BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

2012 MAY -8 P 1: 24

APPLICATION OF LIME ROCK RESOURCES II-A, LP FOR A SALT WATER DISPOSAL WELL, IN EDDY COUNTY, NEW MEXICO.

Case No. 14854

APPLICATION FOR SALT WATER DISPOSAL

Lime Rock Resources II-A, LP, by and through its undersigned attorney, applies for an order approving a salt water disposal well, and in support thereof, states:

- 1. Applicant seeks an order proposing to re-enter an existing plugged and abandoned wellbore, to convert to a salt water disposal its Oxy Peso #1, located 1650' FNL and 1850' FWL, Unit F, Section 24, Township 18 South, Range 27 East, N.M.P.M., Eddy County, New Mexico.
- 2. Applicant proposes to set a packer at 6650 feet below the surface of the earth and then inject into the Abo, Wolfcamp and Cisco formations at the following depths;

6,690' - 7,300' perforated; and, 7,300' - 9,200' open hole.

- 3. Attached hereto as Exhibit A is a data sheet which will comprise part of the C-108 which shall be submitted at hearing of this application.
 - 4. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, Applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

PADILLA LAW FIRM, P.A.

ERNEST L. PADILLA,

Attorney for Lime Rock Resources II-A, LP PO Box 2523 Santa Fe, New Mexico 87504 505-988-7577

EXHIBIT A

C-108 Application Lime Rock Resources II-A, L.P. Oxy Peso Well No. 1 API No. 30-015-34683 1650' FNL & 1850' FWL (Unit F) Section 24, T-18S, R-27E, NMPM Eddy County, New Mexico

- I. The purpose of the application is to request approval to convert the non-productive plugged and abandoned Oxy Peso Well No. 1 to a produced water disposal well in the Abo, Wolfcamp and Cisco formations.
- II. Lime Rock Resources II-A, L.P. ("Lime Rock")
 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 are schematic well diagrams showing the current and proposed wellbore configurations. Lime Rock proposes to re-enter this well, set 7" casing at a depth of 7,300 feet, cement this casing to a depth of 4,262 feet, and complete the well for injection through the perforated interval from 6,690 feet to 7,300 feet and open-hole interval from 7,300 feet to 9,200 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 Oxy Peso No. 1 is attached. Also attached is a more detailed map showing the ½-mile Area of Review ("AOR") for the Oxy Peso No. 1.
- VI. Area of review well data is attached. As shown in the table, there is only one well in the AOR of the Oxy Peso No. 1. The well data shows that the Wisetail State Com No. 1 is constructed so as to preclude migration of fluid from 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 1,338 psi. If a higher injection pressure is necessary, Lime Rock 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 Oxy Peso No. 1. Attached are produced water analysis from the Glorieta-Yeso formation originating from Lime Rock's Enron State, Kersey, Staley State

A and Staley State wells, and a produced water analysis from the Queen-Grayburg-San Andres formation originating from Lime Rock'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 Oxy Peso No. 1: i) the Empire-Abo Pool is located approximately two miles from the Oxy Peso No. 1; ii) the Travis-Wolfcamp and Chalk Bluff-Wolfcamp Pools are each located approximately two miles from the Oxy Peso No. 1; and, iii) the East Red Lake Upper-Penn Gas Pool is located approximately 1.5 miles from the Oxy Peso No. 1 (See attached pool maps). The Oxy Peso No. 1 was drilled to a total depth of 10,489 feet to test the Morrow formation and was reported to be a dry hole. The Abo, Wolfcamp and Cisco formations were also analyzed in this well and were deemed non-productive.
- VIII. The proposed injection interval lies between depths of 6,690 feet and 9,200 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 50 percent of the interval and generally providing for the better injection capacity. Their porosities range from 6% to 15% and average approximately 10%. The limestones are less porous but do offer some additional injection capacity with porosities ranging from 4% to 6%. 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 were filed at the time of drilling.
- XI. According to the State Engineer, there is only one fresh water will located within one mile of the Oxy Peso No. 1. The well is located in the SE/4 SE/4 of Section 14, T-18S, R-27 East, and was drilled in 1948 to a depth of 2,096 feet. Lime Rock has attempted to locate this well, but has been unable to do so. The well is likely plugged or no longer in use.
- XII. Affirmative statement is attached.
- XIII. Proof on notice is attached.

