

William F. Carr wcarr@hollandhart.com

June 29, 2010

VIA HAND DELIVERY

Mark E. Fesmire, PE JD
Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe. New Mexico 87505

Case 14568

HECENEU OCU

Re: Application of Endurance Resources, LLC for approval of a salt water disposal

well, Lea County, New Mexico.

Dear Mr. Fesmire:

Enclosed is an original and one copy of the application of Endurance Resources, LLC in the above-referenced case (Oil Conservation Division Form C-108) as well as a copy of a legal advertisement. By copy of this letter, an additional copy of this Form C-108 is being transmitted to the Oil Conservation Division District Office in Hobbs.

Endurance Resources, LLC requests that this matter be placed on the docket for the August 5, 2010 Examiner Hearings.

Very truly yours,

William F. Carr

Ocean Munds-Dry

Attorneys for Endurance Resources, LLC

Enclosures

cc: Oil Conservation Division

District I

1625 North French Drive Hobbs, New Mexico 88240 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

MES	Santa Fe, New Meanto 0/303
	APPLICATION FOR AUTHORIZATION TO INJECT Case 1456
I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
П.	OPERATOR: ENDURANCE RESOURCES LLC
	ADDRESS: P. U BOX 1466, ARTESIA, NM 88211-1466
	CONTACT PARTY: RANDALL HARRIS PHONE:
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 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: RANDAU HARRIS TITLE: GEOLOGIST
	SIGNATURE: DATE: 3/31/18
*	E-MAIL ADDRESS: Tharrismm C Ulahoo.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

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

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

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

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

INJECTION WELL DATA SHEET

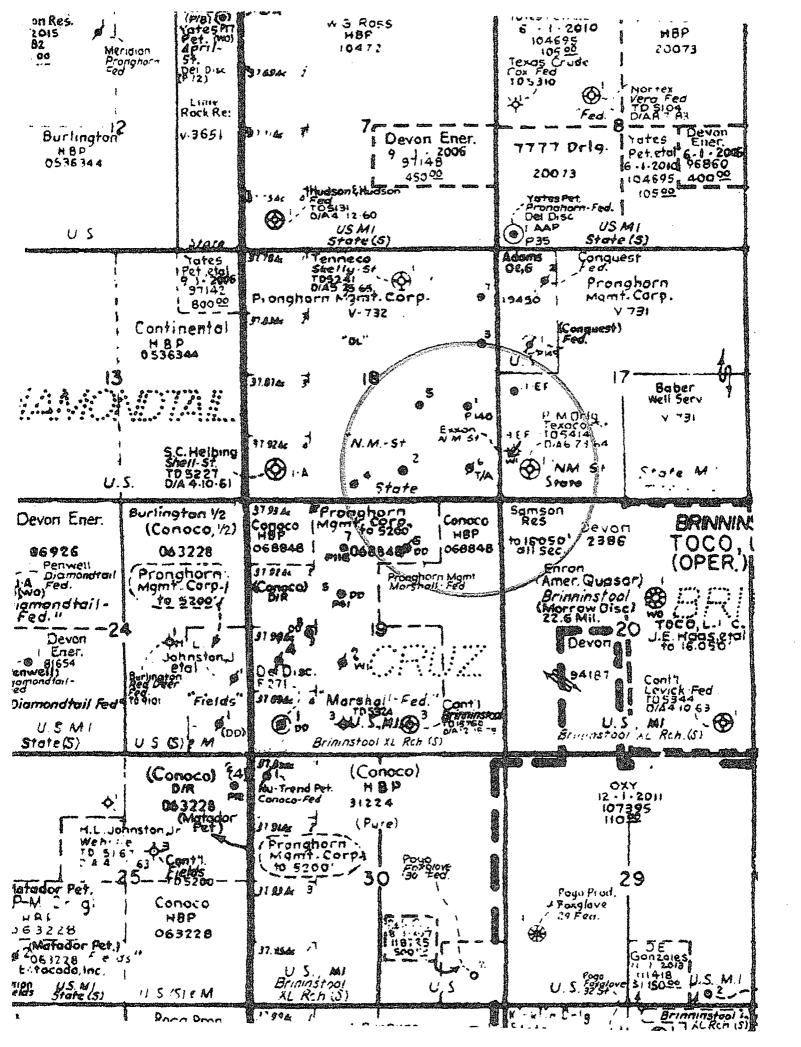
OPERATOR: FNDURANCE RESOURCES	716	
WELL NAME & NUMBER: 02 STATE 46	API 30-025-28659	
WELL LOCATION: 660 FSC & 160 FEL. FOOTAGE LOCATION	VOIT LETTER SECTION TOV	23.5 33.6 TOWNSHIP RANGE
WELLBORE SCHEMATIC	WELL CONSTRUCTION DATA Surface Casing	UCTION DATA
276	Hole Size: 12 1/4 Casing	Casing Size: 8 5%
	Cemented with: 250 sx. or	ft ³
	Top of Cement: Sukface Metho	Method Determined: CIRC
	Intermediate Casing	5
25/2" CSNL	Hole Size:	Casing Size:
	Cemented with:	ft3
	Top of Cement:	Method Determined:
Principal de la companya del companya del companya de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya del companya de la co	Production Casing	24
	Hole Size: 7% Casing	Casing Size: 5 1/2
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Cemented with: 2050 sx. or	f ³
5120-5132 PERES	CE	Method Determined: CIRC
	Total Depth: 5275	
2.7.2.2 Section 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Injection Interval	
	5/20 feet to	5132
	(Perforated or (spartfalle; indicate which)	icate which)

