DAT	EN	SUSPENSE	ENGINEER		Туре	APP NO.
			ABOVE	THIS LINE FOR DIVISION USE ONLY		
			EXICO OIL CON - Engineerir South St. Francis Dri	ng Bureau -		
	<u> </u>	ADMIN	ISTRATIVE	APPLICATIO	N CHECK	LIST
	THIS CHECKLI		FOR ALL ADMINISTRATIVE			ON RULES AND REGULATIONS
App	[DHC	n-Standard Loc -Downhole Com PC-Pool Commis [WFX-Wat [SWI]		ease Commingling] Lease Storage] [4 [PMX-Pressure Ma I] [IPI-Injection Po	[PLC-Pool/Lea DLM-Off-Lease M aintenance Expa ressure Increase	se Commingling] easurement] nsion]]
[1]			ON - Check Those V - Spacing Unit - Sim		n	
			for [B] or [C] gling - Storage - Mea C CTB 1		ols 🗌 ol	Μ
	[0		- Disposal - Pressure X 🔲 PMX 🕱			R
	[]	D] Other: Sp	ecify			HOBBSOCD
[2]	NOTIFIC [4	CATION REQU	J IRED TO: - Check king, Royalty or Over	Those Which Apply riding Royalty Inter	, or Does Not A est Owners	^{Apply} JAN 2 6 2015
	. [E	3] 🔀 Offse	et Operators, Leaseho	lders or Surface Ow	ner	RECEIVED
	[C	l] 🔀 Appl	ication is One Which	Requires Published	Legal Notice	
	. [D) 🕅 Notif U.S. Bur	fication and/or Concu reau of Land Management - Com	rrent Approval by B. missioner of Public Lands, Sta	LM or SLO	
	[E] 🔀 Fora	ll of the above, Proof	of Notification or P	ublication is Atta	ched, and/or,
	[F]	🗌 Waiv	ers are Attached			
[3]	SUBMIT A	ACCURATE A	ND COMPLETE II ICATED ABOVE,	NFORMATION RI	EQUIRED TO F	PROCESS THE TYPE

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[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Jimmie Cooper	_ Jonnie	Coope	Owner	1/12/2015
Print or Type Name	Signature	/	Title	Date
			sear o 4 @ leaco	• net

JAN 26 2015

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

APPLICATION FOR AUTHORIZATION TO INJECT

	ATTENCATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: Oasis Water Solutions, LLC
	ADDRESS: P.O. Box 36 Monument, NM 88265
	CONTACT PARTY:PHONE:PH
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?YesNo 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: JAN 2 6 2015
	 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 inferred from existing literature, studies, nearby wells, etc.).
*VIII	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Eddie W. Seav
	SIGNATURE: Coldin W Son DATE: 1)12/2015
	E-MAIL ADDRESS: _seay04@leaco.net
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: logs will be submitted after drilling and completing.

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

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ATTACHMENT TO APPLICATION C-108

Cooper 17 well #1 Unit F, Sect. 17, Tws. 20 S., Rng. 37 E. Lea Co., NM

III. WELL DATA

- A. 1) See injection well data sheets and attached schematics.
 - 2) See injection well data sheets and attached schematics.
 - 3) 4 1/2'' coated tubing.
 - 4) Arrow Stainless Steel Lock Set.
- B. 1) Injection formation is the Lower San Andres
 - 2) Injection interval 4170' to 4900'.
 - 3) This is a new drill for SWD.
 - 4) The next higher producing zone is the Upper SA at approximately 3750'. The next lower producing zone is the Glorieta at approximately 5100'.
- IV. NO.
- V. MAP ATTACHED.

