

RECEIVED: 5/12/2017	REVIEWER: PRG	TYPE: SWD	APP NO: PMAM 171325639
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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:** Deep Purple SWD #1**API:** 30-025-pending**Pool:** SWD; Devonian-Silurian**Pool Code:** 97869

**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.

Kay Havenor

Print or Type Name

See Application

Signature

May 12, 2017

Date

Phone Number

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Mesquite SWD, Inc
ADDRESS: P.O. Box 1478 Carlsbad, NM 88220
CONTACT PARTY: Kay Havenor PHONE: 575-626-4518
- 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: Kay Havenor TITLE: Agent
SIGNATURE: Kay C Havenor DATE: 4/28/2017
E-MAIL ADDRESS: Kay.Havenor@Gmail.com Mesquite SWD, Inc contact: ClayL.Wilson@hotmail.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.

INJECTION WELL DATA SHEET

OPERATOR: Mesquite SWD, Inc. (OGRID 161968)WELL NAME & NUMBER: Deep Purple SWD #1 30-025-NA (New Drill)WELL LOCATION: 1310' FSL & 1310' FWL 4 (M) 30 22S 32E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATIC

See attached diagram

PROPOSED WELL CONSTRUCTION DATASurface CasingHole Size: 26" Casing Size: 20" 133# J-55 BTCCemented with: 650 sx. *or* ft³Top of Cement: Surface Method Determined: CirculateIntermediate-1 CasingHole Size: 17-1/2" Casing Size: 13-3/8" 68#N-80 LTCCemented with: 1000 sx. *or* ft³Top of Cement: Surface Method Determined: CirculateIntermediate-2 CasingHole Size: 12 1/4" Casing Size: 9 5/8" 53.5# L-80 LTCCemented with: 1800 sx. *or* ft³Top of Cement: Surface Method Determined: Opr

Mesquite SWD, Inc.
 Deep Purple SWD #1
 1310' FSL & 1310' FWL
 Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

PROPOSED NEW WELL DIAGRAM

API: 30025xxxx
 Operator: Mesquite SWD, Inc
 Lease: Deep Purple SWD
 Location: Sec 30, T22S-R32E Lea Co., NM
 Footage: 1310 FSL, 1310 FWL

Well No:

KB: 3600' est
 GL: 3584' (Google)
 MSL of TD: -14400' est

Surface Csg

Size: 20" 133# J-55 BTC
 Set @: 880
 Sxs cmt: 1980
 Circ: Yes
 TOC: Surf
 Hole Size: 26"

Intermediate Csg

Size: 13-3/8" 68# HCN-80 LTC
 Set @: 4,510
 Sxs cmt: 1000
 Circ: Yes
 TOC: Surf
 Hole Size: 17-1/2"

Intermediate-2 Csg

Size: 9-5/8" 53.5# L-80 LTC
 Set @: 11650
 Sxs cmt: 1800
 Circ: Yes
 Hole Size: 12-1/4"

Liner

Size: 7-5/8" 398# P-110 Ultra FJ
 Top: 11415
 Set @: 16935
 Sx cmt: 2700
 Circ: Yes
 Hole Size: 8-1/2"

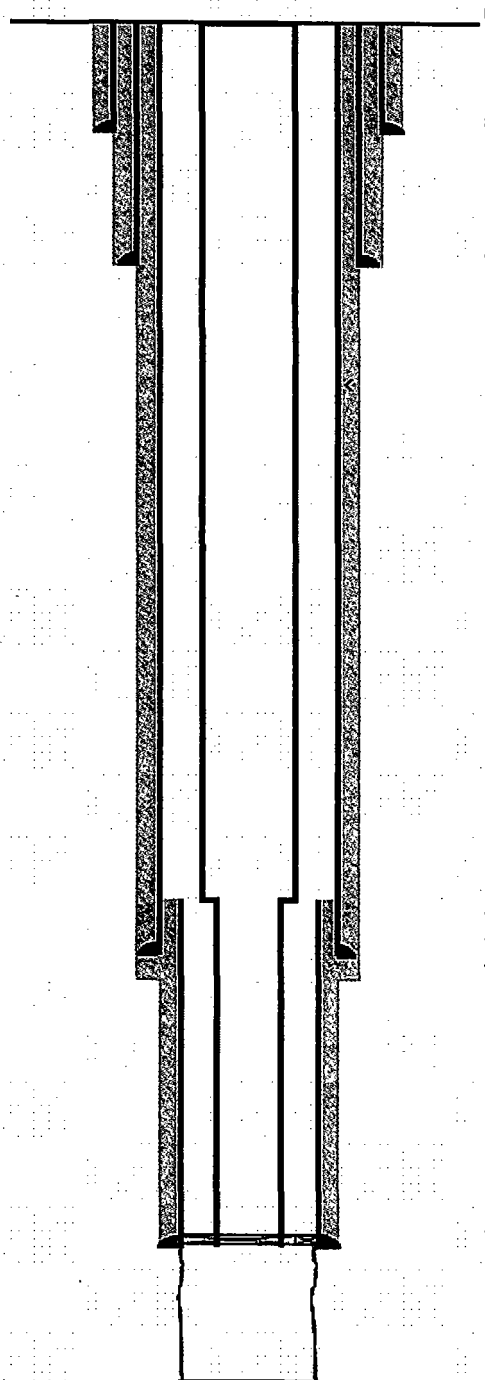
Open Hole

Size:
 Interval: 16935-18135'
 Hole Size: 6-1/4"