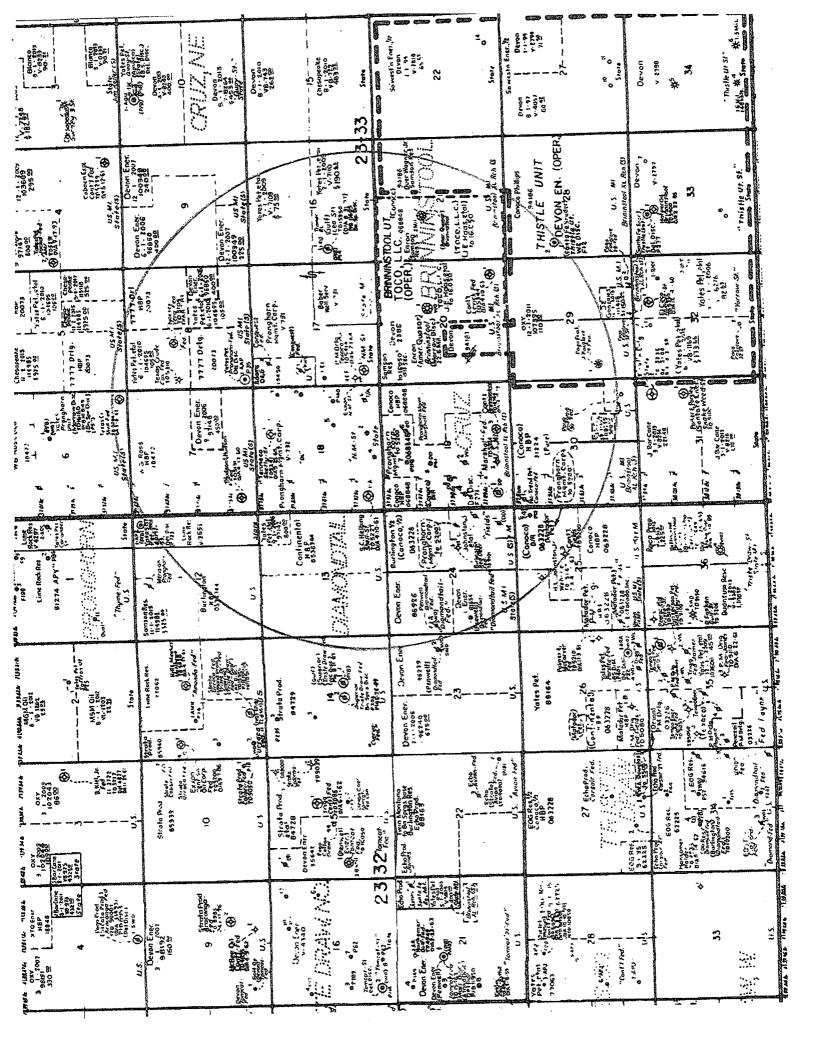
INJECTION WELL DATA SHEET

Hu	Tubing Size: Z //8 Lining Material: //245712
Ty	Type of Packer: Model R
Pa	Packer Setting Depth: 5075
ਠ	Other Type of Tubing/Casing Seal (if applicable):
	Additional Data
 i	1. Is this a new well drilled for injection?
	If no, for what purpose was the well originally drilled? OIL PRODUCTION
7	Name of the Injection Formation: OKLAWARE (RAMSEY SAND)
in.	Name of Field or Pool (if applicable): CRUZ - DELAWARE
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: NO OK OR GAS ZONES GUERLYING
	NO OIL OR GAS IMMEDIATE LINDERLYING

ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.





ATTACHMENT VI

Data on all wells of public record within the area of review. Included are schematics of the plugged wells that penetrated the proposed injection zone within the area of review.

COMPLETION	5091-5136	5118-5192	5116-5158	5090-5124	5110-8310	5110-5144	5142-5156	5156-5208	5100-5126
	Cruz Delaware	Cruz Delaware	Cruz Delaware	Cruz Delaware	Cruz Delaware	Cruz Delaware	Cruz Delaware	Cruz Delaware	Cruz Delaware
	Oil	Oil	Oil	Oil	Oil	Oil	Oil	SWD	Oli
PROD. CASING	5 1/2" @5426' 2250 sxs TOC 1300'	5 1/2" @ 5301 1300 sxs TOC 950'	5 1/2" @ 5251 1800 sxs Circ	5 1/2" @ 5311 1920 sxs TOC 480'	5 1/2" @ 9028 1900 sxs TOC 4000'	5 1/2" @ 5319 2200 sxs Circ	5 1/2" @ 5249 1200 sxs Circ	5 1/2" @ 5404 1450 sxs Circ	5 1/2' @ 5245 300 sxs TOC 3600'