NMOCD Case No. <u>1485</u>4

Application of Lime Rock Resources II-A, LP, for approval of a salt water disposal well, Eddy County, New Mexico; Applicant seeks an order proposing to re-enter an existing plugged and abandoned wellbore, to convert to a salt water disposal its Oxy Peso #1, located 1650' FNL and 1850' FWL, Unit F, Section 24, Township 18 South, Range 27 East, N.M.P.M., Eddy County, New Mexico. The well is located approximately 16 miles southeast of Artesia, New Mexico.

DATE IN SUSPENSE SHOUNTER LOGGED H TYPE APP NO

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NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



Case 14854

ADMINISTRATIVE APPLICATION CHECKLIST

		AUMINIS RAILWEAL	PRICATION CHECKLIST
71	HIS CHECKLIST IS A		PLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS 3 AT THE DIVISION LEVEL IN SANTA FE
Applic	ation Acronym	FOR PERMISSION TO COME A CONTROL OF CONTROL OF CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONT	
	(DHC-Dow [PC-Pe	mhole Commingling] [CTB-Leas pol Commingling] [OLS - Off-Lea [WFX-Waterflood Expansion] [[SWD-Sait Water Disposal]	ard Proration Unit] [SD-Simultaneous Dedication] o Commingling] [PLC-Pool/Lease Commingling] use Storage] [OLM-Off-Lease Measurement] PMX-Pressure Meintenance Expansion] [[PI-injection Pressure Increase] tification] [PPR-Positive Production Response]
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	[A]	Location - Spacing Unit - Simul	
	Checl [B]	c One Only for [B] or [C] Commingling - Storage - Measur DHC CTB PLC	rement PC OLS DUM
	[C]	Injection - Disposal - Pressure In WFX PMX SW	crease - Enhanced Oil Recovery D
	[D]	Other: Specify	
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check T Working, Royalty of Overri	hose Which Apply, or Does Not Apply ling Royalty Interest Owners
	[B]	Offset Operators, Leasehold	ers or Surface Owner
	[C]	Application is One Which R	equires Published Legal Notice
	[D]	Notification and/or Concurry U.S. Bureau of Land Management - Comm	ent Approval by BLM or SLO issioner of Public Lands, State Land Office
	[E]	For all of the above, Proof o	f Notification or Publication is Attached, and/or,
	(F)	☐ Waivers are Attached	
[3]		CURATE AND COMPLETE IN ATION INDICATED ABOVE.	FORMATION REQUIRED TO PROCESS THE TYPE
	al is accurate a		ormation submitted with this application for administrative wledge. I also understand that no action will be taken on this s are submitted to the Division.
	Note	Statement must be completed by an inc	lividual with managerial and/or supervisory capacity.
	<u>Sibley</u> Type Name	V) Brid Shley Signature	<u>Production Engineer</u> Title
		5 - 7 - 12. Date	<u>dsibley@limerockresources.com</u> E-Mail Address

Case 14854

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

Lime Rock Resources II-A, L.P.

Oxy Peso No. 1

API No. 30-015-34683

1650' FNL & 1850' FWL, Unit F Section 24, T-18S, R-27E, NMPM,

Eddy County, New Mexico

Dear Ms. Bailey,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) for the Lime Rock Resources II-A, L.P. ("Lime Rock") Oxy Peso Well No. 1. Lime Rock proposes to re-enter this non-productive plugged and abandoned well and convert it to a produced water disposal well, injection to occur into the Abo, Wolfcamp and Cisco formations through the perforated interval from 6,690 feet to 7,300 feet and open-hole interval from 7,300 feet to 9,200 feet. Produced water from the Glorieta, San Andres, Grayburg, Queen and Yeso formations originating from Lime Rock operated wells in this area will be injected into the well.

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

Sincerely,

David Sibley

Production Engineer

Lime Rock Resources II-A, L.P.

1111 Bagby Street, Suite 4600

Houston, Texas 77002

Xc: OCD-Artesia

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 1485 4 FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

1.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: Lime Rock Resources II-A, L.P. (OGRID-277558)
	ADDRESS: 1111 Bagby Street, Suite 4600 Houston, Texas 77002
	CONTACT PARTY: David Sibley, Production Engineer PHONE: (713) 345-2134
m.	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.	ls this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
v.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.):
• VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
•xi.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
хп.	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: 1) Our Silvery DATE: 5-7-12
•	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:

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.

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 Lime Rock Resources II-A, L.P. Oxy Peso Well No. 1 API No. 30-015-34683 1650' FNL & 1850' FWL (Unit F) Section 24, T-18S, R-27E, NMPM Eddy County, New Mexico

- I. The purpose of the application is to request approval to convert the non-productive plugged and abandoned Oxy Peso Well No. 1 to a produced water disposal well in the Abo, Wolfcamp and Cisco formations.
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- V. A map showing all wells/leases within a 2-mile radius of the Oxy Peso No. 1 is attached. Also attached is a more detailed map showing the ½-mile Area of Review ("AOR") for the Oxy Peso No. 1.
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- 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.
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A and Staley State wells, and a produced water analysis from the Queen-Grayburg-San Andres formation originating from Lime Rock's Jeffery 1 and 36 State wells.

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- IX. Proposed to acid stimulate the injection interval as needed.
- X. Logs were filed at the time of drilling.
- XI. According to the State Engineer, there is only one fresh water will located within one mile of the Oxy Peso No. 1. The well is located in the SE/4 SE/4 of Section 14, T-18S, R-27 East, and was drilled in 1948 to a depth of 2,096 feet. Lime Rock has attempted to locate this well, but has been unable to do so. The well is likely plugged or no longer in use.
- XII. Affirmative statement is attached.
- XIII. Proof on notice is attached. Oxy USA, Inc. is the only offset operator, and COG Operating, LLC is the surface owner of the land on which the well is located. The remaining parties that received notice are working interest owners within the ½-mile notice area. All are shown on the attached list.

INJECTION WELL DATA SHEET

OPERATOR: Lime Rock Resources II-A L.P.		
WELL NAME & NUMBER: Oxy Peso No. 1	(API No. 30-015-34683)	
WELL LOCATION: 1650' FNL & 1850' FWL	F 24	· · · · · · · · · · · · · · · · · · ·
FOOTAGE LOCATION	UNIT LETTER SECTI	ON TOWNSHIP RANGE
WELLBORE SCHEMATIC	· · · · · · · · · · · · · · · · · · ·	RUCTION DATA e Casing
See Attached Wellbore Schematic	Hole Size: 17 1/2"	Casing Size: 13 3/8" @ 427'
	Cemented with: 450 Sx.	orft ³
	Top of Cement: Surface	Method Determined: Circulated
	Intermed	iate Casing
	Hole Size: 12 1/4"	Casing Size: 9 5/8" @ 2,502'
	Cemented with: 950 Sx.	ft ³
	Top of Cement: Surface	Method Determined: Circulated
	Produc	tion Casing (Proposed)
	Hole Size: <u>8 3/4"</u>	Casing Size: 7" @ 7,300'
	Cement with: 385 Sx.	orft ³
	Top of Cement: 4,262'	Method Determined: Proposed
	Total Depth: 10,489'	PBTD: 9,200'
	Injection I	nterval

Perforated: 6,690'-7,300' Open Hole: 7,300'-9,200'

INJECTION WELL DATA SHEET

Tubin	g Size:	4 1/2"	Lining Material:	Duoline Fiberglass Coated	
Туре	of Packer:	Arrowset 1X or similar ty	pe injection packer		
Packe	r Setting Deptl	n: 6,650' or within 10	00' of the uppermost in	njection perforations	
Other	Type of Tubin	g/Casing Seal (if applicable):	None		
		Additi	ional Data		
1.	Is this a new	well drilled for injection:	Yes	s <u>X</u> No	
					
