zn ²⁺):		0.0	0.0
ALKALINITY BY TITRATION:			mg/L	meq/L						
Bicarbonate (HCO ₃ ⁻):	280.6		4.6							
Carbonate (CO ₃ ²⁻):	ND					Aluminum (Al ³⁺):		0.0	0.0	
Hydroxide (OH ⁻):	ND					Chromium (Cr ³⁺):		ND		
						Cobalt (Co ²⁺):		ND		
		ORGANIC ACIDS:				Copper (Cu ²⁺):		0.0	0.0	
aqueous CO ₂ (ppm):	280.0	Formic Acid:			ND	Molybdenum (Mo ²⁺):		0.0	0.0	
aqueous H ₂ S (ppm):	0.0	Acetic Acid:			ND	Nickel (Ni ²⁺):		ND		
aqueous O ₂ (ppb):	ND	Propionic Acid:			ND	Tin (Sn ²⁺):		ND		
		Butyric Acid:			ND	Titanium (Ti ²⁺):		ND		
Calculated TDS (mg/L):	193822	Valeric Acid:			ND	Vanadium (V ²⁺):		ND		
Density/Specific Gravity (g/cm ³):	1.1225					Zirconium (Zr ²⁺):		ND		
Measured Specific Gravity	1.1309					Lithium (Li):		ND		
Conductivity (mmhos):	ND									
Resistivity:	ND					Total Hardness:		29944	N/A	
MCF/D:	No Data									
BOPD:	No Data									
BWPD:	No Data	Anion/Cation Ratio:				1.06	ND = Not Determined			



Permian Basin Area Laboratory
2101 Market Street,
Midland, Texas 79703

Woltcamp

Upstream Chemicals

REPORT DATE: 5/23/2018

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: COG OPERATING LLC
DISTRICT: NEW MEXICO
AREA/LEASE: MYOX 5
SAMPLE POINT NAME: MYOX 5 22H
SITE TYPE: WELL SITES
SAMPLE POINT DESCRIPTION: WELL HEAD

ACCOUNT REP: KENNETH MORGAN
SAMPLE ID: 201801031090
SAMPLE DATE: 5/15/2018
ANALYSIS DATE: 5/23/2018
ANALYST: DG

COG OPERATING LLC, MYOX 5, MYOX 5 22H

FIELD DATA			ANALYSIS OF SAMPLE					
			ANIONS:				CATIONS:	
				mg/L	meq/L		mg/L	meq/L
Initial Temperature (°F):	250	Chloride (Cl ⁻):	67159.6		1894.5	Sodium (Na ⁺):	33946.6	1477.2
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):	336.6		7.0	Potassium (K ⁺):	541.3	13.8
Initial Pressure (psi):	100	Borate (H ₃ BO ₃):	364.0		5.9	Magnesium (Mg ²⁺):	608.7	50.1
Final Pressure (psi):	15	Fluoride (F ⁻):	ND			Calcium (Ca ²⁺):	3969.4	198.1
		Bromide (Br ⁻):	ND			Strontium (Sr ²⁺):	886.4	20.2
pH:		Nitrite (NO ₂ ⁻):	ND			Barium (Ba ²⁺):	2.9	0.0
pH at time of sampling:	6.1	Nitrate (NO ₃ ⁻):	ND			Iron (Fe ²⁺):	49.3	1.8
		Phosphate (PO ₄ ³⁻):	ND			Manganese (Mn ²⁺):	1.2	0.0
		Silica (SiO ₂):	ND			Lead (Pb ²⁺):	0.0	0.0
						Zinc (Zn ²⁺):	0.0	0.0
ALKALINITY BY TITRATION:	mg/L	meq/L						
Bicarbonate (HCO ₃ ⁻):	305.0	5.0				Aluminum (Al ³⁺):	0.7	0.1
Carbonate (CO ₃ ²⁻):	ND					Chromium (Cr ³⁺):	ND	
Hydroxide (OH ⁻):	ND					Cobalt (Co ²⁺):	ND	
			ORGANIC ACIDS:	mg/L	meq/L			
aqueous CO ₂ (ppm):	160.0	Formic Acid:	ND			Copper (Cu ²⁺):	0.0	0.0
aqueous H ₂ S (ppm):	0.0	Acetic Acid:	ND			Molybdenum (Mo ²⁺):	0.0	0.0
aqueous O ₂ (ppb):	ND	Propionic Acid:	ND			Nickel (Ni ²⁺):	ND	
		Butyric Acid:	ND			Tin (Sn ²⁺):	ND	
Calculated TDS (mg/L):	107807	Valeric Acid:	ND			Titanium (Ti ²⁺):	ND	
Density/Specific Gravity (g/cm ³):	1.0688					Vanadium (V ²⁺):	ND	
Measured Specific Gravity	1.0748					Zirconium (Zr ²⁺):	ND	
Conductivity (mmhos):	ND					Lithium (Li):	ND	
Resistivity:	ND					Total Hardness:	13444	N/A
MCF/D:	No Data							
BOPD:	No Data							
BWPD:	No Data	Anion/Cation Ratio:		1.09		ND = Not Determined		

