



APPLICATION CANCELLED*

APPLICANT: Mesquite SWD

APPLICATION TYPE: SWD

WELL NAME: Laguna Salada 13 SWD #1

API NUMBER: 30-015-Pending

ADMIN. APPL. NO.: PMAM 1821132420

UL-S-T-R: P-13-235-28E

[Assigned SWD-1811]

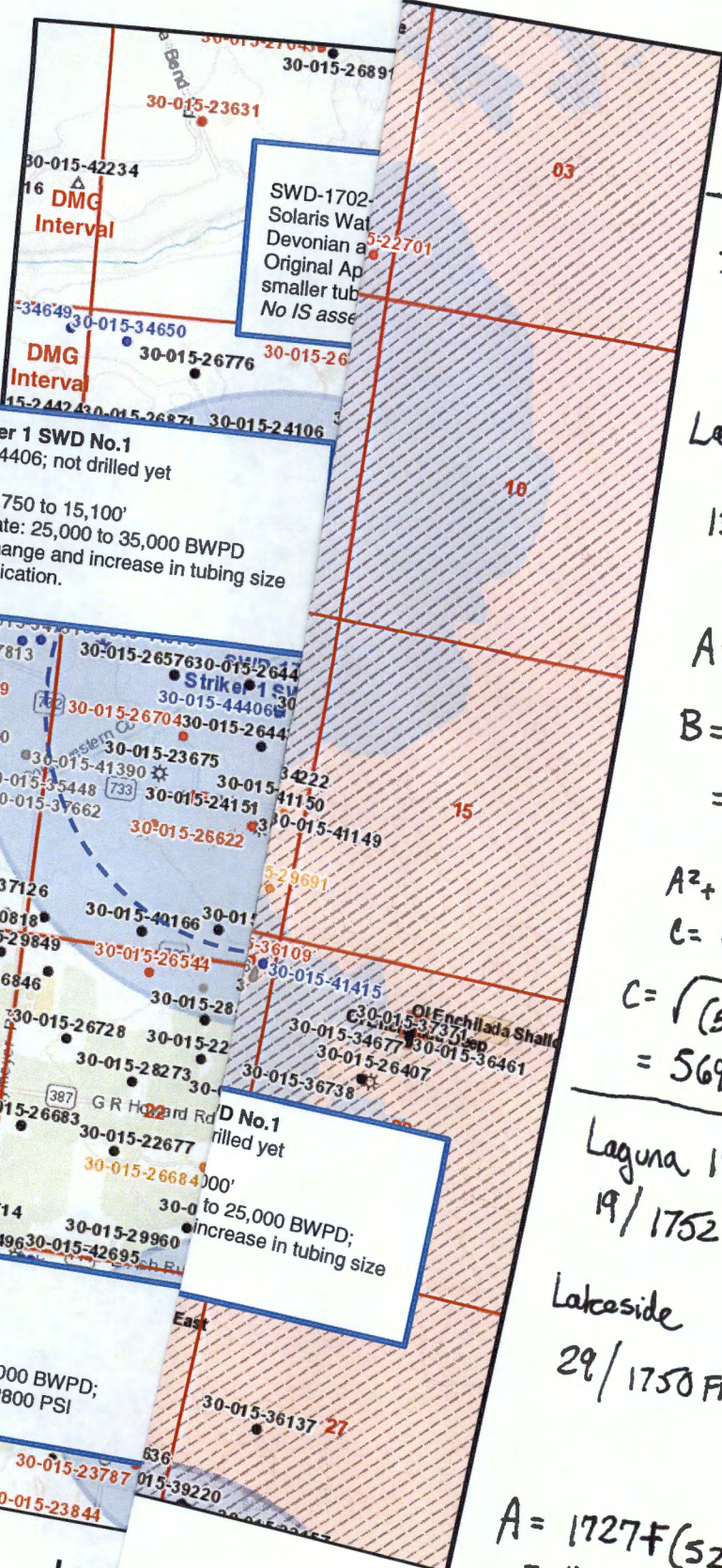
REASON FOR CANCELLATION:

Proximity - three well cluster - existing approved SWD

Make sure to confirm application status in E-permitting and applicant is notified by e-mail; attach copy of e-mail to this package.

*Also inferred to be the following:

- Denied
- Rebuffed
- Refuted
- Controverted
- Vetoed
- Spurned
- Recanted
- Rejected
- Negated



Striker 1 SWD No.1
 SWD-1724; API 30-015-44406; not drilled yet
 NGL Water Solutions
 Devonian and Silurian: 13,750 to 15,100'
 Original Application Estimate: 25,000 to 35,000 BWPD
 available for well design change and increase in tubing size
 through administrative application.
 No IS assessment

D No.1
 not drilled yet
 30-015-26684 3000'
 30-015-29960
 increase in tubing size
 30-015-42695

Layla 27 SWD No.1
 SWD-1584; API 30-015-22638; active
 Mewbourne Oil Company
 Devonian and Silurian: 14,000' to 15,000'
 Original Application Estimate: 10,000 to 20,000 BWPD;
 Maximum Injection 2018: 19,300 BWPD at 2800 PSI
 No IS assessment

Intrepid
 12 / 1030' FSL / 910' FEL

Laguna 13
 13 / 685' FSL / 50' FEL

$$A = (910' - 50') = 860'$$

$$B = (1030' + (5280 - 685)) = 5,625'$$

$$A^2 + B^2 = C^2$$

$$C = \sqrt{(A^2) + (B^2)}$$

$$C = \sqrt{(860')^2 + (5625')^2} = 5690' \text{ or } 1.08 \text{ mile}$$

Laguna 19
 19 / 1752 FSL / 1727 FEL

Lakeside
 29 / 1750 FNL / 2630 FEL

$$A = 1727 + (5280 - 2630) = 4,377$$

$$B = 1750 + 1752 = 3502$$

$$C = \sqrt{(3502)^2 + (4377)^2}$$

Lagu
 API 30-015-23787
Lagu
 API 30-015-23844
Lagu
 API 30-015-23787
Lagu
 API 30-015-23844

RECEIVED: 7/27/2018	REVIEWER:	TYPE: SWD	APP NO: PMAM182113420
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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: Laguna Salada 13 SWD #1 **API:** Not Yet Assigned
Pool: SWD; Devonian **Pool Code:** 96101

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

JUL 27 2018 PM 12:39

- 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	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	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.

Melanie J. Wilson

Print or Type Name

Melanie J. Wilson

Signature

07/25/2018
Date

575-914-1461
Phone Number

mjp1692@gmail.com
e-mail Address

MESQUITE SWD, INC.