VI. LIST OF WELLS AND DATA ATTACHED.

- VII. Oasis Water Solutions, LLC plans to drill a new well for SWD. Run and circulate (3) three strings of casing with TD at 4900'. With open hole from 4170' to 4900', go in hole with 4 ½" tubing and packer and set at approximately 4100±' within 100 feet of top open hole section. Load hole with packer fluid, run MIT as OCD requires, put on injection.
 - 1) Plan to inject approximately 20,000 bpd of produced water from various sources of production.
 - 2) Closed system, commercial.
 - 3) Average injection pressure should be approximately 800# to 1200# or whatever limit OCD allows.
 - 4) Analysis attached, only produced water.
 - 5) Produced water from various sources..
- VIII. The proposed disposal formation is interbedded shale and limestone. The primary geologic formation is the Lower San Andres from 4170' to 4900'.

The fresh water formation in the area is the Alluviam which ranges in thickness from 20' to 30'. Analysis of water well attached.

IX. ACID AS NEEDED.

X. PREVIOUSLY SUBMITTED TO OCD.

XI. ATTACHED.

XII. I, Eddie W. Seay, have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water pertaining to this well.

XIII. ATTACHED.

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OPERATOR: Dasis Water Soluti	ECTION WELL DATA SHE	ET	•	
WELL NAME & NUMBER:				
WELL LOCATION: 2310 N 2200/W FOOTAGE LOCATION	UNIT LETTER	J7 SECTION	20 TOWNSHIP	37 E RANGE
WELLBORE SCHEMATIC		<u>WELL CO</u> Surface	DNSTRUCTION DAT. Casing	<u>4</u>
PROPOSED WELLBORE SCHEMATIC COMPLETION SCHEMATIC APHULE (30-025- COMPLETION SCHEMATIC FORM DEPTH CPERATOR (OASIS WATER SOLUTIONS LLC LEASENAGE COMPLETION SCHEMATIC VIELINO. BUDIC ULF FSEC. 17 BUDIC BUDIC FSEC. 2200 FWL			Casing Size: 13.	
Rustler 1060 GL 3538 g ain g ain g ain g ain	Cemented with: Top of Cement: SI	200sx. hafdee	or Method Determined	
G 3840' TOC & 0' GASING RECORD SUZE D DEPTH SURF 13.73 SURF 13.75 Grad 170 ass FROD 7 A110 1000 ass SURF 13.75	Hole Size: 17.	Intermediat	Casing Size:	25
Greyburg 3480 BPUD: na San Andrea 3790	Cemented with:	<u>57.</u> sx.	or	f
TO dear	Top of Cement:	Production	Method Determined	<u> </u>
	Hole Size:	15	Casing Size: 7	
	Cemented with: Top of Cement:		or Method Determined	f :f
	Total Depth: 49	0 1	Interval	
PREPARED BY; Eddle Seey UPDATED 12/2014	4178	feet (Perforated on Open H		

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INJECTION WELL DATA SHEET

Tub	ing Size: 42 Lining Material: IPC
Тур	e of Packer: <u>Stainless Steel Arrow set</u>
Pac	ker Setting Depth: Approx 4100 or within 100 ft. of open hole
Oth	er Type of Tubing/Casing Seal (if applicable): NoNE
	Additional Data
1.	Is this a new well drilled for injection?
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: Jower Son Andres
3.	Name of Field or Pool (if applicable): Monument
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
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
۰.	Upper SH at 375D
•	Glorieta at 5100

