

RECEIVED: 2/11/2019	REVIEWER: MAM	TYPE: SWD	APP NO: PMAM/9044 47167
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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: Mesquite SWD, Inc. OGRID Number: 161968
Well Name: Straight Flush SWD No. 1 API: Not Yet Assigned
Pool: SWD; Devonian Pool Code: N/A

**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 holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☒ 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.

David Catanach

Print or Type Name

David Catanach

Signature

2/7/19

Date

(505) 690-9453

Phone Number

catanach_david@comcast.net
e-mail Address

February 7, 2019

Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attention: Mr. Gabriel Wade
Acting Division Director

Re: Amended Form C-108
Straight Flush SWD Well No. 1
API No. (Not Yet Assigned)
Surface Location: 1330' FSL & 525' FWL (Unit L)
Bottom Hole Location: 1330' FSL & 300' FWL (Unit L)
Both in Section 4, T-26S, R-30E, NMPM,
Eddy County, New Mexico

Dear Mr. Wade,

On or about December 5, 2018 Mesquite SWD, Inc. ("Mesquite") filed a Form C-108 with the Division for its proposed Straight Flush SWD Well No. 1 to be drilled 1330 feet from the South line and 525 feet from the West line (Unit L) of Section 4, Township 26 South, Range 30 East, NMPM, Eddy County, New Mexico. Injection into this produced water disposal is planned to occur into the Siluro-Devonian formation through the open-hole interval from approximately 16,623 feet to 17,800 feet. Produced water from the Bone Spring, Wolfcamp and other formations originating from wells in this area is planned to be injected into the well.

As a compromise agreement with EOG Resources, Inc., an offset operator to the proposed well, Mesquite respectfully requests that the original Form C-108 be amended in the following manner:

1. The Straight Flush SWD No. 1 will be directionally drilled from the original surface location of 1330 feet from the South line and 525 feet from the West line (Unit L) of Section 4, Township 26 South, Range 30 East, NMPM, to a bottom hole location 1330 feet from the South line and 300 feet from the West line (Unit L) of Section 4; and
2. As a result of the directional drilling, the 20" surface casing will be set at a depth of 825 feet instead of 1,187 feet, and the 13.375" 1st intermediate casing will be set at a depth of 3,577 feet instead of 4,059 feet, both as originally planned. No other changes to the wellbore configuration are anticipated.

In support of this amended Form C-108, Mesquite submits the following data:

1. Amended Administrative Checklist
2. Amended Form C-108

3. Form C-102 showing surface and bottom hole well locations
4. Amended Form C-108 Narrative
5. Amended Injection Well Data Sheet and Wellbore Diagram
6. Amended 1-Mile AOR Map
7. Supplemental Area of Review ("AOR") well list showing additional wells that have been permitted for drilling within the AOR subsequent to the filing of the original application;
8. Amended 1-Mile Notice Area Map & Tract description showing the new notice area as a result of the change in bottom hole well location;
9. Notice List
10. Amended Notice Letter & Proof of Notice
11. Amended Affidavit of Publication (Published on February 3, 2019).

All other documents filed with the original Form C-108, not amended herein, remain applicable and should be incorporated into the application file.

I believe that all the information necessary to approve the application is enclosed. If additional information is needed, please contact me at (505) 690-9453.

Sincerely,



David Catanach-Agent
Mesquite SWD, Inc.
P.O. Box 1479
Carlsbad, New Mexico 88221-1479

Xc: OCD-Artesia

APPLICATION FOR AUTHORIZATION TO INJECT

- I. **PURPOSE:** _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. **OPERATOR:** Mesquite SWD, Inc.
ADDRESS: P.O. Box 1479, Carlsbad, New Mexico 88221-1479
CONTACT PARTY: David Catanach-Agent **PHONE:** 505-690-9453
- 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: David Catanach TITLE: Agent for Mesquite SWD, Inc.
SIGNATURE: David Catanach DATE: 02/7/2019
E-MAIL ADDRESS: catanach_david@comcast.net
- * 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.

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name STRAIGHT FLUSH SWD	Well Number 1
GRID No.	Operator Name MESQUITE SWD	Elevation 3108.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	4	26-S	30-E		1330	SOUTH	525	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	4	26-S	30-E		1330	SOUTH	300	WEST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>NAD 83 NME <u>SURFACE LOCATION</u> Y=388804.8 N X=677686.0 E LAT.=32.068140° N LONG.=103.893159° W</p> <p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=388803.1 N X=677461.0 E LAT.=32.068138° N LONG.=103.893885° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 30, 2018</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p> 1/31/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-135 DRAWN BY: JR</p>
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Amended Form C-108 Application
Mesquite SWD, Inc.
Straight Flush SWD No. 1
Surface Location: 1330' FSL & 525' FWL (Unit L)
Bottom Hole Location: 1330' FSL & 300' FWL (Unit L)
Both in Section 4, T-26S, R-30E, NMPM
Eddy County, New Mexico

- I. The purpose of the application is to request approval to utilize the proposed Straight Flush SWD No. 1 as a produced water disposal well. This is a new well to be drilled for injection.
- II. Mesquite SWD, Inc.
P.O. Box 1479
Carlsbad, New Mexico 88221-1479
Contact Parties: Melanie Wilson (575) 914-1461
David Catanach (505) 690-9453
- III. Injection well data sheet and wellbore schematic diagram showing the proposed wellbore configuration is attached.
- IV. This is not an expansion of an existing project.
- V. Attached is a map that identifies the 1-mile amended "Area of Review" ("AOR"). (Note: The 1-Mile and 2-Mile lease map was previously submitted).
- VI. A listing of wells within the AOR that have been permitted for drilling subsequent to the filing of the original Form C-108 is attached to this amended application. This well list supplements the original AOR well list previously submitted. AOR well data includes API No., operator, well name & number, well type and status, surface and bottom hole well locations, MD and TVD and completed formation. An examination of the original and supplemental AOR well listing shows that none of the active or proposed wells within the AOR penetrate, or will penetrate the proposed injection interval. In addition, none of the three PA'd wells within the AOR penetrate the proposed injection interval.
- VII.
 1. The average injection rate is anticipated to be approximately 30,000 BWPD. The maximum rate will be approximately 40,000 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
 2. This will be a closed system.

3. Mesquite SWD, Inc. will initially inject water into the subject well at or below a surface injection pressure in compliance with the Division's limit of 0.2 psi/ft., or approximately 3,324 psi. If a surface injection pressure above 3,324 psi is necessary, Mesquite SWD, Inc. will conduct a step rate injection test to determine the fracture pressure of the Siluro-Devonian formation in this area.
4. Produced water from the Bone Spring, Wolfcamp, Delaware and other producing formations originating from wells in this area will be injected into the subject well. Produced water analysis from various producing wells in Township 26 South, Ranges 30 and 31 East, that produce from the Delaware, Bone Spring and Wolfcamp formations was previously submitted with the original C-108. These produced water analyses were obtained from the GO Tech website.
5. An examination of Division records indicate that the Siluro-Devonian formation is not productive within one mile of the Straight Flush SWD No. 1. Produced water analysis from the Devonian formation within the Remuda Basin Unit Well No. 1, located in Section 24, Township 23 South, Range 29 East, NMPM, and from the Bell Lake Unit Well No. 6 and Antelope Ridge Unit Well No. 3, located respectively in Sections 6 and 34, both in Township 23 South, Range 34 East, NMPM, Eddy County, New Mexico, were obtained from the Go Tech website, and were previously submitted with the original Form C-108. These produced water analyses show an average TDS of 68,192 Mg/L.

VIII. Geologic Formation: Devonian/Silurian
Estimated Top: 16,623'
Thickness: 1,177'
Lithology: Limestone w/Interbedded Dolomites

(Note: The top of the Devonian interval cited above was determined by examination of the well file for the offset JF Harrison Federal Well No. 1, located in Unit D of Section 12, Township 25 South, Range 30 East, NMPM. This well is located approximately 6.0 miles Northeast of the proposed Straight Flush SWD No. 1, and was permitted for injection into the Devonian interval by Order No. SWD-1259 issued on January 3, 2011. Division records also indicate that this well is active, is currently injecting approximately 11,269 BWPB into the Devonian interval, and has cumulatively injected 31,650,009 barrels of water).

(Note: An examination of OCD well records indicate that there are no active Devonian produced water disposal wells located within the nine-section area surrounding and including Section 4, T-26S, R-30E, NMPM.)

USDW's:

According to data obtained from the New Mexico State Engineer, there are four fresh water wells located within one mile of the Straight Flush SWD No. 1 (See OSE Report previously submitted). Average depth to fresh water is approximately 219 feet.

Poor
assessment

TOW at 219'

What are
the USDWs

- IX. Formation chemical stimulation may be applied after completion. No other stimulation is currently planned.
- X. Logs will be filed subsequent to the completion of drilling operations. Density-Neutron is planned to be run from surface to TD.
- XI. Mesquite is attempting to obtain a fresh water sample from a fresh water well located within one-mile of the Straight Flush SWD No. 1. If possible to obtain, a water analysis will be performed and provided to the Division.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.

Rustler Fm

+ Dewey
Lake Fm
(near surface)

Affidavit of Publication is attached. Amended Publication notice ran in the Artesia Daily Press on February 3, 2019.

INJECTION WELL DATA SHEET

OPERATOR: Mesquite SWD, Inc.

WELL NAME & NUMBER: Straight Flush SWD Well No. 1

WELL LOCATION: S.L.: 1330' FSL & 525' FWL BHL: 1330' FSL & 300' FWL L 4 26S 30E
FOOTAGE LOCATION Unit Section Township Range

WELLBORE SCHEMATIC
(SEE ATTACHED)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26" Casing Size: 20" 94# J-55 BTC @ 825'
Cemented with: 1700 sx. or ft³
Top of Cement: Surface Method Determined: Circulate

1st Intermediate Casing

Hole Size: 17.5" Casing Size: 13.375" 68# P-110 @ 3,577'
Cemented with: 2500 sx. or ft³
Top of Cement: Surface Method Determined: Circulate

2nd Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625" 53.5# P-110 BTC @ 11,250'
Cemented with: 2,800 sx. Staged; DV Tool @ 4,500'
Top of Cement: Surface Method Determined: Circulate

Liner

Hole Size: 8.5" Casing Size: 7.625" 39# P-110 UFJ Liner @ 10,750'-16,623'
Cemented with: 400 sx. or ft³
Top of Cement: 10,750' (Liner Top) Method Determined: Circulate

Total Depth: Approximately 17,800'

Injection Interval

Approximately 16,623' To 17,800'
(Perforated or Open Hole; indicate which) Open Hole

Tubing Size: Tapered String 7" 26# P-110/5 1/2" 17# P-110 Lining Material: Fiberglass Coated

Type of Packer: Lok-Set or Equivalent

Packer Setting Depth: Approximately 16,573'

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

Additional Data

1. Is this a new well drilled for injection: X Yes No
If no, for what purpose was the well originally drilled? _____

2. Name of Injection Formation: Siluro-Devonian
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: None

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: According to OCD well records, pools in this area include the Purple Sage-Wolfcamp (Gas) Pool (Depth 11,000' - 12,000'), South Corral Canyon-Bone Spring Pool (Depth 7,000' - 9,000'), and East Brushy Draw-Delaware Pool (Depth: 5,700' - 7,200').