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FURTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.61	1.321	0.33	26.169	-0.83	0.000	-1.03	0.000
99°F	24 psi	0.47	1.162	0.39	30.032	-0.82	0.000	-0.94	0.000
118°F	34 psi	0.35	0.975	0.48	35.334	-0.82	0.000	-0.84	0.000
137°F	43 psi	0.25	0.762	0.58	40.645	-0.81	0.000	-0.75	0.000
156°F	53 psi	0.16	0.531	0.68	45.588	-0.80	0.000	-0.64	0.000
174°F	62 psi	0.08	0.288	0.78	50.075	-0.78	0.000	-0.53	0.000
193°F	72 psi	0.01	0.040	0.89	54.151	-0.77	0.000	-0.42	0.000
212°F	81 psi	-0.05	0.000	1.00	58.159	-0.76	0.000	-0.31	0.000
231°F	91 psi	-0.10	0.000	1.11	61.692	-0.75	0.000	-0.19	0.000
250°F	100 psi	-0.14	0.000	1.22	64.820	-0.74	0.000	-0.08	0.000

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.23	76.442	-1.45	0.000	-9.21	0.000	0.08	3.648
99°F	24 psi	0.24	77.965	-1.46	0.000	-9.26	0.000	0.20	8.360
118°F	34 psi	0.25	79.681	-1.47	0.000	-9.25	0.000	0.33	13.119
137°F	43 psi	0.26	82.032	-1.48	0.000	-9.22	0.000	0.46	17.127
156°F	53 psi	0.27	85.287	-1.49	0.000	-9.17	0.000	0.57	20.330
174°F	62 psi	0.28	89.560	-1.49	0.000	-9.12	0.000	0.68	22.832
193°F	72 psi	0.31	94.827	-1.49	0.000	-9.06	0.000	0.77	24.800
212°F	81 psi	0.33	100.951	-1.49	0.000	-8.99	0.000	0.87	26.484
231°F	91 psi	0.36	107.717	-1.49	0.000	-8.92	0.000	0.95	27.768
250°F	100 psi	0.39	114.861	-1.49	0.000	-8.84	0.000	1.01	28.748

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

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity. %CO₂ is not included in the calculations.

ScaleSoft Pitzer™
SSP2010

Comments:

8.0 RESERVOIR CHARACTERISTICS

8.1 FORMATION FLUID CHEMISTRY

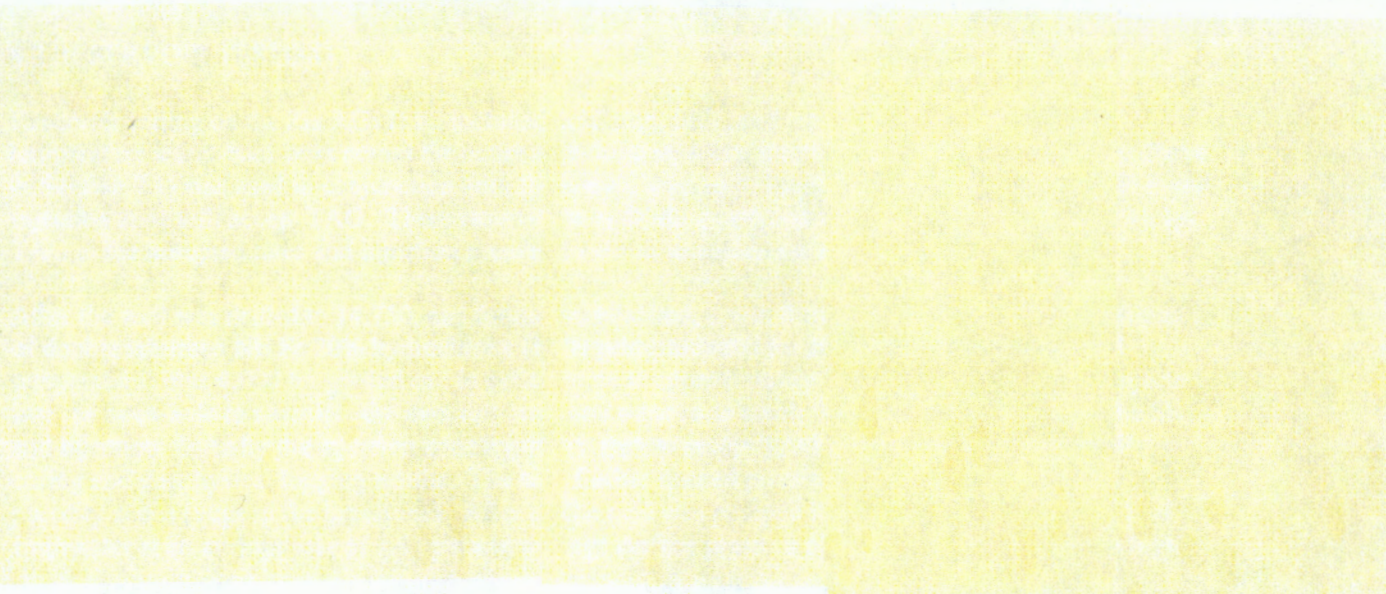
Following the drilling of the 6-inch open-hole section the injection zone was swabbed and 10 samples were sent to Cardinal Laboratories in Hobbs, NM. The laboratory report and analysis, along with a summary table of the results that depict the concentrations of all analytes is included in Appendix D. The average concentrations for major constituents within the formation water in the entire injection interval are as follows:

Chloride: 23,700 mg/L
TDS: 42,750 mg/L
Diesel Range Organics: 5.7 mg/L
Extended Range Organics: 2.7 mg/L
pH: 6.5
Total Alkalinity: 613 mg/L

The maximum concentrations for major constituents within the formation water in the entire injection interval are as follows:

Chloride: 27,000 mg/L
TDS: 44,700 mg/L
Diesel Range Organics: 20.5 mg/L
Extended Range Organics: 5.6 mg/L
pH: 6.7
Total Alkalinity: 670 mg/L

The results of the formation water analysis support and confirm the conclusions presented from the geophysical logs, mud log, and sidewall cores that the injection zone clearly does not contain recoverable hydrocarbons. Included in Appendix D is Geolex's No Recoverable Hydrocarbon Summary report, which was required by the BLMs COA, and submitted to the BLM and NMOCD.



