

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 14567 Exhibit No. 1
Submitted by:
ENDURANCE RESOURCES, LLC
Hearing Date: November 18, 2010

APPLICATION FOR AUTHORIZATION TO INJECT

PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No

I. OPERATOR: ENDURANCE RESOURCES, LLC

ADDRESS: P.O. Box 1466 ARTESIA, NM 88211

CONTACT PARTY: RANDALL HARRIS PHONE: 505-308-0722

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:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: RANDALL HARRIS TITLE: GEOLOGIST

SIGNATURE: [Signature] DATE: 3/31/10

E-MAIL ADDRESS: rharrisnm@yahoo.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: THIS WAS APPROVED R-7877

GRABIOUS OPERATOR LOST THE AUTHORITY TO INJECT

II. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

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

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

INJECTION WELL DATA SHEET

OPERATOR: ENDURANCE RESOURCES, LLC

WELL NAME & NUMBER: MARSHALL #2 30-025-08359

WELL LOCATION: 1980' EX 1910' FUL

UNIT LETTER K

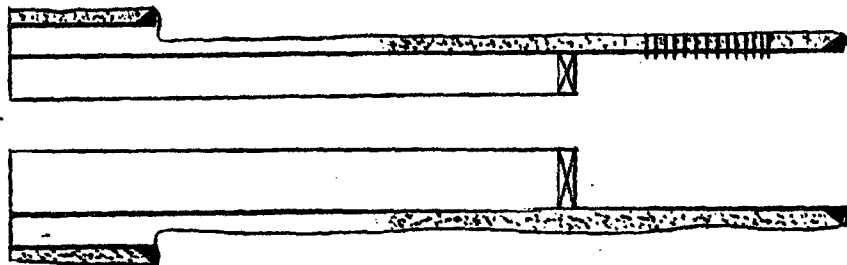
SECTION 19

TOWNSHIP 23S

RANGE 33E

WELLBORE SCHEMATIC

2 3/8" TUBING



380' 7 5/8" Casing

5050' PKR

PERF 5105-5180

5216' 4 1/2" Casing

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: 7 5/8

Cemented with: 200 sx. or _____ ft³

Top of Cement: SURFACE Method Determined: CIRC

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 6 3/4 Casing Size: 4 1/2

Cemented with: 150 sx. or _____ ft³

Top of Cement: 4408 Method Determined: TEMP

Total Depth: 5216

Injection Interval

5105 feet to 5180

(Perforated or ~~Open~~; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8 Lining Material: PLASTICType of Packer: MODEL RPacker Setting Depth: 5050

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data1. Is this a new well drilled for injection? _____ Yes X NoIf no, for what purpose was the well originally drilled? OIL2. Name of the Injection Formation: DELAWARE (RAMSEY SAND)3. Name of Field or Pool (if applicable): CRUZ - DELAWARE4. 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. NO5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: NO OVERLYING OIL OR GAS ZONESNO IMMEDIATE UNDERLYING OIL OR GAS ZONES

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.

nRes.
015
12
00

Meridian
Pronghorn
Fed

(P/A) (C)
Yates Pet. (wo)
4 April-
St.
Del. D. K.
(P 12)

Lilly
Rock Re:

v.3651

W 3 ROSS
HBP
10472

2010
104695
10500
Texas Crude
Cox Fed
105310

HBP
20073

Nortex
Vera Fed
TO 5104
D/A 1-13

Devon Ener.
9 97148
2006
45000

7777 Dr19.
20073

Yates Devon
Pet. etal 6-1-2006
6-1-2010 96860
104695 40000
10500

Hudson, Hudson
Fed
TO 5131
D/A 4-12-60
US MI
State (S)

Yates Pet.
Pronghorn-Fed.
Del Disc
1 AAP
P35
US MI
State (S)

Yates
Pet. etal
9-1-2006
97142
80000

Tenneco
Shelly St
TO 5241
D/A 5-25-65
Pronghorn Mgmt. Corp.
V-732

Adams
06,6
Conquest
Fed.
Pronghorn
Mgmt. Corp.
V 731

Continental
HBP
0536344

U.S. STATE

S.C. Helbing
Shell-St.
TO 5227
D/A 4-10-61

18
N.M.-St
State

17
Baber
Well Serv
V 731

Devon Ener.

