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. 20472

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:

- (1) Mesquite proposes to drill the Baker SWD Well No. 1 well at a surface location 330 feet from the South line and 309 feet from the West line (Unit M) of Section 1, Township 26 South, Range 31 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 17,300' to 18,500'.
- (3) 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.
- (4) Mesquite anticipates a maximum injection pressure of 3,460 psi, or as controlled by depth.
- (5) On or about September 27, 2018 Mesquite SWD, Inc., filed with the Division, an administrative application for approval of the subject well for produced water disposal.

- (6) Mesquite has determined to request that this matter be set for hearing before a Division Examiner.
 - (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 May 4, 2019; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

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

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 Baker SWD Well No. 1 well at a surface location 330 feet from the South line and 309 feet from the West line (Unit M) of Section 1, Township 26 South, Range 31 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 17,300' to 18,500'. 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 22 miles Southwest of Malaga, New Mexico.

RECEIVED:	REVIEWER:	TYPE:	APP NO:	
		44		



Signature		-mail Address		
		mjp1692@gmail.com		
and the second s	Į	Phone Number	: 4	
		(575) 914-1461		
Print or Type Name				
Melanie Wilson		Date		
	-	0/27/2018		
Note: Statement must be completed	by an individual with mana	igerial and/or superviso	ery capacity.	
notifications are submitted to the Division			#1 1.	
understand that no action will be taken		until the required	d information and	
administrative approval is accurate an	d complete to the b	est of my knowle	dge. I also	
3) CERTIFICATION: I hereby certify that the	e information submit	ted with this appl	lication for	
H. No notice required				
G For all of the above, proof of n	otification or public	ation is attached	, and/or,	
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E. Notification and/or concurrent		L	Complete	_
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B. Check one only for [1] or [1]				
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A. Location – Spacing Unit – Simultan				•
1) TYPE OF APPLICATION: Check those wi				
****	INDICATED BELOW			•
SUBMIT ACCURATE AND COMPLETE INFO		TO PROCESS THE	TYPE OF APPLICATION	!
Pool: SWD; Devonian		Pool Cod	de: N/A	
Well Name: Baker SWD Well No. 17.77		API: Not Ye		
Applicant: Mesquite SWD, Inc.		OGRID N	lumber: 161968	_ :: ,:
THIS CHECKLIST IS MANDATORY FOR ALL A	ADMINISTRATIVE APPLICATION JIRE PROCESSING AT THE DIVIS		VISION RULES AND	
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	ncis Drive, Santa Fe			
	of CONSERVANCE But & Engineering But			

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: Form C=108

Baker SWD Well No. 1 API No. (Not Yet Assigned) 330' FSL & 309' FWL, Unit M Section 1, T-26S, R-31E, NMPM, 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. Baker SWD Well No. 1. 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 17,300 feet to 18,500 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 the information necessary to approve the application is enclosed. If additional information is needed, please contact me at (575) 914-1461.

Sincerely,

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

Xc: OCD-Artesia

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

<u>APPLICATION FOR AUTHORIZATION TO INJECT</u>

J.	PURPOSE: Secondary Recovery Application qualifies for administrative approval?	Pressure Maintenance X Yes No	Storage
11.	OPERATOR: Mesquite SWD, Inc.	,	
	ADDRESS: P.O. Box 1479, Carlsbad, New Me		
	CONTACT PARTY: Melanie Wilson		PHONE: 575-914-1461
III.	WELL DATA: Complete the data required on the revers Additional sheets may be attached if nece	essary.	nd for injection.
IV.	Is this an expansion of an existing project? If yes, give the Division order number authorizing the pr	Yes X No	
٧.	Attach a map that identifies all wells and leases within to drawn around each proposed injection well. This circle is		with a one-half mile radius circle
VI.	Attach a tabulation of data on all wells of public record v data shall include a description of each well's type, constr of any plugged well illustrating all plugging detail.	ruction, date drilled, location, depth, reco	
VII.	Attach data on the proposed operation, including:	i til e sekkerili til	
	 Proposed average and maximum daily rate and volume. Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid produced water; and, If injection is for disposal purposes into a zone not prechemical analysis of the disposal zone formation wat wells, etc.). 	and compatibility with the receiving for oductive of oil or gas at or within one m	ile of the proposed well, attach a
*VIII	Attach appropriate geologic data on the injection zone in Give the geologic name, and depth to bottom of all unde dissolved solids concentrations of 10,000 mg/l or less) o be immediately underlying the injection interval.	rground sources of drinking water (aqui	fers containing waters with total
IX.	Describe the proposed stimulation program, if any.		
* Х.	Attach appropriate logging and test data on the well. (If v	well logs have been filed with the Divisi	on, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or mo injection or disposal well showing location of wells and d		ducing) within one mile of any
XII.	Applicants for disposal wells must make an affirmative s and find no evidence of open faults or any other hydrolo drinking water.		
XIII.	Applicants must complete the "Proof of Notice" section of	on the reverse side of this form.	
XIV.	Certification: I hereby certify that the information submitt belief.	ed with this application is true and correc	ct to the best of my knowledge and
	NAME: Melanie Wilson	TITLE: Reg	gulatory Analyst
	SIGNATURE:	DATE:	9/27/18
* .	E-MAIL ADDRESS: mjp1692@gmail.com If the information required under Sections VI, VIII, X, an Please show the date and circumstances of the earlier sub-	d XI above has been previously submitte	ed, it need not be resubmitted.
	RIBUTION: Original and one copy to Santa Fe with one co		

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 pame.
 - (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

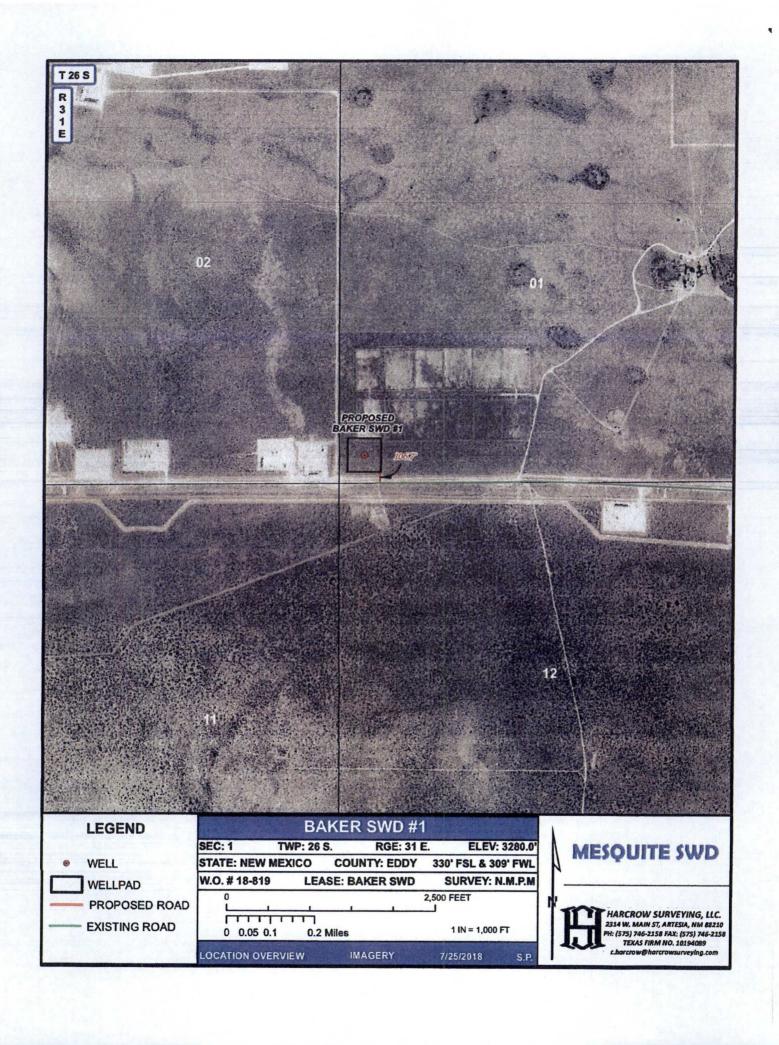
1625 N. PRINTED DR. EDGES, NN. 88240
Energy, Minerals & Natural Resources Department
DISTRICT II

DISTRICT II

OIL CONSERVATION DIVISION

Form C-102 Revised August 1, 2011

011 S. FIRST ST., Phone: (575) 749-128 DISTRICT III 1000 RIO BRAZOS Phone: (505) 334-61	13 Fax: (576) 7: RD., AZYEC, 1	18-9720 NM 87410					RANCIS DR. xico 87505	· · · · · · · · · · · · · · · · · · ·	Submit one copy to Distr	ict Offic		
DISTRICT IV 1220 S. ST. FRANCIS Phone: (605) 476-34									□ AMEND	ED REPOR		
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INJECTION WELL DATA SHEET

LL NAME & N	UMBER: Baker SWD Well	No. 1			
LL LOCATION:	330' FSL & 309' FWL	M	1	26S	31E
		UNIT LETTER	SECTION	TOWNSHIP	RANGE
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ATTACHED)					
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		Juriace	Casing		
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	Hole Size: 17.5"		Casing	Size: 13.375"	68# P-110
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	Top of Cement: <u>Surfac</u>	•			: Circulate
	Top of Cement: <u>Surfac</u>	•	Metho mediate Cas		: Circulate
		•	mediate Cas	ing	
	Hole Size: 12.5" Cemented with: 2,800 s	2nd Intern	mediate Cas Casing	ing Size <u>: 9.625" </u>	
	Hole Size: 12.5"	2nd Internox. Staged; DV	mediate Cas Casing Tools @ 8,2	ing Size <u>: 9.625" </u>	53.5# P-110 BTC
	Hole Size: 12.5" Cemented with: 2,800 s.	2nd Internox. Staged; DV	mediate Cas Casing Tools @ 8,2 Metho	ing Size <u>: 9.625" !</u> 00' & 4,500'	53.5# P-110 BTC
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Additional Data

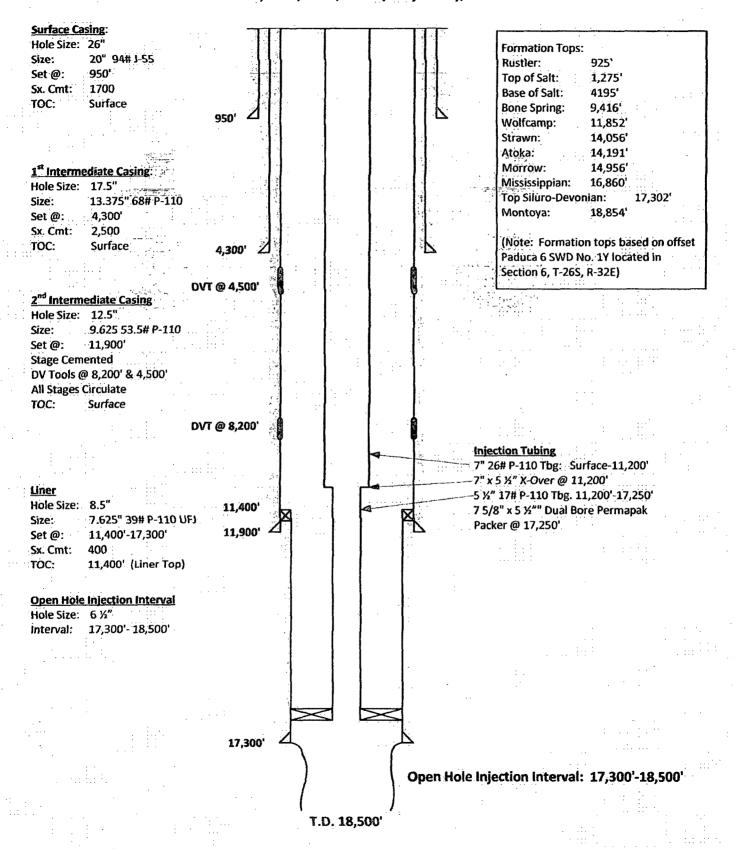
1.	Is this a new well drilled for injection: X Yes No If no, for what purpose was the well originally drilled?	
2.	Name of Injection Formation: Siluro-Devonian	
3.	Name of Field or Pool (if applicable): SWD; Devonian	
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used: None	. .
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: According to OCD pool records, the only pool existing in Section Purple Sage-Wolfcamp (Gas) Pool (Depth 12,000'). Within the area surrounding Section following pools: Southeast Big Sinks-Delaware & Big Sinks-Delaware Pools (Depth: 4,172 Bone Spring Upper Shale Pool; (Depths: 8,700'-9,100');	L are the

(Note: See attached OCD Pool Maps)

Mesquite SWD, Inc.