Tubular requirements (made-up): 5-1/2"
 0-300' 17# N80 Butt, 330'-11,000' 17# N80 LTC,
 11,000'-11,650' 20# N80 LTC, 4.5" 11,650'-12,800'
 11.6# P110 LTC, 12,800'-14,400' 13.5# N80 LTC
 14,400'-16,620' 31.5# P110 LTC

Lok-Set or equivalent approx 16,935'

Open hole acid if required.
 Tubing annulus w/corrosion inhibitor
 Complete surface head for disposal



0
 850 Rustler est 850
 Salado est 1180
 T/salt est 2385
 B/salt est 4350'
 4510
 Lemar Ls est 4588'
 DV @ approx 5000'
 Bone Springs est 8500'
 Wolfcamp est 11165'
 11415
 11650
 11870
 Strawn est 13300'
 Morrow est 14100'
 Miss Ls est 15300'
 16935 Top Siluro-Devonian est
 18135 TD

Not to Scale

Liner

Hole Size 8 1/2" Casing Size 7 5/8" 39/42.8# P-110

Cemented with: 2700 sx. or ft³

Top of Cement Surface Method Determined Opr

Total Depth: Approx 18,135'

Injection Interval

Approximately 16,935' To Approximately 18,135'

(Perforated or Open Hole; indicate which) Open Hole

INJECTION WELL DATA SHEET

Tubing Size: P110 4.5"11.6# to P-110 13.5# LTC Lining Material: Fiberglass coated

Type of Packer: Lok-Set or equivalent

Packer Setting Depth: Approx 16,935 ft

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 the Injection Formation: Siluro-Devonian

3. Name of Field or Pool (if applicable): _____

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. New drill

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Delaware & Bone Springs horizons all above approximately 8500'

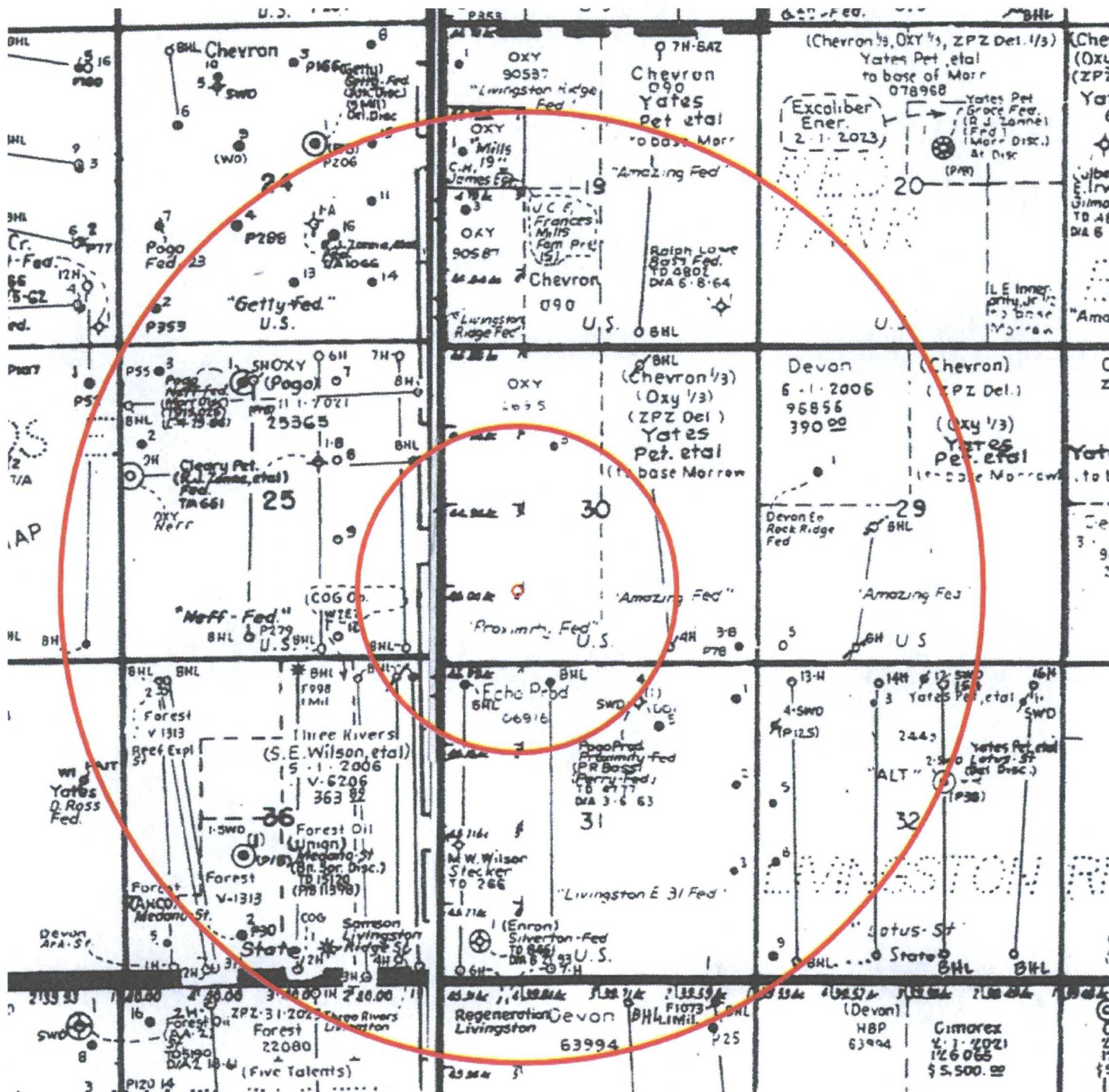
6. Rule 5.9 Compliance: Number of active wells: 23 Number of Inactive wells 2