PO Box 1479
CARLSBAD, NM 88221-1479
575-887-0980

July 25, 2018

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

Attention: Ms. Heather Riley
Division Director

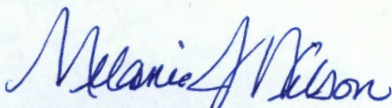
Re: Mesquite SWD, Inc.
C-108 Application for Authorization to Inject
Laguna Salada 13 SWD #1
685' FSL & 50' FEL
Section 13 T23S R28E
Eddy County, New Mexico

Dear Ms. Riley,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) for the Mesquite SWD, Inc. Laguna Salada 13 SWD #1 well. Mesquite SWD, Inc. proposes to drill and utilize this well as a produced water disposal well, injection to occur into the Siluro-Devonian formation through the open-hole interval from approximately 14,500 feet to 15,700 feet. Produced water from the Bone Spring, Wolfcamp and other formations originating from wells in this area will be injected into the well.

I believe that all of the information necessary to approve the application is enclosed. If additional information is needed, please contact me at 575-914-1461 or by email at mjp1692@gmail.com.

Sincerely,



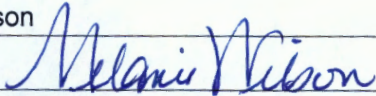
Melanie J. Wilson
Regulatory Analyst
Mesquite SWD, Inc.

Enclosure

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: Mesquite SWD, Inc.
ADDRESS: PO Box 1479, Carlsbad, NM 88221-1479
CONTACT PARTY: Melanie Wilson PHONE: 575-914-1461
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- 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: Melanie Wilson TITLE: Regulatory Analyst

SIGNATURE:  DATE: 7/25/2018

E-MAIL ADDRESS: mjp1692@gmail.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.

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 30-015-	Pool Code 96101	Pool Name SWD; DEVONIAN
Property Code	Property Name LAGUNA SALADA 13 SWD	Well Number 1
OGRID No. 161968	Operator Name MESQUITE SWD	Elevation 2972.8'

Surface Location

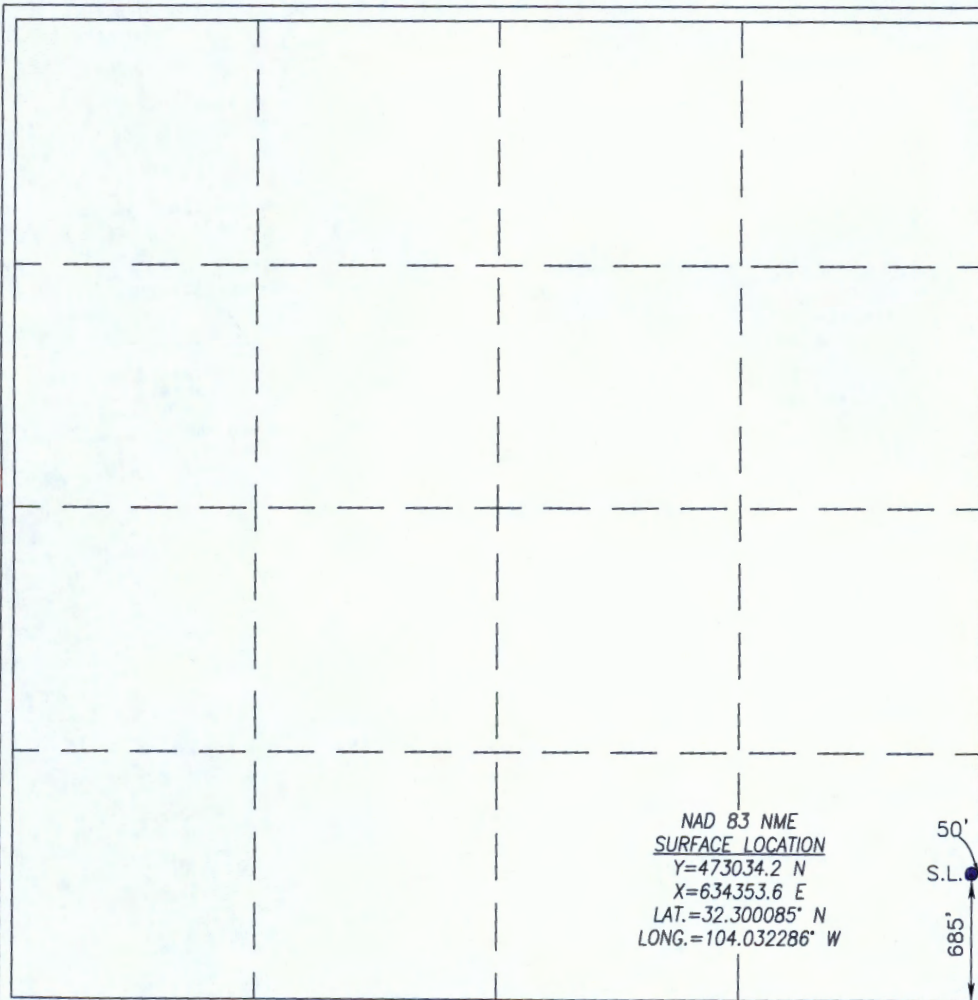
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	23-S	28-E		685	SOUTH	50	EAST	EDDY

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

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



OPERATOR CERTIFICATION

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.

Melanie J. Wilson 5/29/2018
Signature Date

Melanie J. Wilson

Printed Name

mjp1692@gmail.com

E-mail Address

SURVEYOR CERTIFICATION

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.

MARCH 5, 2018

Date of Survey

Signature & Seal of Professional Surveyor



Chad L. Harcrow 3/27/18
Certificate No. CHAD HARCROW 17777

W.O. # 18-156

DRAWN BY: SP

INJECTION WELL DATA SHEET

OPERATOR: Mesquite SWD, Inc.

