STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF MESQUITE SWD, INC. TO APPROVE PRODUCED WATER DISPOSAL WELL IN EDDY COUNTY, NEW MEXICO.

CASE NO. 20314

APPLICATION

Mesquite SWD, Inc. ("Mesquite"), OGRID No. 161968, through its undersigned attorneys, hereby makes this application to the Oil Conservation Division pursuant to the provisions Rule No. 19.15.4.8 for an order approving drilling of a produced water disposal well in Eddy County, New Mexico. In support of this application, Mesquite states as follows:

Mesquite proposes to drill the Laguna Salada 19 SWD #1 well at a surface location
 1752 feet from the South line and 1727 feet from the East line (Unit J) of Section 19, Township
 23 South, Range 29 East, NMPM, Eddy County, New Mexico for the purpose of operating a
 produced water disposal well.

(2) Mesquite seeks authority to inject produced water into the Siluro-Devonian formation through the open-hole interval from approximately 14,500' to 15,700'.

(3) Mesquite further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 $\frac{1}{2}$ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 40,000 bbls per day.

(4) Mesquite anticipates a maximum injection pressure of 2,900 psi, or as controlled by depth.

(5) On or about July 25, 2018 Mesquite SWD, Inc., filed with the Division, an administrative application for approval of the subject well for produced water disposal.

(6) On December 13, 2018, Mesquite was notified by the Division that the subject application was denied for administrative approval, and that the option to set the matter for hearing before a Division Examiner remained an option.

(7) A proposed C-108 for the subject well is attached hereto in Attachment A.

(8) The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, Mesquite requests that this application be set for hearing before an Examiner of the Oil Conservation Division on March 7, 2019; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS & SISK, P.A.

By: Wella M Bennett

Deana Bennett Post Office Box 2168 Bank of America Centre 500 Fourth Street NW, Suite 1000 Albuquerque, New Mexico 87103-2168 Telephone: 505.848.1800 Attorneys for Applicant CASE NO. _____: Application of Mesquite SWD, Inc., for approval of produced water disposal well in Eddy County, New Mexico. Applicant seeks an order approving disposal into the Silurian-Devonian formation through the Laguna Salada 19 SWD #1 well at a surface location 1752 feet from the South line and 1727 feet from the East line (Unit J) of Section 19, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico for the purpose of operating a produced water disposal well. Mesquite seeks authority to inject produced water into the Silurian-Devonian formation at a depth of approximately 14,500' to 15,700. Mesquite further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 40,000 bbls per day. Said area is located approximately 4.5 miles East of Loving, New Mexico.

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			07/25/2018
Melanie J. V	Vilson		Date
Print or Type No	ame		575-914-1461 Phone Number
	nie Main	EXHIBIT	mjp1692@gmail.com mail Address
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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT Х 1. Secondary Recovery Pressure Maintenance PURPOSE: Disposal Storage Application qualifies for administrative approval? Yes No OPERATOR: Mesquite SWD, Inc. H. ADDRESS: PO Box 1479, Carisbad, NM 88221-1479 Melanie Wilson PHONE: 575-914-1461 CONTACT PARTY: 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. X No IV. Is this an expansion of an existing project? Yes 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. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data XII. 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. TITLE: Regulatory Analyst Melanie Wilson NAME: DATE: SIGNATURE:

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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name: Well No.: Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