Baker SWD No. 1: Proposed Wellbore Schematic 330' FSL & 309' FWL (Unit M)

Section 1, T-26S, R-31E, NWPM, Eddy County, NM



C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 330' FSL & 309' FWL (Unit M) Section 1, T-26S, R-31E, NMPM Eddy County, New Mexico

- I. The purpose of the application is to request approval to utilize the proposed Baker SWD No. 1 as a produced water disposal well. This is a new well to be drilled for injection.
- II. Mesquite SWD, Inc.
 P.O. Box 1479
 Carlsbad, New Mexico 88221-1479
 Contact Party: Melanie Wilson (575) 914-1461
- III. Injection well data sheet and wellbore schematic diagram showing the proposed wellbore configuration is attached.
- IV. This is not an expansion of an existing project.
- V. Attached are maps that identify all wells/leases within a 2-mile and 1-mile radius of the proposed water disposal well and a map that identifies the 1-mile "Area of Review" ("AOR").
- VI. A listing of all wells within the AOR, including API No., operator, well name & number, well type and status, surface and bottomhole well locations, MD and TVD and completed formation is attached. An examination of the AOR well listing shows that none of the 31 active or proposed wells within the AOR penetrate, or will penetrate the proposed injection interval. In addition, none of the four PA'd wells within the AOR penetrate the proposed injection interval.
- The average injection rate is anticipated to be approximately 30,000 BWPD. The maximum rate will be approximately 40,000 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
 - 2. This will be a closed system.
 - 3. Mesquite SWD, Inc. will initially inject water into the subject well at or below a surface injection pressure in compliance with the Division's limit of 0.2 psi/ft., or approximately 3,460 psi. If a surface injection pressure above 3,460 psi is necessary, Mesquite SWD, Inc. will conduct a step rate injection test to determine the fracture pressure of the Siluro-Devonian formation in this area.

- 4. Produced water from the Bone Spring, Wolfcamp, Delaware and other producing formations originating from wells in this area will be injected into the subject well. Attached are produced water analysis from various producing wells in Township 26 South, Range 31 East that produce from the Delaware, Bone Spring and Wolfcamp formations. These produced water analyses were obtained from the GO Tech website.
- 5. An examination of Division records indicate that the Siluro-Devonian formation is not productive within one mile of the Baker SWD No. 1. A produced water analysis from the Devonian formation within the Remuda Basin Unit Well No. 1, located in Section 24, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico, was obtained from the Go Tech website, and is attached to this application. This produced water analysis shows a TDS of 56,922 Mg/L.

VIII. Geologic Formation:

Devonian/Silurian

Estimated Top:

17,302

Thickness:

1.552

Lithology:

Limestone w/Interbedded Dolomites

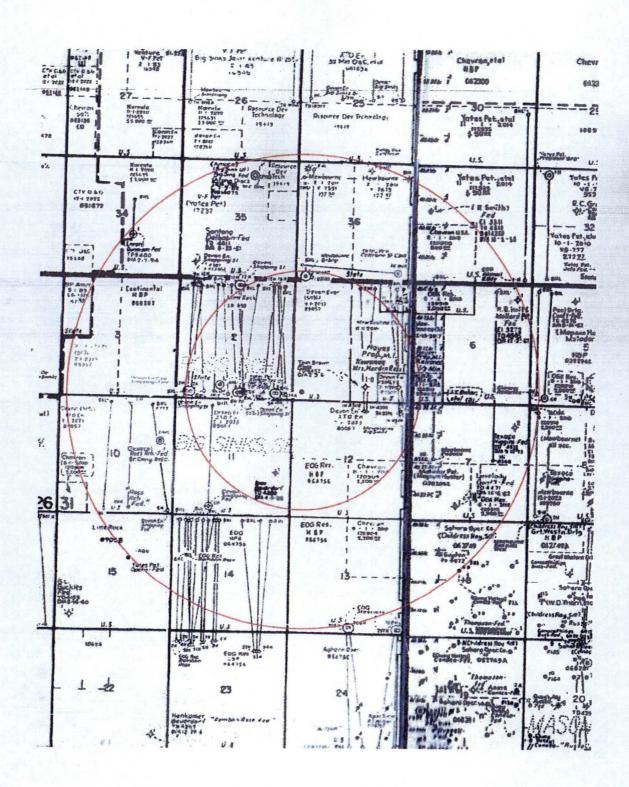
(Note: The top of the Devonian interval cited above was determined by examination of the well file for the offset Paduca 6 SWD No. 1Y, located in Unit E of Section 6, Township 26 South, Range 32 East, NMPM. This well is located approximately 1.25 miles Northeast of the proposed Baker SWD No. 1, and was permitted for injection into the Devonian interval by Order No. SWD-1607-A issued on August 17, 2016. Division records also indicate that this well is active, is currently injecting approximately 17,656 BWPD into the Devonian interval, and has cumulatively injected 6,666,203 barrels of water).

(Note: An examination of OCD well records indicate that there are no additional produced water disposal wells located within the nine-section area surrounding Section 1, T-26S, R-31E, NMPM.)

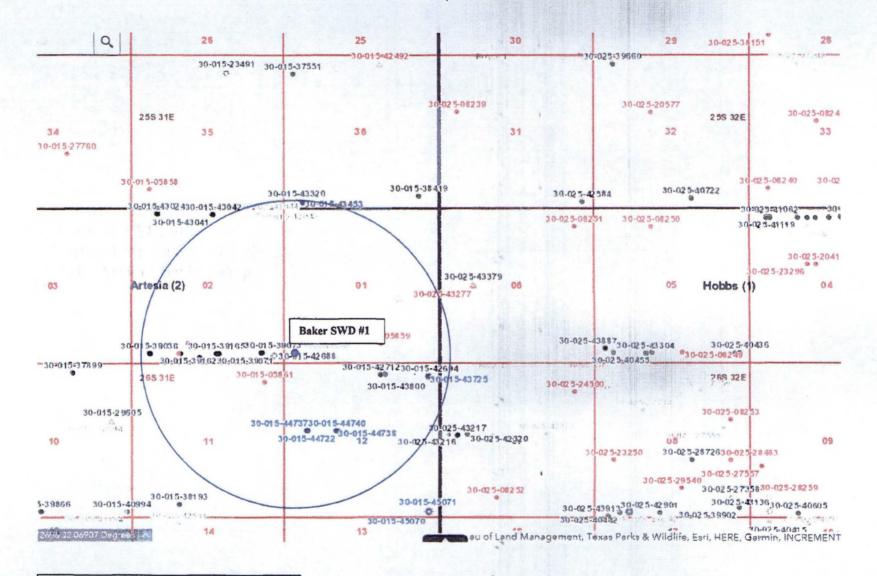
USDW's:

According to data obtained from the New Mexico State Engineer, there are four fresh water wells located within one mile of the Baker SWD No. 1 (See Attached). These wells range in depth from 350 feet to 700 feet, and the depth to water averages 335 feet. Mesquite SWD, Inc. will attempt to obtain a water sample from one of these wells and forward a fresh water analysis to the Division when obtained.

- IX. Formation chemical stimulation may be applied after completion. No other stimulation is currently planned.
- X. Logs will be filed subsequent to the completion of drilling operations. Density-Neutron is planned to be run from surface to TD.
- XI. There are four fresh water wells located within a one-mile radius of the Baker SWD No. 1. (See attached report from the OSE).
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.



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



Mesquite SWD, Inc. Form C-108: Baker SWD No. 1 1-Mile Area of Review Map

MESQUITE SWD, INC. BAKER SWD WELL NO. I ONE-MILE AREA OF REVIEW WELL LIST

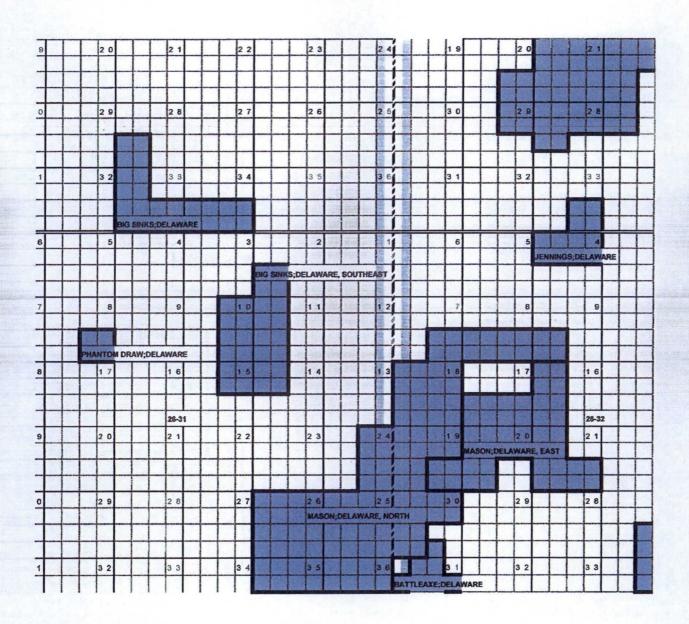
API NUMBER	OPERATOR	LEASE NAME		WELL	STATUS	FTG.	N/S	FTG.		UNIT	SEC.	TSHP.	RNG.	TVD	MD	COMPLETION
:			1.									-		2 - 401 -	15 70 11 1	
30-015-44737	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	521H	Oil	NYD	2325' 330'	N	810' 550'	W		12	26S 26S	31E	8,713' *	15,794	Bone Spring
30-015-44738	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	522H	Oil	NYD	2325'	N	1790'	W	F	12	268	215	8,753' *	18 1701 *	Bone Spring
00-010-447-00	Devon Literay Flod: GO. LF	Grapping 12 11 00	UZZII	:	BHL	330,	N	1430'			1	268	31E	. 6,7.03	10,170	Done Spring
30-015-44758	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	523H	Oil	NYD	2325		1880'	w	F	12	265	31E	8,773' *	16,198'*	Bone Spring
					BHL	330,	N	2310'	W	C	1	265	31E	, ,	:	
30-015-44721	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	531H	Oil	DYN	2325		780'	W	E	12	265		8,983' *	16,064	Bone Spring
	:		 -		BHL	330'	N	500'	W	D	1	268	31E			
30-015-44739	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	532H	Oil	NYD BHL	2325' -330'	N	840' 1320'	W	E	12	26S	31E	8,973	16,084' *	Bone Spring
									·							
30-015-44722	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	533H	Oil	NYD	2325'		1850' 2140'		F	12	26S	31E	9,013' *	16,379' *	Bone Spring
30-015-44740	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	623H	Oil	NYD	2325'	N	1820'	W	F	. 12	268	315	14 54414	18,958' *	Wolfcamp
00-010-14740	Devon Energy Floor, Co. El	Onapping 12 11 cu	02011	011	BHL	330'	N	2090'		C	1	268	31E	11,041	18,930	VVolicamp
30-015-42694	Mewbourne Oil Company	Big Sinks 1 A2 PA Fed Com	1H	Oil	Active	465	N	460'	E	A	12	268	31E	8,838'	13,965'	Bone Spring
				:	BHL	354'	N	482	W	· A ·	1	265	31E			
30-015-43318	Mewbourne Oil Company	Big Sinks 1 A2OB Fee	1H	Oil	NYD	410'	N	1850		В	12	26\$		9,097' *	13,938' *	Bone Spring
					BHL	330'	N	1650'		B	1	268	31E			
30-015-42712	Mewbourne Oil Company	Big Sinks 1 A30B Fee	2H	Oil.	Active	410' 337'	N	1980' 2275'		В	12	26S	31E	9,131	14,295'	Bone Spring
20.045.42705	Manufactura Of Company	Die Siele 4 DO DA Feel Com	20	011		1			·					40.0471	45 00011	
30-015-43725	Mewbourne Oil Company	Big Sinks 1 B2 PA Fed Com	3H	Oil	NYD BHL	465' 330'	N	395' 660'	E	A	12	26S 26S	31E	10,317	15,627' *	Bone Spring
30-015-43800	Mewbourne Oil Company	Big Sinks 1 W1PA Fed Com	2H	Gas	Active	465	N	330'	E	A	12	268	31E	.12,071	17,430'	Wolfcamp
					BHL	330	N	330'	E		1	269	31E			77711321119
30-015-43453	Mewbourne Oil Company	BEBOP 36 B2MD State	1H	Oil	NYD	185'	S	660,	W	М	36	258		9,000' *	14,880' *	Bone Spring
			<u>. :</u>		BHL	330.	N	660'	W	D	36	258	31E			