Mesquite SWD, Inc.
 Deep Purple SWD #1
 1310' FSL & 1310' FWL
 Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

Item V:

Area of Review
 1/2 Mile AOR and 2 Mile Radius

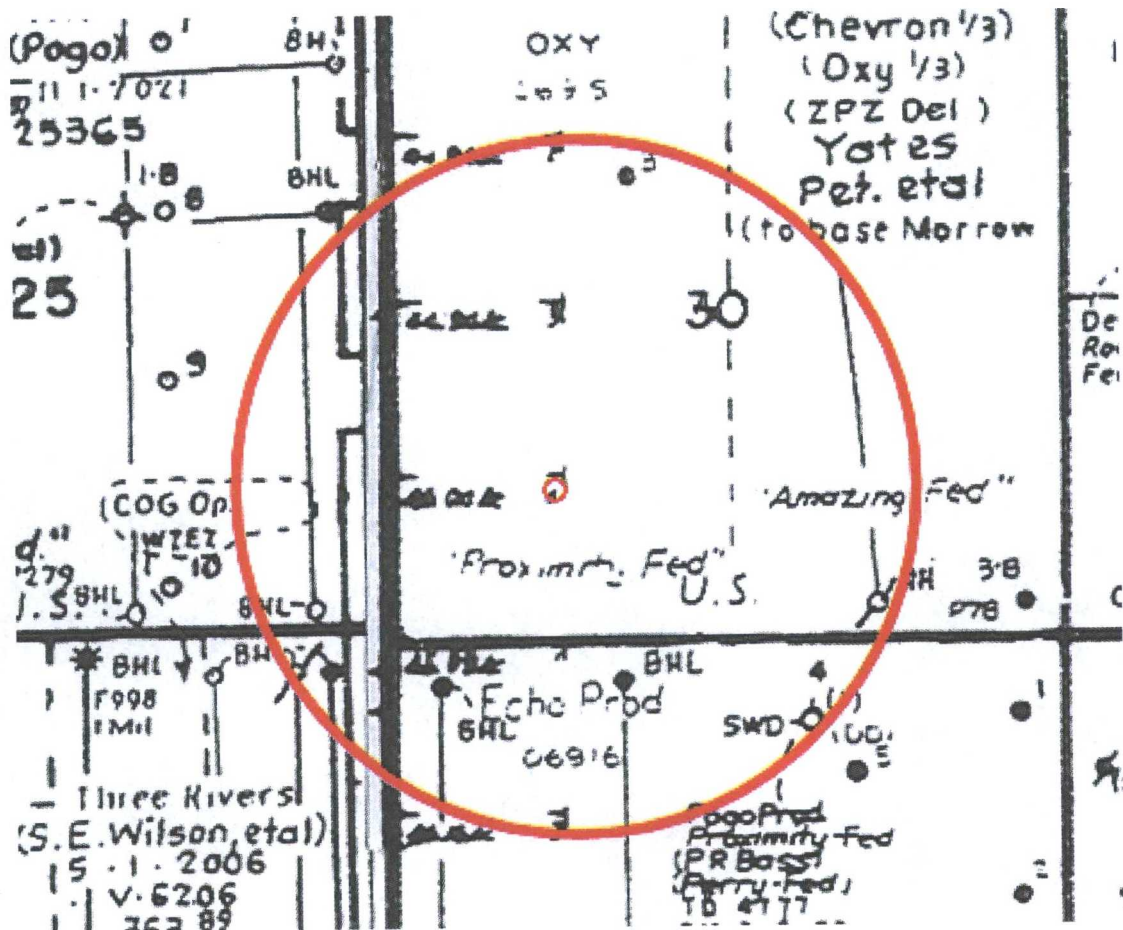


Mesquite SWD, Inc.
Deep Purple SWD #1
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Item V (a):

AOR Half-Mile



Some wells in AOR may have been permitted but not drilled.