WELL NAME & NUMBER: Laguna Salada 13 SWD #1

WELL LOCATION: 685' FSL & 50' FEL P 13 23S 28E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26" Casing Size: 20" 94# J55 BTC
Cemented with: 400 sx or ft³
Top of Cement: Surface Method Determined: Circulate

1st Intermediate Casing

Hole Size: 17.5" Casing Size: 13.375" 54.5# NE80 BTC
Cemented with: 1450 sx or ft³
Top of Cement: Surface Method Determined: Circulate

2nd Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625" 53.5# P110 BTU
Cemented with: 2200 sx or ft³
Top of Cement: Surface Method Determined: Circulate

Liner

Hole Size: 8.5" Casing Size: 7.625" 39# ECP-110 J-2/STL FJ
Cemented with: 200 sx or ft³
Top of Cement: 9400' Method Determined: Opr

Total Depth: Approx. 15,700'

Injection Interval

Approximately 14500' To 15700'
(Perforated or Open Hole; indicate which) Open Hole

Tubing Size: Tapered string 7" 26# P110 / 5.5" 20# P110 JFE Bear Lining Material: Fiberglass coated

Type of Packer: Lok-Set or equivalent

Packer Setting Depth: Approximately 14,500'

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): 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 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 Spring horizons all above approximately 9770'

For what purpose was the well originally drilled? _____

Mesquite SWD, Inc.
Laguna Salada 13 SWD #1
 API #30-015-
 685' FSL & 50' FEL
 Section 13, T23S, R28E, Eddy County, NM

Proposed Well Bore Diagram

KB: 2994'
 GL: 2973'

Surface Casing

Size: 20" 94# J-55 BTC
 Set @: 350'
 Sx Cmt: 400
 TOC: Surf
 Hole Size: 26"

1st Intermediate Casing

Size: 13 3/8" 54.5# NE80 BTC
 Set @: 2650'
 Sx Cmt: 1450
 TOC: Surf
 Hole Size: 17 1/2"

2nd Intermediate Casing

Size: 9 5/8" 53.5# P-110 BTU
 Set @: 9900'
 Sx Cmt: 2200
 TOC: Surf
 Hole Size: 12 1/4"

Liner

Size: 7 5/8" 39# ECP-110 J-2/STL FJ
 Top: 9400'
 Set @: 14500'
 Sx Cmt: 200
 TOC: 9400'
 Hole Size: 8 1/2"

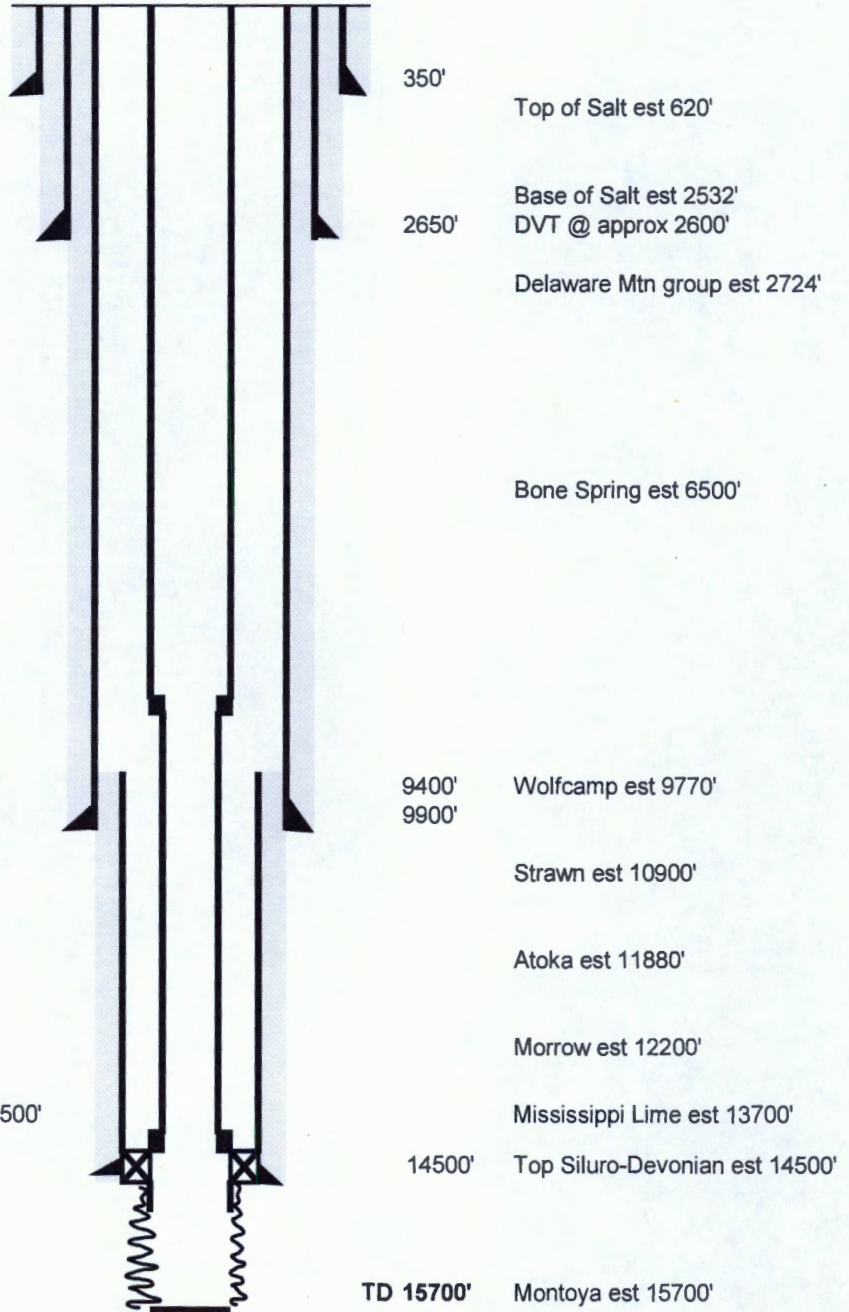
Open Hole

Interval: 14500'-15700'
 Hole Size: 6 1/2"