X.

**Log Section Across
Proposed Devonian
Injection Interval**

ALLIED HORIZONTAL WIRELINER SERVICES

Compensated Neutron Log

Company Mewbourne Oil company
Well Fuller 14 Fed SWD #1
Field Devonian
County Eddy
State New Mexico

Company Mewbourne Oil company
Well Fuller 14 Fed SWD #1
Field Devonian
County Eddy
State New Mexico

Location: 2301' FSL & 2533' FEL
API #: 32015-43630
Other Services RCBL

SEC 14 TWP 26S RGE 29E
Permanent Datum G.L. Elevation 2935'
Log Measured From K.B. D.F. 2982.5'
Drilling Measured From Kelly Bushing G.L. 2835'

Date	14-Jul-2016			
Run Number	One			
Depth Driller	16540'			
Depth Logger	16430'			
Bottom Logged Interval	16421'			
Top Log Interval	50'			
Open Hole Size	6.5"			
Type Fluid	WBIM			
Density / Viscosity	NA / NA			
Max. Recorded Temp.	233 °F			
Estimated Cement Top	2600'			
Time Well Ready	11:30			
Time Logger on Bottom	16:30			
Equipment Number	12030			
Location	Midland, TX			
Recorded By	Trek Lewis			
Witnessed By	Erin McMath			
Borehole Record				
Run Number	Bit	From	To	Size
	17.5"	0'	3010'	
	12.25"	3010'	10150'	
	8.5"	10150'	15625'	
	6.5"	15625'	16540'	
Tubing Record				
Casing Record	Size	Wt/Lf	Top	Bottom
Surface String	13.375"	61	0'	3010'
Prot. String	9.625"	40.47	0'	10150'
Production String	7.625"	39	9856'	15625'
Liner				

<<< Fold Here >>>

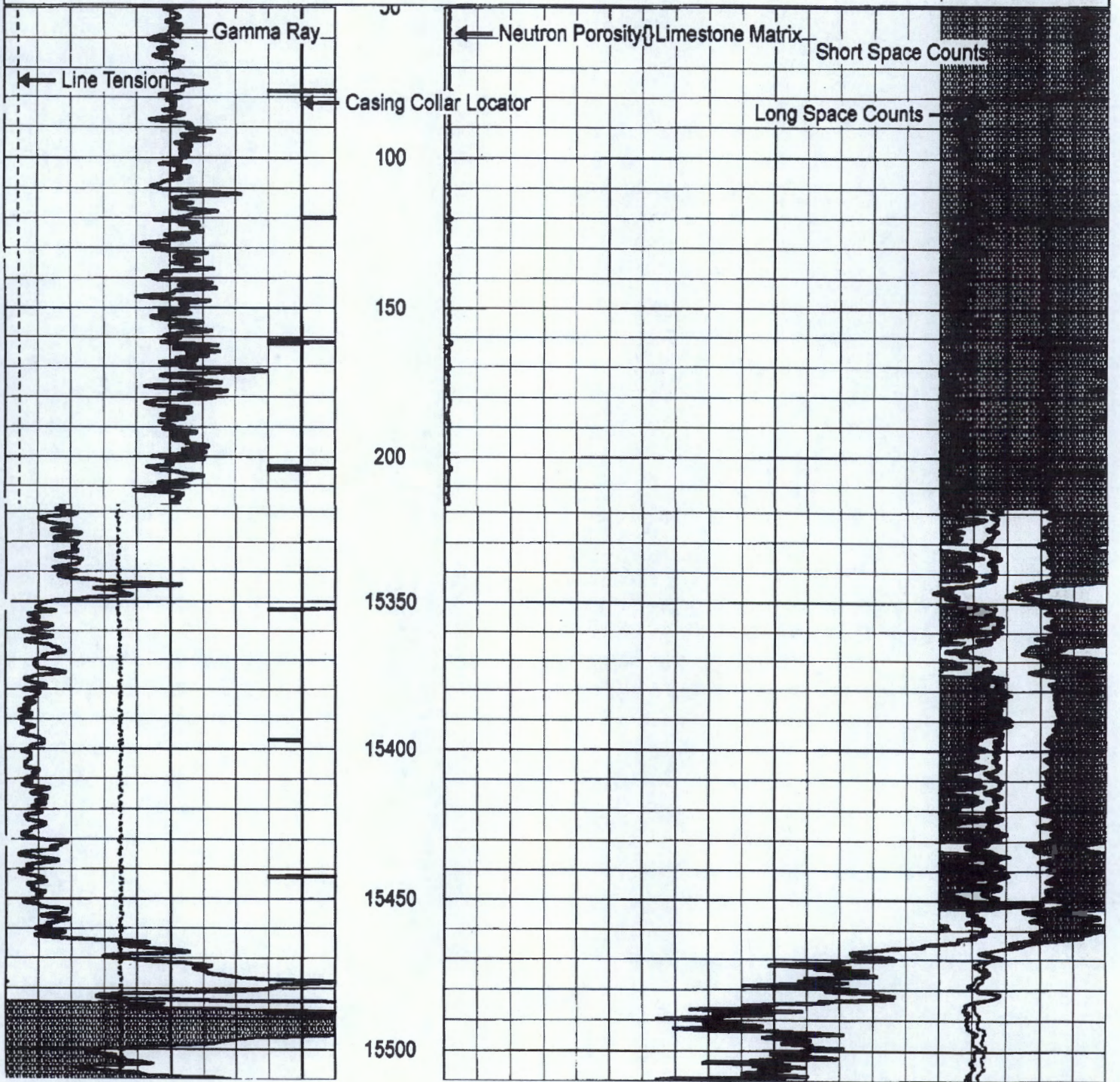
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Actual TD was deeper than estimated on log due to tool configuration requirements
A weight bar was ran on the CNL tool adding 7' of length to tool bottom
Log TD shows as 16423' while actual TD is at 16430'
Tool split into two runs due to lack of CCL readings while centralized in large casing
CNL and RCBL merged into one file
Log Correlated to float collar top at 15577'
Repeat not ran on CNL pass as per clients request