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 Deep Purple SWD #1
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 Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

Wells in AOR:

API	WELL_NAME	STATUS	SDIV	SEC	TWN	RANGE	FTG_	NS	FTG	EW	OCD	OPERATOR	WELL	LAND	PLUG_DATE	SPUD	ELEVGL	TVD_DEPTH
3001541038	BULTACO STATE 001H	drilled or	P		36 22.0S	31E	190 S		330 E	P		COG OPERATING LLC	O	S		23-Aug-14	3488	10270
3002537184	PROXIMITY 30 FEDERAL 003	Active	F		30 22.0S	32E	1980 N		1980 W	F		OXY USA INC	O	F		27-Jul-05	3579	8550
3002520423	PROXIMITY 31 FEDERAL 004	Active	B		31 22.0S	32E	660 N		2085 E	B		OXY USA INC	S	S		20-Aug-93	3527	7225
3002541926	E LIVINGSTON 31 FEDERAL 006H	Active	4		31 22.0S	32E	190 S		330 W	M		REGENERATION ENERGY, CORPORATION	O	F		29-Nov-14	3490	10227
3002532093	SILVERTON 31 FEDERAL 001	Active	4		31 22.0S	32E	660 S		660 W	M		REGENERATION ENERGY, CORPORATION	S	F		18-Jul-93	3487	8461

No known well in the AOR penetrates into Pennsylvanian formations.

Item VII:

1. The maximum injected volume anticipated is 25,000 BWPD. Average anticipated is 20,000 BWPD.
2. Injection will be through a closed system.
3. Maximum injection pressure is expected to be 3,387 psi, or as controlled by depth.
4. Sources will be produced water that is compatible with known waters in the disposal zone.
5. Water sample analyses from the immediate surrounding Siluro-Devonian area are not known, however, the regional information indicates it is not commercially productive of hydrocarbons.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

Item VIII:

Disposal will be into Siluro-Devonian formations.

There is no known potable water within a 1-mile radius. Records from the New Mexico Office of the State Engineer on February 18, 2017 show no known water wells within a 1-mile radius of the proposed Mesquite SWD disposal well.



New Mexico Office of the State Engineer **Wells with Well Log Information**

No wells found.

Basin/County Search:

County: Lea

PLSS Search:

Q64: SW Q16: SW Q4: NE Section(s): 30 Township: 22S Range: 32E

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.

4/27/17 10:58 AM

WELLS WITH WELL LOG INFORMATION

The surface geology of the greater area, including the 2-mile radius as shown in Item V above, is lower Pliocene to middle Miocene Ogallala Formation eolian and alluvial deposits. These are underlain by Permian formations and evaporites. Based upon surface geology the depth of potable water is expected to be less than 250'.

Known water samples in T22S-R32E:

WELLNAME	API	TOWNSHIP	RANGE	SECTION	TDS(mg/L)	Chlorides(mg/L)
NORTH EL MAR UNIT #017	3002508430	26S	33E	30	254756	159400
NORTH EL MAR UNIT #057	3002508440	26S	33E	31	259554	163000
GOEDEKE #002	3002508407	26S	33E	10	293925	184000

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

Item IX:

Acid may be applied after completion. No other formation stimulation is currently planned.

Item X:

Logs will be filed with the OCD upon completion of the well. Density-Neutron will include open-hole approximately 16,935' to TD 18,135'.

Item XI:

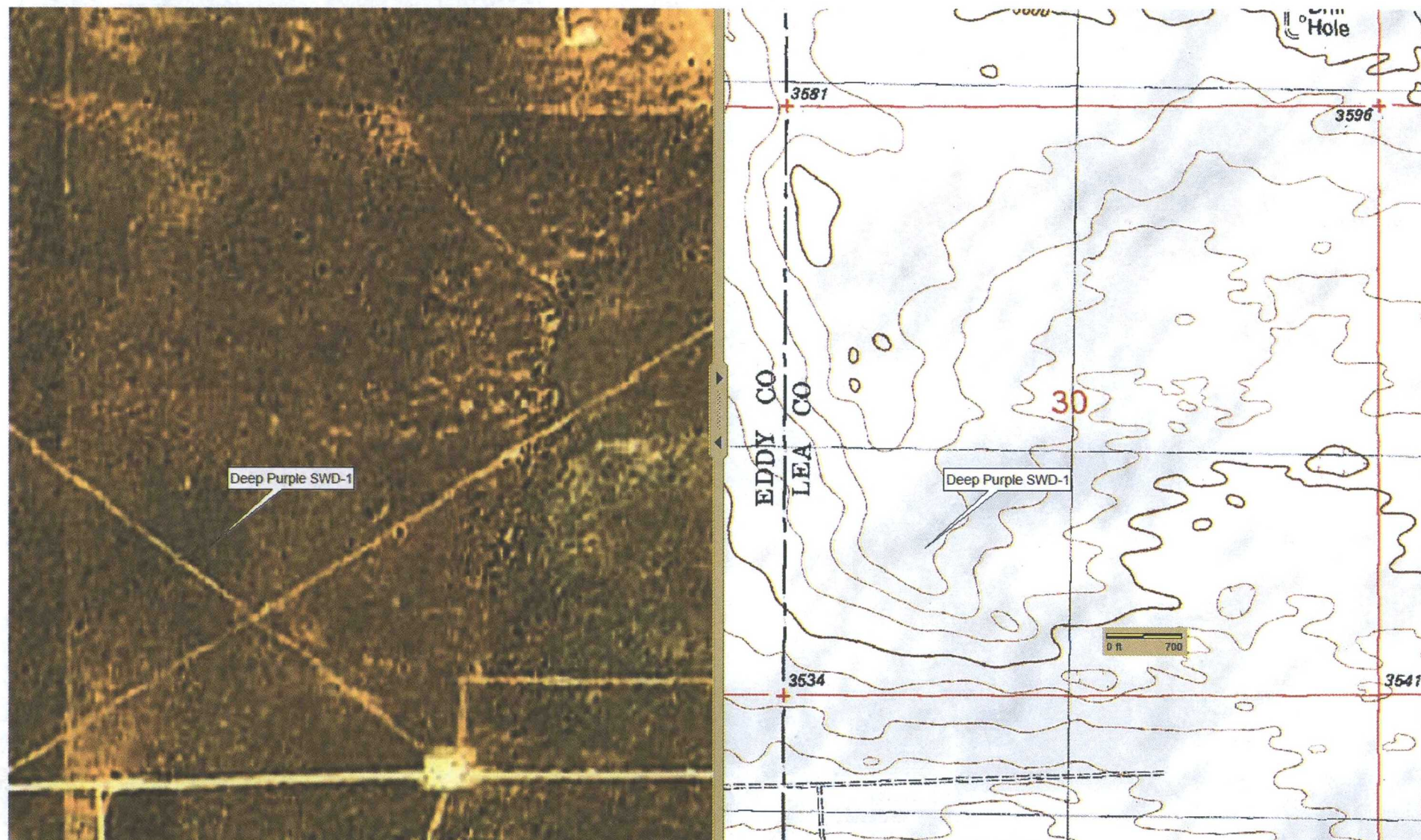
Please note Item VIII discussion above.

Item XII:

There is no geological evidence of open faults or hydrologic connection between the disposal zone and any possible underground sources of protectable water.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA



Delorme X-Map6 Pro
Located approximately 29.3 miles east of Carlsbad, NM.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA



Google Earth view of Deep Purple SWD #1 proposed location

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

Item XIII: Proof of Notice

Minerals Owner:

Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

Surface:

Bureau of Land Management

Operator:

Chevron Mid Continent, LP
Attn: Permitting Team
6301 Deauville Blvd.
Midland, TX 79706

Sec. 30, T22S-R32E, Lea Co.

COG Operating, LLC
550 W. Illinois Ave.
Midland, TX 79701

Sec. 25, T22S-R31E, Eddy Co.

EOG-Y Resources, Inc.
105 S. 4th. St
Artesia, NM 88210

E/2 Sec. 30, T22S-R32E, Lea Co.

OXY USA, Inc.
5 Greenway Plaza, Ste 2700
Houston, TX 77046

W/2 Sec. 30, T22S-R32, Lea Co.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

Item XIII: Notification Receipts

Page 1



May 9, 2017

Dear Customer:

The following is the proof-of-delivery for tracking number **779075414888**.

Delivery Information:

Status:	Delivered	Delivered to:	Receptionist/Front Desk
Signed for by:	O.MERVINE	Delivery location:	620 E GREENE ST CARLSBAD, NM 88220
Service type:	FedEx Express Saver	Delivery date:	May 8, 2017 11:44
Special Handling:	Deliver Weekday		



Shipping Information:

Tracking number:	779075414888	Ship date:	May 5, 2017
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Recipient:
Bureau of Land Management
620 E GREENE ST
CARLSBAD, NM 88220 US

Shipper:
Deborah Havenor
904 Moore Ave
Roswell, NM 88201 US

Thank you for choosing FedEx.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

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May 9, 2017

Dear Customer:

The following is the proof-of-delivery for tracking number **779075575117**.

Delivery Information:

Status:	Delivered	Delivered to:	Receptionist/Front Desk
Signed for by:	V.VEN	Delivery location:	6001 DEAUVILLE BLVD MIDLAND, TX 79706
Service type:	FedEx Express Saver	Delivery date:	May 9, 2017 12:31
Special Handling:	Deliver Weekday		

A handwritten signature in black ink, appearing to read "V.VEN" or "V. VEN", written over a grid of small squares. The signature is slanted and stylized.