Tubing

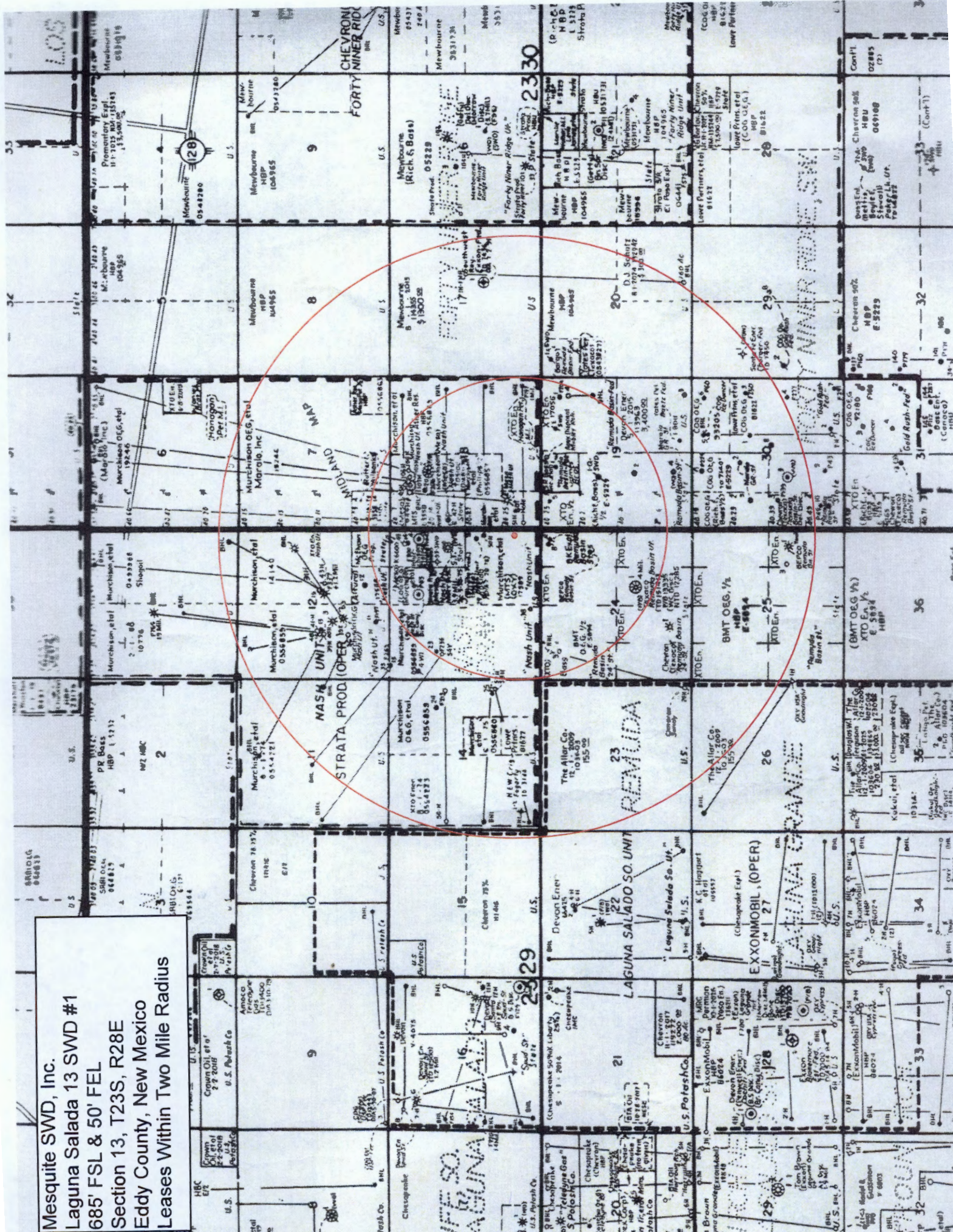
7" 26# P-110 Tbg @ 9105'
 7" x 5 1/2" X-Over @ 9200'
 5 1/2" 20# JFE Bear Tbg @ 14495'
 7 5/8" x 5 1/2" Dual Bore Permapak Packer @ 14500'

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

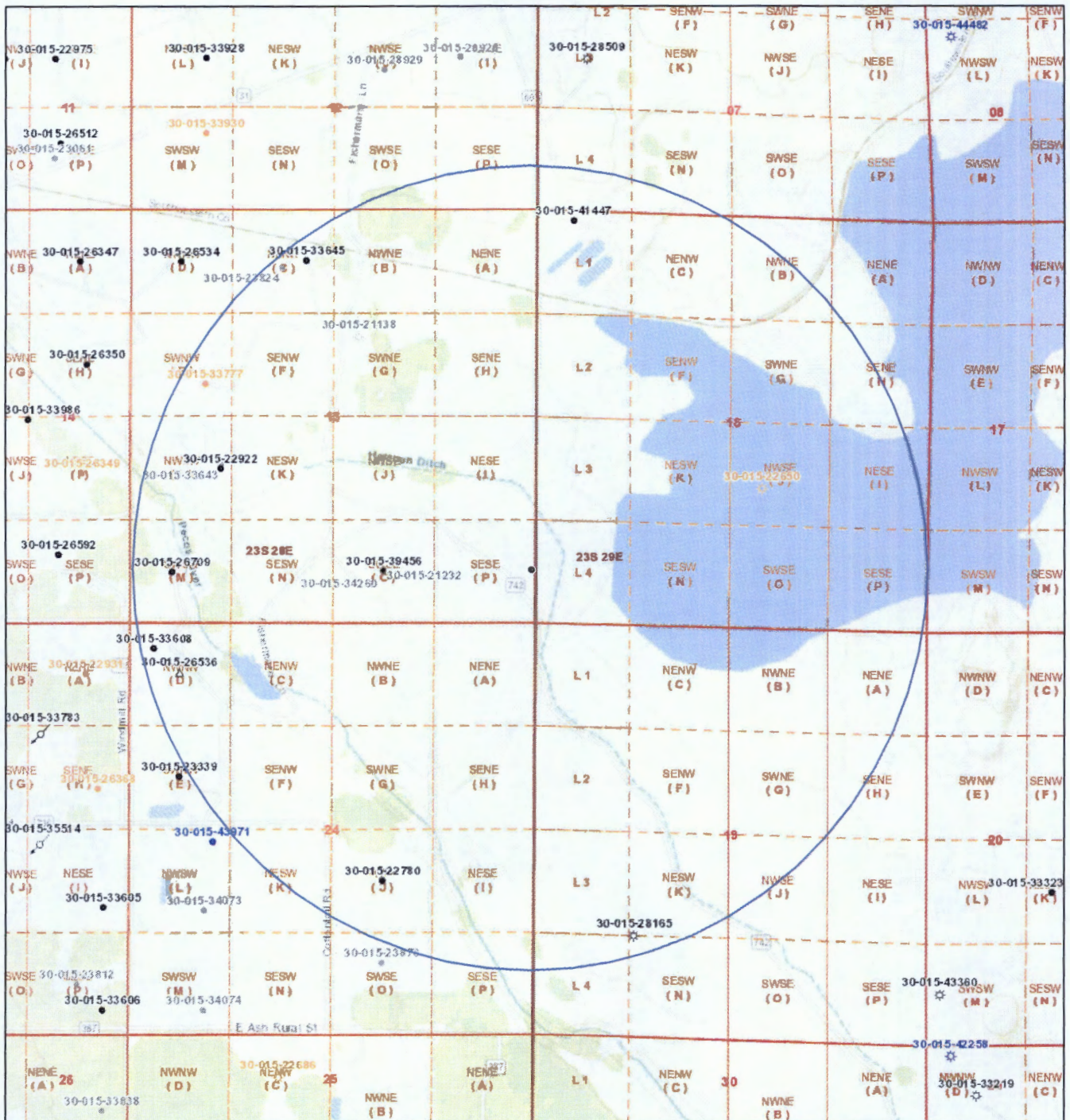


Not to Scale

Mesquite SWD, Inc.
Laguna Salada 13 SWD #1
685' FSL & 50' FEL
Section 13, T23S, R28E
Eddy County, New Mexico
Leases Within Two Mile Radius