Database File: mewbourne_fuller_14_fed_swd_1_run2.db
 Dataset Pathname: MASTER
 Presentation Format: cnlspray
 Dataset Creation: Fri Jul 15 04:23:37 2016
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	Neutron Porosity Limestone Matrix (pu)	
9	Casing Collar	-1		
0	Line Tension (lb)	5000		
			30	-10
			Long Space Counts	
			0 (cps) 1500	
			Short Space Counts	
			0 (cps) 7000	



15550

Float Collar

15600

Line Tension

Casing Shoe

15650

15700

15750

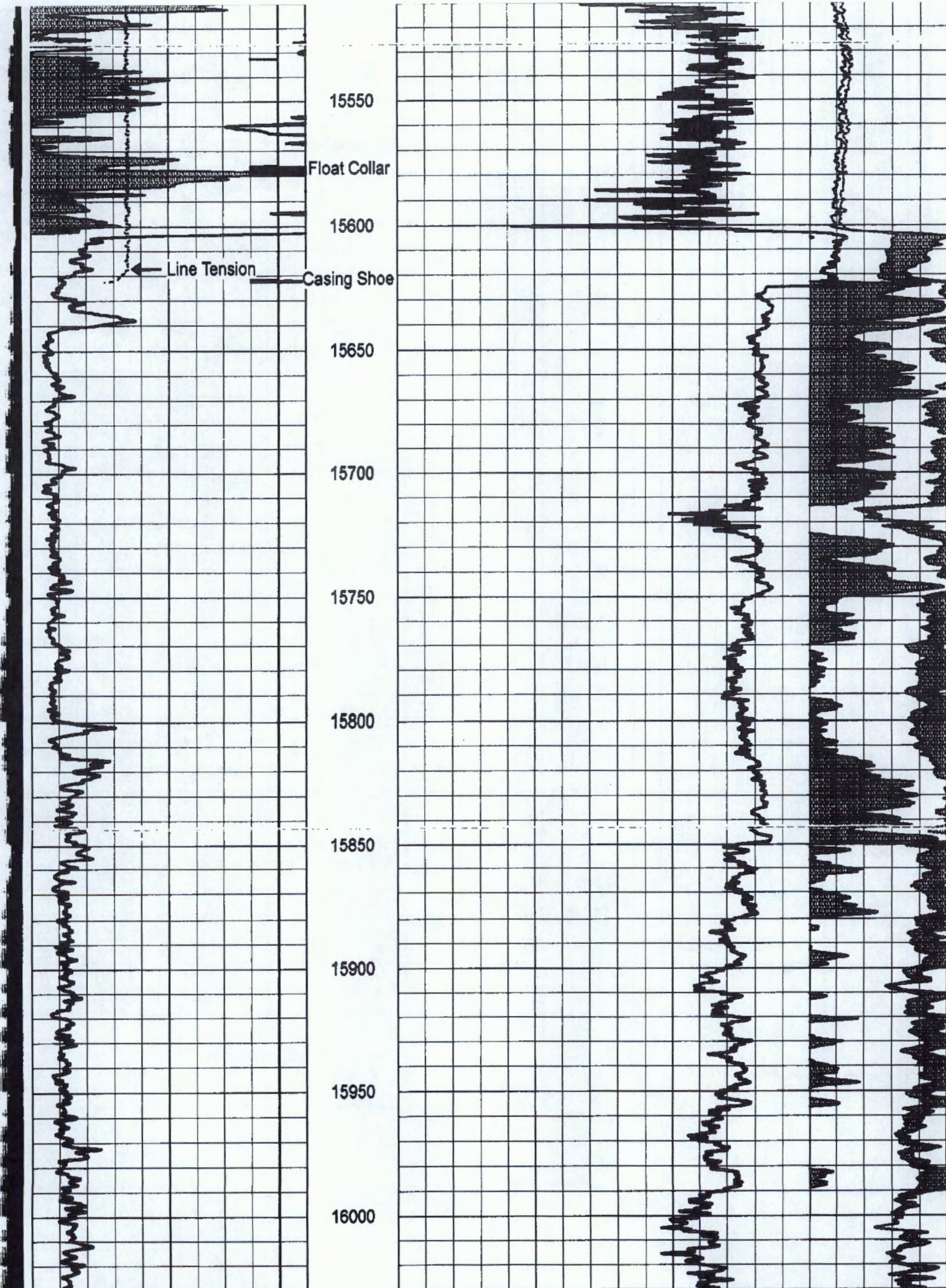
15800

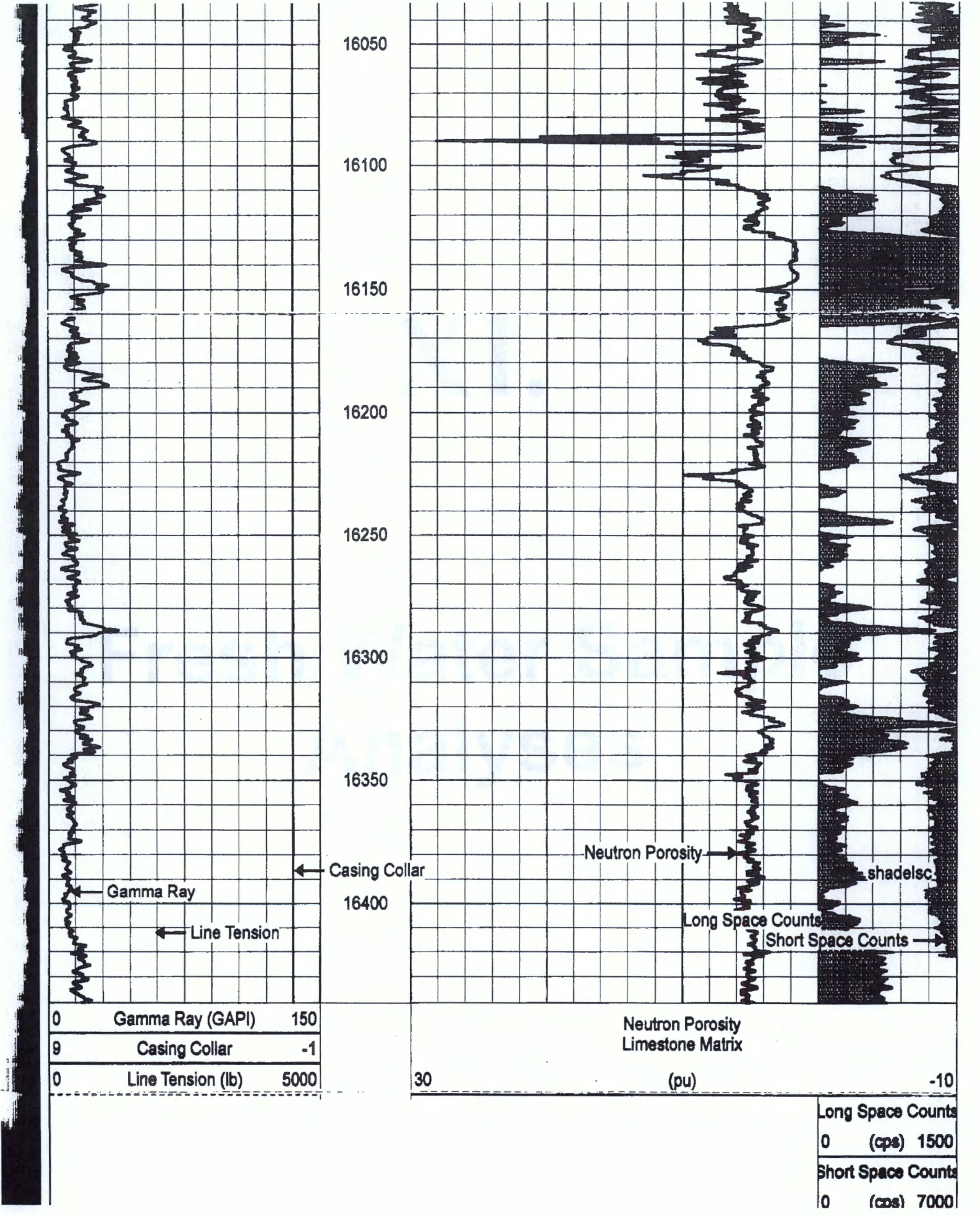
15850

15900

15950

16000





Gamma Ray ←

Line Tension ←

← Casing Collar

Neutron Porosity →

Long Space Counts →

Short Space Counts →

shadelsc

0	Gamma Ray (GAPI)	150
9	Casing Collar	-1
0	Line Tension (lb)	5000

Neutron Porosity		
Limestone Matrix		
30	(pu)	-10

Long Space Counts		
0	(cps)	1500
Short Space Counts		
0	(cps)	7000

Analytical Laboratory Report for:

MARBOB ENERGY CORPORATION



Chemical Services

Account Representative:
William D Polk

Production Water Analysis

Listed below please find water analysis report from:

, Pecos River

*Low water crossing
Sec 8-26s-29e*

Lab Test No: 2008151012

Sample Date:

12/04/2008

Specific Gravity: 1.005

TDS: 6402

pH: 7.19

Cations:	mg/L	as:
Calcium	672	(Ca ⁺⁺)
Magnesium	207	(Mg ⁺⁺)
Sodium	1340	(Na ⁺)
Iron	0.08	(Fe ⁺⁺)
Potassium	53.0	(K ⁺)
Barium	0.08	(Ba ⁺⁺)
Strontium	7.88	(Sr ⁺⁺)
Manganese	0.04	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	222	(HCO ₃ ⁻)
Sulfate	1400	(SO ₄ ⁻²)
Chloride	2500	(Cl ⁻)
Gases:		
Carbon Dioxide		(CO ₂)
Hydrogen Sulfide		(H ₂ S)