Shipping Information:

Tracking number:	779075575117	Ship date:	May 5, 2017
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Recipient:
Permitting Team
Chevron U.S.A. Inc.
6301 DEAUVILLE
MIDLAND, TX 79706 US

Shipper:
Deborah Havenor
904 Moore Ave
Roswell, NM 88201 US

Thank you for choosing FedEx.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

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May 9, 2017

Dear Customer:

The following is the proof-of-delivery for tracking number **779075468432**.

Delivery Information:

Status:	Delivered	Delivered to:	Receptionist/Front Desk
Signed for by:	J. MONROE	Delivery location:	550 W ILLINOIS AVE MIDLAND, TX 79701
Service type:	FedEx Express Saver	Delivery date:	May 9, 2017 10:26
Special Handling:	Deliver Weekday		



Shipping Information:

Tracking number:	779075468432	Ship date:	May 5, 2017
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Recipient:
COG Operating, LLC
550 W ILLINOIS AVE
MIDLAND, TX 79701 US

Shipper:
Deborah Havenor
904 Moore Ave
Roswell, NM 88201 US

Thank you for choosing FedEx.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

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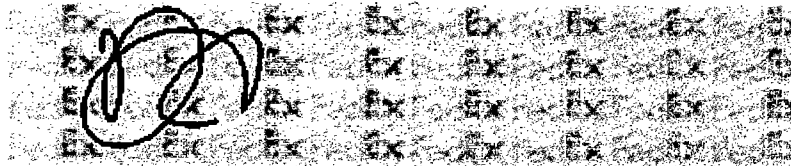
May 9, 2017

Dear Customer:

The following is the proof-of-delivery for tracking number 779075648300.

Delivery Information:

Status:	Delivered	Delivered to:	Mailroom
Signed for by:	D. EDWARDS	Delivery location:	5 GREENWAY PLZ 110 HOUSTON, TX 77046
Service type:	FedEx Express Saver	Delivery date:	May 9, 2017 10:03
Special Handling:	Deliver Weekday		



Shipping Information:

Tracking number:	779075648300	Ship date:	May 5, 2017
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Recipient:
OXY USA, Inc.
OXY USA, Inc.
5 GREENWAY PLZ
STE 2700
HOUSTON, TX 77046 US

Shipper:
Deborah Havenor
904 Moore Ave
Roswell, NM 88201 US

Thank you for choosing FedEx.

Mesquite SWD, Inc.
Deep Purple SWD #1
1310' FSL & 1310' FWL
Sec. 30, T22S-R32E Lea County, NM

API 30-025-NA

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May 9, 2017

Dear Customer:

The following is the proof-of-delivery for tracking number 779075502420.

Delivery Information:

Status:	Delivered	Delivered to:	Receptionist/Front Desk
Signed for by:	N.ANDERSON	Delivery location:	104 S 4TH STREET ARTESIA, NM 88210
Service type:	FedEx Express Saver	Delivery date:	May 8, 2017 09:08
Special Handling:	Deliver Weekday		

A handwritten signature in black ink, appearing to be "M. Anderson", written over a background of a repeating "FedEx" logo pattern.

Shipping Information:

Tracking number:	779075502420	Ship date:	May 5, 2017
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Recipient:
EOG-Y Resources, Inc.
105 S 4TH ST
ARTESIA, NM 88210 US

Shipper:
Deborah Havenor
904 Moore Ave
Roswell, NM 88201 US

Thank you for choosing FedEx.

wellname	api	unit	section	township	range	formation	depth	ph	tds_mgl	sodium_mgl	calcium_m	iron_mgl	chloride_mgl	sulfate_mgl
WHITE SWAN 9 FEDERAL #001	3002532000	P	9	22S	32E			5.6	274735	72807.9	22457.8	39.9	173061.5	34
CHECKERS 24 FEDERAL #005	3002533702	M	24	22S	32E			5.9	249142.5	67101	17689.8	27.5	158765.3	0
WHITE SWAN 9 FEDERAL #001	3002532000	P	9	22S	32E			5.98	271922.2	65030.6	30079	16	168599	788
FEDERAL MILLS #002	3002531641	D	23	22S	32E			6.2	130929		6370		80485	671
ROCK RIDGE 29 FEDERAL #001	3002537646		29	22S	32E			6.3	276542	76771.5	22382.5	51	170500	17
WHITE SWAN 9 FEDERAL #004	3002532302	H	9	22S	32E			6.02	281593.8	72123.6	21636.9	36.5	181765	34
WHITE SWAN 9 FEDERAL #001	3002532000	P	9	22S	32E			5.9	286734.4	75804.1	24770.2	56.2	179346.7	51
BILBREY BASIN 5 STATE COM #001H	3002540987	N	5	22S	32E	BONE SPRING 2ND SAND		6.3		72568	5821	42	124390	650
WHITE SWAN 9 FEDERAL #004	3002532302	H	9	22S	32E	<u>De/line</u>		6.1		83508	41560	0	220276	200
TRUMPETER 4 STATE #001	3002532668	O	4	22S	32E			6.2		82238	58165	0	253696	150
BILBREY BASIN 5 STATE COM #001H	3002540987	N	5	22S	32E	BONE SPRING 2ND SAND		6.6	109780.5	35119.1	4996.7	74.6	67200	7.5
BILBREY BASIN 5 STATE COM #001H	3002540987	N	5	22S	32E	BONE SPRING 2ND SAND		6.5		48702	8330	103	93000	658
ROCK RIDGE 29 FEDERAL #001	3002537646		29	22S	32E			5.6	298974.7	89261.2	19268	28	182979	1381