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INJECTION WELL DATA SHEET

OPERATOR:	Mesquite SV	VD, Inc.						
WELL NAME &	NUMBER:	Laguna Salada 19	9 SWD #1					
WELL LOCATIO		FSL & 1727' FEL	J		19		235	29E
	FOOT	AGE LOCATION	UNIT	LETTE	R SECTI	ON	TOWNSHIP	RANGE
WELLBORE	SCHEMATIC		WE		STRUCTION	DATA		
			<u></u>		face Casing			
		Hole Size: 26"			Casing Size:	20" 94#	J55 BTC	
		Cemented with:	400	SX	or		ft	3
		Top of Cement:	Surface					
			<u>1st</u>	Interme	diate Casing			
		Hole Size: 17.5	5"		Casing Size:	13.375"	54.5# NE80 B	гс
		Cemented with:	1450	SX	or		ft	\$
		Top of Cement:	Surface		Method Deter	rmined: <u>C</u>	irculate	
			<u>2nd</u>	Interme	ediate Casing			
		Hole Size: 12.2	25"		Casing Size:	9.625" 5	3.5# P110 BTL	J
		Cemented with:	2200	sx	or		ft	\$
		Top of Cement:	Surface		Method Dete	rmined: <u>C</u>	irculate	
				Li	ner			
		Hole Size: 8.5			Casing Size:	7.625" 3	9# ECP-110 J-	2/STL FJ
		Cemented with:	200	SX	or		ft	3
		Top of Cement:	9400'		Method Dete	rmined:	Opr	
		Total Depth: App	orox. 15,700'					
				Injectio	n Interval			
		Approxir	mately 145	500' Ta	15700'			
			(Perforated	or Open	Hole; indicate	which)	Open Hole	
Tubing	Size: <u>Tape</u>	red string 7" 26# P1	10 / 5.5" 20	# P110	JFE Bear Lir	ning Mater	rial: Fiberglas	ss coated
Туре о	of Packer:	Lok-Set or equiva	lent					
Packe	r Setting Dep	th: Approximately	14,500'					
Other	Type of Tubir	ng/Casing Seal (if a	pplicable):					

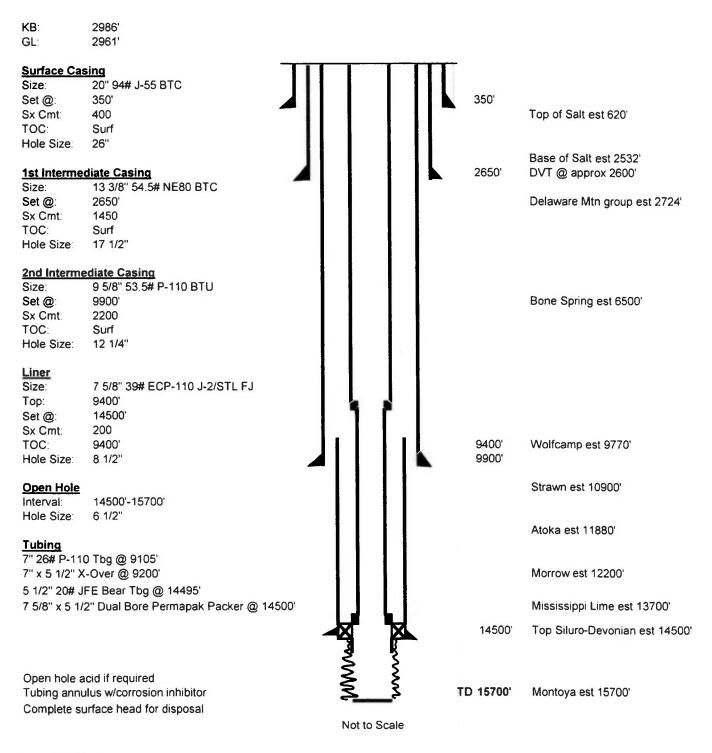
Additional Data

1.	Is this a new well drilled for injection?	X	Yes	No	 			
	If no, for what purpose was the well origina	lly	drilled	?	 			
2.	Name of the Injection Formation: Siluro-D)ev	/onian			-		
3.	Name of Field or Pool (if applicable): SWI	D;	Devon	nian	 	-		
4.	Has the well ever been perforated in any of intervals and give plugging detail, i.e. sacks			• •				
5.	Give the name and depths of any oil or gas injection zone in this area: <u>Delaware & Bo</u>					0'	·····	
	For what purpose was the well originally dri	ille	d?	,, . _ ,	 			