Lab Comments:

Lab measured pH

Lab measured alkalinity

Legal Notice

COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico, 88210, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Littlefield 33 Federal SWD No. 1, is located 1000' FSL and 370' FWL, Section 33, Township 26 South, Range 29 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware, Bone Spring and Wolfcamp formations. The disposal water will be injected into the Devonian/Silurian formation at a depth of 15,000' to 16,500' at a maximum surface pressure of 3000 psi and a maximum rate of 40,000 BWPD. The proposed SWD well is located approximately 21 miles south of Loving. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico 88210, or call 575-748-6940.

Published in the Artesia Daily Press, Artesia, N.M., May 8, 2019 Legal No. 25105.

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Thursday, May 23, 2019 4:18 PM
To: Brian Collins
Subject: Littlefield 33 Federal SWD Well No.1

Brian:

Your administrative application for the Littlefield 33 Federal SWD Well No.1 has been suspended.

You need to provide proof of mailing to the affected parties along with BLM.

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

May 13, 2019

Oil Conservation Division
Attn: Ray Podany
811 South First Street
Artesia, NM 88210

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

Dear Mr. Podany:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the referenced well. Attached for your review is a copy of the C-108 application.

This well will be drilled as a Devonian/Silurian SWD well after C108 approval. The estimated top of the Devonian is 15185'. Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

Oil Conservation Division
Attn: Ray Podany
811 South First Street
Artesia, NM 88210

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

Dear Mr. Podany:

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Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the surface owner or an affected person within a one mile radius area of review. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

RED BLUFF WATER POWER CONTROL DISTRICT
111 W. 2nd Street
Pecos, TX 79772

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the surface owner or an affected person within a one mile radius area of review. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

55 SERVICES LTD
113 Corporate Dr
Midland, TX 79705

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the surface owner or an affected person within a one mile radius area of review. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

EDWARD ADCOCK
PO Box 52307
Midland, TX 79710

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the surface owner or an affected person within a one mile radius area of review. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

GP II ENERGY INC.
MITCHELL GROUP
PO Box 506882
Midland, TX 79710

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the surface owner or an affected person within a one mile radius area of review. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

OGX PRODUCTION LP
PO Box 2064
Midland, TX 79702

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the surface owner or an affected person within a one mile radius area of review. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

OGX RESOURCES LLC
400 N. Marienfeld #200
Midland, TX 79701

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the surface owner or an affected person within a one mile radius area of review. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

ASTIN ENERGY INV LTD
4901 Bradford Ct
Ft Worth, TX 76132

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

WELDON ASTIN
1465 Continental Plz
Ft Worth, TX 76102

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

JAY EASLEY
PO Box 5036
Victoria, TX 77903

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

ROBERT H FORREST JR
609 Elora Drive
Carlsbad, NM 88220

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

LAILA M GLEASON
925 Hillcrest
Ft. Worth, TX 76107

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

JOHN SIMMET MARITAL TRUST
PO Box 17532
CNDT0615
Denver, CO 80217

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

MAGNUM HUNTER PRODUCTION INC.
202 S. Cheyenne Ave, Suite 1000
Tulsa, OK 74103

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

PILOT ENE 1985 LTD
1000 Louisiana St
Houston, TX 77002

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

CHARLES SIMMONS
Box 186
Ft. Worth, TX 76106

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

STAR PRODUCTION INC.
PO Box 10918
Dallas, TX 75207

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

WES-TEX DRILLING CO LP
PO Box 3739
Abilene, TX 79604

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

TYCOR ENTERPRISES
5720 Grey Rock Rd
Agoura Hills, CA 91301

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

TAP ROCK RESOURCES, LLC
602 Park Point Drive, Suite 200
Golden, CO 80401

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

CONOCO PHILLIPS COMPANY
600 N. Dairy Ashford Road
Houston, TX 77079

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

NGL WATER SOLUTIONS PERMIAN, LLC
1509 W Wall St, Suite 306
Midland, TX 79701

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

SOLARIS WATER MIDSTREAM, LLC
701 Tradewinds Blvd, Suite C
Midland, TX 79706

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

May 13, 2019

New Mexico Oil Conservation Division
Attn: Phillip Goetze
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Application For Authorization To Inject
Littlefield 33 Federal SWD #1
1000' FSL, 370' FWL
Unit E, Section 33, Township 26 South, Range 29 East, N.M.P.M.
Eddy County, New Mexico

Dear Mr. Goetze:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the referenced well. Attached for your review is a copy of the C-108 application.

This well will be drilled as a Devonian/Silurian SWD well after C108 approval. The estimated top of the Devonian is 15185'. We're permitting the injection interval shallower and deeper than the prognosis just in case the formation tops are different than expected due to the lack of deep well control in this area.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

Brian Collins
Facilities Engineering Advisor

BC/mv
Enclosures

Affidavit of Publication

No. 25105

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn says that he is the

Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication

May 8, 2019

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

8th

day of

May

2019



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 3/12/2023

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

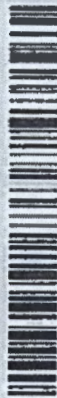
COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico, 88210, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Littlefield 33 Federal SWD No. 1, is located 1000' FSL and 370' FWL, Section 33, Township 26 South, Range 29 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware, Bone Spring and Wolfcamp formations. The disposal water will be injected into the Devonian/Silurian formation at a depth of 15,000' to 16,500' at a maximum surface pressure of 3000 psi and a maximum rate of 40,000 BWPD. The proposed SWD well is located approximately 21 miles south of Loving. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico 88210, or call 575-748-6940.