Straight Flush SWD No. 1: Proposed Wellbore Schematic

Surface Location: 1330' FSL & 525' FWL (Unit L)

Bottomhole Location: 1330' FSL & 300' FWL (Unit L)

Section 4, T-26S, R-30E, NMPM, Eddy County, NM

Surface Casing:

Hole Size: 26"
Size: 20" 94# J-55
Set @: 825'
Sx. Cmt: 1700
TOC: Surface

1st Intermediate Casing:

Hole Size: 17.5"
Size: 13.375" 68# P-110
Set @: 3,577' **DVT @ 4,500'**
Sx. Cmt: 2,500
TOC: Surface

2nd Intermediate Casing

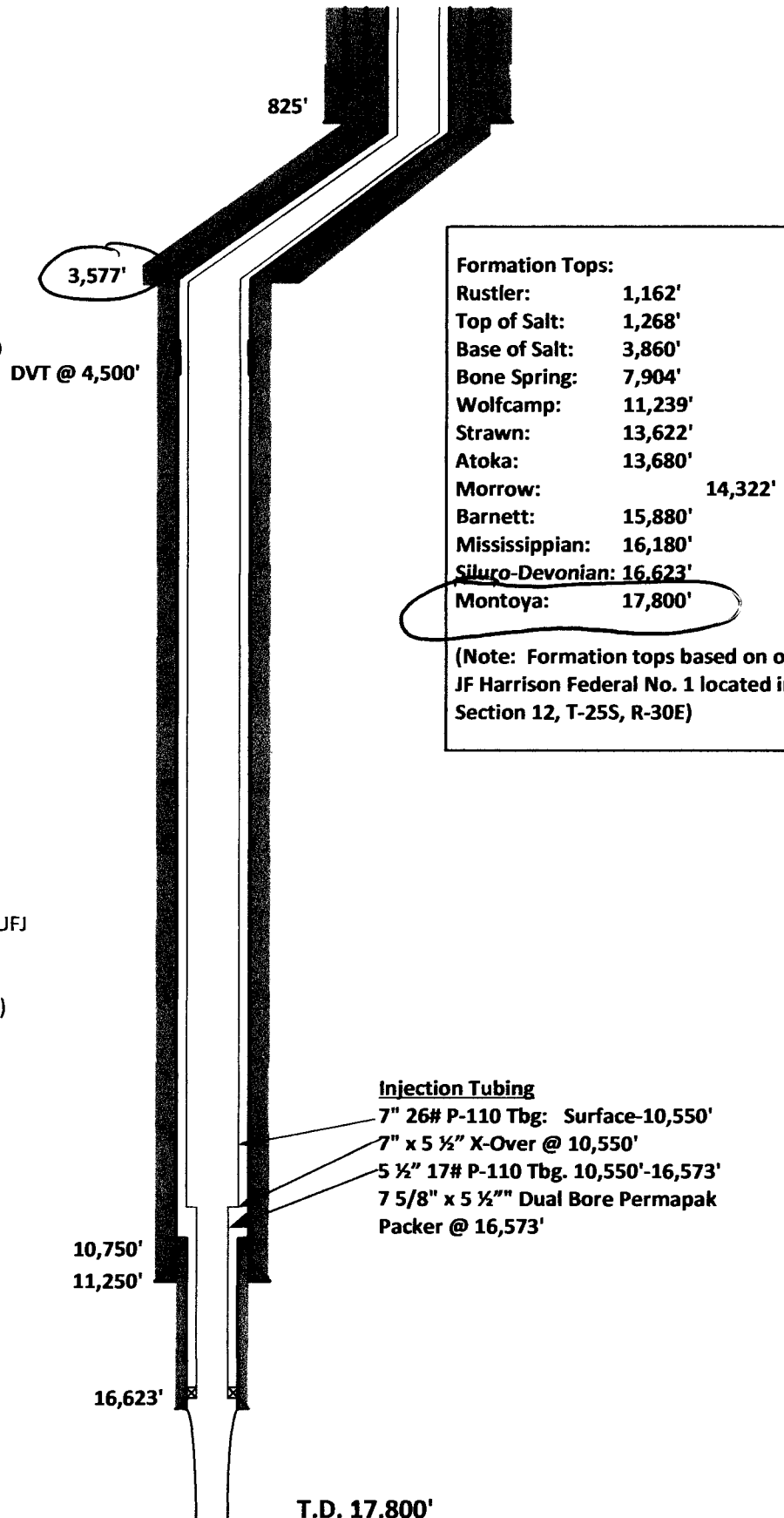
Hole Size: 12.25"
Size: 9.625 53.5# P-110
Set @: 11,250'
Stage Cemented
DV Tool @ 4,500'
Both Stages Circulate
TOC: Surface

Liner

Hole Size: 8.5"
Size: 7.625" 39# P-110 UFJ
Set @: 10,750'-16,623'
Sx. Cmt: 400
TOC: 10,750' (Liner Top)

Open Hole Injection Interval

Hole Size: 6 1/2"
Interval: 16,623'-17,800'



Formation Tops:

Rustler: 1,162'
Top of Salt: 1,268'
Base of Salt: 3,860'
Bone Spring: 7,904'
Wolfcamp: 11,239'
Strawn: 13,622'
Atoka: 13,680'
Morrow: 14,322'
Barnett: 15,880'
Mississippian: 16,180'
Siluro-Devonian: 16,623'
Montoya: 17,800'

(Note: Formation tops based on offset
JF Harrison Federal No. 1 located in
Section 12, T-25S, R-30E)

Injection Tubing

7" 26# P-110 Tbg: Surface-10,550'
7" x 5 1/2" X-Over @ 10,550'
5 1/2" 17# P-110 Tbg. 10,550'-16,573'
7 5/8" x 5 1/2" Dual Bore Permapak
Packer @ 16,573'



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub- basin	County	Q Q Q			Sec	Tws	Rng	X	Y	DepthWell	Water	
				64	16	4							DepthWater	Column
<u>C 01360</u>		CUB	ED	4	3	3	05	26S	30E	602997	3548152	770	173	597
<u>C 01361</u>		CUB	ED	3	4	3	05	26S	30E	603240	3548157	775	184	591
<u>C 03483</u>		C	ED	4	4	4	05	26S	30E	604296	3548251	700	200	500
<u>C 03581</u> POD1		CUB	ED	4	4	4	05	26S	30E	604298	3548291	800	320	480

Average Depth to Water: **219 feet**

Minimum Depth: **173 feet**

Maximum Depth: **320 feet**

Record Count: 4

PLSS Search:

Section(s): 3, 4, 5, 8, 9, 10 **Township:** 26S **Range:** 30E

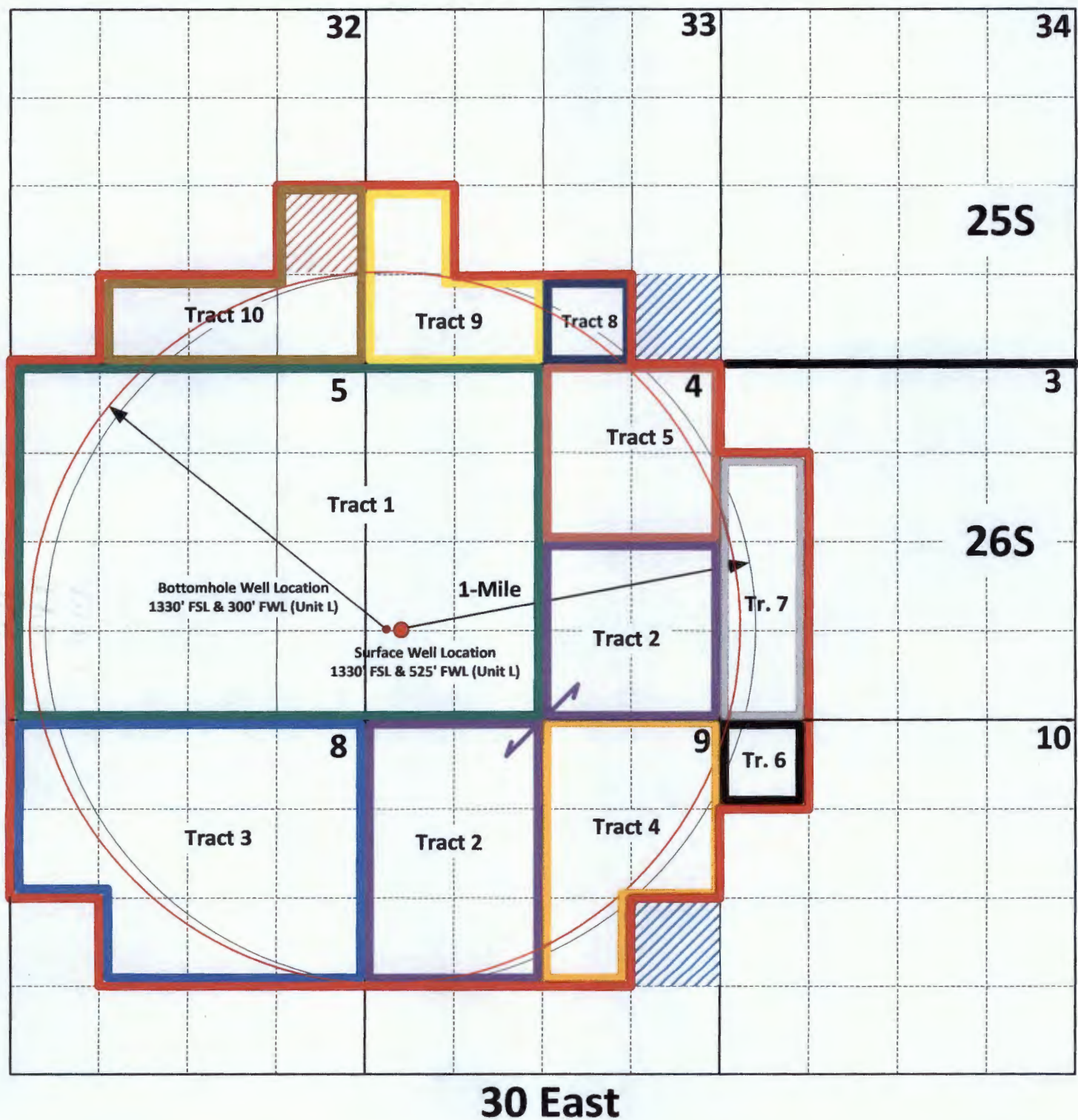
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/19/18 9:33 AM