wellname	api	sec	twns	range	unit	ftgns	ftgew	county	state	Formation	sampledate	ph	tds_mgL	resistivity_ohm_cm
BELLOQ 2 STATE #002H	3001542895	2	23S	31E	C	200N	1720W	EDDY	NM	WOLFCAMP	10/15/2020	6.8	119471.8	0.07612

sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	chloride_mgL	sulfate_mgL	co2_mgL
37359.2	5659.1	22.4	746.1	73172.5	1035.5	250

Kay C. Havenor, Ph.D

904 Moore Ave.
Roswell, New Mexico 88201-1144

505-625-2327
e-mail: Kay.Havenor@gmail.com

May 24, 2017

Mr. Michael A. McMillan
Engineering Bureau
NM OCD
1220 South St. Francis Dr.
Santa Fe, NM 8750

Mesquite SWD, Inc.
Deep Purple SWD #1
C-108 application

Mr. McMillan:

Geological subsurface evaluation of the greater area in and around the proposed location of Sec. 30, T22S-R32E Lea County, NM for the subject SWD well indicates there is no geological evidence of open faults or hydrologic connection between the disposal zone and any possible underground sources of protectable water.

Respectfully,



Kay Havenor
Certified Professional Geologist

wellname	api	sec	twms	range	unit	ftgns	ftgew	county	state	Formation	sampledate	ph	tds_mgl	resistivity_ohm_cm
BELLOQ 2 STATE #002H	3001542895	2	235	31E	C	200N	1720W	EDDY	NM	WOLFCAMP	10/15/2020	6.8	119471.8	0.07612

sodium_mgl	calcium_mgl	iron_mgl	magnesium_mgl	chloride_mgl	sulfate_mgl	co2_mgl
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Affidavit of Publication

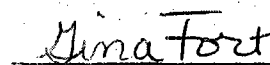
STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

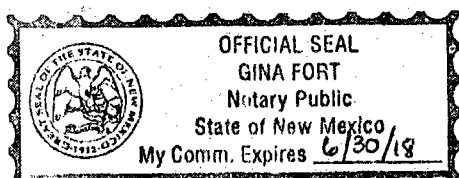
Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Manager of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of May 20, 2017 and ending with the issue of May 20, 2017.

And that the cost of publishing said notice is the sum of \$ 26.35 which sum has been (Paid) as Court Costs.


Joyce Clemens, Advertising Manager
Subscribed and sworn to before me this 23rd
day of May, 2017.


Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2018



Legal Notice

Mesquite SWD, Inc., c/o Kay Havenor, 904 Moore Ave, Roswell, NM 88201, 505-626-4518, email: Kay.Havenor@gmail.com, is seeking approval from the New Mexico Oil Conservation Division to drill the Mesquite SWD, Inc. Deep Purple SWD API:30-025-unassigned, located 1310 feet from the south line and 1310 feet from the west line of section 30, T22S-R32E Lea County, NM approximately 29.3 mi NE of Carlsbad, NM for commercial produced water disposal. The proposed disposal is an open-hole Siluro-Devonian from approximately 16,975 to 18,135 feet with a maximum pressure of 3,831 psi. Parties with questions regarding this proposal or to request a public hearing should contact Kay Havenor at the email or phone number above. Parties must file objections or requests for hearing within 15 days to the New Mexico Oil Conservation Division, 1000 St. Francis Drive, Santa Fe, NM 87505.

Published in the Lovington Leader May 20, 2017.

Affidavit of Publication

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

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Legal Notice

Mesquite SWD, Inc., c/o Kay Havenor, 904 Moore Ave, Roswell, NM 88201, (575) 826-4518, email: Kay.Havenor@gmail.com, is seeking approval from the New Mexico Oil Conservation Division to drill the Mesquite SWD, Inc. Deep Purple SWD No.1 well API:30-025-unassigned, located 1310 feet from the south line and 1310 feet from the west line of section 30, T22S-R32E Lea County, NM approximately 29.3 miles east of Carlsbad, NM for commercial produced water disposal. The proposed disposal interval is open-hole Siluro-Devonian from approximately 16,975 to 18,135 feet with a maximum pressure of 3,831 psi. Parties with questions regarding this proposal contact Kay Havenor at the email or phone number above. Parties must file objections or requests for hearing within 15 days to the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505.

Published in the Lovington Leader May 20, 2017.