Published in the Artesia Daily Press, Artesia, N.M., May 8, 2019 Legal No. 25105.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

New Mexico Oil Conservation Division
 Attn: Phillip Goetze
 1220 South St. Francis Drive
 Santa Fe, NM 87505
 Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8141 34

2. Article Number (Transfer from service label)

7017 2620 0000 8100 8965

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]
 B. Received by (Printed Name)
 C. Date of Delivery

☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below:

STATION
 MAY 16 2019

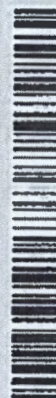
3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation®
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

Oil Conservation Division
 Attn: Ray Podany
 811 South First Street
 Artesia, NM 88210
 Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8141 27

2. Article Number (Transfer from service label)

7017 2620 0000 8100 8972

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]
 B. Received by (Printed Name)
 C. Date of Delivery

☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below:

STATION
 MAY 16 2019

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation®
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
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RED BLUFF WATER POWER CONTROL
DISTRICT
111 W. 2nd Street
Pecos, TX 79772
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8141 10

2 Article Number (Transfer from service label)

7017 2620 0000 8100 8989

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Cry Head

☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation☐ Signature Confirmation Restricted Delivery

Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
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OGX PRODUCTION LP
PO Box 2064
Midland, TX 79702
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8140 73

2 Article Number (Transfer from service label)

7017 2620 0000 8100 7023

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

J. Bon

☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

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

OGX OPERATING LLC
RECEIVED
MAY 23 2019

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation☐ Signature Confirmation Restricted Delivery

Mail Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8141 65

2. Article Number (Transfer from service label)

7017 2620 0000 8100 8958

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

J. Bon

☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation☐ Signature Confirmation Restricted Delivery

Mail Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

LAILA M GLEASON
925 Hillcrest
Ft. Worth, TX 76107
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8140 11

7017 2620 0000 8100 9085

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent
X *Laila M Gleason* ☐ Address

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
- ☐ Adult Signature
 - ☐ Adult Signature Restricted Delivery
 - ☐ Certified Mail®
 - ☐ Certified Mail Restricted Delivery
 - ☐ Collect on Delivery
 - ☐ Collect on Delivery Restricted Delivery
 - ☐ Priority Mail Express®
 - ☐ Registered Mail™
 - ☐ Registered Mail Restricted Delivery
 - ☐ Return Receipt for Merchandise
 - ☐ Signature Confirmation
 - ☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

ROBERT H FORREST JR
609 Elora Drive
Carlsbad, NM 88220
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8140 28

7017 2620 0000 8100 9078

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent
X *Robert H Forrest Jr* ☐ Address

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
- ☐ Adult Signature
 - ☐ Adult Signature Restricted Delivery
 - ☐ Certified Mail®
 - ☐ Certified Mail Restricted Delivery
 - ☐ Collect on Delivery
 - ☐ Collect on Delivery Restricted Delivery
 - ☐ Priority Mail Express®
 - ☐ Registered Mail™
 - ☐ Registered Mail Restricted Delivery
 - ☐ Return Receipt for Merchandise
 - ☐ Signature Confirmation
 - ☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

OGX RESOURCES LLC
400 N. Marienfeld #200
Midland, TX 79701
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8140 59

7017 2620 0000 8100 9030

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent
X *Cheryl V. Vick* ☐ Address

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
- ☐ Adult Signature
 - ☐ Adult Signature Restricted Delivery
 - ☐ Certified Mail®
 - ☐ Certified Mail Restricted Delivery
 - ☐ Collect on Delivery
 - ☐ Collect on Delivery Restricted Delivery
 - ☐ Priority Mail Express®
 - ☐ Registered Mail™
 - ☐ Registered Mail Restricted Delivery
 - ☐ Return Receipt for Merchandise
 - ☐ Signature Confirmation
 - ☐ Signature Confirmation Restricted Delivery

RECEIVED
MAY 23 2019
ARTESIA

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

WES-TEX DRILLING CO LP
PO Box 3739
Abilene, TX 79604
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8146 53

2 Article Number (Transfer from carrier label)

7017 2620 0000 8100 9146

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X P. Robbins

☒ Agent☐ Address

B. Received by (Printed Name)

P. Robbins

C. Date of Delivery

5-16-19

D. Is delivery address different from item 17 ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ All Restricted Delivery

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

MAGNUM HUNTER PRODUCTION INC.
202 S. Cheyenne Ave, Suite 1000
Tulsa, OK 74103
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8139 91

2 Article Number (Transfer from carrier label)

7017 2620 0000 8100 9108

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Justin Wallace

☐ Agent☐ Address

B. Received by (Printed Name)

JUSTIN WALLACE

C. Date of Delivery

5-16-19

D. Is delivery address different from item 17 ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ All Restricted Delivery

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

JOHN SIMMET MARITAL TRUST
PO Box 17532
CNDT0615
Denver, CO 80217
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8140 04