MESQUITE SWD, INC. BAKER SWD WELL NO. 1 ONE-MILE AREA OF REVIEW WELL LIST

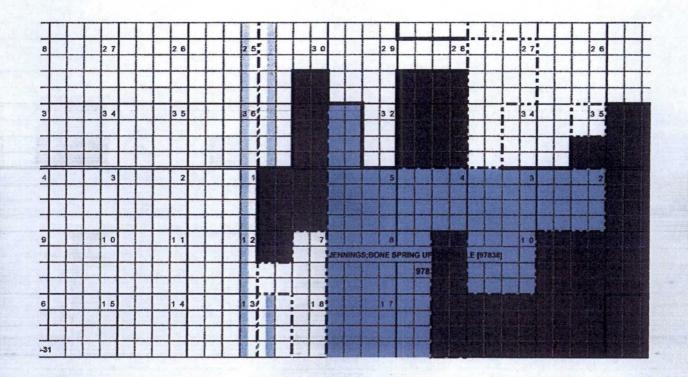
API NUMBER	OPERATOR	LEASE:	WELL NO:	WELL	STATUS	FTG: N/S	N/S	FTG.	EW	UNIT	SEC:	TSHP.	RNG:	י מעד	MD	COMPLETION
30-015-43320	Mewbourne Oil Company	BEBOP 36 W1MD State	2H	Gas	Active	185'	s	450'	Ŵ	M	36	25\$	31E	12,038'	16,550'	Wolfcamp
					BHL.	338.	N	532'	W	D	36	258	31E			
30-015-39104	Devon Energy Prod. Co. LP	Snapping 2 State	1Y	Oil	Active	330' 343'	S		W	N	2 2	26S 26S	31E	8,574'	13,007'	Bone Spring
00.045.00005	8 8 8 8		-											0.000	40.0001	0
30-015-39035	Devon Energy Prod. Co. LP	Snapping 2 State	2H	Oil	Active BHL	330'	S N	990'	W.	M D	2	26S 26S	31E	8,966'	13,600'	Bone Spring
30-015-39036	Devon Energy Prod. Co. LP	Snapping 2 State	3H	Oil	Active	330'	S	630'	W.	М	. 2	265	31E	8,560'	13,136'	Bone Spring
			<u> </u>		BHL	355'	N	390'	W	D	2	265	31E			
30-015-39071	Devon Energy Prod. Co. LP	Snapping 2 State	4H	Oil	Active BHL	330' 342'	S N	735' 413'	E	P	2	26S 26S	31E 31E	9,054'	13,539'	Bone Spring
30-015-39073	Devon Energy Prod. Co. LP	Snapping 2 State	5H	Oil	Active	330'	S	785'	Ε	Р	2	268	31E	8,607	13,122	Bone Spring
	<u> </u>				BHL	346'	N	1037	E	A	2_	268	31E			
30-015-39162	Devon Energy Prod. Co. LP	Snapping 2 State	-6H	Oil	Active BHL	330' 350 '	S	2260' 1 712 '	E	B	2	26S 26S	31E 31E	9,004'	13,798'	Bone Spring
30-015-39163	Devon Energy Prod. Co. LP	Snapping 2 State	7H	Oil	Active	330'	S	2310'		0	2	26S	31E	8,550'	13,102	Bone Spring
					BHL	353'	N		E	В	2	268	31E			
30-015-39165	Devon Energy Prod. Co. LP:	Snapping 2 State	8H	Oil	Active:	330' 400'	S N	2360' 2337'	E W	0 C	2 7 2	26S 26S	31E 31E	8,981'	13,654'	Bone Spring
30-015-43023	Devon Energy Prod. Co. LP	Snapping 2 State	9H	Oil	Active	200	N	880'	W	D	2	-265		10,214	14,825'	Bone Spring
					BHL	348'	8	410	W	M	* 2	268	31E			
30-015-43024	Devon Energy Prod. Co. LP	Snapping 2 State	10H	Oil	Active BHL	350'	N S	930' 410'	W	D M	2 2	26S 26S	31E 31E	10,204	14,766'	Bone Spring
30-015-43041	Devon Energy Prod. Co. LP	Snapping 2 State	11H	Oil	Active	220'	N		E	В	2	265	31E	10,242'	14,811'	Bone Spring
			<u> </u>		BHL	340'	S	2183'	W	N	2	265	31E			
30-015-43042	Devon Energy Prod. Co. LP	Snapping 2 State	.12H	Oil	Active	229' 342'	N	2440' 2215'		В	2	26S 26S	31E	10,239'	14,790'	Bone Spring

MESQUITE SWD, INC. BAKER SWD WELL NO. 1 ONE-MILE AREA OF REVIEW WELL LIST

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API NUMBER	OPERATOR.	LEASE NAME	WELL NO.	WELL	8TATUS	FIG.	8	FTG.	Ē	ZKU	SEC.	TSHP.		באַ	GKI	COMPLETION
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30-015-42113	Devon Energy Prod. Co. LP	Snapping 2 State	13H	.Oil	Active	200'	S	2375	W	N.	2	265	31E	11,430	15,990'	Bone Spring
					BHL	327	N		·W	С	2	268	31E			
30-015-42688	Devon Energy Prod. Co. LP	Snapping 2 State	14H	Gas	Active	250'	S	330'	E	D C	- 2	265		12,022	16,548'	Wolfcamp
					BHL	325'	Z	670'	E	Α	2	263	31E			
			411				_	42.55							40.000	
30-015-38193	Devon Energy Prod. Co. LP	Snapping 11 Federal	<u>1H</u>	Oil	Active	430'	ω:		W	N	11	265	31E	8,529'	12,985'	Bone Spring
				 	BHL	330,	N	1655'	W	С	11	268	31E			
30-015-45070	Mewbourne Oil Company	Sumideros 12 W1PA Fed Com	1H	Gas	NYD	185'	s	330'	E	Р	12	268	315	12,021' *	16 765' *	Wolfcamp
00-010-43010	Mewbourne On Company	Samideros 12 WIT AT ed Com		- Cas	BHL	330,	N	330,	E	A	12		31E	12,021	10,700	· **Oncamp
				 			- '			<u> </u>						·
30-015-45071	Mewbourne Oil Company	Sumideros 12 W1PA Fed Com	2H	Gas	NYD	185'	S	380	E	Р	- 12	265	31E	11,708' *	16,489' *	Wolfcamp
				·	BHL	330'	N	880,	E	Α	12	263	31E			
	PA'd Wall	s Within the AOR. N	lo W	lelle.	Penet	rate	th	e Sil	ıırc	ı-De	VON	ian I	nter	val		
·	, 7. 2 70011														Γ	
30-015-05859	Tom Brown Drilling Co.	Ross	1	Dry	PA	660'	s	1980	E	0	1	26S	31E	4,452'	PA 3/61	Delaware
										1 : "		1				
30-015-24277	Devon Energy Prod. Co. LP	: Almost Texas Unit	1 :	Gas	:PA:	660,	S	1980'	W:	N	2	265	31E	15,900'	PA 8/17	Wolfcamp/Morrov
											7					
				. *					نـــا	1		1.1	.1.		<u> </u>	
30-015-38982	Devon Energy Prod. Co. LP	Snapping 2 State	1	N/A	PA	330'	s	1660'	w	N	2	268	31E	150'	PA 6/11	Stuck Pipe
	Devon Energy Prod. Co. LP							·								
		Snapping 2 State Bauerdorf	1	N/A Dry	PA PA	330' 660'	S	1660' 660'	W		2	26S 26S	31E 31E		PA 6/11	Stuck Pipe Delaware
30-015-38982 30-015-05861	Devon Energy Prod. Co. LP							·								
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30-015-05861	Devon Energy Prod. Co. LP	Bauerdorf						·								



Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 OCD Designated Delaware Pools



Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 OCD Designated Bone Spring Pools

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Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 OCD Designated Wolfcamp Pools

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Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 OCD Designated Devonian Pools