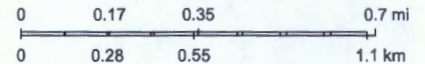
Laguna Salada 13 SWD #1 - Wells in Area of Review



May 29, 2018

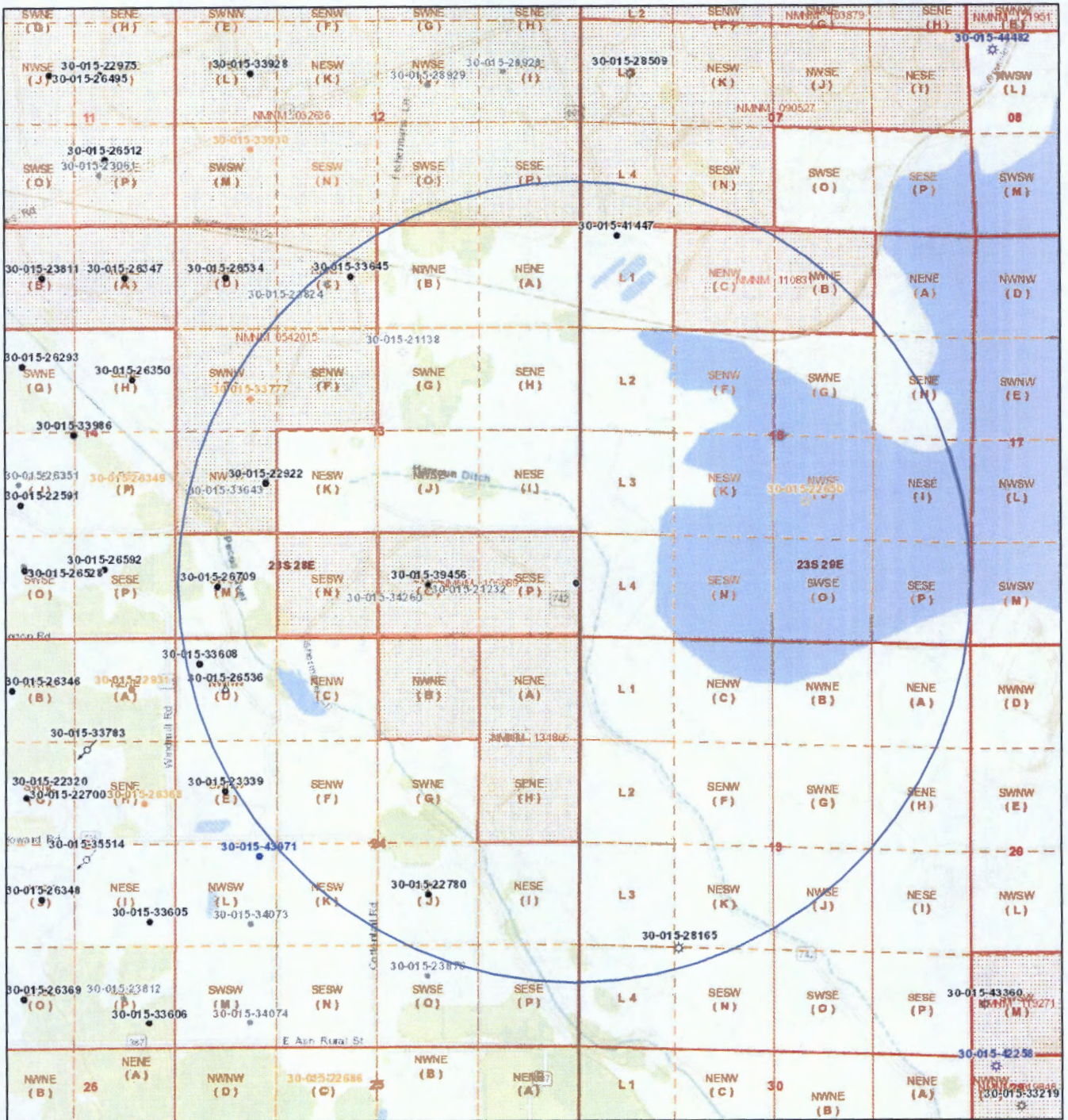
1:15,277

- Override 1
- Gas Active
- Gas, Cancelled, Never Drilled
- Oil, Plugged
- Oil, Temporarily Abandoned
- Well Locations - Small Scale**
- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active
- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled
- Oil, New
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New
- Salt Water Injection, Plugged
- Salt Water Injection Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged
- Water, Temporarily Abandoned
- OCD Districts



Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, OCD, BLM

Laguna Salada 13 SWD #1 - Leases in Area of Review



May 29, 2018

1:18,056

Override 1

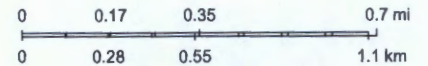
Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

- Miscellaneous
- ★ CO2 Active
- ★ CO2 Cancelled
- ★ CO2 New
- ★ CO2 Plugged
- ★ CO2 Temporarily Abandoned

- ★ Gas Active
- ★ Gas, Cancelled, Never Drilled
- ★ Gas, New
- ★ Gas, Plugged
- ★ Gas, Temporarily Abandoned
- ★ Injection, Active
- ★ Injection, Cancelled
- ★ Injection, New
- ★ Injection, Plugged
- ★ Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled
- Oil, New



Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, OCD, BLM

Mesaquite SWD, Inc.
Laguna Salada 13 SWD #1
Wells in Area of Review

VI.