2 Article Number (Transfer from carrier label)

7017 2620 0000 8100 9092

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Bruce Bundy

☐ Agent☐ Address

B. Received by (Printed Name)

MAY 17 2019

C. Date of Delivery

D. Is delivery address different from item 17 ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ All Restricted Delivery

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

SOLARIS WATER MIDSTREAM, LLC
701 Tradewinds Blvd, Suite C
Midland, TX 79706
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8146 08

2. Article Number (Transfer from service label)

7017 2620 0000 8100 9191

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- ☐ Agent
☐ Address

B. Received by (Printed Name)

MICHAEL L. LARSEN

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Address Label

TAP ROCK RESOURCES, LLC
602 Park Point Drive, Suite 200
Golden, CO 80401
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8146 39

2. Article Number (Transfer from service label)

7017 2620 0000 8100 9160

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* (F0358)

- ☒ Agent
☐ Address

B. Received by (Printed Name)

J. M. LARSEN

C. Date of Delivery

5/17/16

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

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

NGL WATER SOLUTIONS PERMIAN, LLC
1509 W Wall St, Suite 306
Midland, TX 79701
Littlefield 33 Federal SWD #1



9590 9402 3634 7305 8146 22

2. Article Number (Transfer from service label)

7017 2620 0000 8100 9184

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- ☐ Agent
☐ Address

B. Received by (Printed Name)

J. M. LARSEN

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

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

Domestic Return Receipt

U.S. Postal ServiceTM
CERTIFIED MAIL[®]
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee
 \$

Extra Services & Fees (check)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail Restrict[®]
☐ Adult Signature R[®]
☐ Adult Signature

Postage
 \$

Total Postage & Fees
 \$

Sent To
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4[®]

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

CHARLES SIMMONS
 Box 186
 Ft. Worth, TX 76106

Postmark
 Here

U.S. Postal ServiceTM
CERTIFIED MAIL[®] RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee
 \$

Extra Services & Fees (check)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail Restrict[®]
☐ Adult Signature R[®]
☐ Adult Signature

Postage
 \$

Total Postage & Fees
 \$

Sent To
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4[®]

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

STAR PRODUCTION INC.
 PO Box 10918
 Dallas, TX 75207

U.S. Postal ServiceTM
CERTIFIED MAIL[®] RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee
 \$

Extra Services & Fees (check)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail Restrict[®]
☐ Adult Signature R[®]
☐ Adult Signature

Postage
 \$

Total Postage & Fees
 \$

Sent To
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4[®]

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

WELDON ASTIN
 1465 Continental Plz
 Ft Worth, TX 76102

Postmark
 Here

U.S. Postal ServiceTM
CERTIFIED MAIL[®] RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee
 \$

Extra Services & Fees (check)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail Restrict[®]
☐ Adult Signature R[®]
☐ Adult Signature

Postage
 \$

Total Postage & Fees
 \$

Sent To
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4[®]

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

PILOT ENE 1985 LTD
 1000 Louisiana St
 Houston, TX 77002

U.S. Postal ServiceTM
CERTIFIED MAIL[®] RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee
 \$

Extra Services & Fees (check)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail Restrict[®]
☐ Adult Signature R[®]
☐ Adult Signature

Postage
 \$

Total Postage & Fees
 \$

Sent To
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4[®]

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Still
 Pending

ASTIN ENERGY INV LTD
 4901 Bradford Ct
 Ft Worth, TX 76132

Postmark
 Here

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

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

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail
☐ Adult Signature
☐ Adult Signature

Postage
\$

Total Postage and Fees
\$

Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

CONOCO PHILLIPS COMPANY
600 N. Dairy Ashford Road
Houston, TX 77079

Postmark Here

Still Pending

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

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

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail
☐ Adult Signature
☐ Adult Signature

Postage
\$

Total
\$

Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

GP II ENERGY INC.
MITCHELL GROUP
PO Box 506882
Midland, TX 79710

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

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

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail
☐ Adult Signature
☐ Adult Signature

Postage
\$

Total Postage and Fees
\$

Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

55 SERVICES LTD
113 Corporate Dr
Midland, TX 79705

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

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

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail
☐ Adult Signature
☐ Adult Signature

Postage
\$

Total Postage and Fees
\$

Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

TYCOR ENTERPRISES
5720 Grey Rock Rd
Agoura Hills, CA 91301

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

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

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail
☐ Adult Signature
☐ Adult Signature

Postage
\$

Total Postage and Fees
\$

Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

JAY EASLEY
PO Box 5036
Victoria, TX 77903

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

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

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy)
☐ Return Receipt (electronic)
☐ Certified Mail
☐ Adult Signature
☐ Adult Signature

Postage
\$

Total Postage and Fees
\$

Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

EDWARD ADCOCK
PO Box 52307
Midland, TX 79710

McMillan, Michael, EMNRD

From: Marissa Villa <MVilla@concho.com>
Sent: Friday, May 24, 2019 9:06 AM
To: McMillan, Michael, EMNRD
Subject: [EXT] Littlefield 33 Federal SWD Well No.1
Attachments: Scanned from a Xerox Multifunction Device; Scanned from a Xerox Multifunction Device

Importance: High

Mr. McMillan

Brian Collins asked I send these to you & keep you updated. If you need additional information or have any questions please feel free to e-mail or call me.

Thank you,

Marissa Villa

Operations Engineering Technician
COG Operating, LLC
2208 West Main
Artesia, NM 88210
Office: 575.748.6941
Fax: 575.746.2523