INT.CASING					8 5/8" @ 5076' 1450 sxs Circ			•	
SUR.CASING	8 5/8" @ 669'	8 5/8" @ 632	8 5/8" @ 668'	8 5/8" @ 642'	13 3/8" @ 600'	8 5/8" @ 691'	8 5/8" @ 646'	8 5/8" @ 651	8 5/8" @ 1245'
	550 sxs Circ.	550 sxs Circ.	550 sxs Circ	550 sxs Circ	760 sxs Circ	550 sxs Circ	550 sxs Circ	400 sxs Circ	650 sxs Circ
SPUD DATE	3/11/1984	3/20/1984	4/11/1984	4/2/1984	6/24/1983	3/22/1984	4/23/1984	3/29/1985	11/13/1975
LOCATION	O-Sec 18	H-Sec 18	A-Sec 18	N-Sec 18	I-Sec 18	J-Sec 18	L Sec 17	M-Sec 17	B-Sec 19
	T23S-R33E	T23S-R33E	T23S-R33E	T23S-R33E	T23S-R33E	T23S-R33E	T23S-R33E	T23S-R33E	T23S-R33E
WELL NAME	Endurance	Endurance	Endurance	Endurance	Endurance	Endurance	Endurance	Endurance	Endurance
	DL State #2	DL State #3	DL State #7	DL State #4	DL State #1	DL State #5	EF State #1	EF State #3	Marshall #6

Schematics Attached P&A Wells

P-M Oil Texaco state

M Sec 17 T23S-R33E

1964

25 SX PCULL
25 SX

P-M-OIL CO TEXALO STATE #1 M-17-T 215-R33E

ATTACHMENT VII

- 1) Plan to inject approximately 3,000 bpd of produced water from Endurance own operation on lease.
- 2) System will be closed.
- 3) Average injection pressure should be approximately 400#.
- 4) Source of water is from on lease oil production.