API	Operator	Well Name	Well Number	Type	Vertical/ Horizontal	Mineral Owner	Status	Unit Letter	Section	Township	Range	Footages	Formation	MD	TVD
30-015-39456	OXY USA INC	BANK 13 FEDERAL COM	#001H	Oil	Horizontal	Federal	Active	O	13	23S	28E	660 FSL, 1980 FEL	Brushy Canyon	9940	6030
30-015-26709	ROCKCLIFF OPERATING NEW MEXICO LLC	CANDIE	#001	Oil	Vertical	Private	BHL	B	13	23S	28E	880 FNL, 1666 FEL	Brushy Canyon	6300	6300
30-015-33777	ROCKCLIFF OPERATING NEW MEXICO LLC	SCB 13 FEDERAL	#006	Oil	Vertical	Federal	Active	M	13	23S	28E	660 FSL, 560 FWL	Delaware	6424	6424
30-015-33645	ROCKCLIFF OPERATING NEW MEXICO LLC	SCB 13 FEDERAL	#008	Oil	Vertical	Federal	TA	E	13	23S	28E	2235 FNL, 990 FWL	Brushy Canyon	6484	6484
30-015-22922	ROCKCLIFF OPERATING NEW MEXICO LLC	SOUTH CULEBRA BLUFF UNIT	#005	Oil	Vertical	Federal	Active	C	13	23S	28E	660 FNL, 2310 FWL	Brushy Canyon	13171	13171
30-015-22780	PENROC OIL CORP	BRANTLEY B OIL COM	#001	Oil	Vertical	Private	Active	L	13	23S	28E	1980 FSL, 1190 FWL	Delaware	13240	13240
30-015-26536	ROCKCLIFF OPERATING NEW MEXICO LLC	CANDELARIO	#001	SWD	Vertical	Private	Active	J	24	23S	28E	660 FNL, 660 FWL	Brushy Canyon	6310	6310
30-015-33608	ROCKCLIFF OPERATING NEW MEXICO LLC	CANDELARIO 24	#002	Oil	Vertical	Private	Active	D	24	23S	28E	330 FNL, 330 FWL	Brushy Canyon	6400	6400
30-015-22650	CHEVRON U S A INC	TELEDYNE 18	#001	Gas	Vertical	Private	TA	J	18	23S	29E	1800 FSL, 2180 FEL	Atoka/Morrow	13324	13324
30-015-41447	OXY USA INC	BANK 18 FEDERAL COM	#001H	Oil	Horizontal	Federal	Active	1	18	23S	29E	133 FNL, 485 FWL	Bone Spring	12681	8541
30-015-28165	DEVON ENERGY PRODUCTION COMPANY, LP	HARROUN TRUST 19	#001	Gas	Vertical	Private	BHL	A	18	23S	29E	190 FNL, 446 FEL	Atoka	12200	12200

No wells within the one-mile Area of Review penetrate the proposed injection interval.

Mesquite SWD, Inc.
Laguna Salada 13 SWD #1
685' FSL & 50' FEL
Section 13, T23S, R28E
Eddy County, New Mexico

API Not Issued

Item VII:

1. The maximum injected volume anticipated is 40,000 BWPD. Average anticipated is 30,000 BWPD.
2. Injection will be through a closed system.
3. Maximum injection pressure is expected to be 2,900 psi, or as controlled by depth.
4. Disposal sources will be produced waters that, based upon regional experience, are compatible with known waters in the disposal zone. Attached are water analysis of water produced from the Bone Spring and Wolfcamp formations.
5. An analysis of water produced from the Devonian formation is attached. Analysis obtained from Go-Tech website.

C-108 Iten VII.5 - Produced Water Data
Laguna Salada 13 SWD #1

Water Analysis from Injection Zone

Well Name	BELL LAKE UNIT #006	FtgN/S	660S
API	3002508483	FtgE/W	1980E
Lat	32.3282585	County	LEA
Long	-103.507103	State	NM
Section	6	Field	BELL LAKE NORTH
T	23S	Formation	DEVONIAN
R	34E		
Unit	O		

Depth	
LabNo.	
Sample No.	
Sample Source	HEATER TREATER
Water Type	
Sample Date	
Analysis Date	

ph	7	barium_mgL	
ph temp F		magnesium_mgL	
Specific Gravity		potassium_mgL	
SG Temp F		strontium_mgL	
TDS mgL	71078	manganese_mgL	
TDS mgL 180C		chloride_mgL	42200
alkalinity_as_caco3_mgL		carbonate_mgL	
hardness_as_caco3_mgL		bicarbonate_mgL	500
hardness_mgL		sulfate_mgL	1000
resistivity_ohm_cm		hydroxide_mgL	
resistivity_ohm_cm_temp_F		h2s_mgL	
conductivity		co2_mgL	
conductivity_temp_F		o2_mgL	
sodium_mgL		anionremarks	
calcium_mgL		generalinforemarks	
iron_mgL		CorrectFlag	TRUE

Water analysis from Go-Tech Produced Water Database

Mesquite SWD, Inc.
Laguna Salada 13 SWD #1

API Not Issued

Item VII(a):

Water samples from the regional area.

Wolfcamp



Water Analysis

Date: 23-Aug-11

2708 West County Road, Hobbs NM 88240
Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Brushy Draw L#1

Company	Well Name	County	State
	BD	Lea	New Mexico

Sample Source Swab Sample Sample # *Eddy* *1-265-29E*

Formation Depth

Specific Gravity	1.170	SG @ 60 °F	1.172
pH	6.30	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	77,952	in PPM	68,520
Calcium	in Mg/L	4,000	in PPM	3,413
Magnesium	in Mg/L	1,200	in PPM	1,024
Soluble Iron (FE2)	in Mg/L	10.0	in PPM	9

Anions

Chlorides	in Mg/L	130,000	in PPM	110,922
Sulfates	in Mg/L	250	in PPM	213
Bicarbonates	in Mg/L	127	in PPM	108
Total Hardness (as CaCO3)	in Mg/L	18,000	in PPM	12,789
Total Dissolved Solids (Calc)	in Mg/L	213,549	in PPM	182,209
Equivalent NaCl Concentration	in Mg/L	182,868	in PPM	158,031

Scaling Tendencies

Calcium Carbonate Index **507,520**

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

Calcium Sulfate (Gyp) Index **1,000,000**

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks RW=.048@70F

Item VII(b) continued):

Sec 22, T25S, R28E

North Permian Basin Region
P.O. Box 740
Sundown, TX 78572-0740
(361) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Bone Spring

Water Analysis Report by Baker Petrolite

Company:		Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (676) 810-7135
Area:	ARTESIA, NM	Sample #:	S34685
Lease/Platform:	PINOCHLE BPN STATE COM	Analysis ID #:	108785
Entity (or well #):	2 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample S34685 @ 75 °F					
Sampling Date:	03/10/11	Arions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/18/11	Chloride:	109816.0	3091.92	Sodium:	7072.7	3054.92
Analyst:	SANDRA GONCZ	Bicarbonate:	1135.0	34.99	Magnesium:	193.0	18.04
TDS (mg/l or g/m3):	164911.9	Carbonate:	0.0	0.	Calcium:	644.0	42.12
Density (g/cm3, tonne/m3):	1.113	Sulfate:	747.0	14.53	Strontium:	220.0	0.93
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.8	0.01
		Silica:			Iron:	0.6	0.02
		Sulfate:			Potassium:	699.0	22.22
Carbon Dioxide:	0.60 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in calculation:		7	Lead:		
					Manganese:	0.100	0.
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
50	0	1.06	188.82	-1.29	0.00	-1.15	0.00	-0.11	0.00	0.56	0.29	1.72
100	0	1.10	203.06	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.29	2.35
130	0	1.12	224.17	-1.38	0.00	-1.19	0.00	-0.17	0.00	0.15	0.00	3.17
140	0	1.13	243.17	-1.42	0.00	-1.18	0.00	-0.10	0.00	0.00	0.00	4.21