WATER COLUMN/ AVERAGE DEPTH
TO WATER

MESQUITE SWD, INC.
AMENDED C-108: STRAIGHT FLUSH SWD WELL NO. 1
ADDITIONAL AREA OF REVIEW WELLS (NOT YET DRILLED)

30-015-45476	BOPCO, L.P.	Poker Lake Unit 21 BD	102H	Gas	NYD	452'	S	948'	W	M	21	25S	30E	10,827'	21,274'	Wolfcamp
					BHL	200'	S	990'	W	M	33	25S	30E	Proposed Depths		
30-015-45512	BOPCO, L.P.	Poker Lake Unit 21 BD	104H	Gas	NYD	395'	S	1780'	W	N	21	25S	30E	10,903'	21,372'	Wolfcamp
					BHL	200'	S	2310'	W	N	33	25S	30E	Proposed Depths		
30-015-45513	BOPCO, L.P.	Poker Lake Unit 21 BD	121H	Gas	NYD	452'	S	888'	W	M	21	25S	30E	11,155'	21,624'	Wolfcamp
					BHL	200'	S	330'	W	M	33	25S	30E	Proposed Depths		
30-015-45514	BOPCO, L.P.	Poker Lake Unit 21 BD	123H	Gas	NYD	395'	S	1719'	W	N	21	25S	30E	11,207'	21,664'	Wolfcamp
					BHL	200'	S	1650'	W	N	33	25S	30E	Proposed Depths		
30-015-45515	BOPCO, L.P.	Poker Lake Unit 21 BD	124H	Gas	NYD	395'	S	1749'	W	N	21	25S	30E	11,207'	21,683'	Wolfcamp
					BHL	201'	S	2310'	W	N	33	25S	30E	Proposed Depths		
30-015-45477	BOPCO, L.P.	Poker Lake Unit 21 BD	901H	Oil	NYD	452'	S	858'	W	M	21	25S	30E	10,750'	21,214'	Bone Spring
					BHL	200'	S	330'	W	M	33	25S	30E	Proposed Depths		
30-015-45470	BOPCO, L.P.	Poker Lake Unit 20 BD	108H	Gas	NYD	330'	S	600'	E	P	20	25S	30E	11,213'	21,701'	Wolfcamp
					BHL	200'	S	330'	E	P	32	25S	30E	Proposed Depths		
30-015-45624	BOPCO, L.P.	Poker Lake Unit 20 BD	125H	Gas	NYD	230'	S	1979'	E	O	20	25S	30E	11,455'	21,948'	Wolfcamp
					BHL	200'	S	2310'	E	O	32	25S	30E	Proposed Depths		
30-015-45625	BOPCO, L.P.	Poker Lake Unit 20 BD	126H	Gas	NYD	230'	S	1949'	E	O	20	25S	30E	11,457'	21,951'	Wolfcamp
					BHL	200'	S	1650'	E	O	32	25S	30E	Proposed Depths		
30-015-45626	BOPCO, L.P.	Poker Lake Unit 20 BD	127H	Gas	NYD	330'	S	660'	E	P	20	25S	30E	11,571'	22,077'	Wolfcamp
					BHL	200'	S	990'	E	P	32	25S	30E	Proposed Depths		
30-015-45627	BOPCO, L.P.	Poker Lake Unit 20 BD	128H	Gas	NYD	330'	S	630'	E	P	20	25S	30E	11,516'	22,017'	Wolfcamp
					BHL	201'	S	330'	E	P	32	25S	30E	Proposed Depths		
30-015-45628	BOPCO, L.P.	Poker Lake Unit 20 BD	705H	Oil	NYD	230'	S	2039'	E	O	20	25S	30E	9,510'	19,956'	Bone Spring
					BHL	201'	S	2310'	E	O	32	25S	30E	Proposed Depths		
30-015-45473	BOPCO, L.P.	Poker Lake Unit 20 BD	707H	Oil	NYD	330'	S	720'	E	P	20	25S	30E	9,557'	20,008'	Bone Spring
					BHL	200'	S	990'	E	P	32	25S	30E	Proposed Depths		
30-015-45538	BOPCO, L.P.	Poker Lake Unit 20 BD	905H	Oil	NYD	230'	S	2009'	E	O	20	25S	30E	10,711'	21,165'	Bone Spring
					BHL	200'	S	2310'	E	O	32	25S	30E	Proposed Depths		
30-015-45475	BOPCO, L.P.	Poker Lake Unit 20 BD	907H	Oil	NYD	330'	S	690'	E	P	20	25S	30E	10,789'	21,254'	Bone Spring
					BHL	201'	S	990'	E	P	32	25S	30E	Proposed Depths		



Amended C-108 Application
Mesquite SWD, Inc.
Straight Flush SWD No. 1
1-Mile Notice Area

- Amended 1-Mile Notice Area
- ▨ Notice Tract Added
- ▨ Notice Tract Deleted

Affidavit of Publication

No. 24983

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 February 3, 2019

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

4 day of February 2019



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Mesquite SWD, Inc., P.O. Box 1479, Carlsbad, New Mexico 88221-1479, previously filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to utilize its proposed Straight Flush SWD No. 1 (API No. N/A) to be drilled 1330 feet from the South line and 525 feet from the West line (Unit L) of Section 4, Township 26 South, Range 30 East, NMPM, Eddy County, New Mexico and complete the well as a produced water disposal well in the Siluro-Devonian formation. Injection is to occur through the open-hole interval from approximately 16,623 feet to 17,800 feet.

Mesquite SWD, Inc. has now filed an amended Form C-108 changing the bottom hole well location for the Straight Flush SWD No. 1 to 1330 feet from the South line and 300 feet from the West line (Unit L) of Section 4, Township 26 South, Range 30 East, NMPM, Eddy County, New Mexico. The well will be drilled from the original surface location. Minor changes to the setting depths of the surface and 1st intermediate casing strings are also being proposed.

Produced water from the Bone Spring, Wolfcamp and other formations originating from wells in this area will be injected into the Straight Flush SWD No. 1 at average and maximum rates of 30,000 and 40,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 3,324 psi., in compliance with Division regulations. The maximum surface injection pressure will be determined by step rate injection test.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Ms. Melanie Wilson-Regulatory Analyst-Mesquite SWD, Inc. at (575) 914-1461 or David Catanach-Agent at (505) 690-9453.

Published in the Artesia Daily Press, Artesia, N.M., Feb. 3, 2019 Legal No. 24983.

February 7, 2019

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: See Attached Notice List

Re: Mesquite SWD, Inc.
Amended Form C-108 (Application for Authorization to Inject)
Straight Flush SWD Well No. 1
API No. (Not Yet Assigned)
Surface Location: 1330' FSL & 525' FWL (Unit L)
Bottom Hole Location: 1330' FSL & 300' FWL (Unit L)
Both in Section 4, T-26S, R-30E, NMPM,
Eddy County, New Mexico

Ladies & Gentlemen:

On or about December 5, 2018 all parties on the attached notice list were provided a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Mesquite SWD, Inc. ("Mesquite"), Straight Flush SWD No. 1 which was to be drilled 1330 feet from the South line and 525 feet from the West line (Unit L) of Section 4, Township 26 South, Range 30 East, NMPM, Eddy County, New Mexico. Please be advised that pursuant to an agreement between Mesquite and an offset operator, the Straight Flush SWD No. 1 will now be drilled from the original surface location to a **Bottom Hole location 1330 feet from the South line and 300 feet from the West line (Unit L) of Section 4, Township 26 South, Range 30 East, NMPM.** As a result of that location change, you are being provided, as an offset operator/leasehold owner, or as the owner of the surface where the well is located, a second notice of this amended application.

Mesquite SWD, Inc. proposes to drill the Straight Flush SWD No. 1 and utilize the well as a produced water disposal well, injection to occur into the Siluro-Devonian formation through the open-hole interval from approximately 16,623 feet to 17,800 feet.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (505) 690-9453.

Sincerely,



David Catanach-Agent
Mesquite SWD, Inc.
P.O. Box 1479
Carlsbad, New Mexico 88221-1479

Xc: OCD-Artesia

**Amended Form C-108 Application
Mesquite SWD, Inc.
Straight Flush SWD No. 1
Section 4, T-26 South, R-30 East, NMPM
Notice List (Offset Operators and/or Leasehold Owners)**

(See Attached Tract Map)

**Tract 1: Section 4-26S-30E: W/2
 Section 5-26S-30E: All**

***EOG A Resources, Inc.
105 S. Fourth Street
Artesia, New Mexico 88210**

**EOG M Resources, Inc.
P.O. Box 840
Artesia, New Mexico 88211**

***EOG Y Resources, Inc.
105 S. Fourth Street
Artesia, New Mexico 88210**

***801 LLC
105 S. Fourth Street
Artesia, New Mexico 88210**

***(Collectively "EOG Resources, Inc. Group")**

**Tract 2: Section 4-26S-30E: SE/4
 Section 9-26S-30E: NW/4 & N/2 SW/4**

**EOG Resources, Inc.
P.O. Box 2267
Midland, Texas 79702**

**RKI Exploration & Production, LLC
3500 One Williams Center
Tulsa, Oklahoma 74172**

Tract 3: Section 8-26S-30E: N/2, NE/4 SW/4, N/2 SE/4

EOG Y Resources, Inc.

**Oxy Y-1 Company
P.O. Box 27570
Houston, Texas 77227**

**Amended Form C-108 Application
Mesquite SWD, Inc.
Straight Flush SWD No. 1
Notice List (Offset Operators and/or Leasehold Owners) Cont.**

Tract 3: Section 8-26S-30E: N/2, NE/4 SW/4, N/2 SE/4 (Cont.)

EOG M Resources, Inc.

EOG A Resources, Inc.

**XTO Holdings, LLC
810 Houston Street
Fort Worth, Texas 76102**

**Mack Energy Corp.
P.O. Box 960
Artesia, New Mexico 88211-0960**

Tract 4: Section 9-26S-30E: NE/4, NW/4 SE/4

RKI Exploration & Production, LLC

Tract 5: Section 4-26S-30E: NE/4

***CTV O & G NM, LLC
*SRBI O & G NM, LLC
*Thru Line O & G NM, LLC
*Keystone O & G NM, LLC *("Collectively Keystone Group")
*LMBI O & G, NM, LLC
201 Main Street; #2700
Fort Worth, Texas 76102**

**Chevron USA, Inc.
6301 Deauville Blvd.
Midland, Texas 79706**

Tract 6: Section 10-26S-30E: NW/4 NW/4

***CTV O & G NM, LLC
*SRBI O & G NM, LLC
*Thru Line O & G NM, LLC *(Collectively "Keystone Group")
*Keystone O & G NM, LLC
*LMBI O & G, NM, LLC**

Chevron USA, Inc.

Amended Form C-108 Application
Mesquite SWD, Inc.
Straight Flush SWD No. 1
Notice List (Offset Operators and/or Leasehold Owners) Cont.

Tract 7: **Section 3-26S-30E: W/2 SW/4 & SW/4 NW/4**

*CTV O & G NM, LLC
*SRBI O & G NM, LLC
*Thru Line O & G NM, LLC *(Collectively "Keystone Group")
*Keystone O & G NM, LLC
*LMBI O & G, NM, LLC

Chevron USA, Inc.

Tract 8: **Section 33-25S-30E: SW/4 SE/4**

*CTV O & G NM, LLC
*SRBI O & G NM, LLC
*Thru Line O & G NM, LLC
*SSB 1993C O & G NM, LLC *(Collectively "Keystone Group")
*PRB II 1993C O & G NM, LLC
*RFB 1993C O & G NM, LLC
*MLB O & G NM, LLC
*ACB O & G NM, LLC
*TRB O & G NM, LLC
*CMB O & G NM, LLC

Chevron USA, Inc.

Tract 9: **Section 33-25S-30E: S/2 SW/4 & NW/4 SW/4**

*CTV O & G NM, LLC
*SRBI O & G NM, LLC
*Thru Line O & G NM, LLC
*Keystone O & G NM, LLC
*LMBI O & G NM, LLC *(Collectively "Keystone Group")
*MLB O & G NM, LLC
*ACB O & G NM, LLC
*CMB O & G NM, LLC
*Capital Partnership II O & G NM, LLC
*32 Minerals O & G NM, LLC
*(Collectively "Keystone Group")

Chevron USA, Inc.

BOPCO, LP
6401 Holiday Hill Rd. Building 5
Midland, Texas 79707

**Amended Form C-108 Application
Mesquite SWD, Inc.
Straight Flush SWD No. 1
Notice List (Offset Operators and/or Leasehold Owners) Cont.**

Tract 10: Section 32-25S-30E: S/2 SE/4, NE/4 SE/4 & SE/4 SW/4

**XTO Delaware Basin, LLC
22777 Springwoods Village Parkway
Spring, Texas 77389**

BOPCO, LP

Additional Notice:

(Surface Owner)

**Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220-6292**

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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.45	
Total	\$7.75	

XTO Delaware Basin, LLC
22777 Springwoods Village Pkwy.
Spring, Texas 77389

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

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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.45	
Total	\$7.75	

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

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

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.45	
Total	\$7.75	

BOPCO, LP
6401 Holiday Hill Rd. Bldg. 5
Midland, Texas 79707

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Chevron USA, Inc.
6301 Deauville Blvd.
Midland, Texas 79706

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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.45	
Total Po	\$7.75	

Keystone O & G NM, LLC
"Keystone Group"
201 Main Street; #2700
Fort Worth, Texas 76102

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Postage	\$1.45	
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Mack Energy Corp.
P.O. Box 960
Artesia, New Mexico 88211-0960

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810 Houston Street
Fort Worth, Texas 76102

City, State

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P.O. Box 27570
Houston, Texas 77227

City, State

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Sent To
RKI Exploration & Prod., LLC
3500 One Williams Center
Tulsa, Oklahoma 74172

City, State

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

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Sent To
EOG Resources, Inc.
P.O. Box 2267
Midland, Texas 79702

City, State

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ARTESIA, NM 88211

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Sent To
EOG M Resources, Inc.
P.O. Box 840
Artesia, New Mexico 88211

City, State

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Total P \$7.75

Sent To
EOG Resources, Inc. Group
105 S. Fourth Street
Artesia, New Mexico 88210

City, State

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

**Form C-108
Affirmative Statement
Mesquite SWD, Inc.
Straight Flush SWD No. 1
Section 4, T-26 South, R-30 East, NMPM,
Eddy County, New Mexico**

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

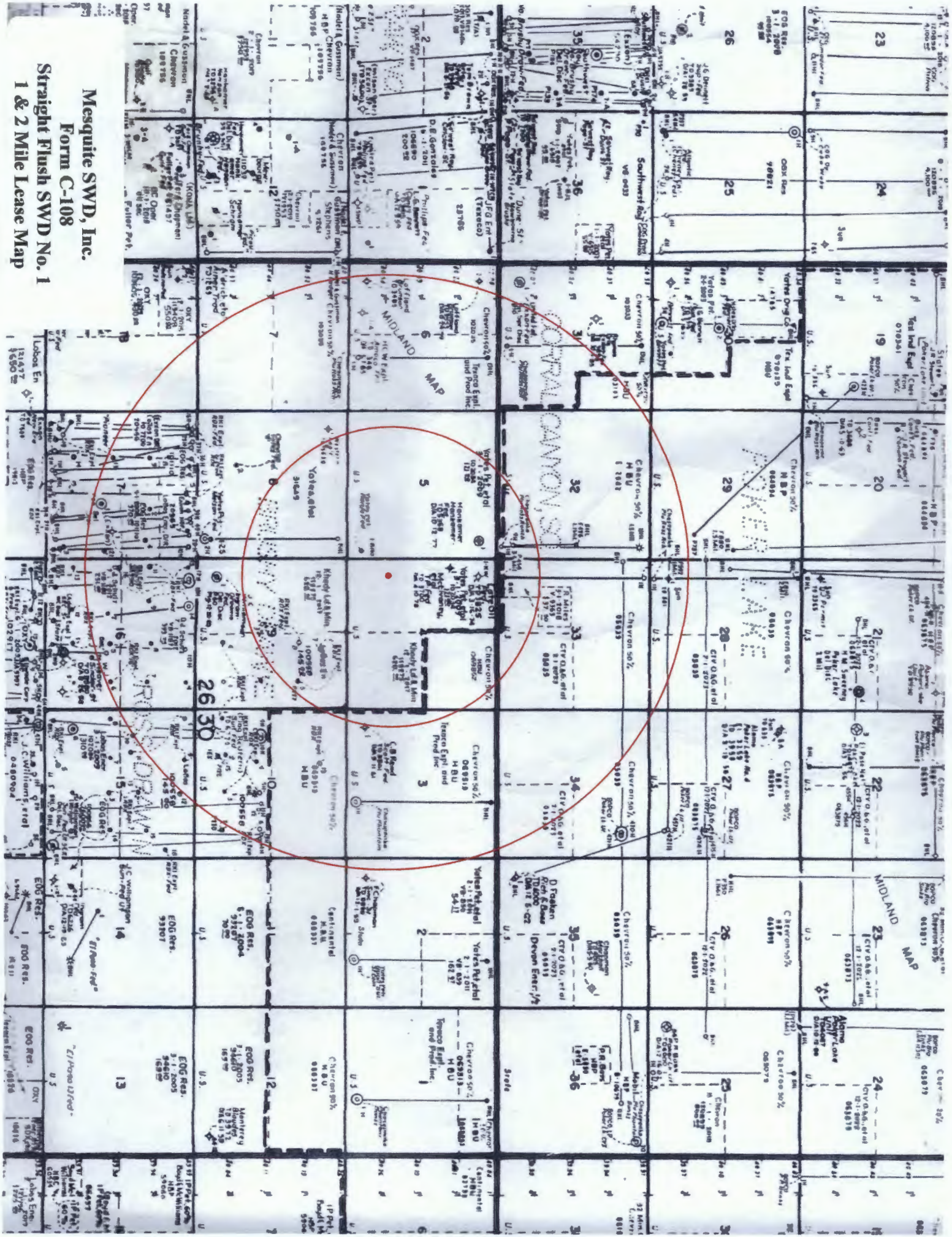


**David Catanach-Agent
Mesquite SWD, Inc.**

2/28/19

Date

Mesquite SWD, Inc.
Form C-108
Straight Flush SWD No. 1
1 & 2 Mile Lease Map



MESQUITE SWD, INC.
STRAIGHT FLUSH SWD WELL NO. 1
ONE-MILE AREA OF REVIEW WELL LIST (ACTIVE, NYD OR PA'D)

30-015-44477	RKI Exploration & Prod., LLC	Tucker Draw 9 4 Fed Com	1H	Oil	Active	250'	N	1463'	E	B	16	26S	30E	11,134'	18,822'	Wolfcamp
					BHL	2409'	S	2268'	E	J	4	26S	30E			
30-015-44478	RKI Exploration & Prod., LLC	Tucker Draw 9 4 Fed Com	2H	Oil	Active	250'	N	1438'	E	B	16	26S	30E	10,921'	18,588'	Wolfcamp
					BHL	2411'	S	1956'	E	J	4	26S	30E			
30-015-44486	RKI Exploration & Prod., LLC	Tucker Draw 9 4 Fed Com	3H	Oil	Active	250'	N	1413'	E	B	16	26S	30E	11,122'	18,740'	Wolfcamp
					BHL	2409'	S	1628'	E	J	4	26S	30E			
30-015-44487	RKI Exploration & Prod., LLC	Tucker Draw 9 4 Fed Com	4H	Oil	Active	260'	N	405'	E	A	16	26S	30E	10,952'	18,631'	Wolfcamp
					BHL	2408'	S	1303'	E	I	4	26S	30E			
30-015-44488	RKI Exploration & Prod., LLC	Tucker Draw 9 4 Fed Com	5H	Oil	Active	260'	N	380'	E	A	16	26S	30E	11,121'	18,824'	Wolfcamp
					BHL	2409'	S	1013'	E	I	4	26S	30E			
30-015-44479	RKI Exploration & Prod., LLC	Tucker Draw 9 4 Fed Com	6H	Oil	Active	260'	N	355'	E	A	16	26S	30E	10,941'	18,649'	Wolfcamp
					BHL	2408'	S	686'	E	I	4	26S	30E			
30-015-44480	RKI Exploration & Prod., LLC	Tucker Draw 9 4 Fed Com	7H	Oil	Active	260'	N	330'	E	A	16	26S	30E	11,114'	18,740'	Wolfcamp
					BHL	2423'	S	432'	E	I	4	26S	30E			
30-015-36923	EOG Y Resources, Inc.	Banjo BNO Federal	1	Oil	Active	510'	S	330'	E	P	5	26S	30E	8,700'		Bone Spring
30-015-38665	EOG Y Resources, Inc.	Melson Federal	2H	Oil	Active	330'	S	660'	E	P	8	26S	30E	7,804'	12,190'	Bone Spring
					BHL	398'	N	670'	E	A	8	26S	30E			
30-015-44698	EOG Y Resources, Inc.	Casey Jones 16 Federal Com	701H	Oil	NYD	280'	S	510'	W	M	16	26S	30E	10,592'	20,744'	Wolfcamp
					BHL	230'	N	330'	W	D	9	26S	30E	Proposed Depths		
30-015-44699	EOG Y Resources, Inc.	Casey Jones 16 Federal Com	702H	Oil	NYD	280'	S	545'	W	M	16	26S	30E	10,600'	20,767'	Wolfcamp
					BHL	230'	N	995'	W	D	9	26S	30E	Proposed Depths		
30-015-44700	EOG Y Resources, Inc.	Casey Jones 16 Federal Com	703H	Oil	NYD	260'	S	2000'	W	N	16	26S	30E	10,613'	20,768'	Wolfcamp
					BHL	230'	N	1660'	W	C	9	26S	30E	Proposed Depths		
30-015-44701	EOG Y Resources, Inc.	Casey Jones 16 Federal Com	704H	Oil	NYD	260'	S	2035'	W	N	16	26S	30E	10,619'	20,773'	Wolfcamp
					BHL	230'	N	2325'	W	C	9	26S	30E	Proposed Depths		
30-015-41630	RKI Exploration & Prod., LLC	RDX Federal 9	5	Oil	Active	1650'	N	990'	E	H	9	26S	30E	7,655'		Delaware
30-015-41257	RKI Exploration & Prod., LLC	RDX Federal 9	6	Oil	Active	580'	N	790'	E	A	9	26S	30E	7,645'		Delaware

MESQUITE SWD, INC.
STRAIGHT FLUSH SWD WELL NO. 1
ONE-MILE AREA OF REVIEW WELL LIST (ACTIVE, NYD OR PA'D)

30-015-40762	BOPCO, LP	Poker Lake CVX JV RR	7H	Oil	Active	150'	N	660'	W	D	33	25S	30E	8,866'	13,448'	Bone Spring
					BHL	359'	S	649'	W	M	33	25S	30E			
30-015-37938	BOPCO, LP	Poker Lake Unit CVX JV RR	5H	Oil	Active	175'	S	400'	E	P	32	25S	30E	8,918'	13,558'	Bone Spring
					BHL	350'	N	405'	E	A	32	25S	30E			
30-015-42054	BOPCO, LP	Poker Lake Unit CVX JV RR	9H	Oil	Active	595'	S	440'	E	P	32	25S	30E	10,069'	17,306'	Bone Spring
					BHL	2778'	S	491'	E	H	29	25S	30E			
30-015-21112	Aztec Oil & Gas Company	Federal KW	1	Oil	PA	660'	N	660'	W	D	4	26S	30E	3,825'	PA'd 5/76	Delaware
30-015-22389	McElvaney, Kincheloe & Becker	TP Federal	1	Oil	PA	1650'	N	330'	W	E	4	26S	30E	3,700'	PA'd 2/79	Delaware
30-015-22274	Curtis Hankamer	Hankamer Federal	1	Oil	PA	660'	N	660'	E	A	5	26S	30E	5,368'	PA'd 9/77	Delaware

Well Name	API No.	Section	Township	Range	Unit	Formation	Sample Source	PH	TDS: Mg/l	Sodium: Mg/l	Calcium: Mg/l	Iron: Mg/l	Magnesium: Mg/l	Chloride: Mg/l	Bicarbonate: Mg/l	Sulfate: Mg/l
USA #001	3001504776	20	26S	30E	E	DELAWARE	DST		176882					108700	139	1332
USA #001	3001504776	20	26S	30E	E	DELAWARE	DST		156733					98120	137	616
USA #001	3001504776	20	26S	30E	E	DELAWARE	UNKNOWN		159967					97900	137	1100
FED AY #001	3001523307	20	26S	30E	E			8.5	26932	15939	1240	7	0	22500	952	2280

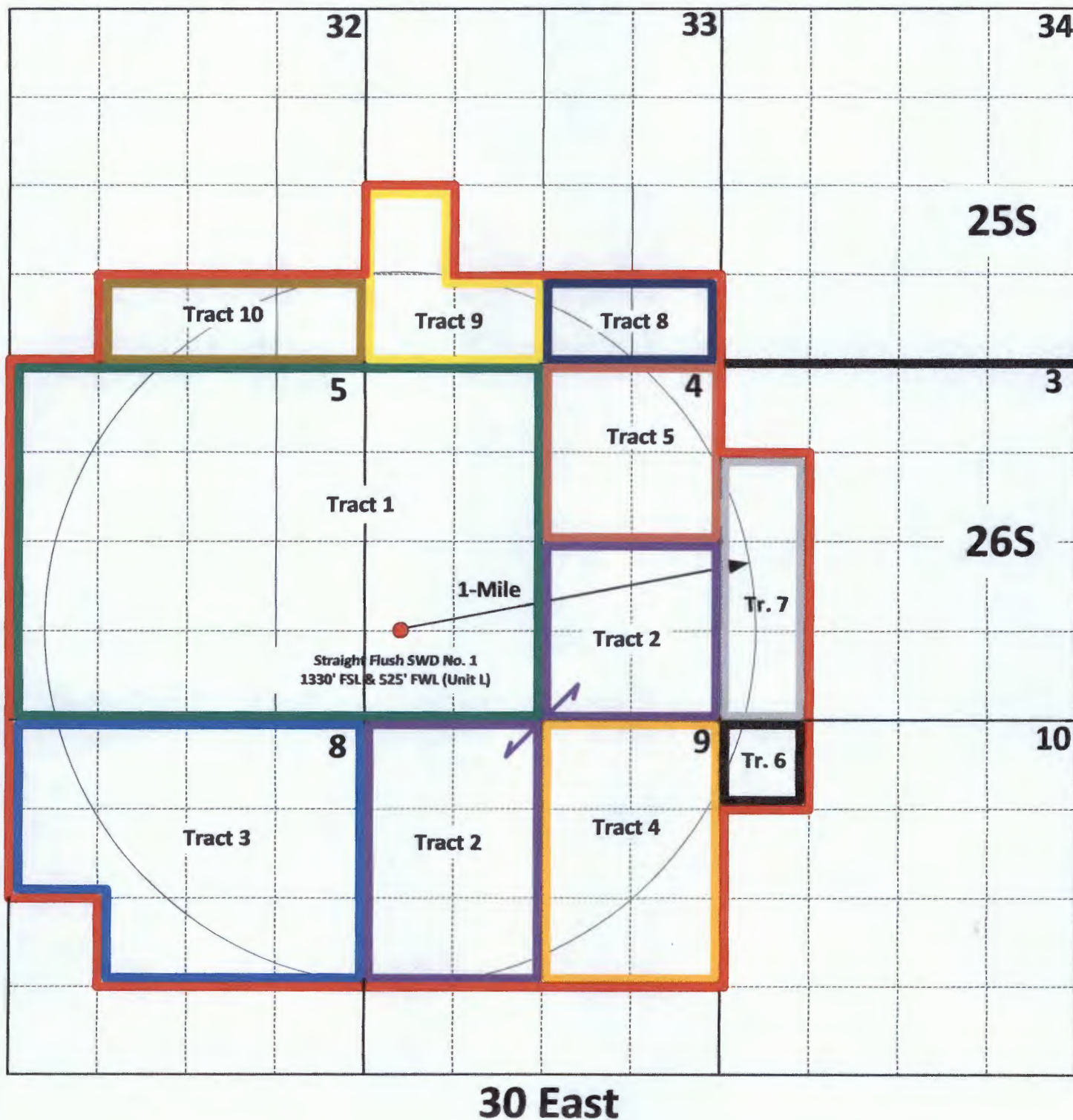
Mesquite SWD, Inc.
Form C-108: Straight Flush SWD No. 1
Source Water Analysis

Well Name	API No.	Section	Township	Range	Unit	Field	Formation	PH	TDS: Mg/l	Resistivity	Sodium: Mg/l	Calcium: Mg/l	Iron: Mg/l	Magnesium: Mg/l	Manganese: Mg/l	Chloride: Mg/l	Bicarbonate: Mg/l	Sulfate: Mg/l	CO2: Mg/l	
SNAPPING 2 STATE #013H	3001542113	2	265	31E	N		BONE SPRING 3RD SAND	6.5	94965.6		31352.7	3678.6	31.7	483.6	0.83	57489.5	244		0	200
SNAPPING 2 STATE #013H	3001542113	2	265	31E	N		BONE SPRING 3RD SAND	7	94518.2	0.08933	30031.5	3402.8	19.9	438.9		58782.2			355.2	200
SNAPPING 2 STATE #013H	3001542113	2	265	31E	N		BONE SPRING 3RD SAND	7.2	94863.9	0.08894	30234.8	3424	14.8	444		59015.2			365	200
SNAPPING 2 STATE #014H	3001542688	2	265	31E	P		WOLFCAAMP	7.3	81366.4	0.1004	26319.4	2687.4	26.1	326.7		50281.2			399.7	100
SNAPPING 2 STATE #013H	3001542113	2	265	31E	N		BONE SPRING 3RD SAND	6.8	91289.1	0.08914	28721.3	3440.7	16.3	437.4		58957.4			327.9	150
ROSS RANCH 10 FEDERAL #001	3001529605	10	265	31E	H			6.3	111430.5	0.07008	88922.4	3647.3	76.8	487.9	1.05	66173.2	366		0	300
ROSS RANCH 10 FEDERAL #001	3001529605	10	265	31E	H			7	54116.9		46100	5224	349.6	719.3	3.73	0	73.2		0	570
SNAPPING 10 FEDERAL #005H	3001540994	10	265	31E	P		BONE SPRING 2ND SAND	6.6	138161.9		44458.5	6280.8	29.7	781.3	0	84470	122		0	20
SNAPPING 10 FEDERAL #005H	3001540994	10	265	31E	P		BONE SPRING 2ND SAND	6.6	138376		44458.5	6280.8	29.7	781.3	0	84470	122		618	20
SNAPPING 10 FEDERAL #001H	3001537899	10	265	31E	B		AVALON UPPER	6.5	199638.8		68948.2	7560.4	111.2	1522.8	2.19	118195	732		0	500
SNAPPING 11 FEDERAL #001H	3001538193	11	265	31E	N		AVALON UPPER	6.1	223189.8		77010.7	8743.8	636.1	1649.2	6.75	134075	366		0	300
SNAPPING 2 STATE #003H	3001539036	2	265	31E	M		AVALON UPPER	6.1	223019		76001.7	10437.8	209.9	1922.4	4.5	131072	366		632	1100
SNAPPING 2 STATE #006H	3001539162	2	265	31E	O		AVALON UPPER	6.5	179788.3		71575.7	617.4	21.8	109.5	0	101374	3660		0	500
SNAPPING 2 STATE #006H	3001539162	2	265	31E	O		AVALON UPPER	6.5	179938		71575.7	617.4	21.8	109.5	0	101374	3660		844	500
SNAPPING 10 FEDERAL #003H	3001539866	10	265	31E	N		BONE SPRING 2ND SAND	6.5	152439.2		48495.7	6781.3	29.1	801.4	1.06	94035	244		0	100
E D WHITE FEDERAL NCT 1 #003	3001505886	26	265	31E	O	MASON NORTH	DELAWARE		212112							132100	195		425	
SNAPPING 10 FEDERAL #001H	3001537899	10	265	31E	B		AVALON UPPER	7.1	209352.4		70089.6	7327	203	1537	2.5	127230	146.4		600	600
SNAPPING 11 FEDERAL #001H	3001538193	11	265	31E	N		AVALON UPPER	7	196576.7		66797.3	5059	12	1066	0.9	118943	122		872	380
SNAPPING 11 FEDERAL #001H	3001538193	11	265	31E	N		AVALON UPPER	7	203078.9		72261.4	4407	112	904	1.5	122172	1098		658	80
SNAPPING 2 STATE #001Y	3001539104	2	265	31E	N		AVALON UPPER	7	162560.1		67137	3886	42	776	0.6	97161	1403		756	70

Mesquite SWD, Inc.
Form C-108: Straight Flush SWD No. 1
Source Water Analysis

Well Name & Number	API No.	Section	Township	Range	Unit	Field	Formation	Sample Source	Ph	Tds/Mg/l	Chloride/Mg/l	Bicarbonate/Mg/l	Sulfate/Mg/l
REMUDA BASIN UNIT #001	3001503691	24	23S	29E	J	REMUDA	DEVONIAN	SWAB		64582	37500	610	1700
REMUDA BASIN UNIT #001	3001503691	24	23S	29E	J	REMUDA	DEVONIAN	SWAB		56922	29000	1740	4980
BELL LAKE UNIT #006	3002508483	6	23S	34E	O	BELL LAKE NORTH	DEVONIAN	HEATER TREATER	7	71078	42200	500	1000
ANTELOPE RIDGE UNIT #003	3002521082	34	23S	34E	K	ANTELOPE RIDGE	DEVONIAN	UNKNOWN	6.9	80187	47900	476	900

Mesquite SWD, Inc.
Form C-108: Straight Flush SWD No. 1
Injection Formation Water Analysis



C-108 Application
 Mesquite SWD, Inc.
 Straight Flush SWD No. 1
 1-Mile Notice Area

— 1-Mile Notice Area

December 5, 2018

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: See Attached Notice List

Re: Mesquite SWD, Inc.
Form C-108 (Application for Authorization to Inject)
Straight Flush SWD Well No. 1
API No. (Not Yet Assigned)
1330' FSL & 525' FWL, Unit L, Section 4, T-26S, R-30E, NMPM,
Eddy County, New Mexico

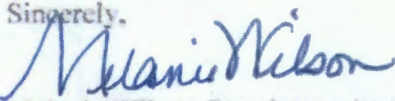
Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Mesquite SWD, Inc. Straight Flush SWD No. 1. You are being provided a copy of the application as an offset operator/leaseholder or as the owner of the surface where the proposed well is located. Mesquite SWD, Inc. proposes to drill the Straight Flush SWD No. 1 and utilize the well as a produced water disposal well, injection to occur into the Siluro-Devonian formation through the open-hole interval from approximately 16,623 feet to 17,800 feet.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (575) 914-1461.

Sincerely,



Melanie Wilson-Regulatory Analyst
Mesquite SWD, Inc.
P.O. Box 1479
Carlsbad, New Mexico 88221-1479

Enclosure

**Form C-108 Application
Mesquite SWD, Inc.
Straight Flush SWD No. 1
Section 4, T-26 South, R-30 East, NMPM
Notice List (Offset Operators and/or Leasehold Owners)**

(See Attached Tract Map)

Tract 1: **Section 4: W/2**
 Section 5: All

***EOG A Resources, Inc.**
105 S. Fourth Street
Artesia, New Mexico 88210

EOG M Resources, Inc.
P.O. Box 840
Artesia, New Mexico 88211

***EOG Y Resources, Inc.**
105 S. Fourth Street
Artesia, New Mexico 88210

***801 LLC**
105 S. Fourth Street
Artesia, New Mexico 88210

***(Collectively "EOG Resources, Inc. Group")**

Tract 2: **Section 4: SE/4**
 Section 9: NW/4 & N/2 SW/4

EOG Resources, Inc.
P.O. Box 2267
Midland, Texas 79702

RKI Exploration & Production, LLC
3817 NW Expressway
Suite 950
Oklahoma City, Oklahoma 73112

Tract 3: **Section 8: N/2, NE/4 SW/4, N/2 SE/4**

EOG Y Resources, Inc.

Oxy Y-1 Company
P.O. Box 27570
Houston, Texas 77227

Tract 3: Section 8: N/2, NE/4 SW/4, N/2 SE/4 (Cont.)

EOG M Resources, Inc.

EOG A Resources, Inc.

**XTO Holdings, LLC
810 Houston Street
Fort Worth, Texas 76102**

**Mack Energy Corp.
P.O. Box 960
Artesia, New Mexico 88211-0960**

Tract 4: Section 9: NE/4, N/2 SE/4

RKI Exploration & Production, LLC

Tract 5: Section 4: NE/4

***CTV O & G NM, LLC
*SRBI O & G NM, LLC
*Thru Line O & G NM, LLC
*Keystone O & G NM, LLC
*LMBI O & G, NM, LLC
201 Main Street; #2700
Fort Worth, Texas 76102**

***(Collectively "Keystone Group")**

**Chevron USA, Inc.
6301 Deauville Blvd.
Midland, Texas 79706**

Tract 6: Section 10: NW/4 NW/4

***CTV O & G NM, LLC
*SRBI O & G NM, LLC
*Thru Line O & G NM, LLC
*Keystone O & G NM, LLC
*LMBI O & G, NM, LLC**

***(Collectively "Keystone Group")**

Chevron USA, Inc.

Tract 7: Section 3: W/2 SW/4 & SW/4 NW/4

***CTV O & G NM, LLC**
***SRBI O & G NM, LLC**
***Thru Line O & G NM, LLC**
***Keystone O & G NM, LLC**
***LMBI O & G, NM, LLC**

***(Collectively "Keystone Group")**

Chevron USA, Inc.

Tract 8: Section 33: S/2 SE/4

***CTV O & G NM, LLC**
***SRBI O & G NM, LLC**
***Thru Line O & G NM, LLC**
***SSB 1993C O & G NM, LLC**
***PRB II 1993C O & G NM, LLC**
***RFB 1993C O & G NM, LLC**
***MLB O & G NM, LLC**
***ACB O & G NM, LLC**
***TRB O & G NM, LLC**
***CMB O & G NM, LLC**

***(Collectively "Keystone Group")**

Chevron USA, Inc.

Tract 9: Section 33: S/2 SW/4 & NW/4 SW/4

***CTV O & G NM, LLC**
***SRBI O & G NM, LLC**
***Thru Line O & G NM, LLC**
***Keystone O & G NM, LLC**
***LMBI O & G NM, LLC**
***MLB O & G NM, LLC**
***ACB O & G NM, LLC**
***CMB O & G NM, LLC**
***Capital Partnership II O & G NM, LLC**
***32 Minerals O & G NM, LLC**
***(Collectively "Keystone Group")**

Chevron USA, Inc.

BOPCO, LP
6401 Holiday Hill Rd. Building 5
Midland, Texas 79707

Tract 10: Section 32: S/2 SE/4 & SE/4 SW/4

**XTO Delaware Basin, LLC
22777 Springwoods Village Parkway
Spring, Texas 77389**

BOPCO, LP

Additional Notice:

(Surface Owner)

**Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220-6292**

Affidavit of Publication

No. 24928

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 December 4, 2018

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

4th day of December 2018



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Mesquite SWD, Inc., P.O. Box 1479, Carlsbad, New Mexico 88221-1479, has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to utilize its proposed Straight Flush SWD No. 1 (API No. N/A) to be drilled 1330 feet from the South line and 525 feet from the West line (Unit L) of Section 4, Township 26 South, Range 30 East, NMPM, Eddy County, New Mexico and complete the well as a produced water disposal well in the Siluro-Devonian formation. Injection is to occur through the open-hole interval from approximately 16,623 feet to 17,800 feet.

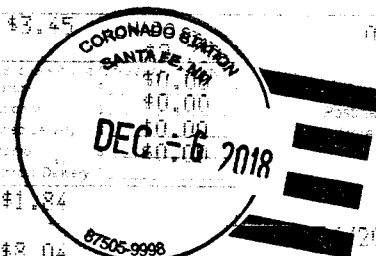
Produced water from the Bone Spring, Wolfcamp and other formations originating from wells in this area will be injected into the Straight Flush SWD No. 1 at average and maximum rates of 30,000 and 40,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 3,324 psi., which is in compliance with Division regulations. The maximum surface injection pressure will be determined by step rate injection test.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Ms. Melanie Wilson-Regulatory Analyst-Mesquite SWD, Inc. at (575) 914-1461.

Published in the Artesia Daily Press, Artesia, N.M., Dec. 4, 2018 Legal No. 24928.

OKLAHOMA CITY, OK 73112



RKI Exploration & Prod., LLC
3817 NW Expressway
Suite 950
Oklahoma City, OK 73112

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810 Houston Street
Fort Worth, Texas 76102

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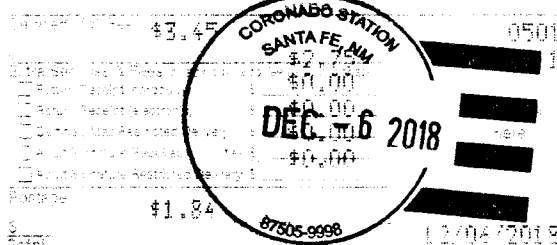
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Keystone O & G NM, LLC
"Keystone Group"
201 Main Street; #2700
Fort Worth, Texas 76102

HOUSTON, TX 77227



Oxy Y-t Company
P.O. Box 27570
Houston, Texas 77227

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Mack Energy Corp.
P.O. Box 960
Artesia, New Mexico 88211-0960

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Chevron USA, Inc.
6301 Deauville Blvd.
Midland, Texas 79706

MIDLAND: TX 79707

\$3.45

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\$1.84

12/06/2018

BOPCO, LP
6401 Holiday Hill Rd. Bldg. 5
Midland, Texas 79707

SPRING: TX 77389

\$3.45

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12/06/2018

XTO Delaware Basin, LLC
22777 Springwoods Village Pkwy.
Spring, Texas 77389

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

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12/06/2018

EOG Resources, Inc. Group
105 S. Fourth Street
Artesia, New Mexico 88210

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EOG Resources, Inc.
P.O. Box 840
Artesia, New Mexico 88211

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MIDLAND: TX 79702

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☐ Adult Signature Restricted Delivery \$0.00

Postage \$1.84

12/06/2018

EOG Resources, Inc.
P.O. Box 2267
Midland, Texas 79702

Dawson, Scott, EMNRD

From: McMillan, Michael, EMNRD
Sent: Wednesday, December 19, 2018 1:22 PM
To: Dawson, Scott, EMNRD
Subject: FW: Notification of Protest for Application to Inject -Straight Flush SWD No. 1
Attachments: Mesquite SraightFlushSWD#1 EOG.pdf

From: McMillan, Michael, EMNRD
Sent: Wednesday, December 19, 2018 1:21 PM
To: 'mjp1692@gmail.com' <mjp1692@gmail.com>
Cc: Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>; Chuck Moran (Charles_Moran@eogresources.com) <Charles_Moran@eogresources.com>
Subject: Notification of Protest for Application to Inject -Straight Flush SWD No. 1

RE:: Straight Flush SWD Well No. 1 (API 30-015-Pending; Admin. Appl pMAM1834455873) Unit L; Sec 4, T26, R30E, NMPM, Eddy County

Mr. Seay:

OCD was notified by EOG Resources Inc. that it is protesting this application. This party is identified as an affected person for the location being considered for the application. You are being notified Mesquite SWD, Inc.. wishes for this application to be considered, they must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained pending resolution of the protest. Please continue to provide OCD with information regarding the standing of this application. Please me call with any questions on this matter.

Contact for EOG Resources Inc.

Chuck Moran
Landman
5509 Champions Drive
Midland, TX. 77046-0521
Phone: 432.686.3600
E-mail: charles_moran@eogresources.com

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

Dawson, Scott, EMNRD

From: Charles Moran <Charles_Moran@eogresources.com>
Sent: Wednesday, December 19, 2018 12:35 PM
To: Jones, William V, EMNRD; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; Lowe, Leonard, EMNRD; Dawson, Scott, EMNRD
Subject: [EXT] Protest SWD Application - Mesquite Straight Flush SWD #1 / Unit L Sec. 4-26S-30E
Attachments: Application for Straight Flush SWD #1.pdf

Will Jones, Mike McMillan, Phillip Goetze, Leonard Lowe and Scott Dawson:

Gentlemen: EOG Resources, Inc. has received Mesquite SWD Inc.'s application for its Straight Flush SWD #1 in Unit L Sec. 4-26S-30E. EOG Resources, Inc. protests this application and requests this matter be set for hearing before proceeding.

SWD location:

Straight Flush SWD Well No. 1
1330' FSL & 525' FWL, Unit L, Section 4-T26S-R30E.
Eddy County, NM

EOG has been in contact with Mesquite SWD. I informed them of our intentions to protest this SWD and I understand they have volunteered to move the well.

If you have any questions, please do not hesitate to contact us.

Chuck Moran
EOG Resources, Inc. - Midland Division
432-686-3684

McMillan, Michael, EMNRD

From: Charles Moran <Charles_Moran@eogresources.com>
Sent: Tuesday, February 12, 2019 4:48 PM
To: Jones, William V, EMNRD; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; Lowe, Leonard, EMNRD; Dawson, Scott, EMNRD
Subject: [EXT] FW: Protest SWD Application - Mesquite Straight Flush SWD #1 / Unit L Sec. 4-26S-30E
Attachments: Amended Application for Straight Flush SWD #1.pdf

Will Jones, Mike McMillan, Phillip Goetze, Leonard Lowe and Scott Dawson:

Gentlemen: By the email below, EOG Resources, Inc. protested Mesquite SWD Inc.'s Straight Flush SWD #1 well (Unit L Sec. 4-26S-30E). We have been in discussions with Mesquite and understand they have filed the attached Revised Application for the SWD well which addressed our concerns. At this time EOG Resources, Inc. withdraws its protest to Mesquite's proposed SWD application based on this application being what NMOCD approves for the drilling of the SWD well.

If you have any question, please contact me.

Thank you.

Chuck Moran

*EOG Resources, Inc. – Midland Division
432-686-3684*

From: Charles Moran
Sent: Wednesday, December 19, 2018 1:35 PM
To: WilliamV.Jones@state.nm.us; McMillan, Michael, EMNRD (Michael.McMillan@state.nm.us) <Michael.McMillan@state.nm.us>; phillip.goetze@state.nm.us; Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>; scott.dawson@state.nm.us
Subject: Protest SWD Application - Mesquite Straight Flush SWD #1 / Unit L Sec. 4-26S-30E

Will Jones, Mike McMillan, Phillip Goetze, Leonard Lowe and Scott Dawson:

Gentlemen: EOG Resources, Inc. has received Mesquite SWD Inc.'s application for its Straight Flush SWD #1 in Unit L Sec. 4-26S-30E. EOG Resources, Inc. protests this application and requests this matter be set for hearing before proceeding.

SWD location:

Straight Flush SWD Well No. 1
1330' FSL & 525' FWL, Unit L, Section 4-T26S-R30E.
Eddy County, NM

EOG has been in contact with Mesquite SWD. I informed them of our intentions to protest this SWD and I understand they have volunteered to move the well.

If you have any questions, please do not hesitate to contact us.

Chuck Moran
EOG Resources, Inc. - Midland Division
432-686-3684



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V16.2]

DATE RECORD: First Rec: 2/11/2019 Admin Complete: 2/10/2019 or Suspended: _____ Add. Request/Reply: _____

ORDER TYPE: WFX / PMX / SWD Number: 1975 Order Date: _____ Legacy Permits/Orders: _____

Well No. 1 Well Name(s): Straight Flush SWD

API: 30-015-Pending Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

S: 1330 FSL 5-25 KWL
Footages 13; 1330 FSL 300 FLL Lot _____ or Unit L Sec 4 Tsp 26S Rge 30E County Edy

General Location: 12 miles SE/MH-94 Pool: _____ Pool No.: _____

BLM 100K Map: JA 1 Operator: Mesquite SWD Inc OGRID: K01968 Contact: D. Catarach

COMPLIANCE RULE 5.9: Total Wells: 33 Inactive: 2 Fincl Assur: OK Compl. Order? NO IS 5.9 OK? Yes Date: 2/1/2019

WELL FILE REVIEWED ☒ Current Status: Amended application addresses EOG's concerns for H2 drilling

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method	
Planned ___ or Existing ___	Surface	26" / 20"	825	Stage Tool	1700	SURFACE
Planned ___ or Existing ___	Interm/Prod	17 1/2" / 13 3/8"	3578		2500	SURFACE / VISUAL
Planned ___ or Existing ___	Interm/Prod	12 1/4" / 9 5/8"	11250	4500	2800	SURFACE / VISUAL
Planned ___ or Existing ___	Prod/Liner	8 5/8" / 7 5/8"	16623			
Planned ___ or Existing ___	Liner					
Planned ___ or Existing ___	OH / PERF	16623 / 17800		Inj Length 1177		

Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			MS	16150
Confining Unit: Litho. Struc. Por.			DU	16623
Proposed Inj Interval TOP:			MT	17800
Proposed Inj Interval BOTTOM:				
Confining Unit: Litho. Struc. Por.				
Adjacent Unit: Litho. Struc. Por.				

Completion/Operation Details:	
Drilled TD	17800
PBTD	
NEW TD	
NEW PBTD	
NEW Open Hole	<input type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Tubing Size	4 in. Inter Coated? <input checked="" type="checkbox"/>
Proposed Packer Depth	16573 ft
Min. Packer Depth	16523 (100-ft limit)
Proposed Max. Surface Press.	3324 psi
Admin. Inj. Press.	3324 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P N/A Noticed? ☐ BLM Sec Ord ☐ WIPP ☐ Noticed? ☐ Salt/Salado T. 26 B: 30 NW: Cliff House fm

FRESH WATER: Aquifer Dewey Lake Max Depth N/A HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: CALSA CAPITAN REEF: thru adj NA No. GW Wells in 1-Mile Radius? 0 FW Analysis? N/A

Disposal Fluid: Formation Source(s) Delaware Bone Springs Analysis? NO On Lease ☐ Operator Only ☐ or Commercial ☐

Disposal Interval: Inject Rate (Avg/Max BWPD): 30K/40K Protectable Waters? _____ Source: _____ System: Closed or Open

HC Potential: Producing Interval? N/A Formerly Producing? NO Method: Logs/DST/P&A/Other Reg 1016 2-Mi Radius Pool Map ☒

AOR Wells: 1/2-M Radius Map and Well List? ☒ No. Penetrating Wells: 0 [AOR Horizontals: _____ AOR SWDs: _____]

Penetrating Wells: No. Active Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date 2/4/2019 Mineral Owner BLM Surface Owner BLM N. Date 02-07-2019

RULE 26.7(A): Identified Tracts? ☒ Affected Persons: EOG Resources, KeyStone N. Date 2-07-2019

Order Conditions: Issues: _____

Additional COAs: 3H pressure / mudlog / CBL for uncemented / CBL across liner / Picks with



WELL RECORD & LOG

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1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) C-3483-POD1				OSE FILE NUMBER(S) C-3483					
	WELL OWNER NAME(S) Gregory Rockhouse Ranch Inc. & BLM				PHONE (OPTIONAL)					
	WELL OWNER MAILING ADDRESS 1108 W. Pierce Carlsbad, NM 88220				CITY Carlsbad		STATE NM			
	WELL LOCATION (FROM GPS)		DEGREES 32		MINUTES 03		SECONDS 56.50			
2. OPTIONAL	LATITUDE 32 03 56.50 N		LONGITUDE 103 53 42.20 W		* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
					* DATUM REQUIRED: WGS 84					
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS 0.5 miles east of EPNG well C-1361									
	Well Located on North Side of Pipeline Road, just east of oil/gas pad									
3. DRILLING INFORMATION	(2.5 ACRE) NE 1/4		(10 ACRE) SE 1/4		(40 ACRE) SE 1/4		(160 ACRE) SE 1/4			
	SECTION 05		TOWNSHIP 26S		RANGE 30		NORTH <input type="checkbox"/> SOUTH <input checked="" type="checkbox"/> WEST <input type="checkbox"/>			
	SUBDIVISION NAME				LOT NUMBER		BLOCK NUMBER			
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER			
4. WATER BEARING STRATA	LICENSE NUMBER WD-1509		NAME OF LICENSED DRILLER JOE ROYBAL & RICHARD BEAUREGARD				NAME OF WELL DRILLING COMPANY BMS DRLLG			
	DRILLING STARTED 06-03-11		DRILLING ENDED 06-08-11		DEPTH OF COMPLETED WELL (FT) 700'		BORE HOLE DEPTH (FT) 700'			
					DEPTH WATER FIRST ENCOUNTERED (FT) 200'		STATIC WATER LEVEL IN COMPLETED WELL (FT) 200'			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)									
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:									
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: TOP HEAD DRIVE									
	DEPTH (FT)		BORE HOLE DIA. (IN)		CASING MATERIAL		CONNECTION TYPE (CASING)			
	FROM	TO								
	0	200	12"		PVC (SCH 40)		GLUED			
DEPTH (FT)		THICKNESS (FT)		FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)						
FROM	TO									
200	255	55		SAND STONE WITH FRACTURES						
285	320	45		& SAND						
320	360	40		SAME FORMATION FRACTURES						
510	650	140		MIX GRAVEL GREEN CLAY - NOT MUCH WATER IN THIS FORMATION						
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA BAILER						TOTAL ESTIMATED WELL YIELD (GPM) 50+				

FOR OSE INTERNAL USE

FILE NUMBER **C-3483**

POD NUMBER **C-3483-POD1**

WELL RECORD & LOG (Version 6/9/08)

TRN NUMBER **476565**

LOCATION **26.30.5.4442423**

PAGE 1 OF 2

5. SEAL AND PUMP	TYPE OF PUMP: <input checked="" type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY:						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	700	12"	3/8 ROUND GRAVEL		SHOVEL

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?		
	FROM	TO					
		0	180'	180'	SAND + BROWN CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		180	200	20'	SAND STONE LAYER	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		200	255	55'	HARD SAND STONE FRACTURES	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		255	265	10'	GRAY CLAY SHALE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		265	275	10'	SAND GRAVEL	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		275	285	10'	GRAY CLAY WITH GRAVEL	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		285	300	35'	HARD SAND STONE FRACTURES	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		320	360	40'	SAME FORMATION	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		360	445	85'	BROWN CLAY SHALE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		445	510	65'	SAME FORMATION	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		510	650	40'	GRAVEL MIXED WITH CLAY GREEN	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		650	700	50'	PERFS 180' TO 260'	<input type="checkbox"/> YES	<input type="checkbox"/> NO
					280 TO 360'	<input type="checkbox"/> YES	<input type="checkbox"/> NO
				500 TO 680'	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL.

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:	
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.	
	ADDITIONAL STATEMENTS OR EXPLANATIONS: <div style="font-family: cursive; font-size: 1.2em;"> Well Location: North Side of Pipeline Road, 0.5 miles east of El Paso Natural Gas well C-1361. </div>		

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	<div style="font-family: cursive; font-size: 1.5em;"> </div>	<div style="font-family: cursive; font-size: 1.5em;"> 7-14-11 </div>
	SIGNATURE OF DRILLER	DATE

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

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WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	C-3483	POD NUMBER	C-23483-P001	TRN NUMBER	476.565
LOCATION	2630.5442423				

PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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STATE ENGINEER OFFICE

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-3581- Pod 1			OSE FILE NUMBER(S) 617-3581-1-1-1				
	WELL OWNER NAME(S) Gregory Rockhouse Ranch, Inc			PHONE (OPTIONAL) 885-4195				
	WELL OWNER MAILING ADDRESS 1108 W. Pierce St.			CITY CARLSBAD	STATE NM	ZIP 88220		
	WELL LOCATION (FROM OPS)	DEGREES LATITUDE 32	MINUTES 03	SECONDS 57.81	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 103			53		* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE El Paso Pipeline Rd 14 miles West of CR-1								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1654		NAME OF LICENSED DRILLER John Sirman		NAME OF WELL DRILLING COMPANY Sirman Drilling & Co., LLC			
	DRILLING STARTED 11/1/12	DRILLING ENDED 11/9/12	DEPTH OF COMPLETED WELL (FT) 800	BORE HOLE DEPTH (FT) 800	DEPTH WATER FIRST ENCOUNTERED (FT) 320			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 300 ± 0			
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	
	FROM	TO					SLOT SIZE (inches)	
	0	360	12"	PVC	glue	10"	DR-17	Blank
	360	400	12	PVC	glue	10"	DR-17	0.32 screen
	0	680	10"	PVC	Certalok	6"	DR-17	Blank
680	760	10	PVC	Certalok	6"	DR-17	0.32 screen	
760	800	10"	PVC	Certalok	6"	DR-17	Blank	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	12"	3/8 hole plug	10 Bags	gravity		
	60	400	12"	3/8 pea gravel packed silica	5 yds	gravity		
	0	20	10"	3/8 hole plug	6 Bags	gravity		
	600	800	10"	silica sand	130 Bags	gravity		
	20	600	10"	3/8 pea gravel	4 yds	gravity		

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WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER C-3581	POD NUMBER 1	TRN NUMBER 515401
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Expl

26S.30E.S.444

DEPTH (feet bgl)			THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
FROM	TO					
0	15	15	caliche sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
15	145	130	Brown sandy clay	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
145	175	30	Brown sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
175	225	50	gray shale	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
225	335	110	gray sand	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	3-5	
335	450	115	Blue shale	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
450	550	100	Red clay	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
550	565	15	Fine Red sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
565	610	45	Red shale	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
610	635	25	Brown sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
635	645	10	Blue shale	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
645	690	45	gray sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
690	710	20	Brown sand	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	40-50	
710	720	10	Red shale	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
720	740	20	Brown sandstone	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
740	800	40	Blue shale	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
				<input type="checkbox"/> Y <input type="checkbox"/> N		
				<input type="checkbox"/> Y <input type="checkbox"/> N		
		800		<input type="checkbox"/> Y <input type="checkbox"/> N		
				<input type="checkbox"/> Y <input type="checkbox"/> N		
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="checkbox"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm): 40-55		
<input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	<div style="display: flex; justify-content: space-between;"> <div>none</div> <div style="text-align: right;"> STATE ENGINEER ROSIN 12/13/12 </div> </div>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	
	<div style="display: flex; justify-content: space-between;"> <div>none</div> <div style="text-align: right;"> STATE ENGINEER ROSIN 12/13/12 </div> </div>	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div style="text-align: center;"> John Sieman DATE </div> </div>	<div style="display: flex; justify-content: center; align-items: center;"> <div style="text-align: right;">11/12/12</div> <div style="text-align: left;">12/13/12</div> </div>

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WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER

C-3581

POD NUMBER

1

TRN NUMBER

51540

Expl

26S.30E.S.444



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C 01361		3 4 3	05	26S	30E	603240	3548157

Driller License: 95	Driller Company: FOLK DRILLING CO.
Driller Name:	
Drill Start Date: 05/16/1952	Drill Finish Date: 06/01/1952
Log File Date: 11/17/1953	PCW Rcv Date:
Pump Type:	Estimated Yield:
Casing Size: 12.75	Depth Well: 775 feet
	Depth Water: 184 feet

Water Bearing Stratifications:	Top	Bottom	Description
	195	230	Sandstone/Gravel/Conglomerate
	255	295	Sandstone/Gravel/Conglomerate
	535	570	Sandstone/Gravel/Conglomerate
	695	735	Sandstone/Gravel/Conglomerate
	740	750	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	145	353
	418	555
	530	755

Meter Number: 16559	Meter Make: MASTERMETER
Meter Serial Number: 425026402	Meter Multiplier: 1.0000
Number of Dials: 9	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
07/01/2014	2014	432977	A	RPT	0
09/30/2014	2014	542020	A	RPT	33.464
11/20/2014	2014	71523	A	RPT	0
12/31/2014	2014	10869200	A	RPT	33.137
04/01/2015	2015	20528000	A	RPT	29.642
07/01/2015	2015	32166600	A	RPT	35.718

**YTD Meter Amounts:	Year	Amount
	2014	66.601
	2015	65.360

Meter Number: 16560	Meter Make: MASTERMETER
Meter Serial Number: 425026402	Meter Multiplier: 1.0000
Number of Dials: 9	Meter Type: Diversion

Unit of Measure:
Usage Multiplier:

Gallons

Return Flow Percent:
Reading Frequency:

Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
01/03/2012	2012	796624	A	RPT	0
04/01/2014	2014	322335	R	RPT Meter Rollover	161.335
07/01/2014	2014	422977	A	RPT	30.886
10/01/2014	2014	542008	A	RPT	36.529
11/20/2014	2014	597747	A	RPT	17.106
11/21/2014	2014	71523	A	RPT	0
12/31/2014	2014	108692	A	RPT	11.407
02/01/2015	2015	144071	A	RPT	10.857
03/02/2015	2015	177073	A	RPT	10.128
04/01/2015	2015	204100	A	RPT	8.294
04/30/2015	2015	246672	A	RPT	13.065
05/31/2015	2015	286863	A	RPT	12.334
07/01/2015	2015	329411	A	RPT	13.058
08/01/2015	2015	350757	A	RPT	6.551
08/31/2015	2015	384122	A	RPT	10.239
10/01/2015	2015	413202	A	RPT	8.924
10/01/2015	2015	0	A	RPT Meter Change	0
10/31/2015	2015	2767800	A	RPT	8.494
11/30/2015	2015	5636900	A	RPT	8.805
12/31/2015	2015	7565000	A	RPT	5.917
01/31/2016	2016	9247200	A	RPT	5.162
02/29/2016	2016	12569900	A	RPT	10.197
03/31/2016	2016	14698800	A	RPT	6.533
04/30/2016	2016	16601309	A	RPT	5.839
05/30/2016	2016	19235300	A	RPT	8.083
06/30/2016	2016	22955800	A	RPT	11.418
07/31/2016	2016	26437114	A	RPT	10.684
08/30/2016	2016	30077563	A	RPT	11.172
09/30/2016	2016	32631836	A	RPT	7.839
10/31/2016	2016	35193200	A	RPT	7.861
11/30/2016	2016	37896100	A	RPT	8.295
12/31/2016	2016	41023100	A	RPT	9.596

**YTD Meter Amounts:	Year	Amount
	2012	0
	2014	257.263
	2015	116.666
	2016	102.679

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

Pending Application for High-Volume Devonian Disposal Well
C-108 Application for the Straight Flush SWD No. 1 – Mesquite SWD Inc