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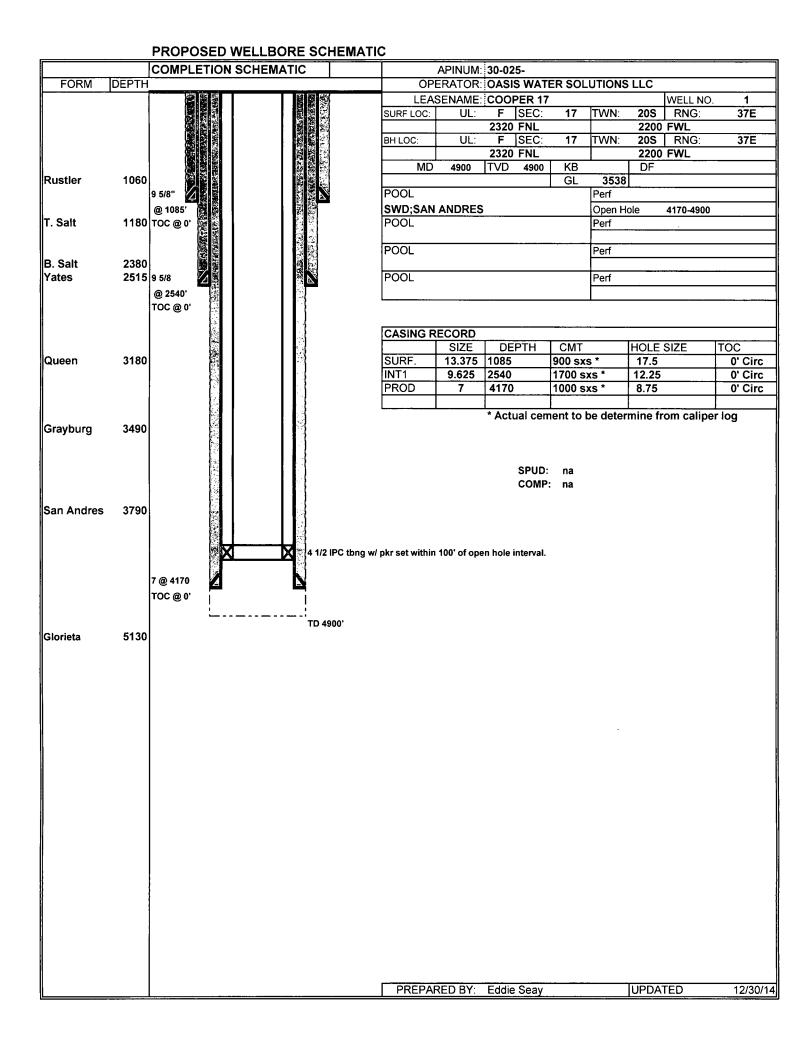
Side 2

DISPOSAL WELL

30-025-	COOPER 17	I OASIS WATER SOLUTIONS LLC	S	P Lea	P 17 2	0 S 37 E	2320 N 2200 W

Wells within 1/2 mile of the proposed disposal well. No wells penatrate the proposed disposal interval.

API #	PROPERTY NAME	#	OPERATOR	TD	TYPE	STAT	со	LAND	U/L	SEC	TWN	RNG	N/S		E/W		Dist
30-025-06140	THEODORE ANDERSON	4	CONOCOPHILLIPS COMPANY	3870	G	А	Lea	Р	В	17	20 S	37 E	660) N	1980	Е	1965
30-025-06139	THEODORE ANDERSON	2	CHEVRON U S A INC	3865	0	Р	Lea	Р	С	17	20 S	37 E	660) N	1980	W	1974
30-025-06138	WULFF STATE	2	ENERVEST OPERATING L.L.C.	3860	G	А	Lea	S	E	17	20 S	37 E	2310) N	990	W	1210
30-025-20100	STATE H 17	1	OIL & GAS OPERATIONS	3800	0	А	Lea	S	Е	17	20 S	37 E	1650) N	330	W	1986
30-025-06141	THEODORE ANDERSON	5	5 GULF OIL CORP	3865	0	Р	Lea	S	F	17	20 S	37 E	1980) N	1980	W	404
30-025-22600	ANDERSON A	9	HESS CORPORATION	3780	G	Р	Lea	Р	F	17	20 S	37 E	1650) N	1980	W	705
30-025-25928	ANDERSON A	9	HESS CORPORATION	3844	G	Р	Lea	S	F	17	20 S	37 E	2310) N	2310	W]110
30-025-33891	THEODORE ANDERSON	11	CONOCOPHILLIPS COMPANY	3500	G	Р	Lea	S	F	17	20 S	37 E	1980) N	2310	W	357
30-025-06144	THEODORE ANDERSON	8	CHEVRON U S A INC	3868	0	Р	Lea	Р	G	17	20 S	37 E	1980) N	1980	E	1105
30-025-06143	THEODORE ANDERSON	7	CONOCOPHILLIPS COMPANY	3868	G	А	Lea	Р	Н	17	20 S	37 E	1980) N	660	E	2396
30-025-06135	STATE Y BATTERY 2		APACHE CORP	3835	G	Р	Lea	S	Ι	17	20 S	37 E	1980) <u>s</u>	660	E	2566
30-025-32992	SKELLY F STATE COM	3	XTO ENERGY, INC	3550	G	А	Lea	S	I	17	20 S	37 E	1980) <u>s</u>	800	Е	2437
30-025-06136	STATE Y BATTERY 2	2	2 APACHE CORP	3854	G	А	Lea	S	J	17	20 S	37 E	1980) S	1980	E	1437
30-025-06145	NEW MEXICO F STATE		APACHE CORP	3860	0	А	Lea	S	К	17	20 S	37 E	1980)s	1987	W	1002
30-025-06147	NEW MEXICO F STATE	3	APACHE CORP	3860	0	Α	Lea	S	L	17	20 S	37 E	1980) S	660	W	1825
30-025-06146	NEW MEXICO F STATE	2	2 APACHE CORP	3855	G	А	Lea	S	N	17	20 S	37 E	660) S	1980	W	2310
30-025-06150	SKELLY F STATE COM	2	2 XTO ENERGY, INC	3878	G	А	Lea	S	0	17	20 S	37 E	660) S	1980	Е	2529



Water Sample Analysis

	:	Location	1 M M M +	ı
Pool	Section	Township	Range	
North Justis Montoya	2	258	37E	45440
North Justis McKee	2 ·	258	37E	58220
North Justis Fusselman	2	25S	37E	68533
North Justis Ellenburger	. 2	258	37E	34151
Fowler Blinebry	22	24\$	37E	118085
Skaggs Grayburg	- 18	208	: 38E	84845
Warren McKee	18	208	38E	85910
Warren Abo	19	205	39E	91600
DK Drinkard	30	205	39E	106855
Littman San Andres	8	218	38E	38895
East Hobbs grayburg	29	185	39E	6461
Halfway Yates	18	20S	32E	14788
Arkansas Junction San Andres	12	185	36E	7171
Pearl Queen	28	198	35E	114310
Midway Abo	17	178	37E	38494
Lovinton Abo	31	165	37E	22933
Lovington San Andres	3	165	37E	4899
Lovington Paddock	31	165	37E	93720
Mesa Queen	17	18S	32E	172530
Kemnitz Wolfcamp	27	188 -	34E	49345
Hume Queen	9	16S	34E	124960
Anderson Ranch Wolfcamp	2	189	32E	11040
Anderson Ranch Devonian	11	165	32E	25702
Anderson Ranch Unit	11	165	32E	23788
Caudill Devonian	9	158	38E	20874
Townsend Wolfcamp	6	18S	38E	38895
Dean Permo Perin	5	165	37E	44730
Dean Devonian	35	15\$	38E -	19525
South Denton Wolfcamp	26	159	37E	54315
South Denton Devonlan	36	158	37E	34080
Medicine Rock Devonian	15	159	38E	39760
Litile Lucký Lake Devonian	29	158	30E	23288
Wantz Abo	26	218	37E	132770
Crosby Devonian	18	258	37E	58220
Scarborough Yates Seven Rivers	7	26S	37E	3443(Reef)
Teague Simpson	34	238	37E	114865
Teague Ellenburger	34	238	37E	120345
Rhodes Yates 7 Rivers	27	26S	37E	144485
House SA	11	205	38E	93385
House Drinkard	12	208	38E	49700
South Leonard Queen	24	265	37E	115375
Elliot Abo	2	218	38E	55380
Scharb Bone Springs	5	195	35E	30601
EK Queen	13	185	34E	41890
East EK Queen	22 .	185	34E	179830
Maljamar Grayburg SA	22	17.9	325	46079
Maljamar Paddock	27	175	328	115375
Maljamar Devonian	22	178	32E	25418
•	-			