Mesquite SWD, Inc. Laguna Salada 19 SWD #1

API #30-015-1752' FSL & 1727' FEL Section 19, T23S, R29E, Eddy County, NM

Proposed Well Bore Diagram



Melanie Wilson 5/21/2018

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Laguna Salada 19 SWD #1 - Wells in Area of Review

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CO2 New
 CO2, Plugged

Temporanly Abandoned

Weil Locations - Large Scale

Miscel'aneous

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· CO2 Active

Plugged

Cancelled

Oil. New CO2. Temporally Abandoned

Gas Temporanly Abandoned

Injection, Temporarily Abandoned

injection, Active

/ Injection, New

· Oil Active

Oil Cancelled

, injection, Cancelled

. Injection, Plugged

New Mexico Oil Conservation Dirvision NM OCD Oil and Gas Map. http://nmi-emnid.maps.arcgis.com/apps/webappviewer/li.New Mexico Oil Conservation Drivision

Mesquite SWD. Inc. Laguna Salado 19 SWD #1 Wells in One Mile Area of Review

API	Operator	Well Name	Well Number	Туре	Vertical/ Horizontal	Status	Unit Letter	s	т	R	Footages	Formation	MD	TVD
30-015-28165	DEVON ENERGY PRODUCTION COMPANY.	HARROUN TRUST 19	#0 01	Gas	Vertical	Active	N	19	2 3 S	29E	1316 FSL. 1320 FWL	Atoka	12200	12200
30-015-22703	CHEVRON U S A INC	TELEDYNE 20 GAS COM	#0 01	Gas	Vertical	P&A	с	20	23S	29E	660 FNL, 2080 FWL	Delaware	13370	13370
30-015-32987	CHEVRON USA INC	TELEDYNE 20	#002	Oil	Vertical	TA	F	20	23S	29E	1650 FNL, 1980 FWL	Delaware	6599	6599
30-015-33504	CHEVRON U S A INC	USA TELEDYNE 20	#0 05	Oil	Vertical	P&A	J	20	23S	29E	1980 FSL. 2310 FEL	Delaware	6850	6850
30-015-3 3 323	BTA OIL PRODUCERS, LLC	TELEDYNE 20	#004	Oil	Vertical	Active	к	20	23S	29E	1980 FSL, 1650 FWL	Delaware	6758	6758
30-015-43360	BTA OIL PRODUCERS, LLC	HARROUN RANCH FEDERAL COM 20702	#002H	Gas	Horizontal	Active	м	20	235	29E	680 FSL, 180 FWL	Wolfcamp	21090	10839
						BHL	D	17	235	29E	29 FNL. 363 FWL			
30-015-43174	CIMAREX ENERGY CO. OF COLORADO	LAGUNA GRANDE 29 FEDERAL	#006	Oit	Honzontal	New	N	20	235	29E	98 FSL, 2562 FWL	Bone Spring	13731	NYD
						BHL	N	29	235	29E	330 FSL. 1980 FWL			
30-015 -4 3 438	BTA OIL PRODUCERS, LLC	HARROUN RANCH FEDERAL COM 20702	#003H	Oil	Horizontal	New	N	20	23S	29E	170 FSL, 2465 FWL	Wolfcamp	13431	NYD
						BHL	С	20	23S	29E	210 FNL, 1900 FWL		_	
30-015-335 99	BTA OIL PRODUCERS. LLC	HARROUN RANCH FEDERAL 20702	#0 01	Oil	Vertical	P&A	0	20	235	29E	990 FSL, 2310 FEL	Delaware	13000	13000
30-015- 43414	BTA OIL PRODUCERS, LLC	HARROUN RANCH FEDERAL COM 20702	#004H	Oil	Horizontal	New	0	20	23S	29E	160 FSL, 2493 FWL	Wolfcamp	13208	NYD
						BHL	в	17	235	29E	50 FNL, 1980 FEL			
30-015-42258	CIMAREX ENERGY CO. OF COLORADO	LAGUNA GRANDE 29 FEDERAL	#005H	Gas	Horizontal	New	D	29	23S	29E	140 FNL, 330 FWL	Wolfcamp	13212	NYD
						BHL	м	29	235	29E	660 FSL, 660 FWL			
30-015-33219	CIMAREX ENERGY CO. OF COLORADO	LAGUNA GRANDE FEDERAL	#004	Gas	Vertical	Active	D	29	23S	29E	660 FNL, 660 FWL	Wolfcamp	12333	12333

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

Mesquite SWD, Inc. Laguna Salada 19 SWD #1 1752' FSL & 1727' FEL Section 19, T23S, R29E 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.
- 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 19 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	-103.307103	Field	BELL LAKE NORTH
T	235	Formation	DEVONIAN
R	233 34E	Formation	DEVONIAN
Unit	0		
Onit	0		
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 19 SWD #1

Item VII(a):

Water samples from the regionally area.

BAKER	-				
HUGH					
2708 West County Road,	Hobbs NM				
Phone (575) 392-3556 F Analyzed For	ax (575) 392		Draw 1th	47	
Company		Well Name		ounty	State
		60		Les-	New Mexico
Sample Source	Swab Sa	umple	Sample #	day .	1-265-290
Formation			Depth		
Specific Gravity	1.170		SG g	60 °F	1.172
pH	6.30		S	ulfidias	Absent
Temperature (*F)	70		Reducing	Agents	
Cations					
Sodium (Calc)		m Mg/L	77,982	In PPM	66,520
Celaum		in Mg/L	4,000	in PPM	3,413
Magnesium		in Mg/L	1,200	In PPM	1,024
Solvable Iron (FE2)		in Mg/L	10.0	in PPM	9
Anions					
Chlorides		in Mg/L	130,000	in PPM	110,922
Suffatos		In Mg/L	250	In PPM	213
licarbonetes		in Mg/L	127	in PPM	108
Total Hardness (as CaCO.	3)	In Mg/L	15,000	m PPM	12,799
Total Dissolved Solida (Ca	ic)	in Mg/L	213,549	in PPM	182,209
Equivalent NaCl Concentra	stion	In Mg/L	182,868	In PPM	156,031
caling Tendencies					
Calcium Carbonato Index Below 500,000	Remote / 500,	000 - 1,000,000	Possbie / Above 1	.000.000 Probeba	507,520
acium Sulfate (Gyp) Inde	x				1,000,000

temarks RW= 048@70F

Mesquite SWD, Inc.

Laguna Salada 19 SWD #1

Item VII(b) continued):

Sec 22, T25,5, R28E

North Persian Bauin Rogico P.D. Box 740 Sundown, TX 78372.0740 (308) 220-8121 Lab Teach Leader - Sheila Hernandez (432) 495-7240