Well Name	Section	Township	Range	Unit	formation	Ph	TDS/Mg/l	Sodium Mg/I	Calcium Mg/l	tron Mg/I	Magnislum Mg/l	Manganese Mg/i	Chloride Mg/I	Bicarbonate Mg/I Su	lfate Mg/I C	02 Mg/l
SNAPPING 2 STATE #013H	2	268	31E	N	BONE SPRING 3RD SAND	6.5	94965.6	31352.7	3678.6	31.7	483.6	0.83	57489.5	244	0	200
SNAPPING 2 STATE #013H	2	265	31E	N	BONE SPRING 3RD SAND	7	94518.2	30031.5	3402.8	19.9	438.9		58782.2		355.2	200
SNAPPING-2 STATE #013H	2	265	315	N	BONE SPRING 3RD SAND	7.2	94863.9	30224.8	3424	14.8	444		59015.2		365	200
SNAPPING 2 STATE #014H	2	265	31E	₽	WOLFCAMP	7.3	81366.4	26319.4	2687.4	26.1	326.7		50281.2		399.7	100
SNAPPING 2 STATE #013H	2	265	31E	N	BONE SPRING 3RD SAND	6.8	91289.1	28721.3	3440.7	16.3	.437.4		56957.4		327.9	150
ROSS RANCH 10 FEDERAL HODI	10	265	31E	н		6.3	111430.5	38922.4	3547.3	76.8	487.9	1.05	66173.2	366·	0	300
ROSS RANCH 10 FEDERAL #001	10	265	31E	H		7	54116.9	46100	5224	349.6	719.3	3.73	0	73.2	0	570
SNAPPING 10 FEDERAL #005H	10	265	31E	P	BONE SPRING 2ND SAND	6.6	138161.9	44458.5	5280.8	29.7	781.3	0	84470	122	0	20
SNAPPING 10 FEDERAL #005H	10	265	31E	p	Bone spring 2nd sand	5.5	138376	44458.5	6280.8	29.7	781.3	0	84470	122	518	2.0
SNAPPING 10 FEDERAL #001H	10	265	31E	8	AVALON UPPER	6.5	199638.8	68948.2	7560.4	111.2	1522.8	2.19	118195	732	0	500
SNAPPING 11 FEDERAL #001H	11	265	31E	N	AVALON UPPER	5.1	225189.8	77010.7	8743.8	\$36.1	1649.2	6.75	134075	366	0	300
SNAPPING 2 STATE #003H	2	265	31E	M	AVALON UPPER	5.1	223019	76001.7	10437.8	209.9	1922.4	4.5	131072	366	632	1100
SNAPPING 2 STATE #006H	2	265	31E	0	AVALON UPPER	6.5	179788.5	71575.7	617.4	21,8	109.6	0	101374	3660	0	500
SNAPPING 2 STATE #006H	2	268	31E	0	AVALON UPPER	6.5	179938	71575.7	617.4	21.8	109.5	0	101374	3660	844	500
SNAPPING 10 FEDERAL #003H	10	265	31E	N	BONE SPRING 2ND SAND	6.5	152439.2	48495.7	6731.3	29.1	801.4	1.06	94055	244	0	100
E D WHITE FEDERAL NCT 1 #003	26	265	31E	0	DELAWARE		212112						132100	195	425	
SNAPPING 10 FEDERAL #001H	10	265	31E	В	AVALON UPPER	7.1	209352,4	70089.5	7327	203	1557	2.5	127230	146.4	600	600
SNAPPING 11 FEDERAL #001H	11	265	31E	N	AVALON UPPER	7	196576.7	68797.3	5059	12	1056	0.9	118943	122	872	380
SNAPPING 11 FEDERAL ROOTH	11	562	31E	N	AVALON UPPER	7	203078.9	72261.4	4407	112	904	1.5	122172	1098	658	80
SNAPPING 2 STATE #001Y	2	265	31E	N	AVALON UPPER	7	162550.1	57137	3885	42	776	0.6	97161	1403	756	70

Mesquite SWD, Inc.
Form C-108; Baker SWD No. 1
Source Water Analysis

Well Name	Section	Township	Range	Unit	Field	Formation	Sample Source	TDS Mg/I Chloride Mg/I	Bicarbonate Mg/i	Sulfate Mg/I
REMUDA BASIN UNIT #001	24	235	29E	j	REMUDA	DEVONIAN	SWAB	56922 29000	1740	4980

Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 Devonian Water Analysis



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,

closed)

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

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

(in feet)

POD

POD Number	Sub- Code basin Count		County	Q Q Q y 6416 4 Sec Twe Rng		X	Y	Depth Depth Water Well Water Column				
C-02090		Ċ	ED	4	4 01	265	31E	620329	3548533* 🌘	350	335	15
C_03554 POD1	. :::	CUB	ED	2 ·1	4 01	265	31E	620547	3549148	630	300	330
C 03639 POD1		CUB	ED	3 4	2 -01	268	31E	620168	3549279 🌑	700	365	335
C 04256 POD1		CUB	ED .	4 4	2 01	268	31E	620384	3549257	666	340	326

Average Depth to Water: 335 feet

Minimum Depth: 300 feet

Maximum Depth: 365 feet

Record Count: 4

PLSS Search:

Section(s): 1, 2, 11, 12

Township: 26S

Range: 31E

Mesquite SWD, Inc.
Form C-108; Baker SWD No. 1
Office of the State Engineer
Fresh Water Well Data

*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.

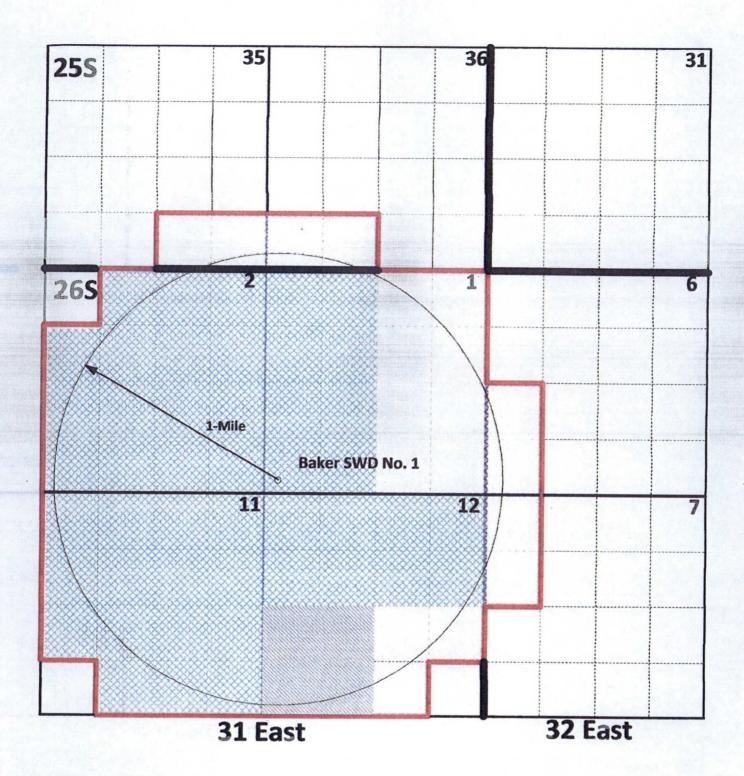
Form C-108
Affirmative Statement
Mesquite SWD, Inc.
Baker SWD No. 1
Section 1. T-26 South, R-31 East, NMPM,
Eddy County, New Mexico

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

Riley Neatherlin

Operations Manager - Mesquite SWD. Inc.

Date



C-108 Application Mesquite SWD, Inc. Baker SWD Well No. 1 1-Mile Notice Area



1-Mile Notice Area Tract 1 Tract 2

Tract 3

Form C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 Section 1, T-26 South, R-31 East, NMPM Notice List

Tract 1:

Section 2: E/2, E/2 W/2, SW/4 NW/4 &

W/2 SW/4

Devon Energy Production Co., LP

20 North Broadway

Oklahoma City, OK 73102

Section 11: E/2 W/2:

Devon Energy Production Co., LP

Section 11: E/2, W/2 NW/4 &

NW/4 SW/4

Devon Energy Production Co., LP

XTO Holdings, LLC 810 Houston Street

Fort Worth, Texas 76102

Section 12: N/2:

Devon Energy Production Co., LP

XTO Holdings, LLC

Section 1: W/2:

Devon Energy Production Co., LP

XTO Holdings, LLC

Tract 2:

Section 36: S/2 SW/4:

Mewbourne Oil Company

P.O. Box 5270

Hobbs, New Mexico 88241

Section 35: S/2 SE/4:

Mewbourne Oil Company

Section 12: N/2 SE/4 & SW/4 SE/4:

Mewbourne Oil Company

Section 7: NW/4 NW/4 & SW/4 NW/4:

Mewbourne Oil Company

(Lots 1 & 2)

Mewbourne Oil Company

(Lot 3)

Section 6: NW/4 SW/4:

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

Form C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 Section 1, T-26 South, R-31 East, NMPM Notice List (Page 2)

Section 6: NW/4 SW/4:

(Lot 3) (Cont.)

RBP Land Company Trust
Robert B. Porter Jr., Trustee

P.O. Box 10392

Widland, Texas 79702

Hayes Land, LP P.O. Box 51510

Midland, Texas 79710-1510

Hayes Land & Production, LP

P.O. Box 51407

Midland, Texas 79710

Section 6: SW/4 SW/4:

(Lot 4)

Mewbourne Oil Company

Section 1: NE/4 NE/4:

Mewbourne Oil Company

Section 1: W/2 E/2, NE/4 SE/4 &:

SE/4 NE/4

Mewborne Oil Company

Chevron USA, Inc.

RBP Land Company Trust

Hayes Land, LP

Hayes Land & Production, LP

Section 1: SE/4 SE/4:

Mewbourne Oil Company

Tract 3:

Section 12: SW/4:

EOG Resources, Inc.

P.O. Box 2267

Midland, Texas 79706

ConocoPhillips Company 600 N. Dairy Ashford Rd. Office EC3-10-W285 Houston, Texas 77079

Form C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 Section 1, T-26 South, R-31 East, NMPM Notice List (Page 3)

Additional Notice:

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

(Surface Owner):

Jessie T. & Susan Ann Baker P.O. Box 24 Silver City, New Mexico 88062

September 27, 2018

CERTIFIED MAIL RETURN RECEIPT REQUESTED

TO: See Attached Notice List

Re: Mesquite SWD, Inc.

Form C-108 (Application for Authorization to Inject)

Baker SWD Well No. 1

API No. (Not Yet Assigned)

330' FSL & 309' FWL, Unit M, Section 1, T-26S, R-31E, NMPM,

Eddy County, New Mexico

Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Mesquite SWD, Inc. Baker SWD No. 1. You are being provided a copy of the application as an offset operator/leaseholder or as the owner of the surface where the proposed well is located. Mesquite SWD, Inc. proposes to drill the Baker SWD No. 1 and utilize the well as a produced water disposal well, injection to occur into the Siluro-Devonian formation through the open-hole interval from approximately 17,300 feet to 18,500 feet.

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

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

Sincerely,

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

Enclosure

Form C-108 Mesquite SWD, Inc. Baker SWD No. 1 Section 1, T-26 South, R-31 East, NMPM, Eddy County, New Mexico

The following-described legal advertisement will be published in the:

Artesia Daily Press 503 W. Main Street Artesia, New Mexico 88210-2067

The Affidavit of Publication will be forwarded to the Division upon receipt by Mesquite SWD, Inc.

LEGAL NOTICE

Mesquite SWD, Inc., P.O. Box 1479, Carlsbad, New Mexico 88221-1479, has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to utilize its proposed Baker SWD No. 1 (API No. N/A) to be drilled 330 feet from the South line and 309 feet from the West line (Unit M) of Section 1, Township 26 South, Range 31 East, NMPM, Eddy County, New Mexico and complete the well as a produced water disposal well in the Siluro-Devonian formation. Injection is to occur through the open-hole interval from approximately 17,300 feet to 18,500 feet.

Produced water from the Bone Spring, Wolfcamp and other formations originating from wells in this area will be injected into the Baker SWD No. 1 at average and maximum rates of 30,000 and 40,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 3,460 psi., which is in compliance with Division regulations. The maximum surface injection pressure will be determined by step rate injection test.

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

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





March 27, 2019

Re:

Florene Davidson NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505 Tel: 505.848.1834 Fax: 505.848.9710 deana.bennett@modrall.com

Deana M. Bennett

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

Dear Ms. Davidson:

Enclosed please find a copy of the following:

1. No. ____ Mesquite's Application / Baker SWD Well No. 1

Thank you for your assistance. Please contact me if you have any questions.

Sincerely, Harlehe Schuma

Karlene Schuman Legal Assistant to Deana M. Bennett

Enclosure

Modrall Sperling Roehl Harris & Sisk P.A.

500 Fourth Street NW Suite 1000 Albuquerque, New Mexico 87102

PO Box 2168 Albuquerqué, New Mexico 87103-2168

Tel: 505.848.1800 www.modrall.com

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.

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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:

- (1) Mesquite proposes to drill the Baker SWD Well No. 1 well at a surface location 330 feet from the South line and 309 feet from the West line (Unit M) of Section 1, Township 26 South, Range 31 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 17,300' to 18,500'.
- (3) 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.
- (4) Mesquite anticipates a maximum injection pressure of 3,460 psi, or as controlled by depth.
- (5) On or about September 27, 2018 Mesquite SWD, Inc., filed with the Division, an administrative application for approval of the subject well for produced water disposal.

- (6) Mesquite has determined to request that this matter be set for hearing before a Division Examiner.
 - (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 May 4, 2019; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

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

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 Baker SWD Well No. 1 well at a surface location 330 feet from the South line and 309 feet from the West line (Unit M) of Section 1, Township 26 South, Range 31 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 17,300' to 18,500'. 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 22 miles Southwest of Malaga, New Mexico.

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	understand that	no action will be to	ken on this applica	ition u	ntil the requir	ed information and
	notifications are	submitted to the Di	vision.			
	Note:	Statement must be comple	eted by an individual with	manage	rial and/or super	visory capacity
		*		9/27	7/2018	
Mo	elanie Wilson			Dat	le	
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(1)	m or type name.			(57	5) 914-1461	
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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: Form C-108

Baker SWD Well No. 1 API No. (Not Yet Assigned) 330' FSL & 309' FWL, Unit M Section 1, T-26S, R-31E, NMPM, 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. Baker SWD Well No. 1. 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 17,300 feet to 18,500 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 the information necessary to approve the application is enclosed. If additional information is needed, please contact me at (575) 914-1461.

Sincerely,

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

Xc: OCD-Artesia

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

į.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
И,	OPERATOR: Mesquite SWD, Inc.
	ADDRESS: P.O. Box 1479, Carlsbad, New Mexico 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 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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 interred 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: 9/27/18
*	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

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 specific form and shall include:
 - (1) Lease name; Well No.: Location by Section, Township and Range; and footage location within the section.
 - (2) Each easing 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

1025 N. FRENCH DR. HOBBS. NM 88240
1026 N. FRENCH DR. HOBBS. NM 88240
1026

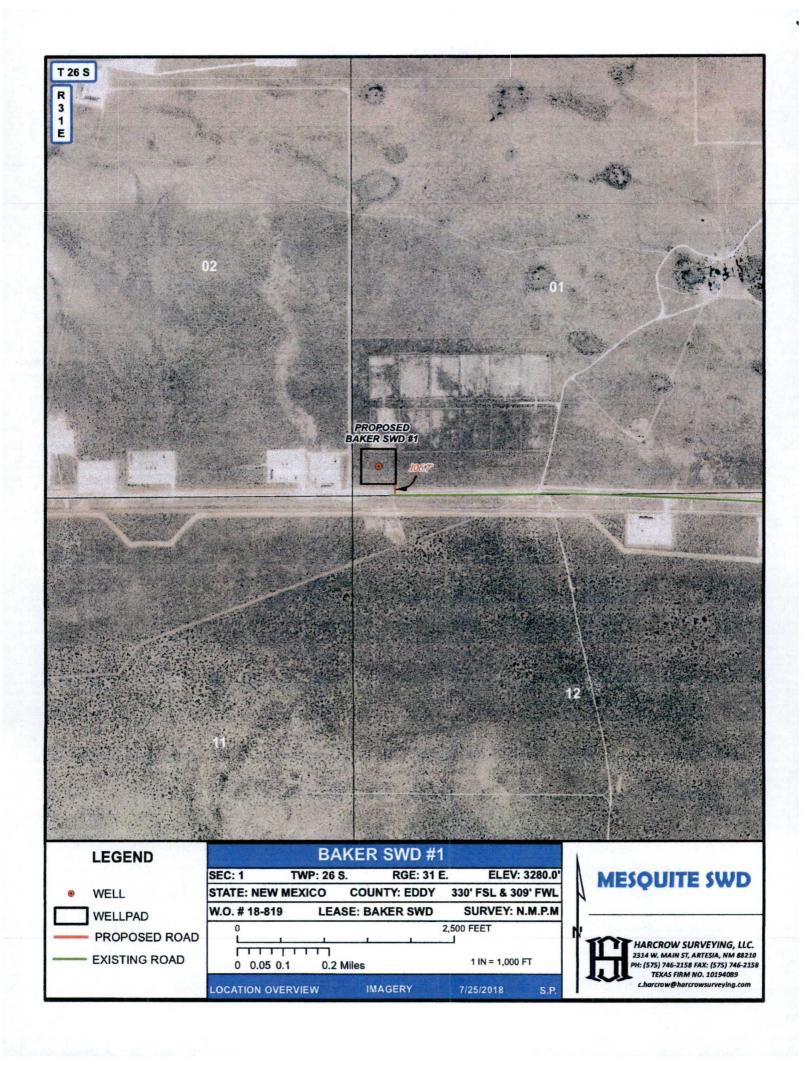
1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410

ISTRICT IV									□ AMENDI	ED REPO
220 S. ST. FRANCIS D bone: (505) 476-346	30 Pax: (505)	476-5462	WELL LO	CATION	AND	ACREA	GE DEDICATI	ON PLAT		
API	Number	:-		Pool Code				Pool Name		
Property (Code	T		······································	Prop	erty Name	• • • • • • • • • • • • • • • • • • • •	:	Well Num	ber
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OGRID No).				Opero MESQU	ator Name JITE S			Elevatio 3280	
		1-			Surfac	ce Loca	tion			
IL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
М	1	26-S	31-E		33	50 ° 1	SOUTH	309	WEST	EDDY
L or lot No.	Section	Township	Bottom Range	Hole Loc Lot Idn	cation I		rent From Sur	face Feet from the	East/West line	Count
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.					
NO ALLO	WABLE W						NTIL ALL INTER APPROVED BY	THE DIVISION		· · · · · · · · · · · · · · · · · · ·
	1							l hereby herein is true my knowledge	OR CERTIFICA certify that the info and complete to the and belief, and that ther owns a working	ormation best of this
								or unleased mi including the p or has a right location pursus owner of such or to a volunte	ther owns a working broposed bottom hole to drill this well at ant to a contract wi mineral or working ary pooling agreemen bling order heretofor	e land e location this th an interest, at or a
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Signature Date 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. JULY 20, 2018 Date of Survey Signature & Seal of Professional Surveyor CHAD L. HARCAO EN MEXIC NAD 83 NME SURFACE LOCATION Y=388165.3 N X=725355.1 E LAT.=32.065754° N LONG. = 1.03.739286" W Certificate No. CHAD HARCROW



INJECTION WELL DATA SHEET

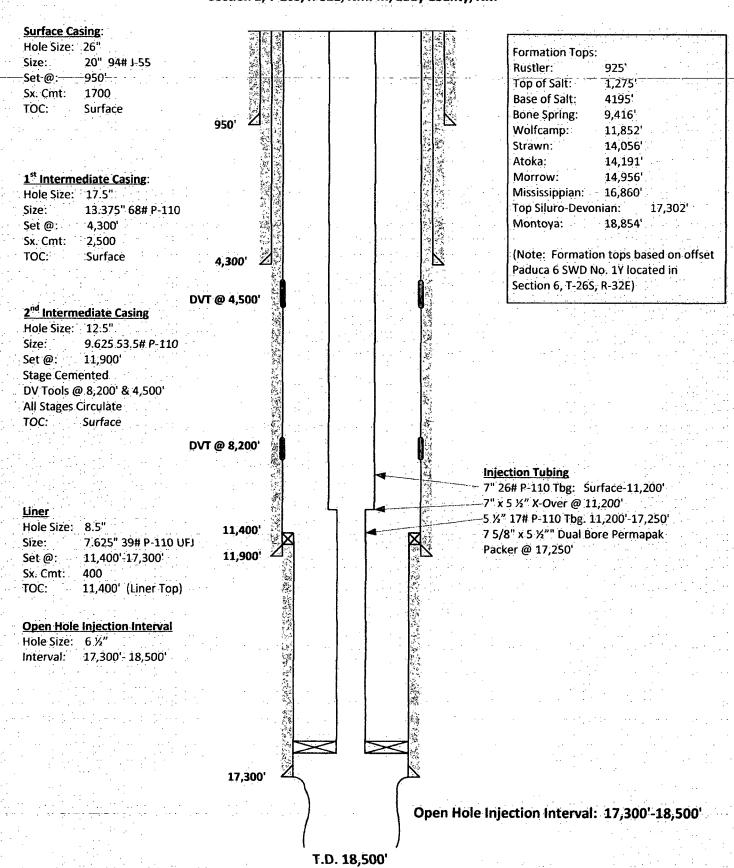
OPERATOR: M					
WELL NAME & N	JMBER: Baker SWD We	ell No. 1	 		
WELL LOCATION:	330' FSL & 309' FWL	M	1	26S	31E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHE	MATIC	WELL CONST	RUCTION D	ATA	
(SEE ATTACHED)					
		•			
		Surface	e Casing		
sayisti.	Hole Size: 26"	<u> </u>	Casing	; Size <u>: 20" 94#</u>	J-55 BTC
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1					
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	and the state of t			****	
		Injection	on Interval		
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		Open Hole; indic			
Tubing Siz	e: Tapered String 7" 26#	P-110/5 ½" 17# F	2-110 Lining	Material: Fil	perglass Coated
Type of Pa					
Packer Set	ting Depth: Approx	mately 17,250'			

Additional Data

1.	Is this a new well drilled for injection: X Yes No	
	If no, for what purpose was the well originally drilled?	Programme Control
2.	Name of Injection Formation: Siluro-Devonian	
3.	Name of Field or Pool (if applicable): SWD; Devonian	**.
		•
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used: None	
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: According to OCD pool records, the only pool existing in Section Purple Sage-Wolfcamp (Gas) Pool (Depth 12,000'). Within the area surrounding Section 1 following pools: Southeast Big Sinks-Delaware & Big Sinks-Delaware Pools (Depth: 4,172') Bone Spring Upper Shale Pool; (Depths: 8,700'-9,100');	are the
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(Note: See attached OCD Pool Maps)

Mesquite SWD, Inc. Baker SWD No. 1: Proposed Wellbore Schematic 330' FSL & 309' FWL (Unit M) Section 1, T-26S, R-31E, NMPM, Eddy County, NM



C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 330' FSL & 309' FWL (Unit M) Section 1, T-26S, R-31E, NMPM Eddy County, New Mexico

- I. The purpose of the application is to request approval to utilize the proposed Baker SWD No. 1 as a produced water disposal well. This is a new well to be drilled for injection.
- II. Mesquite SWD, Inc.
 P.O. Box 1479
 Carlsbad, New Mexico 88221-1479
 Contact Party: Melanie Wilson (575) 914-1461
- III. Injection well data sheet and wellbore schematic diagram showing the proposed wellbore configuration is attached.
- IV. This is not an expansion of an existing project.
- V. Attached are maps that identify all wells/leases within a 2-mile and 1-mile radius of the proposed water disposal well and a map that identifies the 1-mile "Area of Review" ("AOR").
- VI. A listing of all wells within the AOR, including API No., operator, well name & number, well type and status, surface and bottomhole well locations, MD and TVD and completed formation is attached. An examination of the AOR well listing shows that none of the 31 active or proposed wells within the AOR penetrate, or will penetrate the proposed injection interval. In addition, none of the four PA'd wells within the AOR penetrate the proposed injection interval.
- VII. 1. The average injection rate is anticipated to be approximately 30,000 BWPD. The maximum rate will be approximately 40,000 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
 - 2. This will be a closed system.
 - 3. Mesquite SWD, Inc. will initially inject water into the subject well at or below a surface injection pressure in compliance with the Division's limit of 0.2 psi/ft., or approximately 3,460 psi. If a surface injection pressure above 3,460 psi is necessary, Mesquite SWD, Inc. will conduct a step rate injection test to determine the fracture pressure of the Siluro-Devonian formation in this area.

- 4. Produced water from the Bone Spring, Wolfcamp, Delaware and other producing formations originating from wells in this area-will be injected into the subject well. Attached are produced water analysis from various producing wells in Township 26 South, Range 31 East that produce from the Delaware, Bone Spring and Wolfcamp formations. These produced water analyses were obtained from the GO Tech website.
- 5. An examination of Division records indicate that the Siluro-Devonian formation is not productive within one mile of the Baker SWD No. 1. A produced water analysis from the Devonian formation within the Remuda Basin Unit Well No. 1, located in Section 24, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico, was obtained from the Go Tech website, and is attached to this application. This produced water analysis shows a TDS of 56,922 Mg/L.

VIII. Geologic Formation: Devonian/Silurian

Estimated Top: 17,302' Thickness: 1,552'

Lithology: Limestone w/Interbedded Dolomites

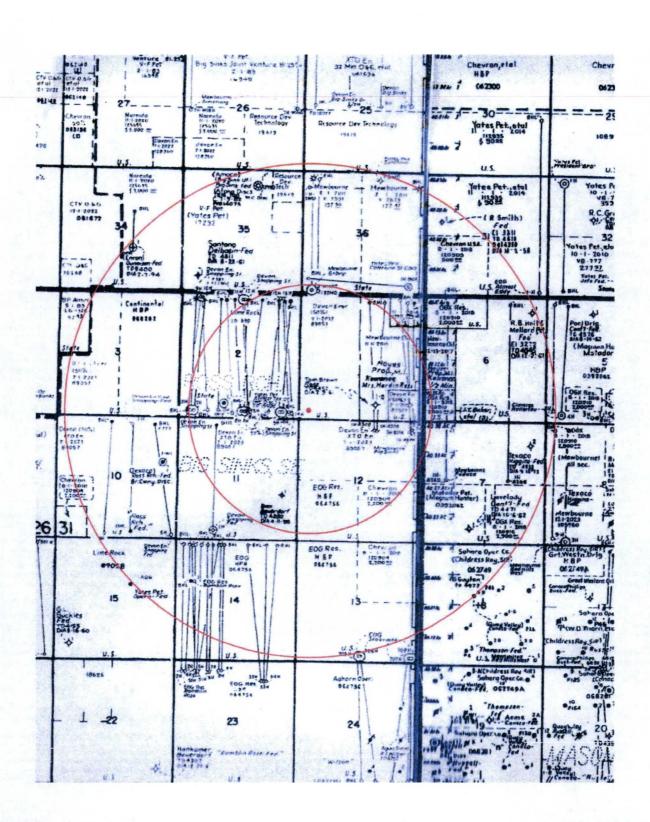
(Note: The top of the Devonian interval cited above was determined by examination of the well file for the offset Paduca 6 SWD No. 1Y, located in Unit E of Section 6, Township 26 South, Range 32 East, NMPM. This well is located approximately 1.25 miles Northeast of the proposed Baker SWD No. 1, and was permitted for injection into the Devonian interval by Order No. SWD-1607-A issued on August 17, 2016. Division records also indicate that this well is active, is currently injecting approximately 17,656 BWPD into the Devonian interval, and has cumulatively injected 6,666,203 barrels of water).

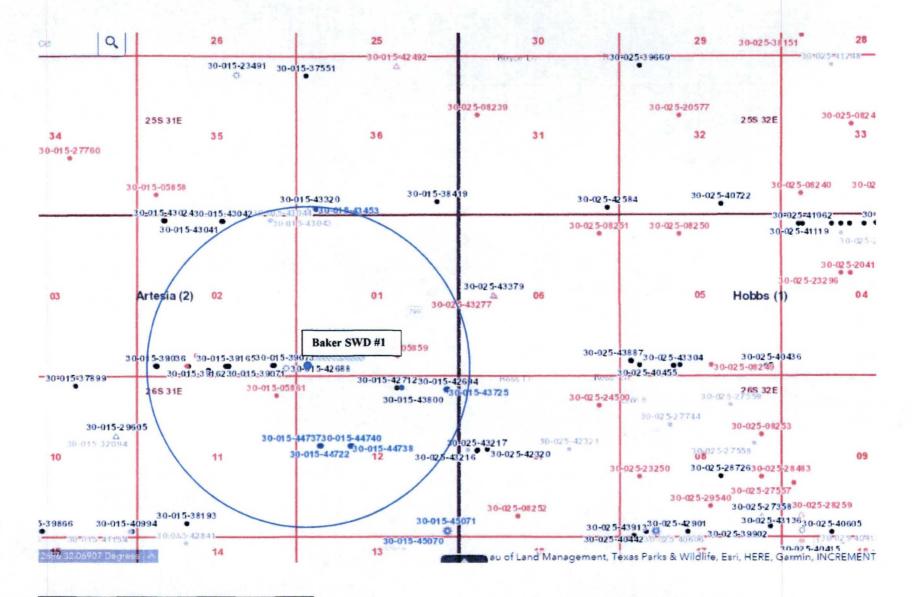
(Note: An examination of OCD well records indicate that there are no additional produced water disposal wells located within the nine-section area surrounding Section 1, T-26S, R-31E, NMPM.)

USDW's:

According to data obtained from the New Mexico State Engineer, there are four fresh water wells located within one mile of the Baker SWD No. 1 (See Attached). These wells range in depth from 350 feet to 700 feet, and the depth to water averages 335 feet. Mesquite SWD, Inc. will attempt to obtain a water sample from one of these wells and forward a fresh water analysis to the Division when obtained.

- IX. Formation chemical stimulation may be applied after completion. No other stimulation is currently planned.
- Logs will be filed subsequent to the completion of drilling operations.
 Density-Neutron is planned to be run from surface to TD.
- XI. There are four fresh water wells located within a one-mile radius of the Baker SWD No. 1. (See attached report from the OSE).
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.





Mesquite SWD, Inc. Form C-108: Baker SWD No. 1 1-Mile Area of Review Map

MESQUITE SWD, INC. BAKER SWD WELL NO. 1 ONE-MILE AREA OF REVIEW WELL LIST

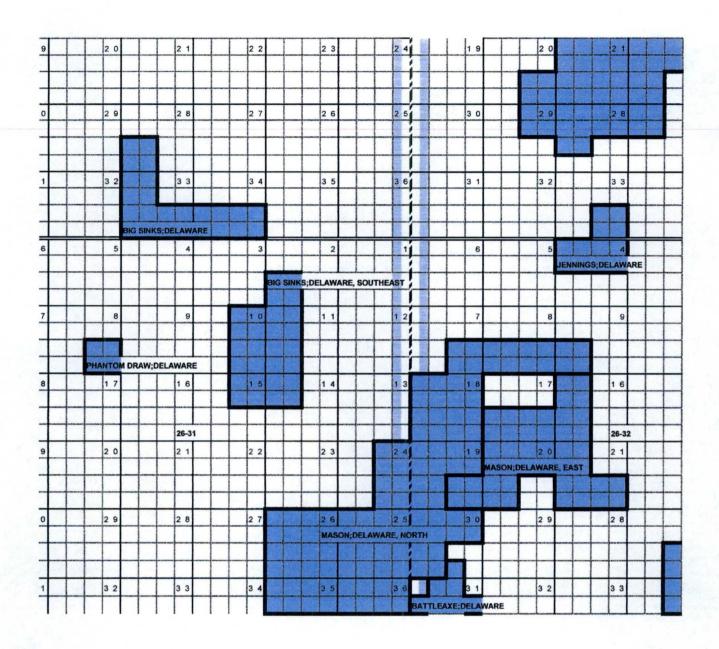
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG: N/S	N/S	FTG.	E/W	UNIT	SEC.	TSHP.	RNG	TVD	MD	COMPLETION
30-015-44737	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	521H	Oil	NYD.	2325'	N	810'	W	E	12	265	31E	8,713' *	15,794' *	Bone Spring
			· · · ·		BHL	330'	N	550'	W	D	1	26S	31E			
30-015-44738	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	522H	Oil	NYD	2325'	N	1790'	W	F	12	26S	31E	0.7531+	46 4701 *	Bana Carina
30-013-44736	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	522H	···OII	BHL	330'		1430'		C	1	26S	31E	8,753' *	16,170' *	Bone Spring
30-015-44758	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	523H	Oil	NYD	2325'	N	1880'	W	F	12	26S	31E	8,773' *	16 108' *	Bone Spring
00 010 14100	Ecton Lileigy (100. Co. Li	Chapping 12 11 CC	02011	0.	BHL	330		2310'		c	1	265	31E	0,773	10,190	Done oping
30-015-44721	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	531H	Oil	NYD	2325	N	780'	W	Ē	- 12	265	31E	8 983' *	16,064' *	Bone Spring
:			00 111		BHL	330'	N	500'	W	D	1	268	31E	0,000	10,004	Done opining
30-015-44739	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	532H	Oil	NYD	2325'	N	840'	w	E	12	268	31E	8.973' *	16,084' *	Bone Spring
-					BHL	330'	N	1320'		D	1	26S	31E			
30-015-44722	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	533H	Oil	NYD	2325'	N			F	12	26S	31E	9,013' *	16,379' *	Bone Spring
					BHL	330'	N	2140'	W	С	1	265	31E			
30-015-44740	Devon Energy Prod. Co. LP	Snapping 12 1 Fed	623H	Oil	NYD	2325'	N	1820'	W	F	12	268	31E	11,541'.*	18,958'.*	Wolfcamp
			1		BHL	330'	N	2090'	W	С	. 1	265	31E			
30-015-42694	Mewbourne Oil Company	Big Sinks 1 A2 PA Fed Com	1H	Oil	Active	465'	N	460'	E	Α	12	26S	31E	8,838	13,965'	Bone Spring
<u>: </u>			ļ <u> </u>	1	BHL	354'	N	482'	W	Α	1 1	265	31E			
30-015-43318	Mewbourne Oil Company	Big Sinks 1 A2OB Fee	1H	Oil	NYD	410'	N	1850		В	12	26S	31E	9,097' *	13,938'.*	Bone Spring
			-	1	BHL	330'	N	1650'	E	В	1	265	31E			
30-015-42712	Mewbourne Oil Company	Big Sinks 1 A30B Fee	2H	Oil	Active	410'	N	1980		В	12	268	31E	9,131	14,295'	Bone Spring
<u>.l </u>				<u> </u>	BHL	337'	N	2275'	E	В	1	268	31E			
30-015-43725	Mewbourne Oil Company	Big Sinks 1 B2 PA Fed Com	3H	Oil	NYD	465'	N	395'	E	Α	12	268	31E	10,317' *	15,627' *	Bone Spring
			-	. :	BHL	330'	N	660'	E	Α	1 :	268	31E		1	
30-015-43800	Mewbourne Oil Company	Big Sinks 1 W1PA Fed Com	2H	Gas	Active	465	N	330	E	Α	12	26S	31E	12,071	17,430	Wolfcamp
			-		BHL	330'	N	330	·E	Α	1 1	265	31E			
30-015-43453	Mewbourne Oil Company	BEBOP 36 B2MD State	1H.	Oil	NYD	185	S	660'	·W		36	258	31E	9,000' *	14,880' *	Bone Spring
			ļ: · · ·		BHL	330'	N	660'	W	. D .	36	25S	31E	: - :	7.4	