ATTACHMENT VIII

The proposed injection zone is sand of the Delaware formation. In this area the Delaware is approximately 3,500' thick and consists of sand and shales. In the proposed disposal well the Delaware injection interval is the first sand of the Delaware formation known as the Ramsey

There is possible drinking water overlying the injection in the surface sands at a depth of 0-250'. There is no known source underlying the injection interval.

ATTACHMENT IX

Stimulate perforations with approximately 2000 gallons 15% HCL.

ATTACHMENT XI

There are three fresh water well within one mile analysis attached.

33E	d G	33E	· · · · · · · · · · · · · · · · · · ·	33E	da
Range:	Point of Collection:	Range:	roint of Collection:	Range:	Point of Collection:
-103.612 23S SANTA ROSA 3701	SEO	-103,612 23S SANTA ROSA 3701	SEO -103.612	23S SANTA ROSA 3701	SEO
Longitude: Township: Formation: Elevation:	Collector:	Longitude: Township: Formation: Elevation:	Lollector: Longitude:	Township: Formation: Elevation:	Collector:
2796 32.2904 19 TRS 0	Thu Feb 7 00:00:00 MST 1985 Stock 684 28		Stock 736 Stock 736 45 45 32.2904	19 TRS 0	Wed Dec 8 00:00:00 MST 1976 Stock
SID: Latitude: Section: WBF: Depth: Temperature:	Date Collected: Use: Conductivity: Chlorides(mg/L): SID:	Latitude: Section: WBF: Depth: Temperature:	Use: Conductivity: Chlorides(mg/L): SID: Latitude:	Section: WBF: Depth: Temperature:	Date Collected: Use:

. .

1312	52
Conductivity:	Chlorides(mg/L):

-103.612	23S Range: SANTA ROSA	3701	SEO Point of Collection:	
	Township: Formation:	Elevation:	Collector:	,
1862 32,2904	TRS	0	Fri Oct 13 00:00:00 MDT 1995 null	860 87
SID: Latitude:	Section: WBF:	Depth: Temperature:	Date Collected: Use:	Conductivity: Chlorides{mg/L}:

33E

Оb



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

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

		houses, and fourth or house sprant	(quartei	s an	e sr	nai	lest t	o large	est)	(NAD83 UTM	in meters)	eren en eren en eren er	(In feet)	mercurarumana	
P	Sub OD Number basin	Use C	ounty	Q 64	253	a said	Sec	Tws	Rng	X	The Continues of the Asset Asset States	Depth Do Well W	1	66888141666888888	
c	00611	DOM	LE	1	1	3	17	228	27E	573392	3584092*	180			
С	00957	PRO	LE	3	1	4	18	248	26E	563005	3564410*	753	650	103	
С	00963	PRO	LE	3	3	2	30	258	25E	553411	3551895*	447			
С	00988	PRO	LE			4	01	22\$	25E	561503	3586854*	55	20	35	
С	01321	DOM	LE		2	3	29	21\$	27E	573860	3590480*	270	60	210	
С	01399	PRO	LE	3	3	2	15	215	25E	558068	3593839*	200			
C	02216	STK	LE	2	2	4	21	23\$	32E	625035	3573261*	585	400	185	
С	02244	PRO	LE	3	1	2	22	248	28E	587224	3563865*	260			
С	02270	STK	LE		1	2	27	268	33E	636182	3543543*	150	125	25	
С	02271	DOM	LE	3	2	3	21	26\$	32E	624348	3544010*	300	260	40	
C	02273	DOM	LE		1	2	21	268	33E	634549	3545134*	160	120	40	
C	02274	STK	LE	2	1	2	31	268	32E	621742	3541730*	300	295	5	
¢	02275	COM	<u>LE</u>	3	3	2	19	238	33E	630843	3573557*	650	400	250	\int
Ċ	02276	СОМ	LE	3	1	4	19	235	33E	630848	3573154*	650	400	250 -	7
C	02277	COM	LE	2	3	4	20	238	33E	632663	3572970*	550	400	150	
C	02278	COM	LE	3	4	2	28	23\$	335	634484	3571989*	650	400	250	
C	02279	COM	LE	3	4	3	28	23\$	33E	633691	3571173*	650	400	250	
(02280	COM	LE	3	2	4	28	238	338	634489	3571586*	650	400	250	
(0 02281	COM	LE	3	4	4	28	23\$	336	E 6344 9 5	35711831	545	400	145	
(C 02282	STK	LE	3	1	1	25	238	331	E 638098	3572436	* 325	225	100	
4	C 02283	STK	LE	4	2	2	26	238	331	E 637896	3572431	* 325	225	100	
	C 02284	STK	LE	4	2	4	26	238	331	E 637907	3571626	* 325	225	100	
i	C 02285	STK	LE	4	4	4	03	268	331	E 636612	3548675	* 220	180	40	
	C 02286	STK	LE	4	. 4	. 4	03	268	33	E 636612	3548675	* 220	175	45	
	C 02287	STK	LE	4	4	4	03	265	33	E 636612	3548675	* 220	175	45	
	C 02288	STK	LE	4	4	4	03	265	33	E 636612	3548675	* 220	180	40	
!	C 02289	STK	LE	4	4	4	03	268	331	E 636612	3548675	* 200	160	40	
!	C 02290	STK	LE	4	. 4	. 4	03	268	33	E 636612	3548675	* 200	160	40	
	C 02291	STK	LE	1	1	2	06	268	34	E 640825	3550140	* 220	160	60	
MTU*	location was derived from PLSS - se	ee Help													

ATTACHMENT XII

I, Randall L. Harris, have examined all available geologic and engineering data and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are: None. The surface owner is the United States of America, BLM.

PROOF OF PUBLICATION

Proof of publication is attached.

Copies of this application have been sent to:

Oil Conservation Division 1625 N. French DR Hobbs, NM 88240

Affidavit of Publication

State of New Mexico, County of Lea.

I, KENNETH NORRIS
GENERAL MANAGER
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated

March 21, 2010

and ending with the issue dated

March 21, 2010

GENERAL MANAGER

Sworn and subscribed to before me this 24th day of

March, 2010

Notary Public

My commission expires June 16, 2013

(Seal)

OFFICIAL SEAL
LINDA M JONES
NOTARY PUBLIC - STATE OF NEW MEDICO
DISSION Expires:

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

EGAL

LEGAL NOTICE MARCH 21, 2010

Endurance Besources LLC P.O. Box 1466, Artesia, New Mexico 88211 Phone (575) 308-0722 Contact party for Endurance Resources LLC-Opertor is: Randali Harris, is seeking. administrative approval from the New Mexico Oil Conservation Division to utilize a well located 660' FSL & 660' FEL Section 18 Township 23 South, Range 33 East, Lea County, New Mexico known as the New Mexico DL State #6 for water injection. Proposed injection is in the Delaware formation through perforations 5120-5132 feet. Expected maximum injection rate of 1000 bbls per day at 600 psi: interested parties must file objection or requests for hearing with the Oil Conser vation.Division, 1220 Sc. St. Francis Drive, Santa Fe, NM 87505 within 15 days of the

notice.

#25738

67105951 00048949 ENDURANCE RESOURCES/TRITEX PO BOX 1466 ARTESIA, NM 88211-1466 CASE ____

chaplication of Endurance Resources, LLC for approval of a salt water disposal well, Lea County, New Mexico. Applicant seeks approval to utilize its DL State Well No. 6 (API No. 30-025-28659), located 660 feet from the South line and 660 feet from the East line of Section 18, Township 23 South, Range 33 East, NMPM, to inject up to 1000 barrels of water per day, at a maximum pressure of 600 psi, into the Delaware formation (Ramsey Sand), Cruz-Delaware Pool, at an approximate depth of 5120 feet to 5132 feet. This well is located approximately 25 miles southwest of Eunice, New Mexico.

NOTIFICATION LIST

APPLICATION OF ENDURANCE RESOURCES, LLC FOR SALT WATER DISPOSAL LEA COUNTY, NEW MEXICO

DL STATE WELL NO. 6 (API No. 30-025-28659)

Section 18, Township 23 South, Range 33 East

SURFACE OWNERSHIP:

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

MINERAL OWNERSHIP: [½ Mile Radius]

None