Bone Spring

Water Analysis Report by Baker Petrolite

Company:						Sales RD	FT:	33514	.1	1.		
Region:	PI	CRIMIAN BAS	N			Account i	Manag	ar: TONY	HERNAN	DE2 (574	5) \$10-7	135
Area:	A	TESIA, NM		··· ·		Semple A						
Loase/Platfor	n: Pl	NOCHLE TOP	TATE W	ECOM		Anatyala	DA:	10879	5	-	9 pin pro	
Entity (or well	#); 21	H				Analysis	Cost	\$90.00		-		
Formation:	-	DONOWIN										
Sample Point	W	ELLKEAD										
	Lumman	t				Anchysie	of Sam	pie 534645	Q 75 F			
Sampling Date:		03/10/11	Aniona		m	27	[Rent	Cetions		men		nparts
Anstrais Date: Analysis TD& (mpt) or gr Demaily (g/cm2, AntoniCation fo Carbon Dioxide: Chygon: Commania:	n3): tomne/a	03/12/11 (DRA GOAGE2 18(01).1 (3): 1.113 1): 1.113 1 0 50 PP M	pH at G pH at G	nisle) Isler I Islar	743 9:	10 : 10 : 10 :	24.97 Q. 111.03 111.03 111.03	Bodhimi Megnestion Calolium Bartush Bartush Polesabini Chrantumi Chrantumi Chrantumi Coppor Lead Mangemese Notes	u	2007547 1950 644.0 2200 0.8 6.5 689.0 0.100		3054,82 18,04 43,52 0,02 0,22 22,22
Conditions		Values Ca	iculated	at the Give	n Candit	ona - Ame	NURSE O	I Scale (g)	DINGEO DE			
Temp Dauge Press.		aictie CaCO ₃		12H20		aso4		Celestite BrBO4		Battle BaSO		COg Press
F psi	Index.	Amount	Endaux	Amount	indax	Amount	Ind	CX Ame	und ind	lax A	mount	pei
50 0 100 0	1.95 1,10	156.52	-1.20	0.00	-1.13 -1.20	0.00 0.00	-0.	15 0.0	0 0.		0.29	1.72
120 0 140 0	1.12	224.17	-1,38	0.00	-1.19	0.00	1 0.				020	3.17
140 0	1.13	243.17			-1,18	000	-0.				0.00	

Acces to when anarching the anexity of the access problem, both the assertion index (52) and answers of access are considered.

Nos 2: Recipitation of each state is constituted asparatoly. Total socia will be lace that the ears of the gatourite of the One each as Nose 3: The resolved GO2 presents is excurbly the each lated GO2 Appacity. It is usually nearly the some as the CO2 period pressure **API** Not Issued

API Not Issued

Mesquite SWD, Inc. Laguna Salada 19 SWD #1 1752' FSL & 1727' FEL Section 19, T23S, R29E Eddy County, New Mexico

Item VIII:

Geologic Formation:Devonian/SilurianEstimated Top:14,500'Tickness:1,200'Lithology:Limestone w/Interbedded Dolomites

According to the New Mexico Office of the State Engineer's website, there are three fresh water wells within one-mile radius of the proposed SWD. Average depth to fresh water is 13'. Mesquite SWD, Inc. was unable to obtain an analysis of water from this well. An analysis of water from water well 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 three water wells within one mile of the proposed Laguna Salada 19 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, which is not within the Area of Review.

Item XII:

Affirmative statement is attached.

Item XIII:

Proof of Notice is attached.

Mesquite SWD, Inc. Laguna Salada 19 SWD #1 1752' FSL & 1727' FEL Section 19-T23S-R29E Eddy County, NM

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

(A CLW###### in the POD autix indicates the POD has been replaced & no longer serves a water right	Grouph Comph.	dan col med	144.41	tor⊳æਦ +≹ (gsarters					.Maine	3 UTM in meteraj					rus fic	-		
POD Number	Code	POD Subbaan CUB	Cosaty FD	Source Shallow	4 4 4 6616 4 1 2 4	Sec	Two	Rng 29E	x 592213	3572706		Start Date 04/11/2013	Finish Date 04/13/2013	Long Fale Date 05/07/2013	Depth Well 77	Depth Waser	Driller TAYLOR CEINTON F (LD)	License Number 1348
6.12700		C	ED	Shallow	1	1 y	215	39F	\$91511	3573493* 🔵	949	05/18/2000	6\$/19/2000	08/28/2000	124			146
		¢	ED	Nullow	4	18	235	29E:	5923412	3574291*	1503	05/23/2080	0524/2000	(48/28/2010)	1 *	[4]		1348
Record Count: 3 Basin/County Seni County Eddy	rscha:																	
UTMINADES Radi	92172 2	3		Sortion	191	3572	792 9	7		Hadsiry 16	10							