Burlington 1/2
(Conoco, 1/2)
063228

37934
Conoco
HBP
068848

Conoco
HBP
068848

Samson
Res
Devon
to 16050' all Sec.

BRINNING
TOCO, (OPER.)

86926
Penwell
Diamondtail
Fed.
(wo)
Diamondtail-
Fed.

Pronghorn
Mgmt. Corp.
to 5200'

37914
Conoco
D/R
Pronghorn Mgmt
Marshall Fed

Enron
(Amer. Quasar)
Brinninstool
(Morrow Disc)
22.6 Mil.
Devon

TOCO, L. C.
J.E. Hoos etal
to 16,050'

Devon
Ener.
81554
Penwell
Diamondtail-
Fed

Johnston
etal
Burlington
Fed Over

37994
Del Disc
F 271

94187

Cont'l
Levick Fed
TO 5344
D/A 4-10-63

U.S. MI
State (S)

U.S. (S) M

37894
Marshall-Fed.
TO 5324
U.S. MI
Brinninstool XL Rch (S)

U.S. MI
Brinninstool AL Rch (S)

(Conoco)
D/R
063228
(Matador)

(Conoco)
HBP
31224
(Pure)

OXY
12-1-2011
107395
11000

M.L. Johnston
White
TO 5167
D/A 4-63

Pronghorn
Mgmt. Corp.
to 5200'

Pogo
Foglove
30 Fed.

Matador Pet.
P.M. C. g.
HBP
063228

Conoco
HBP
063228

Pogo Prod.
Foglove
29 Fed.

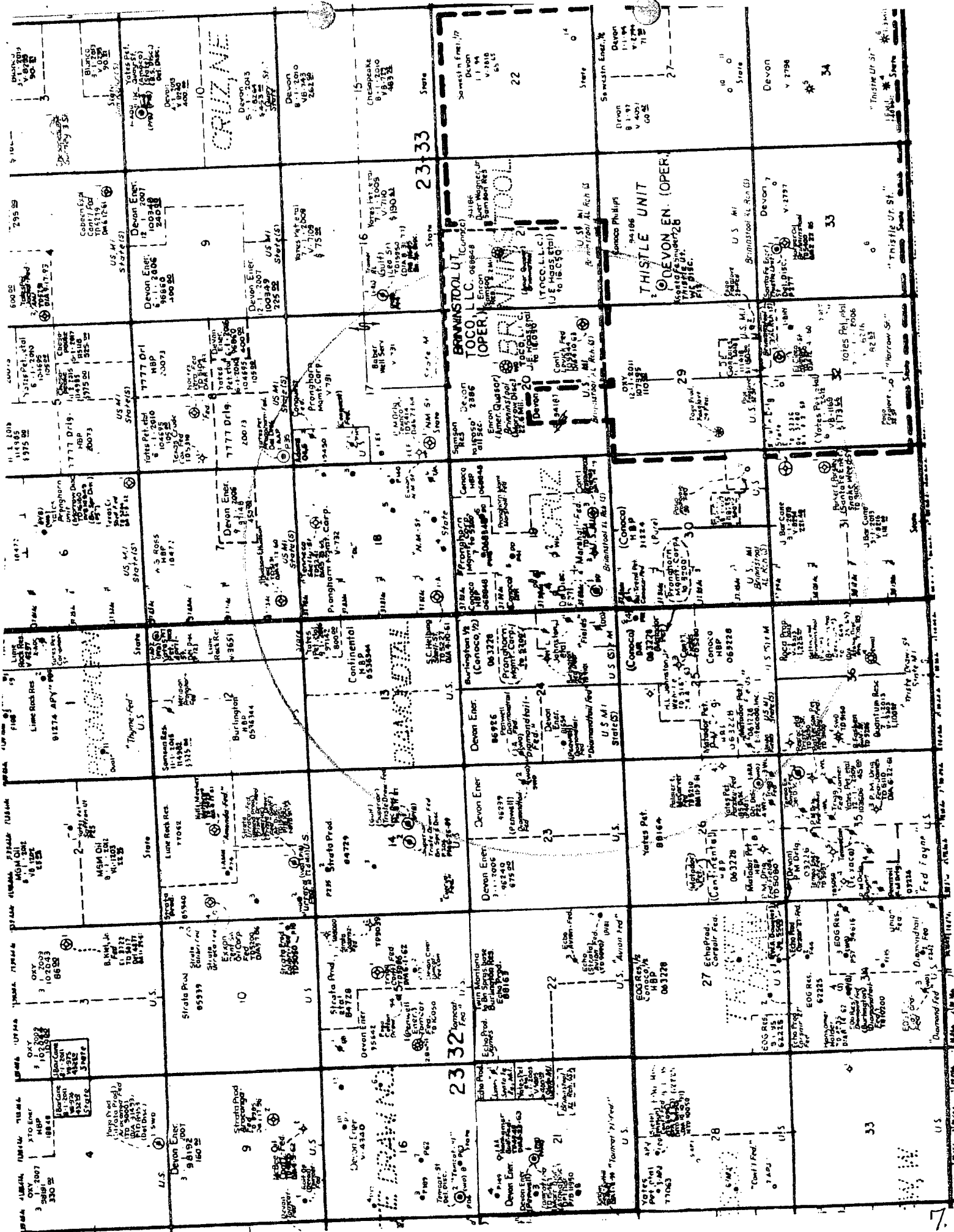
29

Matador Pet.
061228
Foglove, Inc.

U.S. MI
Brinninstool
XL Rch (S)

U.S. MI
Brinninstool XL Rch (S)

U.S. MI
Brinninstool XL Rch (S)



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.

WELL NAME	LOCATION	SPUD DATE	SUR.CASING	INT.CASING	PROD. CASING	COMPLETION
Endurance Marshall #5	F-Sec 19 T23S-R33E	4/15/1975	8 5/8" @ 527' 260 sxs Circ.		5 1/2" @ 5180' 300 sxs TOC 2500'	5090-5126 Cruz Delaware Oil
Endurance Marshall #7	C-Sec 19 T23S-R33E	12/26/1975	8 5/8" @ 1287' 700 sxs Circ.		5 1/2" @ 5235 300 sxs TOC 3200'	5104-5123 Cruz Delaware Oil
Endurance Marshall #8	L-Sec 19 T23S-R33E	9/17/1977	8 5/8" @ 1223' 545 sxs		5 1/2" @ 5247 1200 sxs Circ	5078-5108 Cruz Delaware Oil
Endurance Marshall #1	M-Sec 18 T23S-R33E	9/5/1961	8 5/8" @ 372' 200 sxs		4 1/2" @ 5252 150 sxs TOC 4500'	5095-5099 Cruz Delaware Oil

P&A Wells Schematics Attached

H.L. Johnston Fields Fed #1	I-Sec 24 T23S-R32E	4/15/1963	
Continental Marshall #4	L-Sec 19 T23S-R33E	12/26/1961	
Conoco Brinninstool Unit #3	O-Sec 19 T23S-R33E	3/31/1979	
Continental Marshall #3	N-Sec 19 T23S-R33E	11/30/1961	

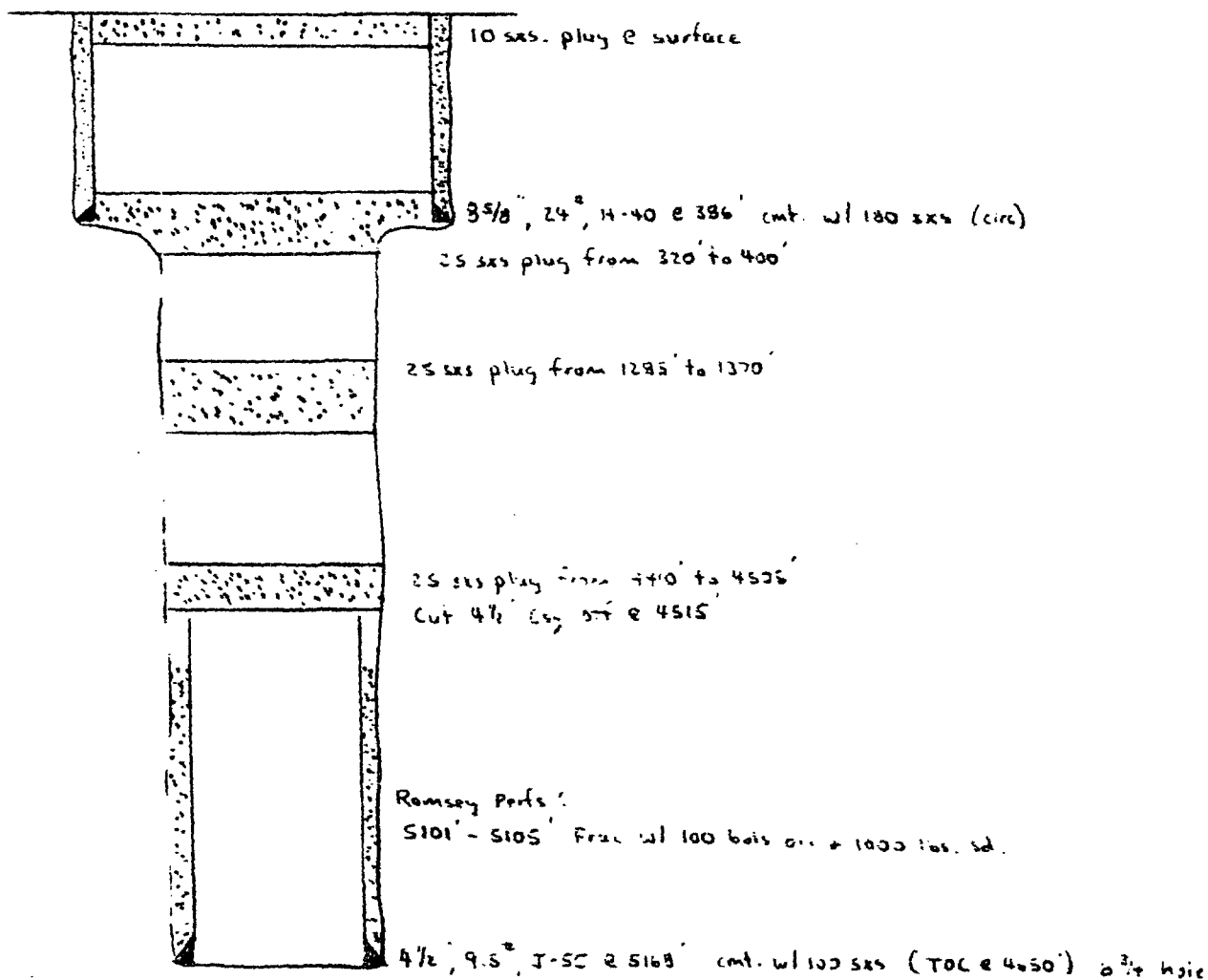
WELL NAME : Fields Federal No. 1

Elev: 3719'