Kay C. Havenor, Ph.D

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May 24, 2017

Mr. Michael A. McMillan
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Mesquite SWD, Inc.
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Respectfully,



Kay Havenor
Certified Professional Geologist

Wells Operators Operator Data OCD Review OCD Only Administration

OCD Permitting

Home Land Searches Land Details

Section : 30-22S-32E

Type: Normal

Total Acres: 659.84

County: Lea (25)

D (1) Federal ¹ Federal ² (25) 44.88	C (C) Federal ¹ Federal ² (25) 40	B (B) Federal ¹ Federal ² (25) 40	A (A) Federal ¹ Federal ² (25) 40
E (2) Federal ¹ Federal ² (25) 44.94	F (F) Federal ¹ Federal ² (25) 40	G (G) Federal ¹ Federal ² (25) 40	H (H) Federal ¹ Federal ² (25) 40
L (3) Federal ¹ Federal ² (25) 44.98	K (K) Federal ¹ Federal ² (25) 40	J (J) Federal ¹ Federal ² (25) 40	I (I) Federal ¹ Federal ² (25) 40
M (4) Federal ¹ Federal ² (25) 45.04	N (N) Federal ¹ Federal ² (25) 40	O (O) Federal ¹ Federal ² (25) 40	P (P) Federal ¹ Federal ² (25) 40

Note ¹ = Surface Owner Rights

Note ² = Sub-Surface Mineral Rights

Land Restrictions

No land restrictions found for this section.

[Return to Search](#)



4/14/2017 7/04/2017

C-108 Review Checklist: Received _____ Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: 141 Order Date: _____ Legacy Permits/Orders: _____

Well No. I Well Name(s): Deep Pump 2

API: 30-0 25-Pending Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1310 FSL 1311 FSL Lot Q or Unit "M" Sec 30 Tsp 22S Rge 32E County GL

General Location: 23 miles SW of NICE Pool: Sud. Devonian-Silurian Pool No.: 97869
mesquites SW, etc

BLM 100K Map: 5A1 Operator: _____ OGRID: _____ Contact: _____

COMPLIANCE RULE 5.9: Total Wells: 24 Inactive: 2 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? X Date: 8-03-2017

WELL FILE REVIEWED ☐ Current Status: Proposed

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

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and Determination Method
		Borehole / Pipe	Depths (ft)		
Planned ___ or Existing ___	Surface	<u>24" / 20"</u>	<u>880</u>	<u>LSO</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___	Interm/Prod	<u>17 1/2" / 13 3/8"</u>	<u>4510</u>	<u>1000</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___	Interm/Prod	<u>12 1/4" / 9 5/8"</u>	<u>11650</u>	<u>1800</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___	Prod/Liner	<u>8 1/2" / 7 9/8"</u>	<u>16135</u>	<u>2700</u>	<u>11413 / C-B-L*</u>
Planned ___ or Existing ___	Liner				
Planned ___ or Existing ___	OH/PERF	<u>16935 / 11413</u>			

Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.					
Confining Unit: Litho. Struc. Por.					
Proposed Inj Interval TOP:					Drilled TD <u>11135</u> PBTD _____
Proposed Inj Interval BOTTOM:					NEW TD _____ NEW PBTD _____
Confining Unit: Litho. Struc. Por.					NEW Open Hole <input type="radio"/> or NEW Perfs <input type="radio"/>
Adjacent Unit: Litho. Struc. Por.					Tubing Size <u>0.75" ID</u> Int. Coated? <input checked="" type="radio"/>
					Proposed Packer Depth <u>16925</u> ft
					Min. Packer Depth <u>16925</u> (100-ft limit)
					Proposed Max. Surface Press. <u>3345</u> psi
					Admin. Inj. Press. <u>3345</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? _____ BLM Sec Ord ☐ WIPP ☐ Noticed? _____ Salt/Salado T: 2385 B: 4350 NW: Cliff House fm NA

FRESH WATER: Aquifer NA Max Depth NA HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: CARLSBAD CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 0 FW Analysis NA

Disposal Fluid: Formation Source(s) WCL Analysis? Y On Lease ☐ Operator Only ☐ or Commercial ☒

Disposal Int: Inject Rate (Avg/Max BWPD): 208/25K Protectable Waters? Y Source: _____ System: Closed or Open

HC Potential: Producing Interval? NA Formerly Producing? _____ Method: Logs/DST/P&A/Other regional 2-Mile Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: 0 Horizontals? _____

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 MAY 20, 2017 Mineral Owner BLM Surface Owner BLM N. Date MAY 19, 2017

RULE 26.7(A): Identified Tracts? _____ Affected Persons: CHEVRON, CUL, BOV N. Date MAY 5, 2017

Order Conditions: Issues: 414 N C-B-L -> 500' / top liner to baseline

Add Order Cond: 1) top end of 5 1/2" liner's 4 1/2" liner



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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 29-32

Township: 22S

Range: 32E

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.

8/3/17 9:05 AM

**WATER COLUMN/ AVERAGE
DEPTH TO WATER**



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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 25, 36

Township: 22S

Range: 31E

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.

8/3/17 9:05 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER