

DATE IN 5.23.12 SUSPENSE ENGINEER WUT LOGGED IN 5.23.12 TYPE SWD APP NO. 178843777 PT6W1214434587

*7/2/12*

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



*LRE Operating*  
*281994*

*Eddy Humble "State SWD"*

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR

- [D] Other: Specify \_\_\_\_\_

*Case 14863*

*J-4-185-28E*

*PROTECTED BY*  
*Water 6/12/12*  
*1341 psi*  
*WITH DRAWN*  
*after*  
*MODIFICATIONS*

[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or  Does Not Apply**

- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[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.

David Sibley  
 Print or Type Name

Signature

*David Sibley*

Production Engineer  
 Title

Date

5-17-2012

dsibley@limerockresources.com  
 E-Mail Address

Case 14863

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: LRE Operating, LLC (OGRID-281994)  
ADDRESS: 1111 Bagby Street, Suite 4600 Houston, Texas 77002  
CONTACT PARTY: David Sibley, Production Engineer PHONE: (713) 345-2134
- 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  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: David Sibley TITLE: Production Engineer  
SIGNATURE: David Sibley DATE: 5-17-2012  
E-MAIL ADDRESS: dsibley@limerockresources.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 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.**

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**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.

C-108 Application  
LRE Operating, LLC  
Eddy-Humble "4" State SWD #1  
2310' FSL & 1650' FEL (Unit J)  
Section 4, T-18S, R-28E, NMPM  
Eddy County, New Mexico

- I. The purpose of the application is to request approval to drill the Eddy-Humble "4" State SWD #1 and complete it as a produced water disposal well in the Abo, Wolfcamp and Cisco formations.
- II. LRE Operating, LLC ("LRE")  
1111 Bagby Street, Suite 4600  
Houston, Texas 77002  
Contact Party: David Sibley, Production Engineer-(713) 345-2134
- III. Injection well data sheet is attached. In addition, attached is a schematic well diagram showing the proposed wellbore configuration. LRE proposes to drill this well setting 13 3/8" casing at 250' cemented to surface, 9 5/8" casing at 2,800' cemented to surface, 7" casing at ~~6,805'~~ <sup>6,700'</sup> cemented to 2,800', and complete the well for injection through the perforated interval from 6,705 feet to ~~6,805~~ <sup>6,570</sup> feet and ~~open hole~~ <sup>Liner</sup> interval from ~~6,805~~ <sup>6,570</sup> feet to 9,300 feet.
- IV. This is not an expansion of an existing project.
- V. A map showing all wells/leases within a 2-mile radius of the Eddy-Humble "4" State SWD #1 is attached. Also attached is a more detailed map showing the 1/2-mile Area of Review ("AOR") for the Eddy-Humble "4" State SWD #1.
- VI. Within the area of review, there are numerous producing and plugged and abandoned wells that produce or have produced from shallow horizons (i.e. Queen, Grayburg, San Andres, Glorieta, Yeso, etc.). There is only one active producing well that penetrates the proposed injection interval. The Mewbourne Oil Company Scoggin Draw "4" State Com No. 1 is constructed adequately to preclude the migration of fluid from the proposed injection interval. There are also no plugged wells within the AOR that penetrate the proposed injection interval.
- VII.
  1. The average injection rate is anticipated to be approximately 10,000 BWPD. The maximum rate will be approximately 20,000 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
  2. This will be a closed system.
  3. The injection pressure will initially be in conformance with the Division assigned gradient of 0.2 psi/ft. or 1341 psi. If a higher injection pressure is necessary, LRE will conduct a step rate injection test to determine the fracture pressure of the injection interval.
  4. Produced water from the Glorieta, San Andres, Grayburg, Queen and Yeso formations originating from wells in the area of the disposal well will be injected into the Eddy-Humble "4" State SWD #1. Attached are produced water analysis from the Glorieta-Yeso formation originating from LRE's Enron State, Kersey, Staley State A

6700  
1

1341

and Staley State wells, and a produced water analysis from the Queen-Grayburg-San Andres formation originating from LRE's Jeffery 1 and 36 State wells.

5. Injection is to occur into the Abo, Wolfcamp and Cisco formations. Division records show that the following producing pools are located in the area of the Eddy-Humble "4" State SWD No. 1: i) the Empire-Abo Pool is located approximately 0.2 of a mile from the Eddy-Humble "4" State SWD No. 1; ii) the Empire-Wolfcamp Pool is located approximately 0.75 of a mile from the Eddy-Humble "4" State SWD No. 1; and iii) the Illinois Camp-Cisco Gas Pool is located approximately 0.5 of a mile from the Eddy-Humble "4" State SWD No. 1 (See attached pool maps).

- VIII. The proposed injection interval lies between depths of 6,705 feet and <sup>9,500</sup>~~9,300~~ feet and includes the Permian age lower Abo and Wolfcamp formations and the Pennsylvanian age Cisco formation. These formations serve as common disposal zones for this area of the Delaware Basin. Within the AOR, the interval consists of interbedded crystalline dolomites, limestones, and shales with the dolomites making up approximately 40 percent of the interval and generally providing for the better injection capacity. Their porosities range from 6% to 14% and average approximately 9%. The limestones are less porous but do offer some additional injection capacity with porosities ranging from 4% to 10%. In this area, fresh water occurs down to a depth of approximately 150 feet. No known fresh water sources underlie the injection interval.
- IX. Proposed to acid stimulate the injection interval as needed.
- X. Logs will be filed when the well is drilled.
- XI. According to the State Engineer, there are no fresh water wells located within one mile of the Eddy-Humble "4" State SWD No. 1.





**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
1301 W. Grand Avenue, Artesia, NM 88210  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 15, 2009  
Submit one copy to appropriate  
District Office  
 AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name	
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>EDDY-HUMBLE "4" STATE SWD</b>			<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>281994</b>		<sup>8</sup> Operator Name <b>LRE OPERATING, LLC</b>			<sup>9</sup> Elevation <b>3664.7</b>

<sup>10</sup> Surface Location

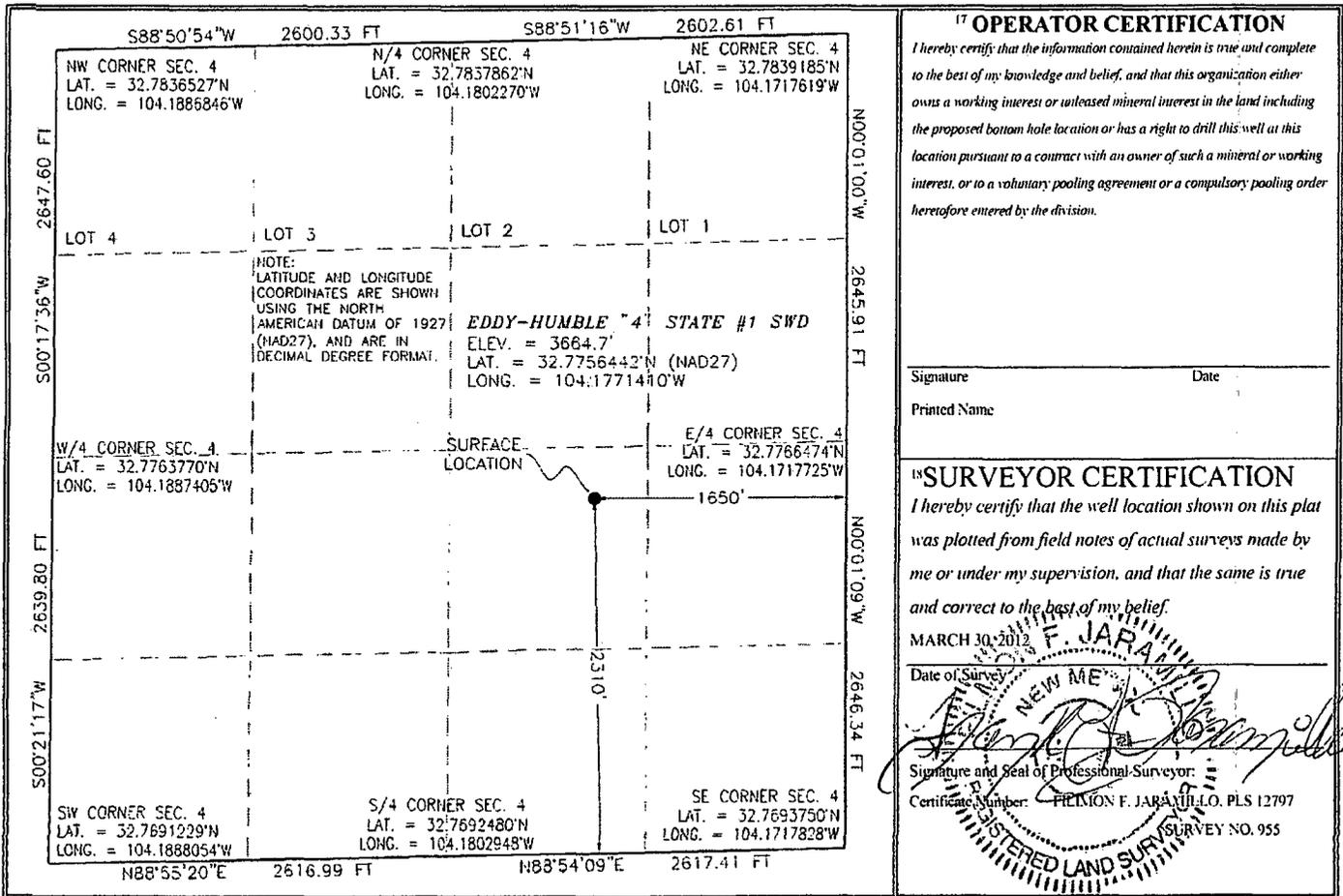
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>J</b>	<b>4</b>	<b>18 S</b>	<b>28 E</b>		<b>2310</b>	<b>SOUTH</b>	<b>1650</b>	<b>EAST</b>	<b>EDDY</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

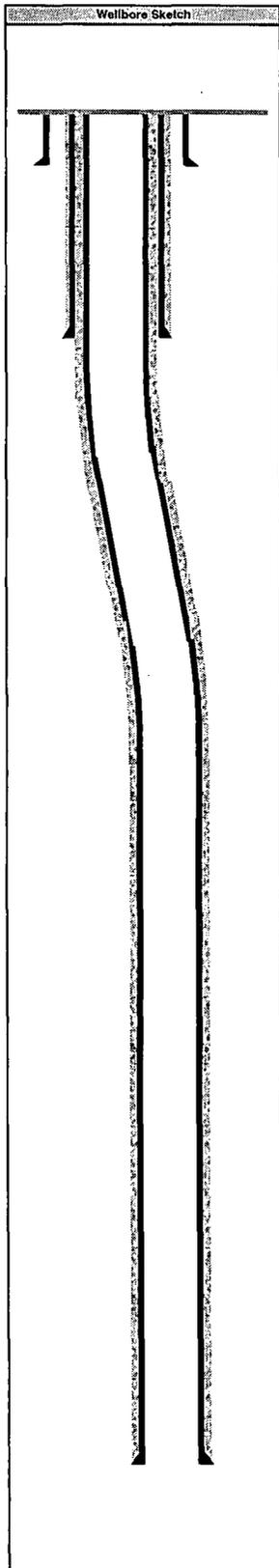
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



<b>LIME ROCK RESOURCES</b>	County	EDDY	Well Name	JEFFERS 32 STATE #2	Field	RED LAKE	Well Sketch:	PLAN			
	Surface Lat:	32° 47' 16.32365"	BH Lat:	32° 47' 17.18851"	Survey:	Sec. 32 T17S-R28E	API #	30-015-37045			
	Surface Long:	104° 11' 45.57400"	BH Long:	104° 11' 46.81089"		1563' FSL & 2207' FEL	OGRID #	255333			
<b>Directional Data:</b>			<b>Tubular Data:</b>				<b>Wellhead Data:</b>				
KOP	500'		Tubulars	Size	Weight	Grade	Thread	TVD	MD	TOC	
Max Dev.:	5.3°		Conductor	14"	60#	DRIVE	8RD	40'	40'	-	
Dleg sev.:	2.5°		Surface	8 5/8"	24#	J-55	STC	470'	470'	SURF	
Dev @ Perfs	0.0°		Intermediate								
Ret to Vert:	2107'		Production Liner	5 1/2"	17#	J-55	LTC	5,200'	5,200'	SURF	
<b>Drilling / Completion Fluid:</b>			<b>CEMENT DATA</b>				<b>Wellhead Data:</b>				
Drilling Fluid:			U/sks	Yld	Wt	T/sks	Yld	Wt	XS	Type:	
Drilling Fluid:			Surface	300	1.32	14.8				100%	WP:
Completion Fluid:			Intermediate								Tree Cap
Completion Fluid:			Liner								Flange:
Packer Fluid:			Production	450	1.45	13.2	550	1.32	14.8	100%	Thread:
											Tbg Hanger:
											STM Flange:
											BPV Profile:
											Elevations:
											3,667'
											RKB-GL:
											DF - GL:



Drilling Information							MUD PROPERTIES		LOGGING PROGRAM
DEPTHS (TVD)	HOLE SIZE - BITS - BHA	WELL PATH		FORMATION TOPS / WELL INFO		Mud type			
		INC	AZI						
0'		0.0°	0.0°			Fresh			
40'	12 1/4"				CONDUCTOR	MW	8.4 - 9.2		
						pH	9.0 - 10.5		
						WL	N/C		
						VIS	28-34 @ csg pt.		
382'					YATES				
470'	7 7/8"				SURFACE CASING				
500'		0.0°	0.0°		KOP, BUIL D 2.5'/100'	Brine		TC w/ SGR	
614'					SEVEN RIVERS	MW	9.8 - 10.2	DLL	
734'		4.9°	313.6°		DRILL TANGENT @ 5.85°	pH	10.0 - 12	MSFL	
						WL	N/C	SDL	
						VIS	28-29	DSN	
1,184'		5.0°	297.9°		QUEEN			CSN	
1,626'		6.7°	313.4°		GRAYBURG				
1,814'		6.5°	317.2°		START DROP, -2.0'/100'				
1,902'		4.6°	305.9°		PREMIER				
1,956'		4.6°	305.9°		SAN ANDRES				
2,107'		2.8°	303.3°		END DROP, VERTICAL				
2,263'		0.4°	103.6°		MSA				
2,862'		0.7°	178.9°		LSA				
3,360'					GLORIETTA				
3,618'					YESO				
5,020'					TUBB	Br, Gel, Strch			
5,200'		0.0°	0.0°		TD	MW	9.8-10.2		
						pH	10.0 - 12		
						WL	20-30 cc		
						VIS	30-32 cc		

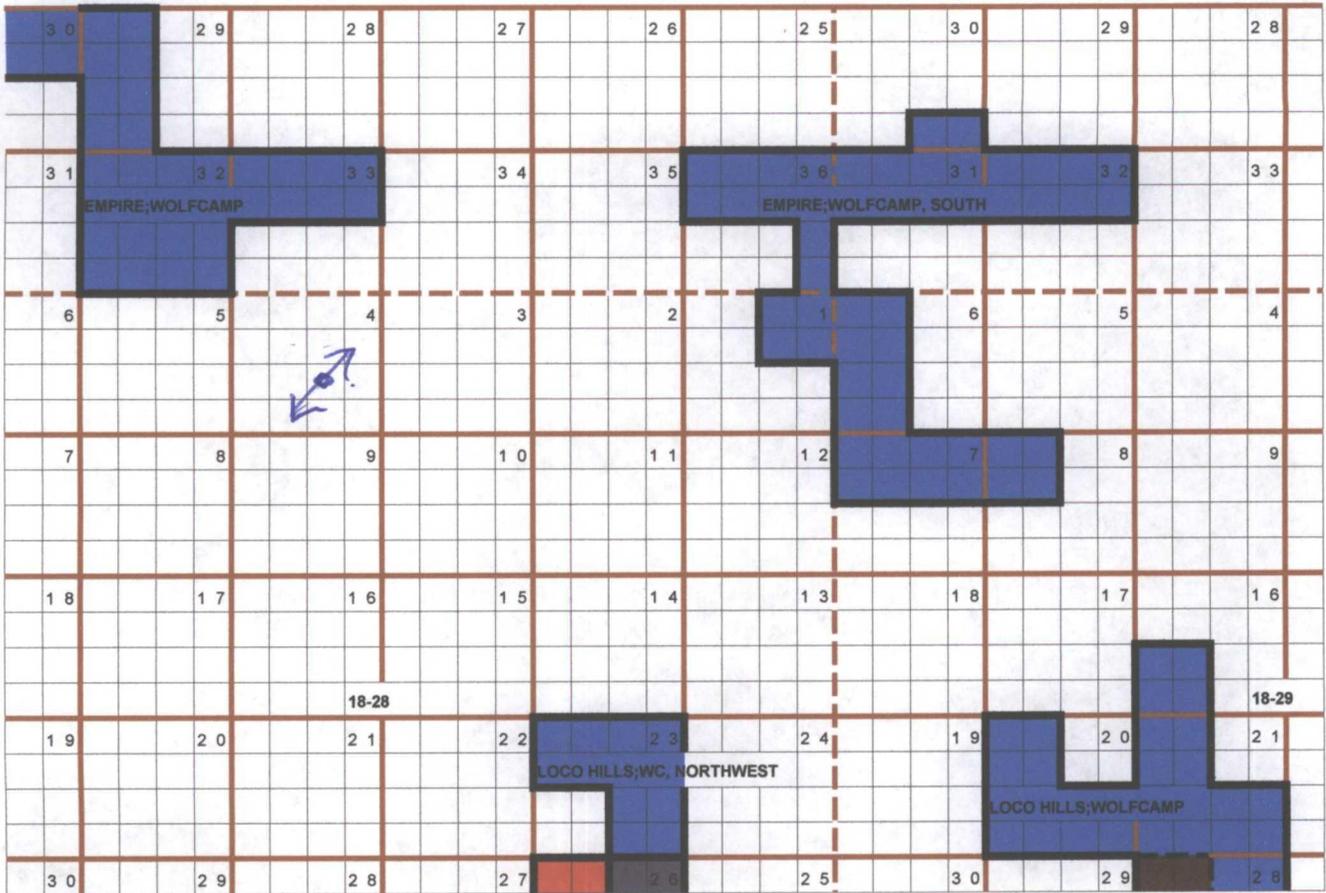
Comments: Directions: 12 miles E of Artesia on Hwy 82, turn S on CR 206 (Illinois Camp rd) 0.7 miles, turn E on CR 228 (Arco Rd) 0.4 miles, turn N to location.

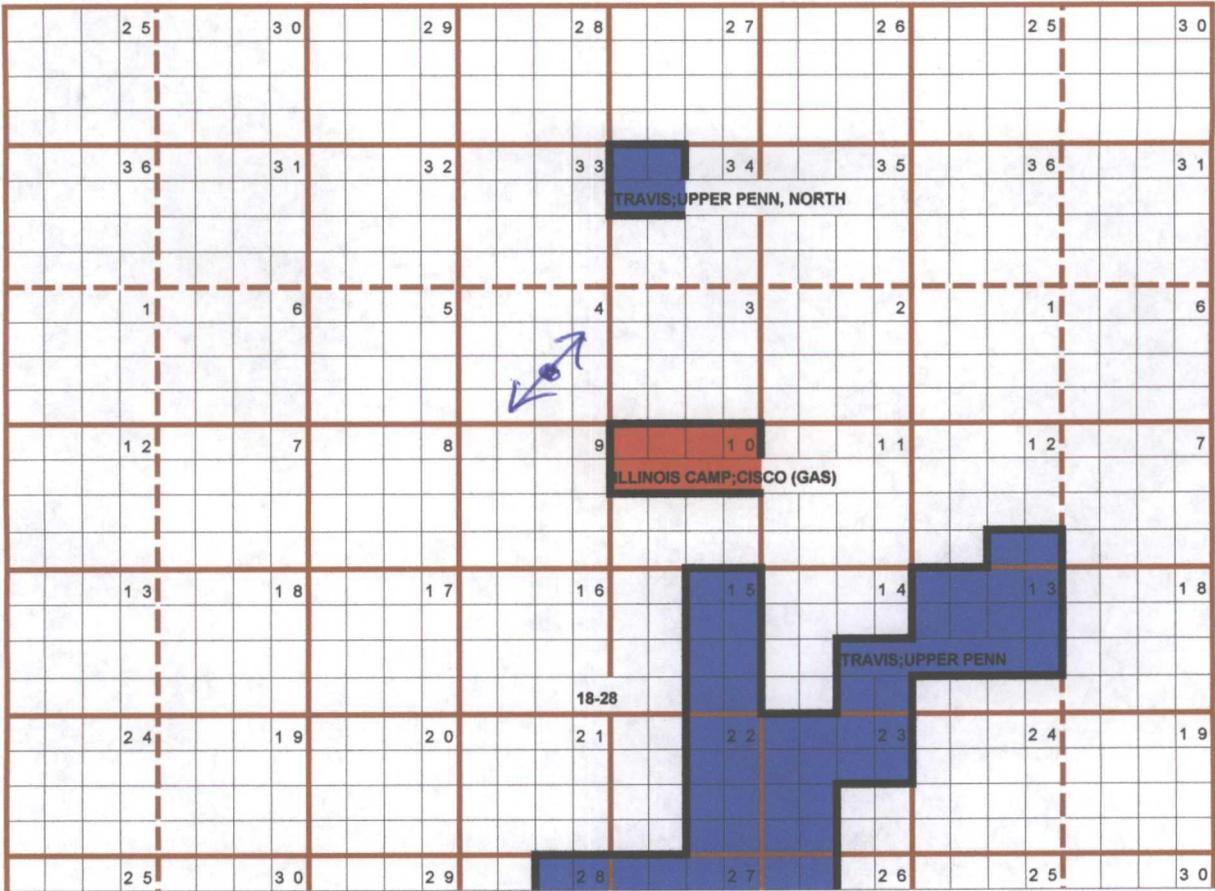
Plug back Depth: 5,200'

Total Well Depth: 5,200'

Prepared By: R. GHISELIN Date: 28-Jun-10









MACK ENER (OP)

SDX RES

ARTESIA UNIT 36

MELROSE (OPER)

CHESAPEAKE (OP)

WEST ARTESIA ORBG UNIT  
DORAL ENER (OPER)

TRAVIS PENN UNIT  
HEAVES (OPER)

BALLARD UNIT

18 28

COWTOWN UNIT 24

EMPIRE SIDE

ARR

OREV

STAGE

INDEX

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**LRE OPERATING, LLC**  
**AREA OF REVIEW WELL DATA**  
**EDDY-HUMBLE "4" STATE SWD NO. 1**

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP	RNG.	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMP.	REMARKS	
30-015-02558	Alamo Permian Resources, LLC	Smith State	1	P	Active	860'	N	660'	E	A	4	18S	28E		2,307'														Artesia Queen-Grayburg-San Andres	
30-015-25403	Alamo Permian Resources, LLC	State AE	2	P	Active	2295'	N	2211'	W	F	4	18S	28E		3,630'														Artesia Queen-Grayburg-San Andres	
30-015-25402	Alamo Permian Resources, LLC	State AE	1	P	Active	1650'	N	2310'	E	G	4	18S	28E		3,530'														Artesia Queen-Grayburg-San Andres	
30-015-02560	Sunray Oil	Pre-Ongard	1	N/A	PA	1570'	S	1070'	E	I	4	18S	28E		2,419'															
30-015-02590	Granidge Corp.	Humble Stout St.	1	N/A	PA	2310'	S	330'	E	I	4	18S	28E		2526'															
30-015-02555	Granidge Corp.	Eddy-Humble St.	1	N/A	PA	2310'	S	2283'	E	J	4	18S	28E		2,450'															
30-015-02564	Frontier Petroleum Co.	McQuigg St.	4	N/A	PA	1550'	S	2088'	E	J	4	18S	28E		2,371'															
30-015-02551	Frontier Petroleum Co.	McQuigg St.	11	N/A	PA	2399'	S	1660'	W	K	4	18S	28E		2,297'															
30-015-02562	Granidge Corp.	Cowell State	1	N/A	PA	1572'	S	1549'	W	K	4	18S	28E		2,338'															
30-015-02563	American Petrofina	Cowell State	2	N/A	PA	1570'	S	2105'	W	K	4	18S	28E		502'															
30-015-06118	Frontier Petroleum Co.	McQuigg St.	10	N/A	PA	2397'	S	2082'	W	K	4	18S	28E		2,311'															
30-015-02588	Danciger Oil & Refining	Kaseman State	3	N/A	PA	2390'	S	1059'	W	L	4	18S	28E		2,293'															
30-015-02576	American Petrofina	Levers State	8	N/A	PA	1075'	S	1587'	W	N	4	18S	28E		2,353'															
30-015-02578	Granidge Corp.	Levers State	10	N/A	PA	1061'	S	2271'	W	N	4	18S	28E		2,380'															
30-015-28923	Mewbourne Oil Co.	Scoggin Draw 4 St.	2	N/A	N/A	990'	S	1650'	W	N	4	18S	28E		Cancelled APD															
30-015-02566	Sandlott Energy	Levers State	13	P	Active	992'	S	2287'	E	O	4	18S	28E		2,495'														Artesia Queen-Grayburg-San Andres	
30-015-02573	Granidge Corp.	Levers State	5	N/A	PA	1082'	S	1582'	E	O	4	18S	28E		2,418'															
30-015-02577	Granidge Corp.	Levers State	9	N/A	PA	257'	S	1581'	E	O	4	18S	28E		4,035'															
30-015-28688	Mewbourne Oil Co.	Scoggin Draw 4 St.	1	P	Active	2310'	S	660'	W	O	4	18S	28E	Nov-97	10,470'	17 1/2"	13 3/8"	423'	345	Surface	Circ.	12 1/4"	9 5/8"	2,650'	1050	Surface	Circ.	10,286'-96'	N. Illinois Camp Morrow Gas Pool	
*5 1/2" casing stage cemented. 1st Stage-840 ex. 2nd Stage-950 Sx. Well file does not show depth of DV Tool.																8 3/4"	5 1/2"	10,470'	1790	3,922*	Calc.	9,830'-40'	Empire-Peag Gas Pool							
30-015-02580	Quantum Resources Mgt. LLC	Levers State	1	P	Active	990'	S	990'	E	P	4	18S	28E		2,344'														Artesia Queen-Grayburg-San Andres	
30-015-02581	Quantum Resources Mgt. LLC	Levers State	2	P	Active	330'	S	990'	E	P	4	18S	28E		2,402'														Artesia Queen-Grayburg-San Andres	
30-015-02582	Quantum Resources Mgt. LLC	Levers State	3	P	Active	250'	S	250'	E	P	4	18S	28E		2,400'														Artesia Queen-Grayburg-San Andres	
30-015-02583	Quantum Resources Mgt. LLC	Levers State	4	P	Active	1070'	S	250'	E	P	4	18S	28E		2,417'														Artesia Queen-Grayburg-San Andres	
30-015-01790	Quantum Resources Mgt. LLC	Artesia Unit	43	P	Active	1980'	N	250'	W	E	3	18S	28E		2,366'														Artesia Queen-Grayburg-San Andres	
30-015-01793	Flynn-Welch-Yates	State 647	41	NA	PA	1570'	S	250'	W	L	3	18S	28E		2,428'															
30-015-01791	Quantum Resources Mgt. LLC	Artesia Unit	58	P	Active	1070'	S	250'	W	M	3	18S	28E		2,445'														Artesia Queen-Grayburg-San Andres	
30-015-02668	Fruit Valley Development Co.	Schram State	1	NA	PA	250'	N	1070'	E	A	9	18S	28E		2,400'															

P



RECEIVED OCD

June 21, 2012

2012 JUN 25 P 2: 41

Mr. William Jones  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Dear Mr. Jones,

It is requested that the NMOCD ask Mewbourne Oil Co to provide the setting depth of the DV tool for the following well:

**Scoggins Draw 4 State Comm #1**

**N2, NW SW Section 4, T18S, R28E**

**API # 30-015-29688**

The requested information is unavailable on the NMOCD website and must have been an oversight in the original completion paperwork submission.

Thanks you for your assistance with this matter.

Best Regards,

David Sibley  
Production Engineer  
713-345-2134 office  
[dsibley@limerockresources.com](mailto:dsibley@limerockresources.com)

THIS well was later  
Determined to BE  
OUT of THE AOR.

WVS  
7/2/12

cc: Mr. Daniel Sanchez

# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

### SAMPLE

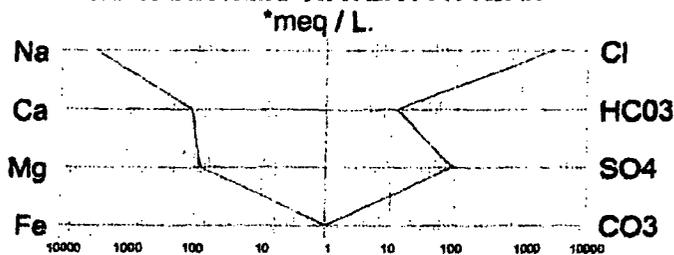
Co. : LimeRock Resources  
 Lease : Enron  
 Well No.: ST  
 Location:  
 Attention:

Date Sampled : 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.001-9  
 Salesperson :  
 File Name : Jul2810.001

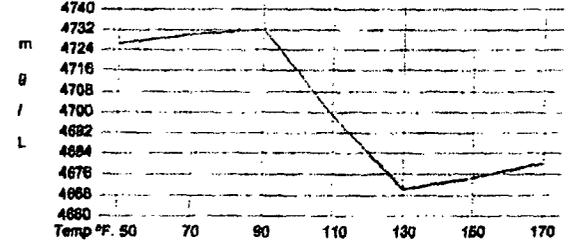
### ANALYSIS

1. Ph		5.600		
2. Specific Gravity 60/60 F.		1.138		
3. CaCO3 Saturation Index	@ 80F	-0.530	Negligible	
	@140F	0.410	Mild	
<b>Dissolved Gasses</b>		<b>MG/L.</b>	<b>EQ. WT.</b>	<b>*MEQ/L</b>
4. Hydrogen Sulfide		100		
5. Carbon Dioxide		80		
6. Dissolved Oxygen		Not Determined		
<b>Cations</b>				
7. Calcium (Ca++)		2,166	/ 20.1 =	107.76
8. Magnesium (Mg++)		971	/ 12.2 =	79.59
9. Sodium (Na+)	(Calculated)	65,383	/ 23.0 =	2,842.74
10. Barium (Ba++)		Not Determined		
<b>Anions</b>				
11. Hydroxyl (OH-)		0	/ 17.0 =	0.00
12. Carbonate (CO3=)		0	/ 30.0 =	0.00
13. Bicarbonate (HCO3-)		714	/ 61.1 =	11.69
14. Sulfate (SO4=)		4,200	/ 48.8 =	86.07
15. Chloride (Cl-)		103,977	/ 35.5 =	2,928.93
16. Total Dissolved Solids		177,411		
17. Total Iron (Fe)		1.50	/ 18.2 =	0.08
18. Manganese (Mn++)		Not Determined		
19. Total Hardness as CaCO3		9,408		
20. Resistivity @ 75 F. (Calculated)			0.017 Ohm · meters	

### LOGARITHMIC WATER PATTERN



### Calcium Sulfate Solubility Profile



### PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	11.69		81.04		947
CaSO4	86.07		68.07		5,858
CaCl2	10.01		55.50		556
Mg(HCO3)2	0.00		73.17		0
MgSO4	0.00		60.19		0
MgCl2	79.59		47.62		3,790
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	2,839.33		58.46		165,987

\* milliequivalents per Liter

Tony Abernathy, Analyst



# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

### SAMPLE

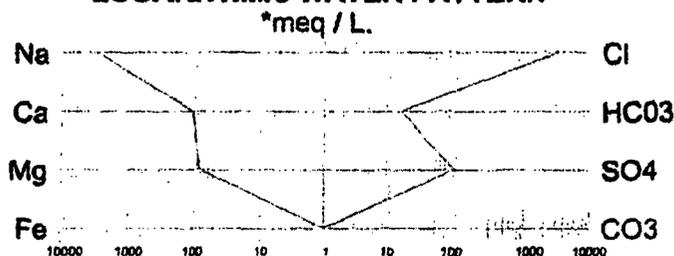
Co. : LimeRock Resources  
 Lease : Jeffery 36  
 Well No.: ST  
 Location:  
 Attention:

Date Sampled : 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.001-7  
 Salesperson :  
 File Name : Jul2810.001

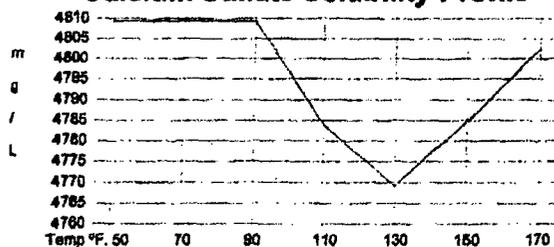
### ANALYSIS

1.	Ph		5.600	
2.	Specific Gravity 60/60 F.		1.143	
3.	CACO3 Saturation Index			
		@ 80F	-0.400	Negligible
		@140F	0.590	Mild
<b><u>Dissolved Gasses</u></b>				
			<u>MG/L.</u>	<u>EQ. WT.</u>
4.	Hydrogen Sulfide		30	<u>*MEQ/L</u>
5.	Carbon Dioxide		100	
6.	Dissolved Oxygen		Not Determined	
<b><u>Cations</u></b>				
7.	Calcium (Ca++)		2,072	/ 20.1 = 103.08
8.	Magnesium (Mg++)		971	/ 12.2 = 79.59
9.	Sodium (Na+) (Calculated)		69,530	/ 23.0 = 3,023.04
10.	Barium (Ba++)		Not Determined	
<b><u>Anions</u></b>				
11.	Hydroxyl (OH-)		0	/ 17.0 = 0.00
12.	Carbonate (CO3=)		0	/ 30.0 = 0.00
13.	Bicarbonate (HCO3-)		857	/ 61.1 = 14.03
14.	Sulfate (SO4=)		4,400	/ 48.8 = 90.16
5.	Chloride (Cl-)		109,975	/ 35.5 = 3,097.89
16.	Total Dissolved Solids		187,805	
17.	Total Iron (Fe)		1.00	/ 18.2 = 0.05
18.	Manganese (Mn++)		Not Determined	
19.	Total Hardness as CaCO3		9,173	
20.	Resistivity @ 75 F. (Calculated)			0.009 Ohm · meters

### LOGARITHMIC WATER PATTERN



### Calcium Sulfate Solubility Profile



### PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	14.03		81.04		1,137
CaSO4	89.06		68.07		6,062
CaCl2	0.00		55.50		0
Mg(HCO3)2	0.00		73.17		0
MgSO4	1.11		60.19		67
MgCl2	78.48		47.62		3,737
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	3,019.40		58.46		176,514

\* milliequivalents per Liter

Tony Abernathy, Analyst

# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

**SAMPLE**

Client Co.: LimeRock Resources  
 Lease: Kersey  
 Well No.: ST  
 Location:  
 Attention:

Date Sampled: 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.001- 6  
 Salesperson :  
 File Name : Jul2810.001

**ANALYSIS**

- 1. Ph 5.600
- 2. Specific Gravity 60/60 F. 1.143
- 3. CACO3 Saturation Index @ 80F -0.496  
@ 140F 0.494

Negligible  
Mild

**Dissolved Gasses**

- 4. Hydrogen Sulfide MG/L. 30
- 5. Carbon Dioxide 50
- 6. Dissolved Oxygen Not Determined

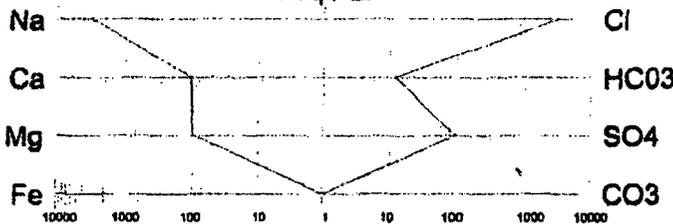
**Cations**

- 7. Calcium (Ca++) 2,072 / 20.1 = 103.08
- 8. Magnesium (Mg++) 1,143 / 12.2 = 93.69
- 9. Sodium (Na+) (Calculated) 69,836 / 23.0 = 3,036.35
- 10. Barium (Ba++) Not Determined

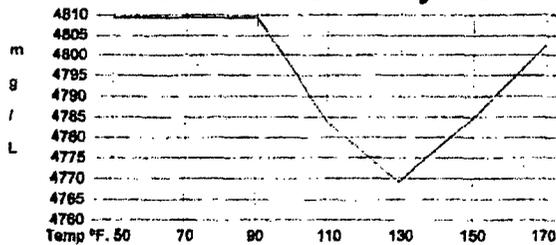
**Anions**

- 11. Hydroxyl (OH-) 0 / 17.0 = 0.00
- 12. Carbonate (CO3=) 0 / 30.0 = 0.00
- 13. Bicarbonate (HCO3-) 686 / 61.1 = 11.23
- 14. Sulfate (SO4=) 4,500 / 48.8 = 92.21
- 15. Chloride (Cl-) 110,975 / 35.5 = 3,126.06
- 16. Total Dissolved Solids 189,212
- 17. Total Iron (Fe) 14.50 / 18.2 = 0.80
- 18. Manganese (Mn++) Not Determined
- 19. Total Hardness as CaCO3 9,879
- 20. Resistivity @ 75 F. (Calculated) 0.008 Ohm · meters

**LOGARITHMIC WATER PATTERN**  
\*meq / L.



**Calcium Sulfate Solubility Profile**



**PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	11.23		81.04	910
CaSO4	91.86		68.07	6,253
CaCl2	0.00		55.50	0
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.36		60.19	21
MgCl2	93.33		47.62	4,444
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	3,032.72		58.46	177,293

\* milliequivalents per Liter

Tony Abernathy, Analyst

# Pro-Kem WATER ANALYSIS REPORT

**SAMPLE**

Co. : Lime Rock Resources  
 Lease : Staley ST  
 Well No.:  
 Location:  
 Attention:

Date Sampled : 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.003- 4  
 Salesperson :  
 File Name : Jul2810.003

**ANALYSIS**

- 1. Ph 5.500
- 2. Specific Gravity 60/60 F. 1.178
- 3. CACO3 Saturation Index

@ 80F  
 @ 140F

-2.905 Negligible  
 -1.145 Negligible

**Dissolved Gasses**

- 4. Hydrogen Sulfide 0
- 5. Carbon Dioxide 0
- 6. Dissolved Oxygen Not Determined

MG/L.      EQ. WT.      \*MEQ/L

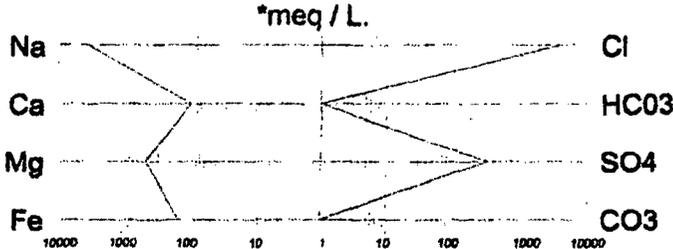
**Cations**

- 7. Calcium (Ca++) 1,884 / 20.1 = 93.73
- 8. Magnesium (Mg++) 5,371 / 12.2 = 440.25
- 9. Sodium (Na+) (Calculated) 80,438 / 23.0 = 3,497.30
- 10. Barium (Ba++) Not Determined

**Anions**

- 11. Hydroxyl (OH-) 0 / 17.0 = 0.00
- 12. Carbonate (CO3=) 0 / 30.0 = 0.00
- 13. Bicarbonate (HCO3-) 0 / 61.1 = 0.00
- 14. Sulfate (SO4=) 15,000 / 48.8 = 307.38
- 15. Chloride (Cl-) 131,970 / 35.5 = 3,717.46
- 16. Total Dissolved Solids 234,663
- 17. Total Iron (Fe) 2,500.00 / 18.2 = 137.36
- 18. Manganese (Mn++) Not Determined
- 19. Total Hardness as CaCO3 26,814
- 20. Resistivity @ 75 F. (Calculated) 0.001 Ohm · meters

**LOGARITHMIC WATER PATTERN**

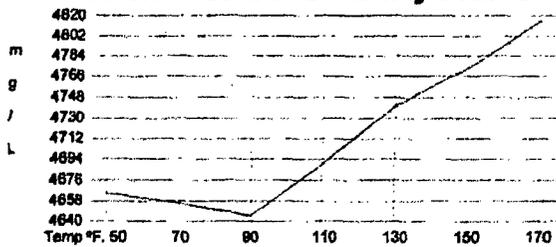


**PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	0.00		81.04	0
CaSO4	93.73		68.07	6,380
CaCl2	0.00		55.50	0
Mg(HCO3)2	0.00		73.17	0
MgSO4	213.65		60.19	12,859
MgCl2	226.60		47.62	10,791
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	3,490.86		58.46	204,076

\* milliequivalents per Liter

**Calcium Sulfate Solubility Profile**



Tony Abernathy, Analyst

# Pro-Kem WATER ANALYSIS REPORT

**SAMPLE**

Co.: Lime Rock Resources  
 Lease : Staley ST A  
 Well No.:  
 Location:  
 Attention:

Date Sampled : 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.003- 5  
 Salesperson :  
 File Name : Jul2810.003

**ANALYSIS**

- 1. Ph 5.600
- 2. Specific Gravity 60/60 F. 1.118
- 3. CACO3 Saturation Index

@ 80F -0.204 Negligible  
 @140F 0.716 Moderate

**Dissolved Gasses**

	MG/L.	EQ. WT.	*MEQ/L
4. Hydrogen Sulfide	80		
5. Carbon Dioxide	160		
6. Dissolved Oxygen	Not Determined		

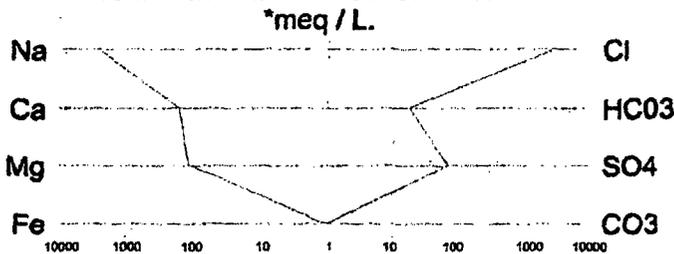
**Cations**

7.	Calcium (Ca++)	3,391	/ 20.1 =	168.71
8.	Magnesium (Mg++)	1,371	/ 12.2 =	112.38
9.	Sodium (Na+) (Calculated)	58,430	/ 23.0 =	2,540.44
10.	Barium (Ba++)	Not Determined		

**Anions**

11.	Hydroxyl (OH-)	0	/ 17.0 =	0.00
12.	Carbonate (CO3=)	0	/ 30.0 =	0.00
13.	Bicarbonate (HCO3-)	1,060	/ 61.1 =	17.35
14.	Sulfate (SO4=)	3,400	/ 48.8 =	69.67
15.	Chloride (Cl-)	96,978	/ 35.5 =	2,731.77
16.	Total Dissolved Solids	164,630		
17.	Total Iron (Fe)	18.00	/ 18.2 =	0.99
18.	Manganese (Mn++)	Not Determined		
19.	Total Hardness as CaCO3	14,113		
20.	Resistivity @ 75 F. (Calculated)	0.027 Ohm · meters		

**LOGARITHMIC WATER PATTERN**

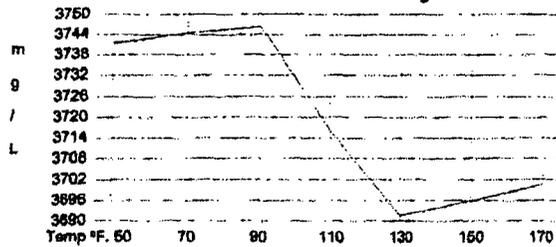


**PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	17.35		81.04	1,406
CaSO4	69.67		68.07	4,743
CaCl2	81.69		55.50	4,534
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.00		60.19	0
MgCl2	112.38		47.62	5,351
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	2,537.71		58.46	148,355

\* milliequivalents per Liter

**Calcium Sulfate Solubility Profile**



Tony Abernathy, Analyst



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

---

No records found.

**PLSS Search:**

**Section(s): 3, 4, 5**

**Township: 18S**

**Range: 28E**

---

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.

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5/14/12 9:42 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



---

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

---

No records found.

**PLSS Search:**

**Section(s): 8, 9, 10**

**Township: 18S**

**Range: 28E**

---

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.

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

---

No records found.

**PLSS Search:**

**Section(s): 32, 33, 34**

**Township: 17S**

**Range: 28E**

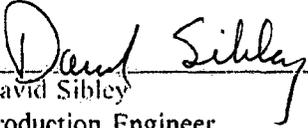
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The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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Form C-108  
Affirmative Statement  
LRE Operating, LLC  
Eddy-Humble "4" State SWD #1  
Section 4, T-18 South, R-28 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.

  
\_\_\_\_\_  
David Sibley  
Production Engineer  
LRE Operating, LLC

5-17-2012  
Date

May 18, 2012

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

**TO: OFFSET OPERATORS/LEASEHOLD OWNERS/WORKING INTEREST OWNERS &  
SURFACE OWNER**

**Re: LRE Operating, LLC  
Form C-108 (Application for Authorization to Inject)  
Eddy-Humble "4" State SWD No. 1  
API No. Not Yet Assigned  
2310' FSL & 1650' FEL, Unit J, Section 4, T-18S, R-28E, NMPM,  
Eddy County, New Mexico**

Ladies & Gentlemen:

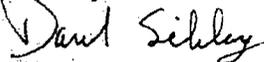
Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the LRE Operating, LLC. ("LRE") Eddy-Humble "4" State SWD Well No. 1. You are being provided a copy of the application as an offset operator, offset leaseholder, offset working interest owner or surface owner. LRE proposes to drill this well and complete it as a produced water disposal well, injection to occur into the Abo, Wolfcamp and Cisco formations through the perforated and open-hole interval from 6,705 feet to 9,300 feet. 900

This application is being filed administratively, and is also being docketed for the Examiner Hearing scheduled for June 21, 2012. If the application qualifies, LRE is seeking administrative approval of this application. Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If a hearing for this application is required, this application will be set for hearing before a Division Examiner on June 21, 2012 at 8:15 a.m. at the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico. You are not required to attend this hearing, but as an owner of an interest that may be affected, you may appear and present testimony. Failure to appear at the time and become a party of record will preclude you from challenging this application at a later time. If you intend to attend the hearing and present testimony or evidence, you must enter your appearance and serve the Division, counsel for the Applicant, and other parties with a pre-hearing statement at least four business days before the scheduled hearing date in accordance with 19.15.4.13(B) NMAC.

If you should have any questions, please contact me at (713) 345-2134.

Sincerely,



David Sibley, Production Engineer  
LRE Operating, LLC  
1111 Bagby Street, Suite 4600  
Houston, Texas 77002

Enclosure

LRE Operating, LLC  
Form C-108; Eddy-Humble "4" State SWD No. 1  
½ Mile Notice Area Ownership  
(Working Interest Owners Unless Otherwise Noted)

Section 3; W/2  
T-18-S, R-28-E, N.M.P.M.  
Eddy County, NM

H & S Oil Company  
P.O. Box 186  
Artesia, NM 88211

Khody Land & Minerals Company  
3817 NW Expressway, Suite 950  
Oklahoma City, OK 73112

Melrose Operating Company  
20333 State Hwy 249, Suite 310  
Houston, TX 77070

SDX Resources Inc  
507 N. Marienfield St., Suite 100  
Midland, TX 79701

Roy L Burrow  
P.O. Box 706  
Roswell, NM 88201

S. A. Lanning  
1102 Hermosa Dr.  
Artesia, NM 88210

Yates Petroleum Corporation (Offset Operator)  
105 S Fourth Street  
Artesia, NM 88210

Marathon Oil Company  
P.O. Box 552  
Midland, TX 79702

BP America Production Company  
P.O. Box 3092  
Houston, TX 77253

Oxy USA, Inc.  
P.O. Box 4294  
Houston, TX 77210

Black Diamond Resources, LLC  
1401 McKinney St., Suite 2400  
Houston, TX 77010

QAC Carried WI, LP  
1401 McKinney St., Suite 2400  
Houston, TX 77010

QRE Operating, LLC  
1401 McKinney St., Suite 2400  
Houston, TX 77010

**LRE Operating, LLC**  
**Form C-108; Eddy-Humble "4" State SWD No. 1**  
**½ Mile Notice Area Ownership (Page 2)**

Apache Corporation  
303 Veterans Airpark Lane, Suite 3000  
Midland, TX 79705

Quantum Resource Management, LLC  
1401 McKinney St., Suite 2400  
Houston, TX 77010

Bogle LTD Company  
P.O. Box 460  
Dexter, NM 88231

**Section 4; All sae NW/4 NW/4**  
**T-18-S, R-28-E, N.M.P.M**  
**Eddy County, NM**

Oxy USA, Inc.  
P.O. Box 4294  
Houston, TX 77210

Chase Oil Corporation  
P.O. Box 1767  
Artesia, NM 88211

Penroc Oil Corporation  
P.O. Box 2769  
Hobbs, NM 88241

Chisos, LTD & Pure Energy Group, Inc  
670 Dona Ana Road SW  
Deming, NM 88030

Marathon Oil Company  
P.O. Box 552  
Midland, TX 79702

Exxon Mobil Corporation  
P.O. Box 2305  
Houston, TX 77252

DeKalb Energy Company  
14000 Quail Springs Pkwy, Suite 600  
Oklahoma City, OK 73134

Melrose Operating Company  
20333 State Hwy 249, Suite 310  
Houston, TX 77070

Black Diamond Resources, LLC  
1401 McKinney St., Suite 2400  
Houston, TX 77010

QAC Carried WI, LP  
1401 McKinney St., Suite 2400  
Houston, TX 77010

QRE Operating, LLC  
1401 McKinney St., Suite 2400  
Houston, TX 77010

LRE Operating, LLC  
Form C-108; Eddy-Humble "4" State SWD No. 1  
½ Mile Notice Area Ownership (Page 3)

Yates Petroleum Corporation (Offset Operator)  
105 S Fourth Street  
Artesia, NM 88210

Marathon Oil Company  
P.O. Box 552  
Midland, TX 79702

Alamo Permian Resources, LLC  
415 W Wall Street # 500  
Midland, TX 79701

Apache Corporation  
303 Veterans Airpark Lane, Suite 3000  
Midland, TX 79705

Sandlott Energy  
P.O. Box 711  
Lovington, NM 88260

Mewbourne Oil Co. (Offset Operator)  
P.O. Box 7698  
Tyler, TX 75711

Quantum Resource Management, LLC  
1401 McKinney St., Suite 2400  
Houston, TX 77010

Atlantic Richfield Company  
1601 Summit Ave  
Plano, TX 75074

Nearburg Producing Company  
3300 North A St., Suite 8100  
Midland, TX 79705

Doral Energy Corporation  
415 W. Wall St., Suite 500  
Midland, TX 79701

BP America Production Company  
P.O. Box 3092  
Houston, TX 77253

American Petrofina Company  
P.O. Box 1311  
Big Spring, TX 79720

Graridge Corporation  
P.O. Box 752  
Breckenridge, TX 76424

B&W Oil Company, Inc  
R -252 N. Haldeman Rd  
Artesia, NM 88210

LRE Operating, LLC  
Form C-108; Eddy-Humble "4" State SWD No. 1  
½ Mile Notice Area Ownership (Page 4)

Tom L Ingram  
P.O. Box 1757  
Roswell, NM 88201

Mack Energy Corporation  
P.O. Box 960  
Artesia, NM 88210

Marbob Energy Corporation  
P.O. Drawer 217  
Artesia, NM 88210

Warren Hanson dba Hanson Energy  
R342 S. Haldeman Road  
Artesia, NM 88210

COG Operating, LLC  
550 W Texas Ave., Suite 100  
Midland, TX 79701

Concho Oil & Gas, LLC  
550 W Texas Ave., Suite 100  
Midland, TX 79701

Alamo Resources II  
820 Gessner Rd, Suite 1650  
Houston, TX 77024

Rainbow Energy Corporation  
2610 Camarie  
Midland, TX 79705

Arrowhead Operating, Inc  
2610 Camarie  
Midland, TX 79705

Plains Petroleum Operating Company  
415 W. Wall St. Suite 2110  
Midland, TX 79701

Arch Petroleum Inc  
777 Taylor St. Suite IIA  
Fort Worth, TX 76102

Edge Petroleum Exploration Company  
1301 Travis St Ste 2000  
Houston, TX 77002

Mission Resources Incorporation  
1100 La St Ste 4400  
Houston, TX 77002

Manix Energy, LLC  
3300 N A St Bldg 8  
Midland, TX 79705

LRE Operating, LLC  
Form C-108; Eddy-Humble "4" State SWD No. 1  
½ Mile Notice Area Ownership (Page 5)

Amoco Production Company  
P.O. Box 3092  
Houston, TX 77079

Nadel & Gussman Permian, LLC (Offset Operator)  
601 N. Marienfeld, Suite 508  
Midland, Texas 79701

Commissioner of Public Lands (Surface Owner)  
P.O. Box 1148  
Santa Fe, New Mexico 87507

**Section 9; N/2 NE/4  
T-18-S, R-28-E, N.M.P.M.  
Eddy County, NM**

F&M Oil & Gas Company  
P.O. Box 891  
Midland, TX 79702

Exxon Mobil Corporation  
P.O. Box 2305  
Houston, TX 77252

Rainbow Energy Corporation  
2610 Camarie  
Midland, TX 79705

Arrowhead Operating, Inc  
2610 Camarie  
Midland, TX 79705

Plains Petroleum Operating Company  
415 W. Wall St. Suite 2110  
Midland, TX 79701

Arch Petroleum Inc  
777 Taylor St. Suite IIA  
Fort Worth, TX 76102

Finwing Corporation  
P.O. Box 10886  
Midland, TX 79702

Khody Land & Minerals Company  
3817 NW Expressway, Suite 950  
Oklahoma City, OK 73112

Sandlott Energy  
P.O. Box 711  
Lovington, NM 88260

Bogle LTD Company  
P.O. Box 460  
Dexter, NM 88231

LRE Operating, LLC  
Form C-108; Eddy-Humble "4" State SWD No. 1  
½ Mile Notice Area Ownership (Page 6)

EGL Resources, Inc.  
508 W. Wall Street,  
Suite 1250  
Midland, Texas 79701

Form C-108  
LRE Operating, LLC  
Eddy-Humble "4" State SWD #1  
2310' FSL & 1650' FEL (Unit J)  
Section 4, T-18 South, R-28 East, NMPM,  
Eddy County, New Mexico

*Legal notice will be published in the:*

*Artesia Daily Press  
P.O. Box 190  
Artesia, New Mexico 88221-0190*

*A copy of the legal advertisement will be forwarded to the Division upon publication.*

LRE Operating, LLC, 1111 Bagby Street, Suite 4600, Houston, Texas 77002 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to utilize as a produced water disposal well it's proposed Eddy-Humble "4" State SWD #1 to be drilled 2310' FSL & 1650' FEL (Unit J) of Section 4, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico. The well will be utilized to dispose produced water from various producing formations in the area of the disposal well. Injection will occur into the Abo, Wolfcamp and Cisco formations through the perforated interval from ~~6,705 feet to 6,805 feet~~ <sup>6,700</sup> ~~6,805 feet~~ <sup>9,300</sup> and the ~~open hole interval from 6,805 feet to 9,300 feet~~. The average and maximum injection rates will be 10,000 and 20,000 barrels of water per day, respectively, and the average and maximum surface injection pressure is anticipated to be 1,000 psi and 1,341 psi, respectively.

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 David Sibley, Production Engineer, LRE Operating, LLC at (713) 345-2134.



July 3, 2012

Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Attention: Ms. Jami Bailey, CPG  
Division Director

Re: Form C-108  
LRE Operating, LLC  
Eddy-Humble "4" State SWD No. 1  
API No. Not Yet Assigned  
2310' FSL & 1650' FEL, Unit J  
Section 4, T-18S, R-28E, NMPM,  
Eddy County, New Mexico

Dear Ms. Bailey,

On May 21, 2012 LRE Operating, LLC ("LRE") filed a Form C-108 for its proposed Eddy-Humble "4" State SWD Well No. 1. Injection was proposed to be into the Abo, Wolfcamp and Cisco formations through the perforated interval from 6,705 feet to 6,805 feet, and the open-hole interval from 6,805 feet to 9,300 feet.

Due to a concern expressed by an offset operator, LRE proposes to change the wellbore configuration such that there will be no open-hole injection within the well. LRE proposes to set a 4 1/2" production liner from 6,580 feet to 9,000 feet and cement to the top of the liner (See attached wellbore schematic). The proposed injection formations and intervals will not change, except that the well will now be drilled to a total depth of 9,000 feet instead of 9,300 feet as originally planned.

Consequently, LRE now requests approval to inject into the Abo, Wolfcamp and Cisco formations through the perforated interval from 6,705 feet to 9,000 feet.

It is LRE's belief that since the injection interval is not being expanded, and since the only material change to the application is the addition of a production liner, further notice by certified mail and publication should not be required.

LRE further requests an exception to the packer setting depth rule to allow the ZXP Liner Top Packer and Polished Bore Receptacle Assembly to be placed approximately 125 feet above the uppermost injection perforations at 6,705 feet. This

LRE Operating, LLC  
Form C-108  
Eddy-Humble "4" State SWD No. 1  
July 3, 2012  
Page 2

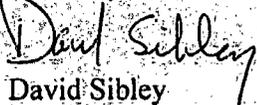
---

will allow LRE to achieve an acceptable overlap of the 4 ½" production liner inside the 7" production casing which is consistent with good engineering design practice.

Attached is a revised injection well data sheet and wellbore schematic.

I believe that all the information necessary to approve the requested amendments is enclosed. If additional information is needed, please contact me at (713) 345-2134.

Sincerely,



David Sibley  
Production Engineer  
LRE Operating, LLC  
1111 Bagby Street, Suite 4600  
Houston, Texas 77002

Xc: OCD-Artesia

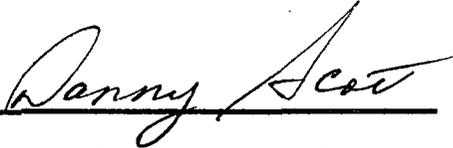
# Affidavit of Publication

NO. 22154

STATE OF NEW MEXICO

County of Eddy:

Danny Scott



being duly sworn, says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of general

circulation, published in English at Artesia, said county

and state, and that the hereto attached

### Legal Notice

was published in a regular and entire issue of the said

Artesia Daily Press, a daily newspaper duly qualified

for that purpose within the meaning of Chapter 167 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/days on the same

day as follows:

First Publication May 20, 2012

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

Fifth Publication \_\_\_\_\_

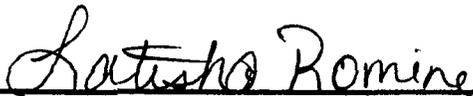
Subscribed and sworn to before me this

21st day of May 2012



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015



Latisha Romine  
Notary Public, Eddy County, New Mexico

# Copy of Publication:

## LEGAL NOTICE

LRE Operating, LLC, 1111 Bagby Street, Suite 4600, Houston, Texas 77002 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to utilize as a produced water disposal well it's proposed Eddy-Humble "4" State SWD #1 to be drilled 2310' FSL & 1650' FEL (Unit J) of Section 4, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico. The well will be utilized to dispose produced water from various producing formations in the area of the disposal well. Injection will occur into the Abo, Wolfcamp and Cisco formations through the perforated interval from 6,705 feet to 6,805 feet, and the open-hole interval from 6,805 feet to 9,300 feet. The average and maximum injection rates will be 10,000 and 20,000 barrels of water per day, respectively, and the average and maximum surface injection pressure is anticipated to be 1,000 psi and 1,341 psi, respectively.

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 David Sibley, Production Engineer, LRE Operating, LLC at (713) 345-2134.  
Published in the Artesia Daily Press, Artesia, N.M., May 20, 2012. Legal No 22154.

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Monday, June 11, 2012 6:50 PM  
**To:** 'David Sibley'  
**Cc:** 'drccatanach@netscape.com'; 'padillalaw@qwestoffice.net'; Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD; 'Dawson, Scott'; Shapard, Craig, EMNRD  
**Subject:** Disposal administrative application from LRE Operating, LLC: proposed Eddy-Humble "4" State SWD #1 30-015-NA 2310FSL 1650FEL J/4/18S/28E

Mr. Padilla: This is also the subject of upcoming Division Case No. 14863

I just reviewed this administrative application and wanted to share some comments and concerns,

*will stop  
about THIS  
internal*

- a. About a mile to the SE, the Cisco was tried as a completion prior to plugging (Illinois Camp; Cisco Gas Pool) in one well. That well tested liquids rich gas from the Cisco and appears to be downdip from your proposed Cisco disposal well. That well had all sorts of logs and a mudlog run on it but had rampant fluid loss over a large portion of the hole while drilling. If your well is updip, you may see something. If you included some sort of Geo's writeup about the Cisco in this area i.e. lithology and structure map it would help.
- b. Would you comment on what sort of mudlogging or logging you plan to run on this well. Any permit issued will likely require some sort of diagnostics and restrict use of any portion showing potential for production of hydrocarbons.
- c. Please ask Mewbourne where the DV tool is on the 30-015-29688 well. Apparently the final casing/cementing details did not make it into the Division's well file. Send a quick wellbore diagram of this (only) AOR well showing cement coverage and the DV tool placement.
- d. The State Engineer's site has no fresh water wells within a mile – has LRE done a visual check to see if windmills or older wells exist?
- e. What is the best guess for the top of the Strawn at this location?
- f. The projected cement top for the 7 inch casing is only to the intermediate shoe (2800 feet) LRE should plan on designing cement to at least cover that shoe or higher.

Thank You for the application,

William V Jones, P.E.  
Engineering, Oil Conservation Division  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Tel 505.476.3448 ~ Fax 505.476.3462



## Jones, William V., EMNRD

---

**From:** David Sibley [dsibley@limerockresources.com]  
**Sent:** Monday, July 02, 2012 1:29 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Stan Bishop; drcatanach@netscape.com; Ernest Padilla  
**Subject:** Responses:.... Disposal administrative application from LRE Operating, LLC: proposed Eddy-Humble "4" State SWD #1 30-015-NA 2310FSL 1650FEL J/4/18S/28E  
**Attachments:** Eddy-Humble\_4\_State\_COM\_#1\_SWD\_Proposed\_WBS\_REV3\_6-29-12.xlsx; Eddy Humble SWD Strawn Structure 150 dpi 7-2-12.jpg

Will,

The following comments are in response to your questions of June 11, 2012.

- a) The Cisco section in this area has thin streaky limestone porosity with the better porosity being in the top, which is the base of intended disposal. The actual well mentioned with the Cisco hydrocarbons is the Altura Energy Fireweed 10 Federal No. 1, which did perforate the lower Cisco with the top perf being 9528' md. This is the only presence of any hydrocarbon production (uneconomic...cum of 358 bbls oil w gas total in 1999) that I am aware of in the area. Lime Rock's proposed Eddy Humble No. 1 SWD will be adjusted to reach a maximum depth of 9000 feet, which will stop short of the stratigraphically equivalent of the top perf hydrocarbon "show" by more than 200'. This depth takes into account the 300 feet of structural dip from the Eddy Humble location down to the Fireweed. (see attached Structure map of the Strawn, which is a very continuously correlative marker that lies just 325 feet below the Fireweed top Cisco perf) .
- b) It would be Lime Rock's intention to run a triple combo log with spectral gamma ray in the well. We will also perform a mud log over the zones of interest.
- c) We are waiting for Mewbourne to respond to Randy Dade's request for this information. He told me he would request this information on 6-25-12. We will provide a well bore diagram of this well when that information is available on line.
- d) We have done a visual check. There are no water wells within the area of review.
- e) Top of Strawn is projected to be at 9595' md at this location.
- f) Please see the attached revised well bore diagram, showing designed TOC at 2,600'.

Thanks,  
David

---

**From:** David Sibley  
**Sent:** Tuesday, June 12, 2012 8:13 AM

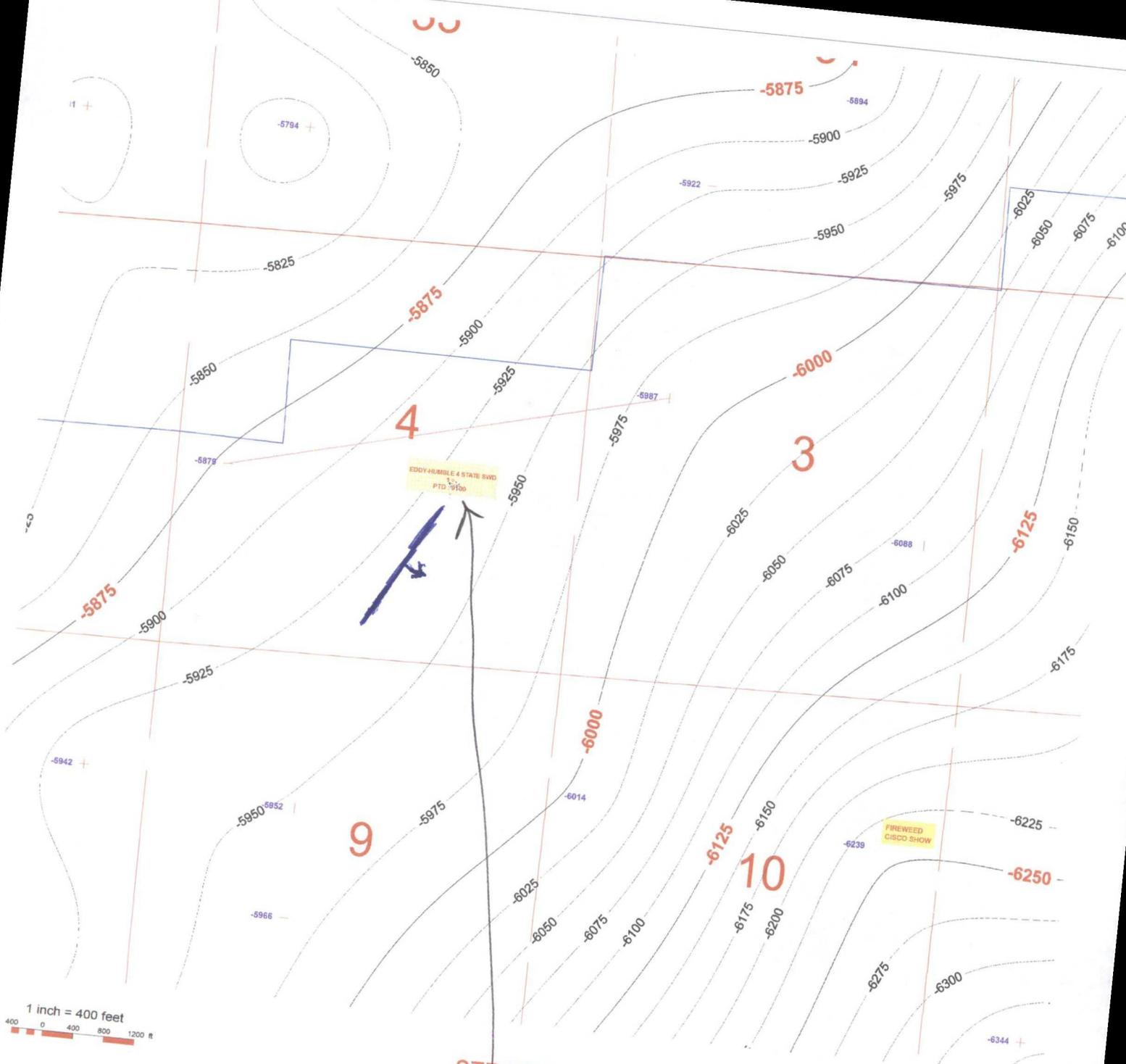
1 inch = 400 feet  
400 0 400 800 1200 ft

STRAWN STRUCTURE

**LIME ROCK RESOURCES**

PROPERTY: [REDACTED]	
LOCATION: [REDACTED]	
DATE: [REDACTED]	
DRAWN BY: [REDACTED]	
CHECKED BY: [REDACTED]	

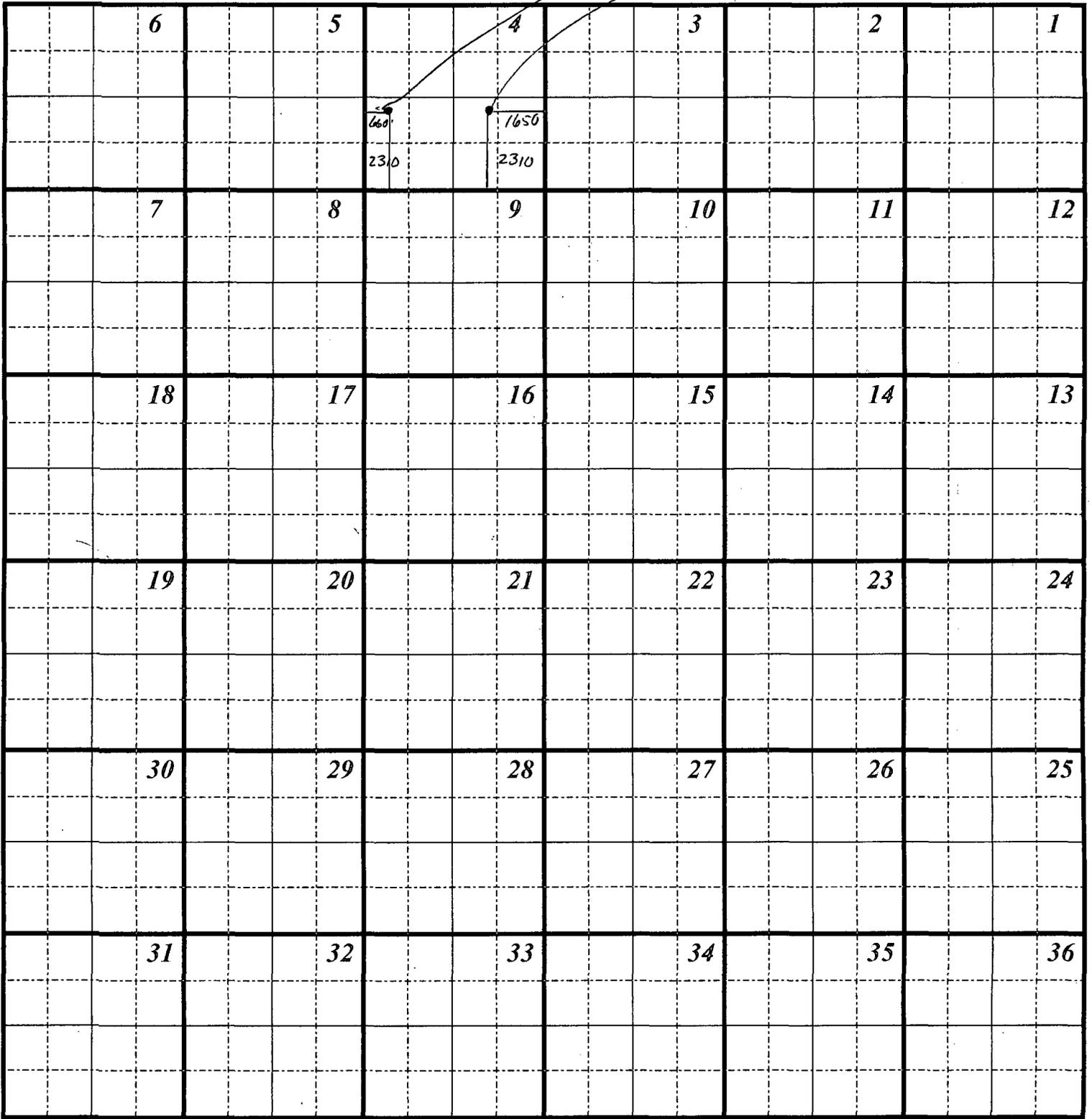
≈ 3670' EL.  
@



2970 = 1/2 562'

30-015-29688

Eddy Amdbe 4 No.1



Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_

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 Street, Apt. No., or PO Box No. Rainbow Energy Corporation  
 2610 Camarie  
 City, State, ZIP+4 Midland, TX 79705  
 PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5943 9668

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.79</b>	

Sent To  
 Street, Apt. No., or PO Box No. Alamo Resources II  
 820 Gessner Rd. Ste. 1650  
 City, State, ZIP+4 Houston, TX 77024  
 PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5943 9774

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To

American Petrofina Company  
 PO Box 1311  
 Big Spring, TX 79720

PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To

Graridge Corporation  
 PO Box 752  
 Breckenridge, TX 76424

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To

B&W Oil Company, Inc.  
 252 N. Haldeman Rd  
 Artesia, NM 88210

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To

Tom L. Ingram  
 PO Box 1757  
 Roswell, NM 88210

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Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To

Mack Energy Corporation  
 PO Box 960  
 Artesia, NM 88210

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Postage	\$ .45	Postmark Here
Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To

Marbob Energy Corporation  
 PO Drawer 217  
 Artesia, NM 88210

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7012 0470 0001 5943 9835

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Postage	\$ .45	Postmark Here
Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.75	

Sent To  
 Mewbourne Oil  
 Street, Apt. No. or PO Box No. PO Box 7698  
 City, State, ZIP+4 Tyler, TX 75711  
 PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.75	

Sent To  
 SDX Resources Inc.  
 Street, Apt. No. or PO Box No. 507 N. Marienfield St., Ste 100  
 City, State, ZIP+4 Midland, TX 79701  
 PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.75	

Sent To  
 Warren Hanson dba  
 Hanson Energy  
 Street, Apt. No. or PO Box No. 342 S. Haldeman Road  
 City, State, ZIP+4 Artesia, NM 88210  
 PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.75	

Sent To  
 Alamo Permian Resources, LLC  
 Street, Apt. No. or PO Box No. 15 W. Wall Street #500  
 City, State, ZIP+4 Midland, TX 79701  
 PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5943 9798

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Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.75	

Sent To  
 Nearburg Producing Company  
 Street, Apt. No. or PO Box No. 300 North A St Ste 8100  
 City, State, ZIP+4 Midland, TX 79705  
 PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.75	

Sent To  
 Doral Energy Corporation  
 Street, Apt. No. or PO Box No. 15 W Wall St Ste 500  
 City, State, ZIP+4 Midland, TX 79701  
 PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To  
 Commissioner of Public Lands  
 Street, Apt. No. or PO Box No. PO Box 1148  
 City, State, ZIP+4 Santa Fe, NM 87504  
 PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
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Sent To  
 EGL Resources, Inc.  
 Street, Apt. No. or PO Box No. 508 W. Wall Street, Ste 1250  
 City, State, ZIP+4 Midland, TX 79701  
 PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To  
 H & S Oil Company  
 Street, Apt. No. or PO Box No. PO Box 186  
 City, State, ZIP+4 Artesia, NM 88211  
 PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
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Sent To  
 Atlantic Richfield Company  
 Street, Apt. No. or PO Box No. 1601 Summit Avenue  
 City, State, ZIP+4 Plano, TX 75074  
 PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To  
 Melrose Operating Company  
 Street, Apt. No. or PO Box No. 20333 State Hwy 249, Ste 310  
 City, State, ZIP+4 Houston, TX 77070  
 PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>	

Sent To  
 Khody Land & Minerals Co.  
 Street, Apt. No. or PO Box No. 3817 NW Expressway, Ste 950  
 City, State, ZIP+4 Oklahoma City, OK 73112  
 PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5943 9958

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Return Receipt Fee (Endorsement Required)	2.35
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Sent To  
 Street, Apt. No., or PO Box No. COG-Operating, LLC  
 550 W Texas Avenue, Ste 100  
 City, State, ZIP+4 Midland, TX 79701  
 PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5943 9947

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
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Sent To  
 Street, Apt. No., or PO Box No. Finwing Corporation  
 PO Box 10886  
 City, State, ZIP+4 Midland, TX 79702  
 PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>

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Sent To  
 Street, Apt. No., or PO Box No. Nadel & Gussman Permian LLC  
 601 N. Marienfeld, Ste 508  
 City, State, ZIP+4 Midland, TX 79701  
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Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>

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Sent To  
 Street, Apt. No., or PO Box No. Mission Resources Inc.  
 100 La St Ste 4400  
 City, State, ZIP+4 Houston, TX 77002  
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Restricted Delivery Fee (Endorsement Required)	
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Sent To  
 Street, Apt. No., or PO Box No. Manix Energy, LLC  
 300 N A St Bldg 8  
 City, State, ZIP+4 Midland, TX 79705

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Return Receipt Fee (Endorsement Required)	2.35
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Sent To  
 Street, Apt. No., or PO Box No. F&M Oil & Gas Company  
 PO Box 891  
 City, State, ZIP+4 Midland, TX 79702

6969 9543 5465 1000 0470 0012

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
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Postmark Here

Sent To: Penroc Oil Corporation

Street, Apt. No., or PO Box No: PO Box 2769

City, State, ZIP+4: Hobbs, NM 88241

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0103 1514 0001 0470 0011

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 5.75</b>

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Sent To: Chisos, LTD & Pure Energy Group, Inc

Street, Apt. No., or PO Box No: 670 Dona Ana Road SW

City, State, ZIP+4: Deming, NM 88030

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0097 1514 0001 0470 0011

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Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
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Postmark Here

Sent To: Exxon Mobil Corporation

Street, Apt. No., or PO Box No: PO Box 2305

City, State, ZIP+4: Houston, TX 77252

PS Form 3800, August 2006 See Reverse for Instructions

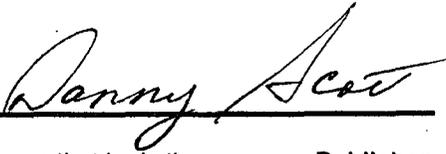
# Affidavit of Publication

NO. 22154

STATE OF NEW MEXICO

County of Eddy:

Danny Scott



being duly sworn, says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached

### Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/days on the same

day as follows:

- First Publication May 20, 2012
- Second Publication \_\_\_\_\_
- Third Publication \_\_\_\_\_
- Fourth Publication \_\_\_\_\_
- Fifth Publication \_\_\_\_\_

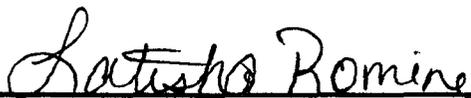
Subscribed and sworn to before me this

21st day of May 2012



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015



Latisha Romine  
Notary Public, Eddy County, New Mexico

# Copy of Publication:

## LEGAL NOTICE

LRE Operating, LLC, 1111 Bagby Street, Suite 4600, Houston, Texas 77002 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to utilize as a produced water disposal well it's proposed Eddy-Humble "4" State SWD #1 to be drilled 2310' FSL & 1650' FEL (Unit J) of Section 4, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico. The well will be utilized to dispose produced water from various producing formations in the area of the disposal well. Injection will occur into the Abo, Wolfcamp and Cisco formations through the perforated interval from 6,705 feet to 6,805 feet, and the open-hole interval from 6,805 feet to 9,300 feet. The average and maximum injection rates will be 10,000 and 20,000 barrels of water per day, respectively, and the average and maximum surface injection pressure is anticipated to be 1,000 psi and 1,341 psi, respectively.

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 David Sibley, Production Engineer, LRE Operating, LLC at (713) 345-2134.  
Published in the Artesia Daily Press, Artesia, N.M., May 20, 2012. Legal No 22154.

7011 2970 0003 9311 4UC7

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



SDX Resources Inc  
Sent To 507 N. Marienfield St.,  
Street, Apt. No. Suite 100  
or PO Box No. Midland, TX 79701  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

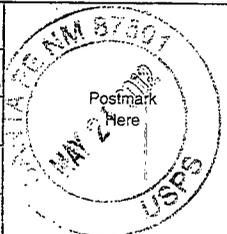
7011 0110 0001 2604 4767

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Warren Hanson dba  
Sent To Hanson Energy  
Street, Apt. No. 342 S. Haldeman Road  
or PO Box No. Artesia, NM 88210  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

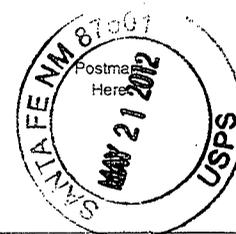
7011 0110 0001 2604 4866

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Mewbourne Oil  
Sent To P.O. Box 7698  
Street, Apt. No. or PO Box No. Tyler, TX 75711  
City, State, ZIP+4

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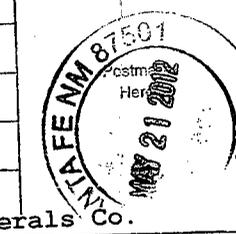
7011 2970 0003 9311 4048

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OFFICIAL USE

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Khody Land & Minerals Co.  
Sent To 3817 NW Expressway,  
Street, Apt. No. Suite 950  
or PO Box No. Oklahoma City, OK 73112  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

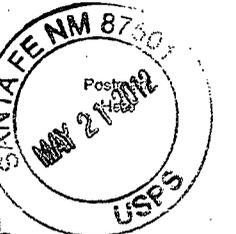
7011 2970 0003 9311 4031

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Melrose Operating Company  
Sent To 20333 State Hwy 249,  
Street, Apt. No. Suite 310  
or PO Box No. Houston, TX 77070  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

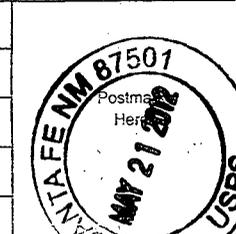
7011 0110 0001 2604 4859

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Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Atlantic Richfield Company  
Sent To 1601 Summit Ave  
Street, Apt. No. Plano, TX 75074  
or PO Box No. City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2606 3676

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Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

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Sent To **EGL Resources, Inc.**  
 Street, Apt. No., or PO Box No. **508 W. Wall Street, Suite 1250**  
 City, State, ZIP+4 **Midland, Texas 79701**

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2606 3676

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

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Sent To **H & S Oil Company**  
 Street, Apt. No., or PO Box No. **P.O. Box 186**  
 City, State, ZIP+4 **Artesia, NM 88211**

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7011 0110 0001 2606 3676

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

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Sent To **Commissioner of Public Lands**  
 Street, Apt. No., or PO Box No. **P.O. Box 1148**  
 City, State, ZIP+4 **Santa Fe, New Mexico 87504**

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2606 3676

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

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Sent To **F&M Oil & Gas Company**  
 Street, Apt. No., or PO Box No. **P.O. Box 891**  
 City, State, ZIP+4 **Midland, TX 79702**

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2604 4675

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

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Sent To **Manix Energy, LLC**  
 Street, Apt. No., or PO Box No. **3300 N A St Bldg 8**  
 City, State, ZIP+4 **Midland, TX 79705**

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2604 4682

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

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Sent To **Mission Resources Inc.**  
 Street, Apt. No., or PO Box No. **1100 La St Ste 4400**  
 City, State, ZIP+4 **Houston, TX 77002**

PS Form 3800, August 2006 See Reverse for Instructions

7599 3999 2604 4743

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Finwing Corporation**

Street, Apt. No. or PO Box No. **P.O. Box 10886**  
City, State, ZIP+4 **Midland, TX 79702**

PS Form 3800, August 2006

See Reverse for Instructions

7011 0110 0001 2602 3666

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OFFICIAL USE

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Nadel & Gussman Permian LLC**

Street, Apt. No. or PO Box No. **601 N. Marienfeld, Suite 508**  
City, State, ZIP+4 **Midland, Texas 79701**

PS Form 3800, August 2006

See Reverse for Instructions

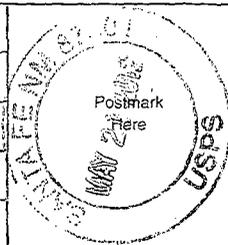
7011 0110 0001 2604 4743

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Alamo Resources II**  
**820 Gessner Rd, Suite 1650**

Street, Apt. No. or PO Box No. **Houston, TX 77024**  
City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

7011 0110 0001 2604 4750

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **COG Operating, LLC**  
**550 W Texas Ave., Suite 100**

Street, Apt. No. or PO Box No. **Midland, TX 79701**  
City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

7011 0110 0001 2604 4729

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Arrowhead Operating, Inc**  
**2610 Camarie**

Street, Apt. No. or PO Box No. **Midland, TX 79705**  
City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

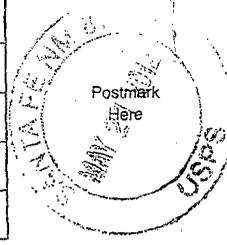
7011 0110 0001 2604 4736

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Rainbow Energy Corporation**  
**2610 Camarie**

Street, Apt. No. or PO Box No. **Midland, TX 79705**  
City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

7011 0110 0001 2604 4705

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

SANTA FE, NM 87501  
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 MAY 21 2006  
 USPS

Sent To **Arch Petroleum Inc**  
 777 Taylor St. Suite IIA  
 Street, Apt. No. or PO Box No. Fort Worth, TX 76102  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2604 4712

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

SANTA FE, NM 87501  
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 MAY 21 2006  
 USPS

Sent To **Plains Petroleum Operating Co.**  
 415 W. Wall St. Suite 2110  
 Street, Apt. No. or PO Box No. Midland, TX 79701  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2604 4699

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

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 Postmark Here  
 MAY 21 2006  
 USPS

Sent To **Edge Petroleum Exploration Co.**  
 1301 Travis St Ste 2000  
 Street, Apt. No. or PO Box No. Houston, TX 77002  
 City, State, ZIP+4

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7011 0110 0001 2604 4774

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

SANTA FE, NM 87501  
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 MAY 21 2006  
 USPS

Sent To **Marbob Energy Corporation**  
 P.O. Drawer 217  
 Street, Apt. No. or PO Box No. Artesia, NM 88210  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2604 4781

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

SANTA FE, NM 87501  
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 MAY 21 2006  
 USPS

Sent To **Mack Energy Corporation**  
 P.O. Box 960  
 Street, Apt. No. or PO Box No. Artesia, NM 88210  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2604 4798

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**OFFICIAL USE**

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

SANTA FE, NM 87501  
 Postmark Here  
 MAY 21 2006  
 USPS

Sent To **Tom L Ingram**  
 P.O. Box 1757  
 Street, Apt. No. or PO Box No. Roswell, NM 88201  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

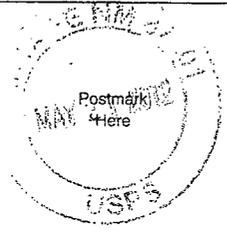
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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **B&W Oil Company, Inc**  
 R-252 N. Haldeman Rd.  
 Street, Apt. No. or PO Box No. **Artesia, NM 88210**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

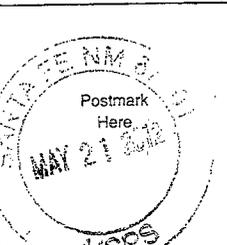
7011 0110 0001 2604 4811

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Graridge Corporation**  
 P. O. Box 752  
 Street, Apt. No. or PO Box No. **Breckenridge, TX 76424**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

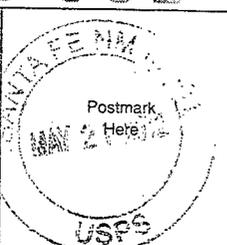
7011 0110 0001 2604 4828

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **American Petrofina Company**  
 P. O. Box 1311  
 Street, Apt. No. or PO Box No. **Big Spring, TX 79720**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

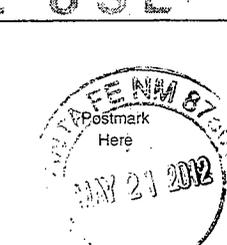
7011 0110 0001 2604 4835

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Doral Energy Corporation**  
 415 W. Wall St., Suite 500  
 Street, Apt. No. or PO Box No. **Midland, TX 79701**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

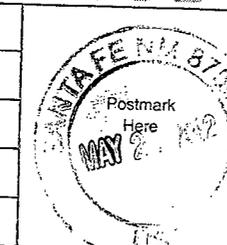
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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Nearburg Producing Company**  
 3300 North A St., Suite 8100  
 Street, Apt. No. or PO Box No. **Midland, TX 79705**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

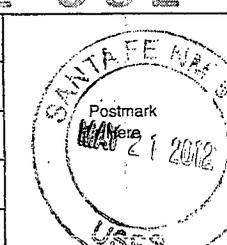
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**OFFICIAL USE**

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Alamo Permian Resources, LLC**  
 415 W Wall Street # 500  
 Street, Apt. No. or PO Box No. **Midland, TX 79701**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7011 0110 0001 2604 4873

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Sandlott Energy**  
P.O. Box 711  
Street, Apt. No. or PO Box No. **Lovington, NM 88260**  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

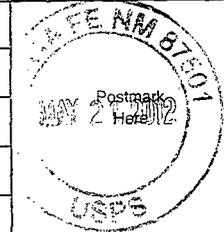
7011 0110 0001 2604 4897

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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **DeKalb Energy Company**  
14000 Quail Springs Pkwy,  
Street, Apt. No. or PO Box No. **Suite 600**  
**Oklahoma City, OK 73134**  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

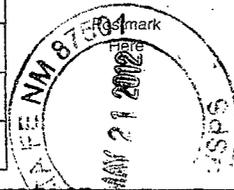
7011 0110 0001 2604 4903

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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Exxon Mobil Corporation**  
P.O. Box 2305  
Street, Apt. No. or PO Box No. **Houston, TX 77252**  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

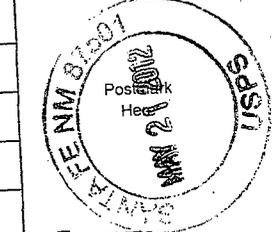
7011 0110 0001 2604 4910

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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Chisos, LTD & Pure Energy Group, Inc.**  
670 Dona Ana Road SW  
Street, Apt. No. or PO Box No. **Deming, NM 88030**  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

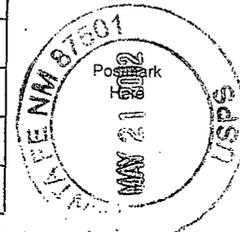
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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Penroc Oil Corporation**  
P.O. Box 2769  
Street, Apt. No. or PO Box No. **Hobbs, NM 88241**  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

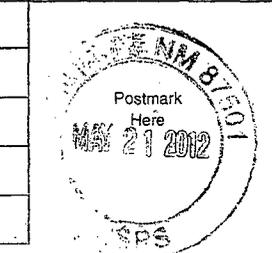
7011 0110 0001 2604 4934

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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20



Sent To **Chase Oil Corporation**  
P.O. Box 1767  
Street, Apt. No. or PO Box No. **Artesia, NM 88211**  
City, State, ZIP+4

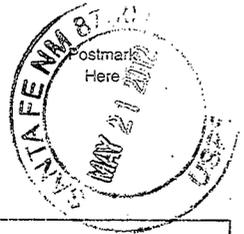
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<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>



Sent To **Bogle LTD Company**  
 P.O. Box 460  
 Street, Apt. No. or PO Box No. **Dexter, NM 88231**  
 City, State, ZIP+4

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Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>



Sent To **Apache Corporation**  
 303 Veterans Airpark Lane,  
 Street, Apt. No. or PO Box No. **Suite 3000**  
**Midland, TX 79705**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

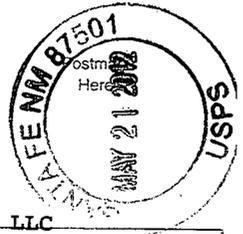
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Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>



Sent To **Black Diamond Resources, LLC**  
**Quantum Resource Mgmt. LLC**  
 Street, Apt. No. or PO Box No. **ORE Operating, LLC**  
**CAC Carried WI, LP**  
 City, State, ZIP+4 **1401 McKinney St., Suite 2400**  
**Houston, TX 77010**

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>



Sent To **Oxy USA, Inc.**  
 P.O. Box 4294  
 Street, Apt. No. or PO Box No. **Houston, TX 77210**  
 City, State, ZIP+4

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>



Sent To **BP America Production Company**  
**Amoco Production Company**  
 P.O. Box 3092  
 Street, Apt. No. or PO Box No. **Houston, TX 77253**  
 City, State, ZIP+4

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Postage	\$ 1.90
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>



Sent To **Marathon Oil Company**  
 P.O. Box 552  
 Street, Apt. No. or PO Box No. **Midland, TX 79702**  
 City, State, ZIP+4

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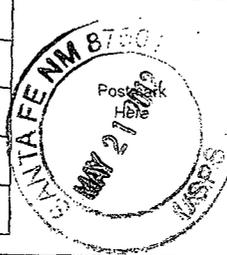
For delivery information visit our website at [www.usps.com](http://www.usps.com)

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

Sent To **S. A. Lanning**  
**1102 Hermosa Dr.**  
 Street, Apt. No. or PO Box No. **Artesia, NM 88210**  
 City, State, ZIP+4

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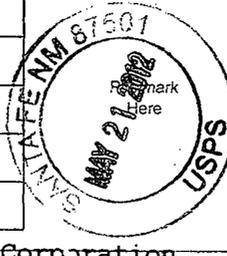
For delivery information visit our website at [www.usps.com](http://www.usps.com)

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Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.20

Sent To **Yates Petroleum Corporation**  
**105 S Fourth Street**  
 Street, Apt. No. or PO Box No. **Artesia, NM 88210**  
 City, State, ZIP+4

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Restricted Delivery Fee (Endorsement Required)	
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Sent To **Roy L Burrow**  
**P.O. Box 706**  
 Street, Apt. No. or PO Box No. **Roswell, NM 88201**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions





Adam G. Rankin  
Phone 505-954-7294  
Fax 505-983-6043  
agrarkin@hollandhart.com

June 13, 2012

**VIA HAND DELIVERY**

Jami Bailey, Director  
Oil Conservation Division  
New Mexico Department of Energy  
Minerals and Natural Resources  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

2012 JUN 13 P 4:09  
RECEIVED OGD

**Re: Application of LRE Operating, LLC for a Salt Water Disposal Well, Eddy County, New Mexico.**

Dear Ms. Bailey:

Yates Petroleum Corp. hereby objects to the above-referenced application filed by LRE Operating, LLC seeking authorization to dispose of salt water by injection into the Eddy-Humble 4 State SWD No. 1 well, located 2319 feet from the South line and 1650 feet from the East line of Section 4, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico.

Pursuant to Division Rule 19.15.26.8, this application must be set for hearing before a Division Examiner in order to be further considered, as Yates Petroleum Corp. has timely objected to this application. Your attention to this matter is appreciated.

Sincerely,

Adam G. Rankin

cc: Ernest Padilla  
Padilla Law Firm, P.A.  
P.O. Box 2523  
Santa Fe, NM 87504-2523

Chuck Moran, Yates Petroleum Corp.

Injection Permit Checklist (11/15/2010)

WFX \_\_\_\_\_ PMX \_\_\_\_\_ SWD 1345 Permit Date 7/25/12 UIC Qt (J/A/S)

# Wells 1 Well Name(s): EDDY-HUMBLE "4" STATE SWD #1

API Num: 30-015-NA Spud Date: Not Yet New/Old: N (UIC primacy March 7, 1982)

Footages 2310 FSL/1650 FEL Unit J Sec 4 Tsp 185 Rge 28E County EDDY

General Location: \_\_\_\_\_

Operator: LRE Operating, LLC Contact DAVID SIBLEY

OGRID: 281994 RULE 5.9 Compliance (Wells) 3/6/99 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed \_\_\_\_\_ Current Status: NOT Permitted yet

Planned Work to Well: \_\_\_\_\_

Diagrams: Before Conversion \_\_\_\_\_ After Conversion  Elogs in Imaging File: NOT Done

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New <input checked="" type="checkbox"/> Existing _____ Surface	17 1/2	13 3/8	250'	—	2805X	Swf
New <input checked="" type="checkbox"/> Existing _____ Interm	12 1/4	9 5/8	2500'		845X	Swf
New <input checked="" type="checkbox"/> Existing _____ LongSt	8 3/4	7"	<del>6700</del> 6700'		680 SX	2800'
New <input checked="" type="checkbox"/> Existing _____ Liner	6 1/2	4 1/2	6580-9000'		340 SX	CIRC
New <input checked="" type="checkbox"/> Existing _____ OpenHole			<del>6700</del>			

LIQUIDS PICK  
 MUDLOG WITHING  
 PLUGGED OUT  
 FULL CAMP/CIR  
 500  
 ? T-SEE?

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	5750 6805	ABC W.C.	<input checked="" type="checkbox"/>
Injection TOP:	6705	ABC/WC	Max. PSI <u>1341</u> OpenHole <input checked="" type="checkbox"/> Perfs <input checked="" type="checkbox"/>
Injection BOTTOM:	<del>6705</del> 6800'	CISCO	Tubing Size <u>4 1/2</u> Packer Depth <u>6580'</u>
Formation(s) Below	8150 9595'	CISCO <del>STRONG</del>	<input checked="" type="checkbox"/>

Higher  
 on Structure  
 1800

P.B.R.

Capitan Reef? \_\_\_\_\_ (Potash? \_\_\_\_\_ Noticed? \_\_\_\_\_) [WIPP? \_\_\_\_\_ Noticed? \_\_\_\_\_] Salado Top/Bot \_\_\_\_\_ Cliff House? \_\_\_\_\_

Fresh Water: Depths: ~150' Formation \_\_\_\_\_ Wells? None Analysis? \_\_\_\_\_ Affirmative Statement

Disposal Fluid Analysis? Sources: GOR/SA/GBG/ON/Yes From area wells

Disposal Interval: Analysis? \_\_\_\_\_ Production Potential/Testing: \_\_\_\_\_

Notice: Newspaper Date 5/20/12 Surface Owner S.L.O. Mineral Owner(s) \_\_\_\_\_

RULE 26.7(A) Affected Persons: Many - See applica (5/21/12)

AOR: Maps?  Well List?  Producing in Interval? No Wellbore Diagrams? ATOKA

.....Active Wells 1 Repairs? 0 Which Wells? 30-015-29688 Empty (Perm) Co HILL Country/Memph Co 98000

.....P&A Wells 0 Repairs? \_\_\_\_\_ Which Wells? Memph

Issues: MUDLOG ? Test emp. CISCO Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_