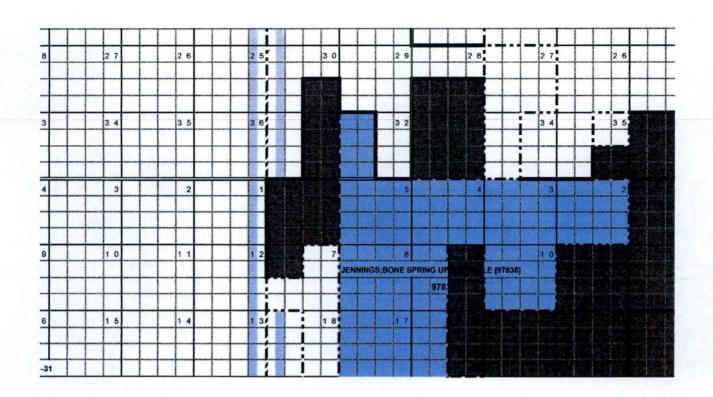
MESQUITE SWD, INC. BAKER SWD WELL NO. 1 ONE-MILE AREA OF REVIEW WELL LIST

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG:	N/S	FTG.			SEC.	TSHP.	RNG.	TVD	MD	COMPLETION
30-015-43320	Mewbourne Oil Company	BEBOP 36 W1MD State	2H	Gas	Active	185'	s	450'	W	M	36	255	31E	12,038	16,550'	Wolfcamp
30 010 40020	the wooding Oil Company		4-11	Cas	BHL	338'	N	532'	w	D	36	25S	31E	12,000	10,000	vvoiicamp
			· ·						<u> </u>					1		· .
30-015-39104	Devon Energy Prod. Co. LP	Snapping 2 State	1Y	Oil	Active	330	·S	1710		N	. 2	26S	31E	8,574	13,007'	Bone Spring
<u> </u>			 		BHL	343'	N	1650'	W	С	2_	265	31E		 	
30-015-39035	Devon Energy Prod. Co. LP	Snapping 2 State	. 2H	Oil	Active	330'	S	680'	W	М	2	26S	31E	8,966	13,600'	Bone Spring
			. :		BHL	330'	N	990'	W	D	2	268	31E	!		
30-015-39036	Devon Energy Prod. Co. LP	Snapping 2 State	3H	Oil	Active	330'	s	630'	w	М	2	26S	31E	8,560'	13,136'	Bone Spring
00 010 00000	Doron Energy is rod. oo. Er	Grapping 2 Grate	5,1		BHL	355'	N	390	w	D	2	265	31E	0,000	10,100	Done Opring
30-015-39071	Devon Energy Prod. Co. LP	Snapping 2 State	4H	Oil	Active	330'	S	735'	E	P	2	268	31E	9,054	13,539'	Bone Spring
<u> </u>					BHL	342	N.	413'	E	Α_	2	265	31E		1	
30-015-39073	Devon Energy Prod. Co. LP	Snapping 2 State	5H	Oil :	Active	330'	s	785'	E	Р	2	26S	31E	8,607	13,122'	Bone Spring
					BHL	346'	N	1037		A	2	26S	31E	0,00.	10,122	Don't Opting
					٠	•					· ·					:
30-015-39162	Devon Energy Prod. Co. LP	Snapping 2 State	6H	Oil .	Active	330'	. S	2260		으	2	265	31E	:9,004'	13,798'	Bone Spring
			-		BHL	350'	N	1712'	E	В	2	268	31E		-	
30-015-39163	Devon Energy Prod. Co. LP	Snapping 2 State	7H	Oil	Active	330'	s	2310	E	0	2 .	268	31E	8,550	13,102	Bone Spring
					BHL	353'	N	2306'	Ε	В	2	26S	31E			
20.015.20165	Devon Energy Prod. Co. LP	Saaria 2 State	8H	Oil	Active.	330'	s	2360'	Ε	0	2	26S	245	0.0041	40.054	Dan South
30-015-39165	Devon Energy Prod. Co. LP	Snapping 2 State	on	UII	BHL	400'	N	2337		c	2	26S	31E	8,981	13,654'	Bone Spring
							 ``			 			<u> </u>			
30-015-43023	Devon Energy Prod. Co. LP.	Snapping 2 State	9H	Oil	Active	200'	N.	.880'	W	D	2	268	31E	10,214	14,825'	Bone Spring
}		· · · · · · · · · · · · · · · · · · ·			BHL	348'	S	410'	W	M	2	268	31E			
30-015-43024	Devon Energy Prod. Co. LP	Snapping 2 State	10H	Oil	Active	200'	·N	930'	w	D	2	265	31E	10,204	14,766'	Bone Spring
	- Coron Liloigy (100, Co. Li	Onapping 2 Ototo	1011	<u> </u>	BHL	350'	s	410'	W	M	2	265	31E	10,204	13,700	Done oping
													:			
30-015-43041	Devon Energy Prod. Co. LP	Snapping 2 State	11H	Oil	Active	220'	N	2490		В	2	265	31E	10,242	14,811'	Bone Spring
					BHL	340'	5	2183	W	N	2	268	31E	1 1	1	
30-015-43042	Devon Energy Prod. Co. LP	Snapping 2 State	12H	Oil	Active	229'	N	2440'	E	В	2	268	31E	10,239	14,790'	Bone Spring
					BHL	342'	s	2215		ō	2	265	31E	1 1		

MESQUITE SWD, INC. BAKER SWD WELL NO. 1 ONE-MILE AREA OF REVIEW WELL LIST

API NUMBER	OPERATOR:	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	E/W	UNIT	SEC.	TSHP.	RNG.	TVD	MD	COMPLETION
		NAME	NO.	TYPE		N/S		E/W		A 19	100	10	299	0	S 412	
1	. 2		:	:			. :			T					. ::1	
30-015-42113	Devon Energy Prod. Co. LP	Snapping 2 State	13H	Oil	Active	200'		2375		N	2	26S	31E	11,430'	15,990'	Bone Spring
1 1					BHL	:327"	N	1967'	W	:C	2	26S_	31E			
							<u> </u>									
30-015-42688	Devon Energy Prod. Co. LP	Snapping 2 State	14H	Gas	Active	250	S	330'	E	P	2	26S	31E	12,022	16,548'	Wolfcamp
					BHL	325'	N	670'	E	Α	2	268	31E			
00.045.00400	5 5 5 6 15						-	l	نينا		ļ.,					
30-015-38193	Devon Energy Prod. Co. LP	Snapping 11 Federal	1H	Oil	Active	430'	S	1650		N	11	265	31E	8,529'	12,985'	Bone Spring
					BHL	330'	N	1655	W	С	11	268	31E	ļ	ļ	
30-015-45070	Mewbourne Oil Company	Sumideros 12 W1PA Fed Com	1H	Gas	NYD	185	s	330'	E	Р	12	26S	31E	40.0041+	16,765' *	\A4=16=====
30-013-43070	Mewbourne Oil Company	Sumideros 12 WTPA Fed Com	. IH	Gas	BHL	330'	N	330	E		12	26S	31E	12,021' *	10,700	Wolfcamp
·		· · · · · · · · · · · · · · · · · · ·	-	·	DAL	330_	. N	330		A	12	203	SIE	 		· · · · · · · · · · · · · · · · · · ·
30-015-45071	Mewbourne Oil Company	Sumideros 12 W1PA Fed Com	2H	Gas	NYD	185'	s	380'	E	р: .	12	26S	215	11,708' *	16,489' *	Wolfcamp
	Wethodine On Company	Samueros 12 WIT AT ed Som	211	Gas	BHL	330'	N	990'	F	A	12	268	31E	11,700	10,403	VVOIICATTIP
<u> </u>	<u> </u>	<u> </u>								'				<u> </u>	<u> </u>	
	PA'd Wells	s Within the AOR. N	lo W	ells	Penet	rate	th:	e Sil	lurc	-De	von	ian l	nter	val		•
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30-015-05859	Tom Brown Drilling Co.	Ross	_ 1	Dry	: PA	660'	S	1980	E	0	. 1	26\$	31E	4,452'	PA 3/61	Delaware
							·. · ·	1	Ŀ	٠.						
30-015-24277	. Devon Energy Prod. Co. LP	Almost Texas Unit	1	Gas	PA	660'	S	1980'	W	N :	2	26S	31E	15,900'	PA 8/17	Wolfcamp/Morroy
20.045.00000	5 5 5 5						<u> </u>	l								
30-015-38982	Devon Energy Prod. Co. LP	Snapping 2 State	1	:N/A	PA	330	S	1660'	W	N	2	26S	31E	150'	PA 6/11	Stuck Pipe
30-015-05861	The Ibex Company	Bauerdorf	1	Drv	PA	660'	N	660'	E	<u> </u>	11	26S	31E	4.0001	PA 5/55	D-I
30-013-03801	The foek Company	Baderdon		Uly	FA	860	I IN	000	-	- A -	11	203	SIE	4,282'	PA 3/33	Delaware
							-	 		 			 			· · · · · · · · · · · · · · · · · · ·
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* TVD 9 **		16														
* TVD & M	D Estimates Obtaine	d from APD														