Location : 1650 FSL + 330 FEL

XB: _____

Sec 24 T23S, R32E



WELL NAME : Prigunastual Unit No. 3

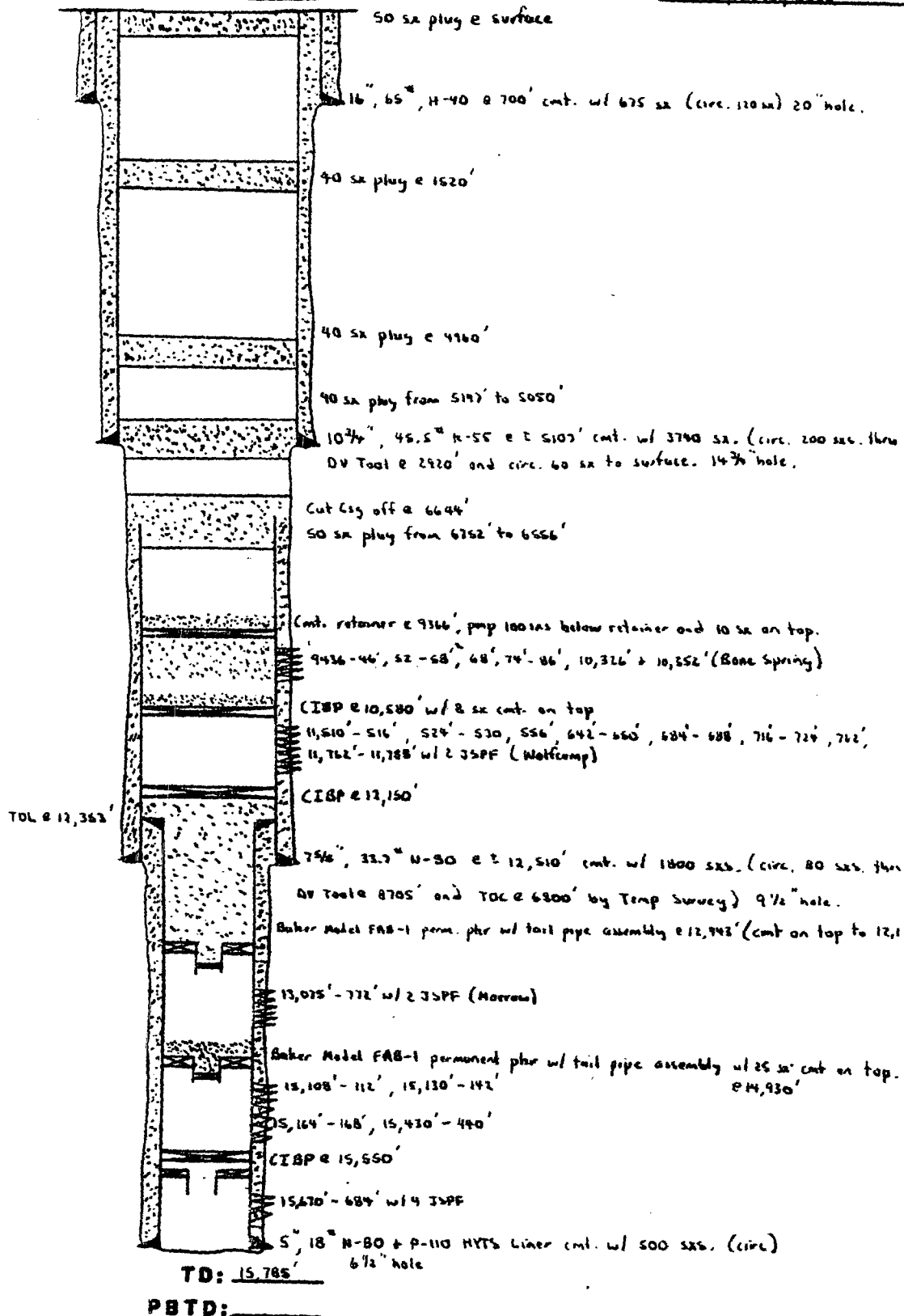
Current Status: Plugged & Abandoned

Elev. : 3497' AGL

Location : 640 FSL + 1980 FEL

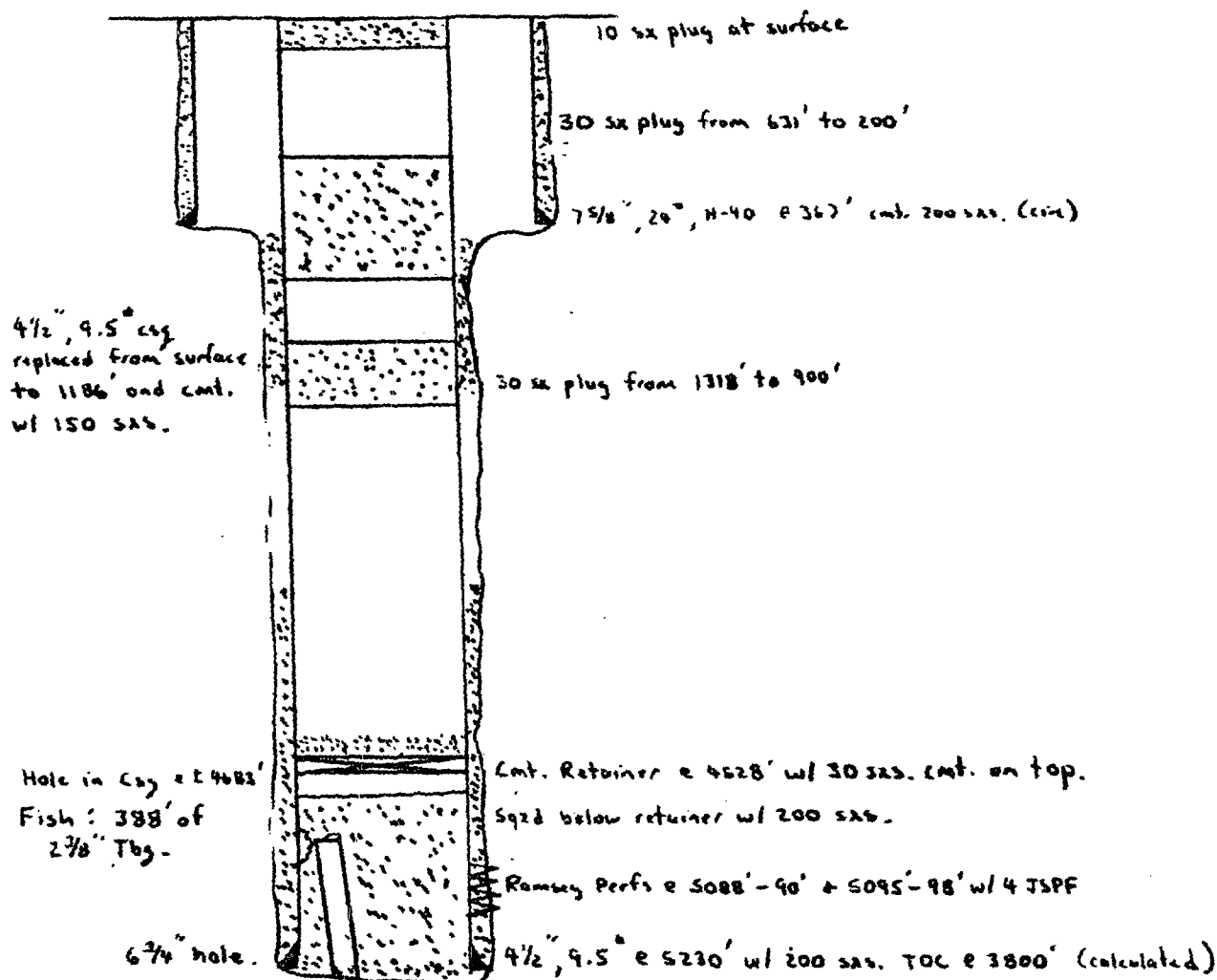
KB: 20' AGL

Sec 19, T23S, R23E



WELL NAME : Marshall No. 4

Plugged + Abandoned

Elev: 370' GLLocation : 1980 FSL & 625' FWLKB: 13' AGLSection 19, T23N, R33E

WELL NAME : Marshall No. 3

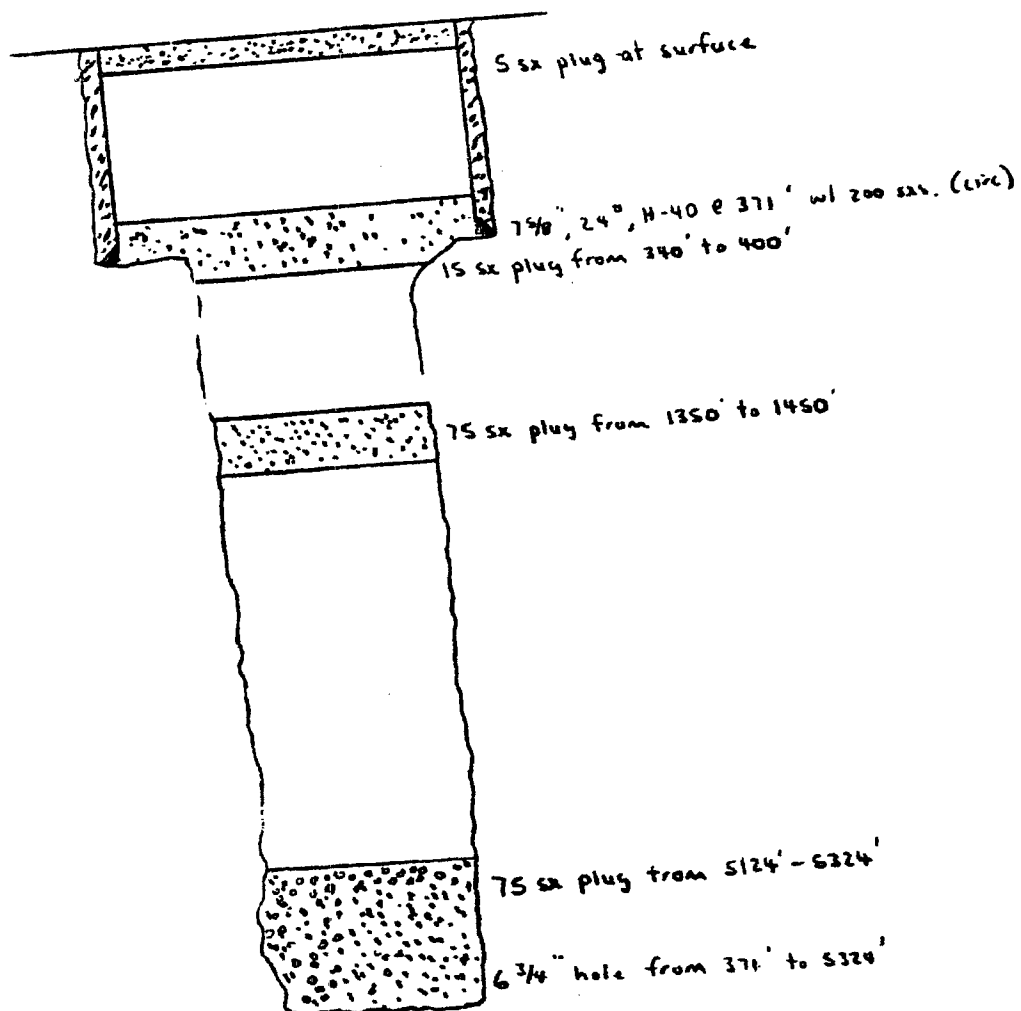
Plugged + Abandoned

Elev: 3698' GL

KB: 12' AGL

Location : 660 FSL + 1910 FWL

Section 19, T23S, 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 0-400'. There is no known source underlying the injection interval.