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Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242		Project: COOPER SWD FACILITY Project Number: COOPER SWD Project Manager: Eddie Seay Fax To: (505) 392-6949					Reported: 06-Oct-14 13:41				
			JC	: - WW #1	L ·	, ·					
				61-01 (Wa		i					
Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
······································			Cardin	al Laborat	ories						
norganic Compounds					•					·	
Alkalinity, Bicarbonate	464		5.00	mg/L	1	4090813	AP	30-Sep-14	310.1		
lkalinity, Carbonate	ND		0.00	mg/L	1	4090813	AP	30-Sep-14	310.1		
hloride*	920		4.00	mg/L	1	4092905	AP	30-Sep-14	4500-C1-B		
onductivity*	3670		1.00	uS/cm	1	4100104	AP	01-Oct-14	120.1		
H.	7.16		0.100	pH Units	1	4100103	AP	01-Oct-14	150.1		
ulfate*	250		50.0	mg/L	5	4093005	АР	30-Sep-14	375.4		
DS*	2330		5.00	mg/L	1	4091810	AP	30-Sep-14	160.1		
lkalinity, Total*	380		4.00	mg/L	1	4090813	АР	30-Sep-14	310.1		
		G	reen Analy	tical Labo	ratories						
otal Recoverable Metals by ICP(····		·				
alcium*	227		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7		
lagnesium *	88.2		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7		
otassium*	5.39		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7		
odium*	445		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7		
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Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Jubility and Damages, Cardinal's bability and clain's exclusive remarky for any claim artisting, whether based in contract or tort, shall be limited to the encount paid by claint for analyses. All claims, including those for negligance or any other cause whethoever shall be deemed welved unless made in writing and modeled by Cardinal within thitly (20) days shar completion of the applicable service. In the exercised Cardinal be lable for including those for negligance or including, without limitation, business themptions, liess of use, or loss of prolits incurved by claint, its exclusive, affilieble or accessors staing out of or instand to the services merunder by Cardinal, regardless of whether are claims in based upon any of the down stand means or otherwise. Results nicks only to the services merunder by Cardinal, regardless of whether are claims in based upon any of the down stand means or otherwise. Results nicks only to the services

Colory D.Kan

Celey D. Keene, Lab Director/Quality Manager

20 25 12 GRAHAM STACT 0 ERC 23 lf bt HAM ST NCT . 34 **PHAUP**S 9 3 o 31 MATTHEWS BTR 29 IE ST N FT-26 MATTHEWS 125 Ö 20 5 -0--<u>29</u> 29 B PHILLIPS B 0 28 17 WER 6 ΡΗΙĻĹΙΡŞ B 2 VAN ETTEN DERSO λ 。 26 M.B 0 27 ORCUTT NCT D \$9 ST.K.1 13 14 15 Þ BELL NO 20S37 1 NM H ST NCT-3 CT-2 NM H ST NCT-3 Υī С ST NC/1-2 32 74 NM HIST NCT-4 22 23 : Ø H٤ о 37 ° 40 NMH T NCT-2 **4**4 ວ 29 າ EMSU SAT 1 0 36 REEVES 4 25 27 BELL R4 104

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Groundwater Map

OASIS WATER SOLUTIONS, LLC

January 2015

RE: Cooper 17 well #1 Unit F, Sect. 17, T. 20 S., R. 37 E.

Dear Sir:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject into the above captioned well to be drilled.