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PURPLE SAGE;W	OLFCAMP (GAS) [98220	1							
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			PADUC	A;DEVONIAN (GAS)			
25-31						25-32	\bot
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16	1 5	1 4	1 3	1 8	17	16	1 5
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26-31		+	1		+++	26-32	++-
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						and the second of the second									- 1				
	Well Name	Section	Township	Range	Unit	Formation	Ph	TDS/Mg/I	Sodium Mg/i	Calcium Mg/l	Iron Mg/I	Magnisium Mg/I	Manganese Mg/l	Chloride Mg/i i	Bicarbonal	e Mg/l S	ulfate Mg/l	CO2 Mg/l	
	SNAPPING 2 STATE #013H	2	26S	31E	N	BONE SPRING 3RD SAND	6.5	94965.6	31352.7	3678.6	31.7	483.6	0.83	57489.5	1	244	0	200	
	SNAPPING 2 STATE #013H	2	265	31E	N	BONE SPRING 3RD SAND	7.	94518.2	30031.5	3402,8	19.9	438.9		58782.2			355.2	200	
	SNAPPING 2 STATE #013H	2	265	31E	· N	BONE SPRING 3RD SAND	7.2	94863.9	30224.8	3424	14.8	444		59015.2			365	200	
÷	SNAPPING 2 STATE #014H	2	265	31E	· P.	WOLFCAMP	7.3	81366.4	26319.4	2687.4	26.1	326.7		50281.2	i		399.7	100	:
	SNAPPING 2 STATE #013H	2	265	31E	N	BONE SPRING 3RD SAND	6.8	91289.1	28721.3	3440.7	16.3		1. 1	56957.4			327.9	150	
	ROSS RANCH 10 FEDERAL #001	10	265	31€	H ·		6.3	111430.5	38922.4	3647.3	76.8	487.9	1.05	66173.2	4	-366	. 0	300	
	ROSS RANCH 10 FEDERAL #001	10	265	31E	н.		. 7	54116.9	46100	5224	349.6	719.3	3.73	0	i	· 73.2	0	570	,
	SNAPPING 10 FEDERAL #005H	10	. 265	31E	P	BONE SPRING 2ND SAND	6.6	138161.9	44458.5	6280.8	29.7	781.3	0	84470		122	. 0	20	
	SNAPPING 10 FEDERAL #005H	10	265	31E	P.	BONE SPRING 2ND SAND	6.6	138376	44458.5	6280.8	29.7	781.3	0	.84470		122	618	. 20	
	SNAPPING 10 FEDERAL #001H	10	265	31E :	. в	AVALON UPPER:	6.5	199638.8	68948.2	7560.4	111.2	1522.8	2:19	118195	:	732	0	500	
	SNAPPING 11 FEDERAL #001H	11	26S	31E	N.	AVALON UPPER	6.1	225189.8	77010.7	8743.8	636.1	1649.2	6.75			366	0	300	
	SNAPPING 2 STATE #003H	2	265	31E	M	AVALON UPPER	5:1	223019	76001.7	10437.8	209.9	1922.4	4,5			366	632	1100	
	SNAPPING 2 STATE #00GH	2	265	31E	. 0	AVALON UPPER	6.5	179788.5	71575.7	617.4	21.8	109.6	. 0	101374		3660	:0	500	
	SNAPPING12 STATE #006H	2	265	31E	.0	AVALON UPPER	6.5	179938	71575.7	617.4	21.8			101374		3660	844	500	
	SNAPPING 10 FEDERAL #003H	10	265	31E	N	BONE SPRING 2ND SAND	6.5	152439.2	48495.7	6731.3	29.1	801.4	1.06	94055		244	0	100	
	E D WHITE FEDERAL NCT 1 #003	26	265	31E	0 .	DELAWARE	٠.	212112	4	•				132100		195	425		
	SNAPPING 10 FEDERAL #001H	10	26S	31E	В	AVALON UPPER	7.1	209352.4	70089.5	7327	203	1557	2.5	127230		146.4	600	600	
	SNAPPING 11 FEDERAL #001H	11	. 265	31E	N	AVALON UPPER	7	196576.7	68797.3	5059	12	1066	0.9	118943		122	872	380	
	SNAPPING 11 FEDERAL #001H	11	265	31E	N	AVALON UPPER	. 7	203078.9	72261.4	4407	112		1.5	122172		1098	658	80	
	SNAPPING 2 STATE MOOTY	,	265	215	M	AVALONICIDOED	7	163560.1	F7437	2000	42								

Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 Source Water Analysis

	Well Name		1. 1.	Section	Township	p Ran	ge Un	it Field	Formation	Sai	mple Source	TDS Mg/I	Chloride Mg/l	Bicarbonate Mg/I	Sulfate Mg/I
1.					:										
REM	UDA BASIN UNIT #	#001		24	235	29	: · · · · · · · · · · · · · · · · · · ·	REMUDA	DEVONIAN		SWAB	56922	29000	1740	4980

Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 Devonian Water Analysis



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

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

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

POD Number	Sub- Code basin	Count	v 6	. Q I 16	Q 4	Sec	Tws	Rna	X		Depth Well	Depth Water	Water Column
C 02090	С	ED		4	4	01	265	31E	620329	3548533* 🚱	350	335	15
C 03554 POD1	CUB	ED.	2	1	4	01	26\$	31E	620547	3549148	630	300	330
C 03639 POD1	CUB	ED	3	4	2,	01	265	31E	620168	3549279	700	365	335
C 04256 POD1	 CUB	ED	4	4	2	01	265	31E	620384	3549257	666	340	326

Average Depth to Water.

Minimum Depth: 300 feet

Maximum Depth: 365 feet

Record Count: 4

PLSS Search:

Section(s): 1, 2, 11, 12

Mesquite SWD, Inc. Form C-108; Baker SWD No. 1 Office of the State Engineer Fresh Water Well Data

*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.

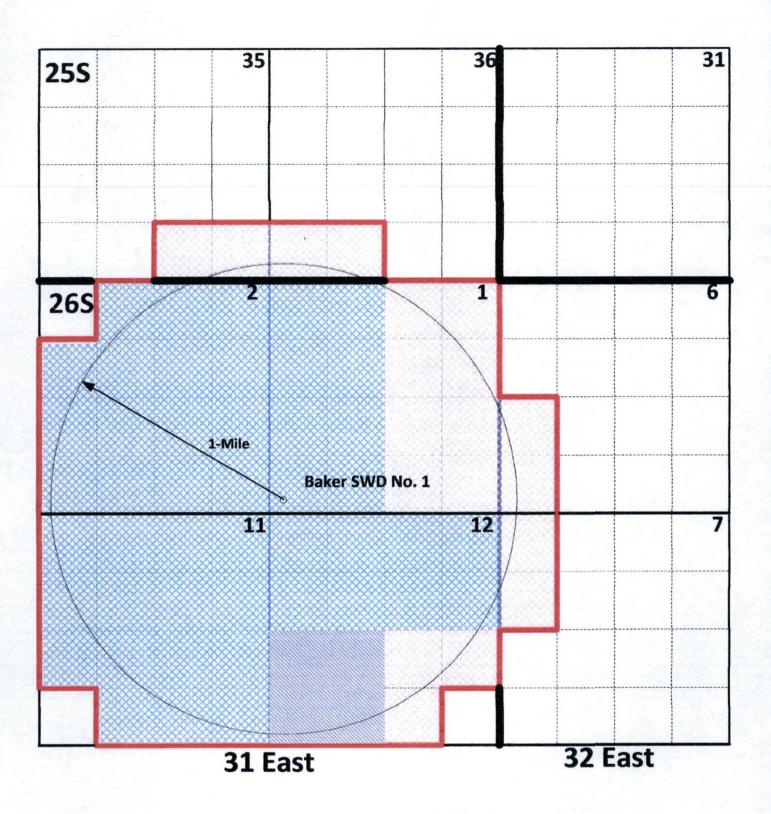
Form C-108
Affirmative Statement
Mesquite SWD, Inc.
Baker SWD No. 1
Section 1, T-26 South, R-31 East, NMPM,
Eddy County, New Mexico

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

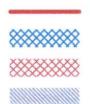
Riley Neatherlin

Operations Manager - Mesquite SWD, Inc.

Date



C-108 Application Mesquite SWD, Inc. Baker SWD Well No. 1 1-Mile Notice Area



1-Mile Notice Area

Tract 1

Tract 2

Tract 3

Form C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 Section 1, T-26 South, R-31 East, NMPM Notice List

Tract 1:

Section 2: E/2, E/2 W/2, SW/4 NW/4 &

W/2 SW/4

Devon Energy Production Co., LP

20 North Broadway

Oklahoma City, OK 73102

Section 11: E/2 W/2:

Devon Energy Production Co., LP

Section 11: E/2, W/2 NW/4 &

NW/4 SW/4

Devon Energy Production Co., LP

XTO Holdings, LLC 810 Houston Street

Fort Worth, Texas 76102

Section 12: N/2:

Devon Energy Production Co., LP

XTO Holdings, LLC

Section 1: W/2:

Devon Energy Production Co., LP

XTO Holdings, LLC

Tract 2:

Section 36: S/2 SW/4:

Mewbourne Oil Company

P.O. Box 5270

Hobbs, New Mexico 88241

Section 35: S/2 SE/4:

Mewbourne Oil Company

Section 12: N/2 SE/4 & SW/4 SE/4:

Mewbourne Oil Company

Section 7: NW/4 NW/4 & SW/4 NW/4:

Mewbourne Oil Company

(Lots 1 & 2)

Section 6: NW/4 SW/4:

Mewbourne Oil Company

(Lot 3)

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

Form C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 Section 1, T-26 South, R-31 East, NMPM Notice List (Page 2)

Section 6: NW/4 SW/4:

(Lot 3) (Cont.)

RBP Land Company Trust
Robert B. Porter Jr., Trustee

P.O. Box 10392

Midland, Texas 79702

Hayes Land, LP P.O. Box 51510

Midland, Texas 79710-1510

Hayes Land & Production, LP

P.O. Box 51407

Midland, Texas 79710

Section 6: SW/4 SW/4:

(Lot 4)

Mewbourne Oil Company

Section 1: NE/4 NE/4:

Mewbourne Oil Company

Section 1: W/2 E/2, NE/4 SE/4 &:

SE/4 NE/4

Mewborne Oil Company

Chevron USA, Inc.

RBP Land Company Trust

Hayes Land, LP

Hayes Land & Production, LP

Section 1: SE/4 SE/4:

Mewbourne Oil Company

Tract 3:

Section 12: SW/4:

EOG Resources, Inc. P.O. Box 2267 Midland, Texas 79706

ConocoPhillips Company 600 N. Dairy Ashford Rd. Office EC3-10-W285 Houston, Texas 77079

Form C-108 Application Mesquite SWD, Inc. Baker SWD No. 1 Section 1, T-26 South, R-31 East, NMPM Notice List (Page 3)

Additional Notice:

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

(Surface Owner):

Jessie T. & Susan Ann Baker P.O. Box 24 Silver City, New Mexico 88062

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

TO: See Attached Notice List

Re: Mesquite SWD, Inc.

Form C-108 (Application for Authorization to Inject)

Baker SWD Well No. 1 API No. (Not Yet Assigned)

330' FSL & 309' FWL, Unit M, Section 1, T-26S, R-31E, NMPM,

Eddy County, New Mexico

Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Mesquite SWD, Inc. Baker SWD No. 1. You are being provided a copy of the application as an offset operator/leaseholder or as the owner of the surface where the proposed well is located. Mesquite SWD, Inc. proposes to drill the Baker SWD No. 1 and utilize the well as a produced water disposal well, injection to occur into the Siluro-Devonian formation through the open-hole interval from approximately 17,300 feet to 18,500 feet.

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

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

Sincerely,

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

Enclosure

Form C-108
Mesquite SWD, Inc.
Baker SWD No. 1
Section 1, T-26 South, R-31 East, NMPM,
Eddy County, New Mexico

The following-described legal advertisement will be published in the:

Artesia Daily Press 503 W. Main Street Artesia, New Mexico 88210-2067

The Affidavit of Publication will be forwarded to the Division upon receipt by Mesquite SWD, Inc.

LEGAL NOTICE

Mesquite SWD, Inc., P.O. Box 1479, Carlsbad, New Mexico 88221-1479, has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to utilize its proposed Baker SWD No. 1 (API No. N/A) to be drilled 330 feet from the South line and 309 feet from the West line (Unit M) of Section 1, Township 26 South, Range 31 East, NMPM, Eddy County, New Mexico and complete the well as a produced water disposal well in the Siluro-Devonian formation. Injection is to occur through the open-hole interval from approximately 17,300 feet to 18,500 feet.

Produced water from the Bone Spring, Wolfcamp and other formations originating from wells in this area will be injected into the Baker SWD No. 1 at average and maximum rates of 30,000 and 40,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 3,460 psi., which is in compliance with Division regulations. The maximum surface injection pressure will be determined by step rate injection test.

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

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