ATTACHMENT IX

Stimulate perforations with approximately 2000 gallons 15% HCL.

ATTACHMENT XI

There three fresh water wells within one mile location and analysis attached.

SID: 2796
Latitude: 32.2904 Longitude: -103.612
Section: 19 Township: 23S Range: 33E
WBF: TRS Formation: SANTA ROSA
Depth: 0 Elevation: 3701
Temperature: 0
Date Collected: Thu Feb 7 00:00:00 MST 1985 DP
Use: Stock
Conductivity: 684
Chlorides(mg/L): 28

SID: 1952
Latitude: 32.2904 Longitude: -103.612
Section: 19 Township: 23S Range: 33E
WBF: TRS Formation: SANTA ROSA
Depth: 0 Elevation: 3701
Temperature: 0
Date Collected: Tue Aug 21 00:00:00 MDT 1990 DP
Use: Stock
Conductivity: 736
Chlorides(mg/L): 45

SID: 2483
Latitude: 32.2904 Longitude: -103.612
Section: 19 Township: 23S Range: 33E
WBF: TRS Formation: SANTA ROSA
Depth: 0 Elevation: 3701
Temperature: 72
Date Collected: Wed Dec 8 00:00:00 MST 1976 DP
Use: Stock

Conductivity: 1312
Chlorides(mg/L): 52

SID: 1862
Latitude: 32.2904
Section: 19
WBF: TRS
Depth: 0
Temperature: 72
Date Collected: Fri Oct 13 00:00:00 MDT 1995
Use: null
Conductivity: 860
Chlorides(mg/L): 87

Longitude: -103.612
Township: 23S
Formation: SANTA ROSA
Elevation: 3701
Range: 33E
Point of Collection: DP
Collector: SEO



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(In feet)