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
 Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Mesquite SWD, Inc.
Laguna Salada 13 SWD #1
685' FSL & 50' FEL
Section 13, T23S, R28E
Eddy County, New Mexico

API Not Issued

Item VIII:

Geologic Formation:	Devonian/Silurian
Estimated Top:	14,500'
Thickness:	1,200'
Lithology:	Limestone w/Interbedded Dolomites

According to the New Mexico Office of the State Engineer's website, there is one fresh water well within a one-half mile radius of the proposed SWD and ten fresh water wells within a one-mile radius of the proposed SWD. Average depth to fresh water is 47'.

An analysis of water obtained from POD number C 00500 is attached.

The surface geology of the greater area, including the two-mile radius as shown in Item V above, is Quaternary eolian and piedmont deposits of Holocene to middle Pleistocene age and Permian Castile formation. These are underlain by Permian formation and evaporites.

Item IX:

Formation chemical stimulation may be applied after completion. No other stimulation is currently planned.

Item X:

Logs will be filed with the OCD upon completion of the well. Density-Neutron is planned from surface to TD.

Item XI:

According to the website of the NM Office of the State Engineer, there are eleven water wells within one mile of the proposed Laguna Salada 13 SWD #1 well. Please note Item VIII discussion above. A water analysis from water well C-00500 in NW/4 Section 24, T23S, R28E is attached.

Item XII:

Affirmative statement is attached.

Item XIII:

Proof of Notice is attached.



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	POD				X	Y	Distance	Depth	Well	Depth	Water Column
				Q 64	Q 16	Q 4	Sec							
C 02704	C	ED		1	19	23S	29E	591531	3573493*	747		174		
C 01215	CUB	ED	4	2	3	13	23S	28E	590210	3574397*	943	104	15	89
C 01967	C	ED		2	3	13	23S	28E	590111	3574498*	1070	264	200	64
C 02702	C	ED		2	13	23S	28E	590715	3575108*	1072		38	20	18
C 01214	CUB	ED	1	2	3	13	23S	28E	590010	3574597*	1201	70	20	50
C 02706	C	ED		4	18	23S	29E	592302	3574291*	1206		17	10	7
C 03965 POD5	CUB	ED	4	1	1	24	23S	28E	589864	3573534	1370	35	31	4
C 03965 POD4	CUB	ED		1	4	24	23S	28E	589918	3573381	1395	40	31	9
C 01217	CUB	ED	1	1	3	13	23S	28E	589606	3574593*	1578	87	50	37
C 00500	CUB	ED	4	3	1	24	23S	28E	589811	3573176*	1598	130		
C 00868	CUB	ED	4	3	1	24	23S	28E	589811	3573176*	1598	190		

Average Depth to Water: **47 feet**
Minimum Depth: **10 feet**
Maximum Depth: **200 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 591108.69

Northing (Y): 3574109.85

Radius: 1610

*UTM location was derived from PLSS - see Help

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

5/30/18 8:08 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whitenton Group Inc

Client Sample ID: Mosaic Carrasco Well

Project: Oxy/Centurion

Collection Date: 5/1/2017 4:20:00 PM

Lab ID: 1705094-002

Matrix: AQUEOUS

Received Date: 5/2/2017 9:45:00 AM

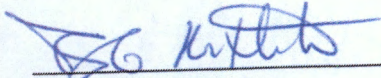
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Fluoride	0.88	0.50		mg/L	5	5/3/2017 1:54:17 AM	A42488
Chloride	510	25	*	mg/L	50	5/3/2017 11:04:13 PM	R42532
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	5/3/2017 2:06:42 AM	A42488
Nitrogen, Nitrate (As N)	10	0.50	*	mg/L	5	5/3/2017 1:54:17 AM	A42488
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	5/3/2017 2:06:42 AM	A42488
Sulfate	520	25	*	mg/L	50	5/3/2017 11:04:13 PM	R42532
SM2510B: SPECIFIC CONDUCTANCE							Analyst: JRR
Conductivity	8100	1.0		µmhos/cm	1	5/4/2017 2:49:37 PM	R42568
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO3)	208.2	20.00		mg/L CaCO3	1	5/4/2017 2:49:37 PM	R42568
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	5/4/2017 2:49:37 PM	R42568
Total Alkalinity (as CaCO3)	208.2	20.00		mg/L CaCO3	1	5/4/2017 2:49:37 PM	R42568
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	6570	20.0	*	mg/L	1	5/5/2017 5:44:00 PM	31567
SM4500-H+B: PH							Analyst: JRR
pH	7.31		H	pH units	1	5/4/2017 2:49:37 PM	R42568
EPA METHOD 6010B: DISSOLVED METALS							Analyst: MED
Calcium	760	10		mg/L	10	5/4/2017 9:20:14 AM	A42530
Magnesium	250	10		mg/L	10	5/4/2017 9:20:14 AM	A42530
Potassium	7.0	1.0		mg/L	1	5/4/2017 9:13:56 AM	A42530
Sodium	1000	50		mg/L	50	5/8/2017 12:05:01 PM	A42604

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

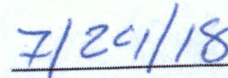
Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Form C-108
Affirmative Statement
Mesquite SWD, Inc.
Laguna Salada 13 SWD #1
Section 13, T23S, R28E, 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.



Riley Neatherlin
Operations Manager
Mesquite SWD, Inc.



Date

Mesquite SWD, Inc.
Laguna Salada 13 SWD #1
685' FSL & 50' FEL
Section 13, T23S, R28E
Eddy County, New Mexico

API Not Issued

Item XIII: Proof of Notice

Surface Owner:

Mosaic Potash Carlsbad NM
1361 Potash Mines Road
Carlsbad, NM 88220

FedEx Tracking No.

7724 0353 8381

Offset Operators:

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

Section 18, T23S, R29E

7723 9957 9455

Devon Energy Production Company, LP
333 W Sheridan Ave.
Oklahoma City, OK 73102

7723 9955 7895

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

Section 18, T23S, R29E

7723 9960 4850

Rockcliff Operating New Mexico LLC
1301 McKinney, Suite 1300
Houston, TX 77010

Section 13, T23S, R28E

7724 0346 9962

Penroc Oil Corporation
1515 W Calle Sur St
Hobbs, NM 88240

Unit J, Section 24, T23S, R28E

7724 0348 6303

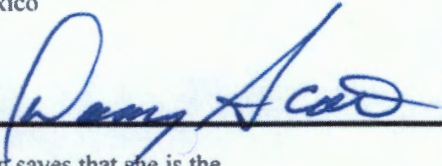
Affidavit of Publication

No. 24685

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn says that she is the
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:

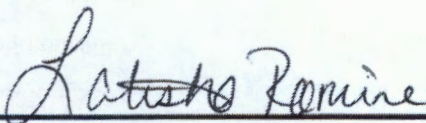
First Publication	<u>May 27, 2018</u>
Second Publication	_____
Third Publication	_____
Fourth Publication	_____
Fifth Publication	_____
Sixth Publication	_____
Seventh Publication	_____

Subscribed and sworn before me this
29th day of May 2018



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019



Latisha Romine
Notary Public, Eddy County, New Mexico

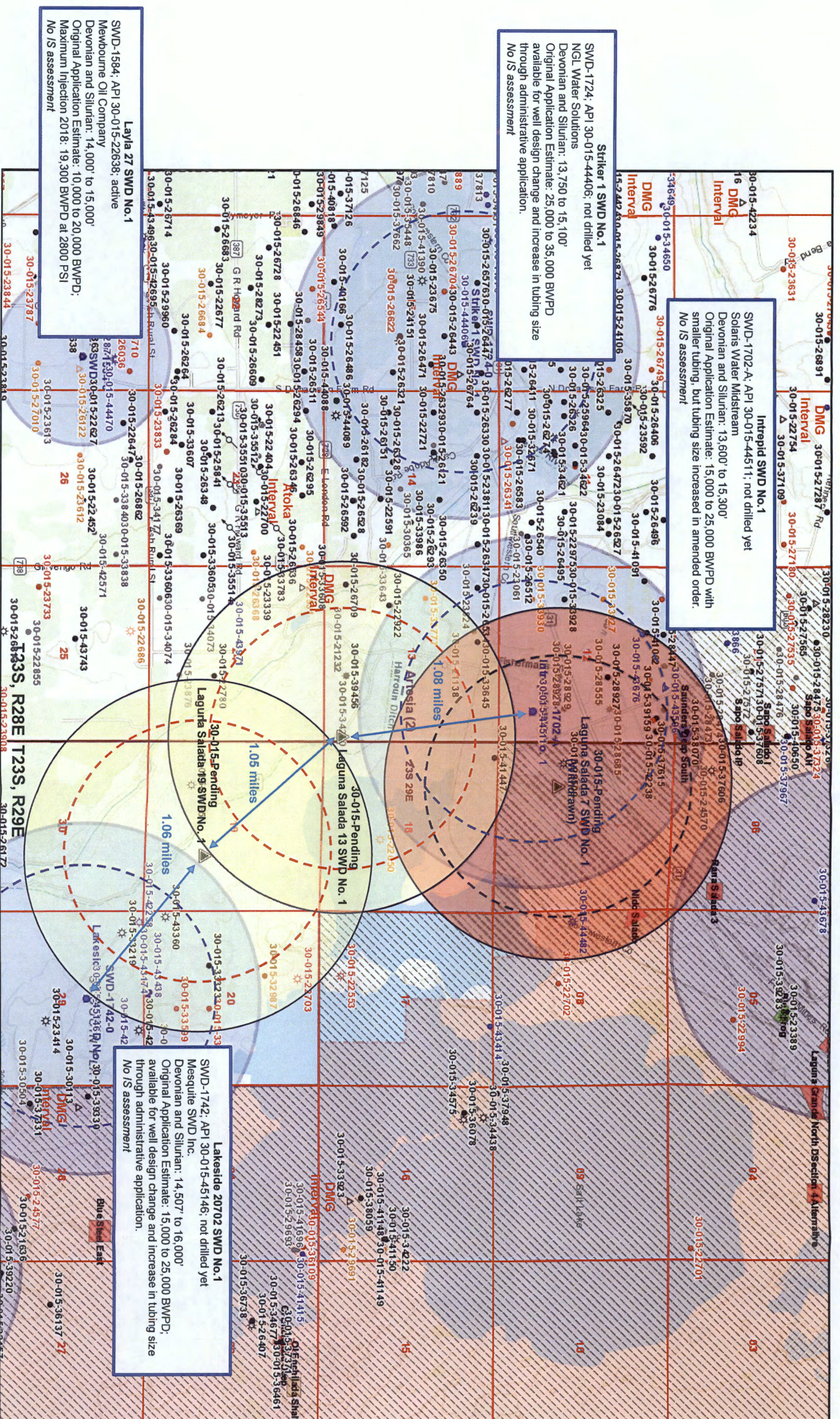
Copy of Publication:

Legal Notice

Mesquite SWD, Inc., c/o Riley Neatherlin, PO Box 1479, Carlsbad, NM 88221-1479, 575-887-0980, is seeking administrative approval from the New Mexico Oil Conservation Division to drill the Laguna Salada 13 SWD #1, API not issued, located 685' FSL & 50' FEL, Section 13, T23S, R28E, Eddy County, NM, approximately 3 miles northeast of Loving, NM, for commercial produced water disposal. The proposed disposal interval is the Siluro-Devonian formation in open-hole interval approximately 14,500' to 15,700', at a maximum pressure of 3000 psi and a maximum rate of 40,000 BWPD. Parties with questions regarding this proposal may contact Riley Neatherlin at the address or phone number above. Parties must file objections or requests for hearing within 15 days of this publication to the New Mexico Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505.

Published in the Artesia Daily Press, Artesia, N.M., May 27, 2018 Legal No. 24685.

Pending Application for High-Volume Devonian Disposal Well
C-108 Applications for Laguna Salada Wells (T23S, R28-29E) – Mesquite SWD, Inc.



Laguna Salada 7 SWD No. 1; Mesquite SWD, Inc.
API 30-015-Pending; Application No. PMAM1821132239; application withdrawn.
Laguna Salada 13 SWD No. 1; Mesquite SWD, Inc.
API 30-015-Pending; Application No. PMAM1821132420; protested; protest withdrawn; being processed; 685' FSL – 50' FEL; Sec. 13, T23S, R28E, NMPM
Laguna Salada 19 SWD No. 1; Mesquite SWD, Inc.
API 30-015-Pending; Application No. PMAM1821131871; protested; 1752' FSL – 1727' FEL; Sec. 19, T23S, R29E, NMPM