Any questions about the permit can be directed to Eddie W. Seay, (575)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

Eddie W. Seay, Agent Eddie Seay Consulting 601 W. Illinois Hobbs, NM 88242 (575)392-2236 seay04@leaco.net

NOTICES

LAND OWNER - DEEDED

Jimmie T. Cooper Box 55 Monument, NM 88265

OFFSET AND MINERAL OWNERS

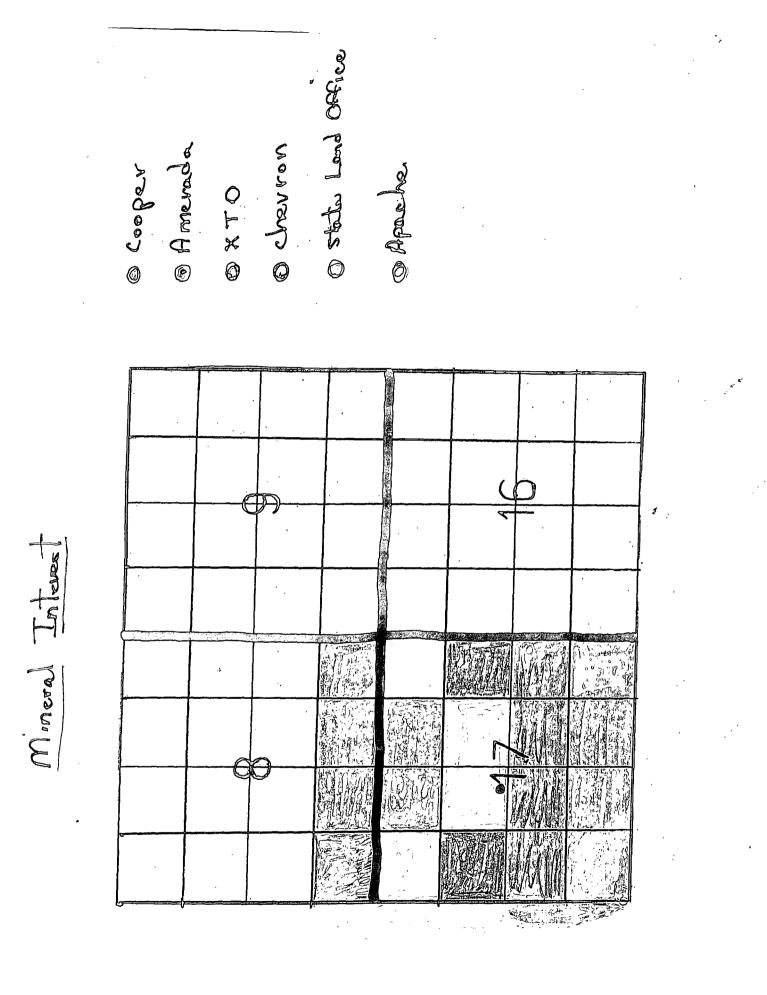
Oxy USA Inc. Box 4294 Houston, TX 77210

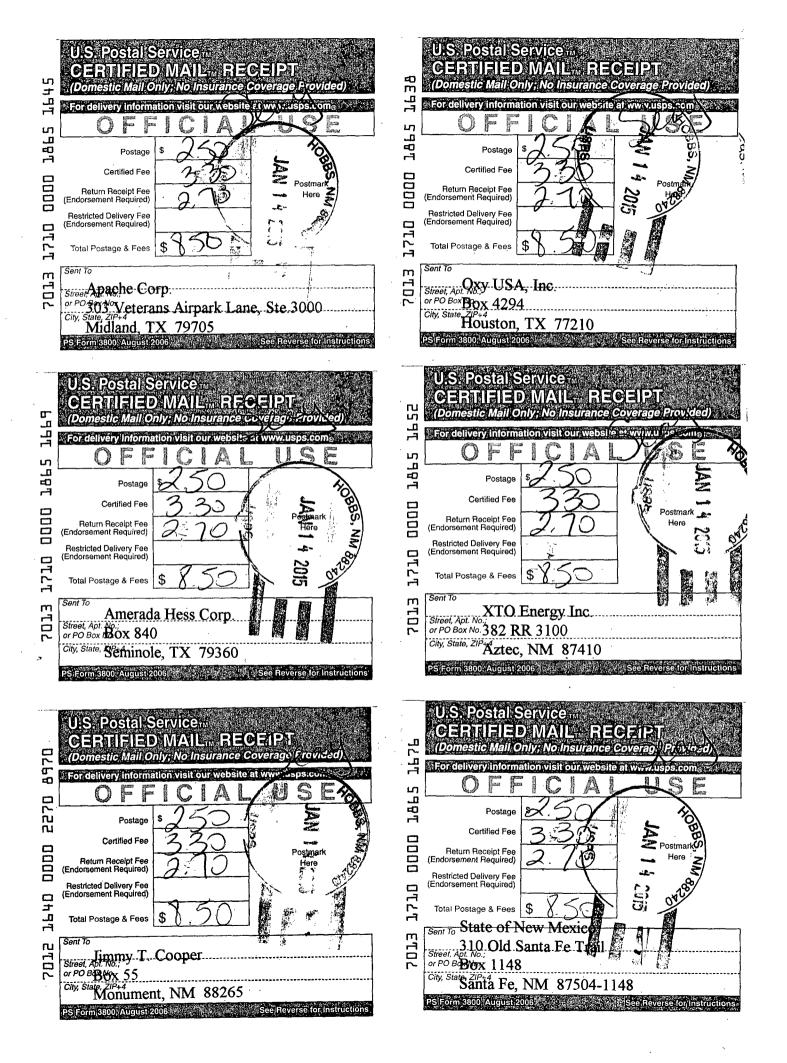
Apache Corp. 303 Veterans Airpark Lane, Ste. 3000 Midland, TX 79705

XTO Energy Inc. 382 RR 3100 Aztec, NM 87410

Amerada Hess Corp. Box 840 Seminole, TX 79360

State of New Mexico 310 Old Santa Fe Trail Box 1148 Santa Fe, NM 87504-1148





LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Oasis Water Solutions, LLC, Box 36, Monument, NM 88265, is filing a C-108 and an APD to drill a new Salt Water Disposal. The well being applied for is the Cooper 17 well #1, located in Unit F, 2310/N 2200/W Section 17, Township 20 South, Range 37 East, Lea Co., NM. The injection formation is the Lower San Andres from 4170' to 4900' below surface. Expected maximum injection rate is 20,000 bpd., and the expected maximum injection pressure is 800 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575)392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505)476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

Affidavit of Publication

STATE OF NEW MEXICO

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COUNTY OF LEA

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Manager of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington. Lea County.

English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of January 15, 2015 and ending with the issue of January 15, 2015.

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And that the cost of publishing said notice is the sum of \$ 27.03 which sum has been (Paid) as Court Costs.

Joyce Clemens, Advertising Manager Subscribed and sworn to before me this 19th day of January , 2015.

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

OFFICIAL SEAL GINA FORT Notary Public State of New Mexico My Comm. Expires <u>6 30 /18</u>

to the rules regulations of the Oil Conservation Division of the State of New Mexico, **Oasis** Water Solutions, LLC, Box 36, Monument, NM 88265, is filing a C-108 and an APD to drill a new Salt Water Disposal The well being applied for Is the Cooper 17 well #1, located in Unit F 2310/N 2220/W Section 17, Township: 20 South Range 37 East, Lea Co... NM. The injection formation is the Lower San Andres from 4170' to 4900' below surface. Expected maximum injection rate is 20,000 bpd., and the expected maximum injection pressure is 800 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575)392-2236, or any objections or request for hearing must be directed to the Oil Conservation Division, (505)476-3440 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) davs. Published in the Lovington Leader January 15, 2015

LEGAL NOTICE