POD Number	Sub	basin	Use	County	Q	Q	Q	64	16	4	Sec	Tws	Rng	X	Y	Depth	Depth	Water	Water
																Well	Water	Column	Column
C 00611	DOM	LE			1	1	3	17	22S	27E				573392	3584092*	180			
C 00957	PRO	LE			3	1	4	18	24S	26E				563005	3564410*	753	650	103	
C 00963	PRO	LE			3	3	2	30	25S	25E				553411	3551895*	447			
C 00988	PRO	LE				4	01	22S	25E					561503	3586854*	55	20	35	
C 01321	DOM	LE			2	3	29	21S	27E					573860	3590480*	270	60	210	
C 01399	PRO	LE			3	3	2	15	21S	25E				558068	3593839*	200			
C 02216	STK	LE			2	2	4	21	23S	32E				625035	3573261*	585	400	185	
C 02244	PRO	LE			3	1	2	22	24S	28E				587224	3563865*	260			
C 02270	STK	LE			1	2	27	26S	33E					636182	3543543*	150	125	25	
C 02271	DOM	LE			3	2	3	21	26S	32E				624348	3544010*	300	260	40	
C 02273	DOM	LE			1	2	21	26S	33E					634549	3545134*	160	120	40	
C 02274	STK	LE			2	1	2	31	26S	32E				621742	3541730*	300	295	5	
C 02275	COM	LE			3	3	2	19	23S	33E				630843	3573557*	650	400	250	
C 02276	COM	LE			3	1	4	19	23S	33E				630848	3573154*	650	400	250	
C 02277	COM	LE			2	3	4	20	23S	33E				632663	3572970*	550	400	150	
C 02278	COM	LE			3	4	2	28	23S	33E				634484	3571989*	650	400	250	
C 02279	COM	LE			3	4	3	28	23S	33E				633691	3571173*	650	400	250	
C 02280	COM	LE			3	2	4	28	23S	33E				634489	3571586*	650	400	250	
C 02281	COM	LE			3	4	4	28	23S	33E				634495	3571183*	545	400	145	
C 02282	STK	LE			3	1	1	25	23S	33E				638098	3572436*	325	225	100	
C 02283	STK	LE			4	2	2	26	23S	33E				637896	3572431*	325	225	100	
C 02284	STK	LE			4	2	4	26	23S	33E				637907	3571626*	325	225	100	
C 02285	STK	LE			4	4	4	03	26S	33E				636612	3548675*	220	180	40	
C 02286	STK	LE			4	4	4	03	26S	33E				636612	3548675*	220	175	45	
C 02287	STK	LE			4	4	4	03	26S	33E				636612	3548675*	220	175	45	
C 02288	STK	LE			4	4	4	03	26S	33E				636612	3548675*	220	180	40	
C 02289	STK	LE			4	4	4	03	26S	33E				636612	3548675*	200	160	40	
C 02290	STK	LE			4	4	4	03	26S	33E				636612	3548675*	200	160	40	
C 02291	STK	LE			1	1	2	06	26S	34E				640825	3550140*	220	160	60	

*UTM location was derived from PLSS - see 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

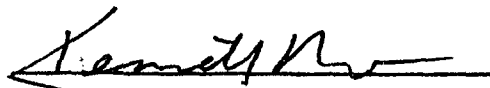
Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

Affidavit of Publication

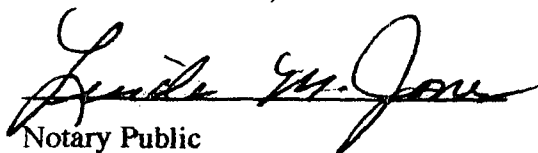
State of New Mexico,
County of Lea.

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)



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

LEGAL NOTICE:
MARCH 21, 2010
Endurance Resources, LLC
P.O. Box 1466, Artesia,
New Mexico 88211 Phone
(575) 308-0722; Contact
party for Endurance
Resources, LLC Operator is
Randall Harris, is seeking
administrative approval from
the New Mexico Oil
Conservation Division to
utilize a well located 1980'
FSL & 1910' FWL Section
19 Township 29 South
Range 31 East, Lea County,
New Mexico known as the
Marshall #2 for water
injection. Proposed
injection is in the Delaware
formation through perfora-
tions 5108-5109 feet.
Expected maximum
injection rate of 1000 bbls
per day at 800 psi.
Interested parties must file
objection or requests for
hearing with the Oil Conser-
vation Division, 1220 So. St.
Francis Drive, Santa Fe, NM
87505 within 15 days of this
notice.
#25739

67105951 00048952
ENDURANCE RESOURCES/TRITEX
PO BOX 1466
ARTESIA, NM 88211-1466

CASE _____: **Application of Endurance Resources, LLC for approval of a salt water disposal well, Lea County, New Mexico.** Applicant seeks approval to utilize its Marshall Well No. 2 (API No. 30-025-08359), located 1980 feet from the South line and 1910 feet from the West line of Section 19, 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 5105 feet to 5180 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**

MARSHALL WELL NO. 2

(API No. 30-025-08359)

Section 19, 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