5/22/18 3 28 PM

WELLS WITH WELL LOG INFORMATION

Analytical Report Lab Order 1705094 Date Reported: 5/10/2017

CLIENT:	Whitenton Group Inc			(lient Sample I	D: Mo	osaic Carrasco Well	
Project:	Oxy/Centurion				Collection Dat	e: 5/1	/2017 4:20:00 PM	
Lab ID:	1705094-002	Matrix:	AQUEOU	S	Received Dat	e: 5/2	2/2017 9:45:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METI	HOD 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
Phosphor	us, 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 CONDUCTANCI	E					Analyst	JRR
Conductiv	vity	8100	1.0		µmhos/cm	1	5/4/2017 2:49:37 PM	R42568
SM2320B	ALKALINITY						Analyst	JRR
Bicarbona	ite (As CaCO3)	208.2	20.00		mg/L CaCO3	1	5/4/2017 2:49:37 PM	R42568
Carbonate	e (As CaCO3)	ND	2.000		mg/L CaCO3	1	5/4/2017 2:49:37 PM	R42568
Total Alka	linity (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 Diss	solved Solids	6570	20.0	•	mg/L	1	5/5/2017 5:44:00 PM	31567
SM4500-H	I+B: PH						Analyst	JRR
рН		7.31		н	pH units	1	5/4/2017 2:49:37 PM	R42568
EPA METI	HOD 6010B: DISSOLVED M	ETALS					Analyst	MED
Calcium		760	10)	mg/L	10	5/4/2017 9:20:14 AM	A42530
Magnesiu	m	250	10)	mg/L	10	5/4/2017 9:20:14 AM	A42530
Potassiun	n	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

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	+	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Ē	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND	Not Detected at the Reporting Limit	Р	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 19 SWD #1 Section 19, T23S, R29E, 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.

7/201/18 Date

Mesquite SWD, Inc. Laguna Salada 19 SWD #1 1752' FSL & 1727' FEL Section 19, T23S, R29E Eddy County, New Mexico

Item XIII: Proof of Notice

Surface Owner:

FedEx Tracking No.

7724 0353 8381

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

Offset Operators:

Chevron USA, Inc. 6301 Deauville Blvd. Midland, TX_79706	Sections 17, 18 and 20, T23S, R29E	7723 9957 9455
Devon Energy Production Company, LP 333 W Sheridan Ave. Oklahoma City, OK 73102	P Sections 19 and 30, T23S, R29E	7723 9955 7895
BTA Oil Producers. LLC 104 South Pecos Midland, TX 79701	Section 20, T23S, R29E	7724 0355 5178
Cimarex Energy Co. of Colorado 202 S Cheyenne Ave., Suite 1000 Tulsa, OK 74102	Section 20 and 29, T23S, R29E	7724 0357 1244
MPC Permian Co. 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240-1017	Section 24, T23S, R28E	7724 0358 4737
Mewbourne Oil Company 4801 Business Park Blvd. Hobbs, NM 88240	Section 25, T23S, R28E	7724 0359 9567
OXY USA, Inc. 5 Greenway Plaza Houston, TX_77046	Section 13, T23S, R28E	7728 2094 0467
Echo Production, Inc. 616 5th Street Graham, TX_76450	Section 13, T23S, R28E	7728 2093 7438

Affidavit of Publication						
No. 24687						
State of New Mexico County of Eddy: Danny Scott						
being duly swhrn sayes 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						
Consecutive weeks/day on the same						
day as follows:						
First Publication May 27, 2018						
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 Listishe Romine NOTARY PUBLIC-STATE OF NEW MEXICO Edy 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 19 SWD #1, API not issued, located 1752' FSL & 1727' FEL, Section 19, T23S, R29E, Eddy County, NM, approximately 4 miles east of Loving, NM, for commercial produced water disposal. The proposed disposal interval is the Siluro-Devonian formation in open-hole interval approximately 14,563' 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.

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