2.	Name of the	Injection Formation: Abo	o, Wolfcamp and Cisco	o Formations	
3.	Name of Fiel	d or Pool (if applicable): There a	re no Abo, Wolfcamp	or Cisco pools in Section 24.	
4.		Bopth:			
	None.				
5.	Give the namin this area:	ne and depths of any oil or gas zone	s underlying or overlyi	ing the proposed injection zone	
	East. The su	bject well is located approximately	2 miles from the Empir	ire-Abo Pool, approximately 2 miles from the	Chal

Pool.



TD: 10,489' 2/4/07

Well Name	Oxy Peso #1	
API#	30-015-34683	
Field	,	

Twn	18	S	1,650	N
Rge	27	E	1;850	W
Lat				

feet from

Sec 24

County Eddy State NM From 3,579

Long

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T.C	372'		٠.
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TUBULAR DATA								
Tubular	Size	Weight	Grade	Thread	TVD	MD	TOC	
Conductor								
Surface	13 3/8	48#	H40	ST&C	-427			
Intermediate		an the area						
Production	9 5/8	. 36	J-55	LT&C	2,502			
Tubing								
		C	EMENT	DATA				
	L/sks	Yield	Weight	T/sks	Yield	Weight	XS	
Conductor								
Surface		-						
Intermediate								
Production								

GL

FLUID / PROP

415700000000000		PERFERATION DATA						
KOP		Formation	Тор	From	S/F	То	Holes	
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LDEV								
PERF								
RTV								
TVD	MD							
San Arra Store Charles								
	10,489							
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GEOLOGY		SURVEY			
Formation	Depth	Dev	Depth	Dev	Depth
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Date 3/6/2012 Prep by

Comments



TD: 10,489' 2/4/07

Well Name	Oxy Peso #1	
API #	30-015-34683	. •

Sec	24		feet fro	om
Twn	18	S	1,650	Ν
Rge	27	E	1,850	٧

County	Eddy
Elevation	

State NM From

OPOSED	County evation
STALL TO DESCRI	
12/27/06 13 3/8 48# H-40 ST&C @ 427 450sx circ 100	SX .
	' - '
1/27/07 9 5/8" 36# J-55 LT&C @ 2502' 950sx circ 200sx	
Calculated TOC = 4,262' with 50% excess	
•	
4 1/2" Coated Injection Tubing	
Packer @ 6,650'	
December 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Proposed perforated Injection Interval 6690-7300' 7" 26# L-80 LT&C @ 7300' 385sx	
/ 20# L-00 L10C @ / 300 3035X	
Clean out to 9200'	
Proposed Open Hole Injection Interval 7300-9200'	
The second of th	
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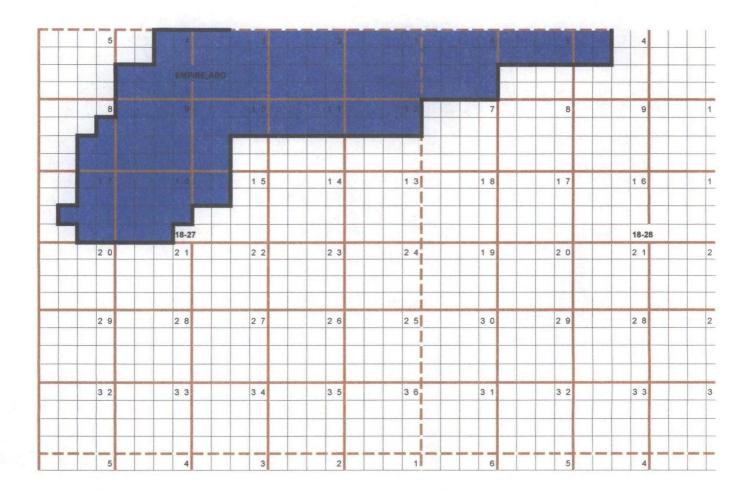
		- 11	BULAN	DAIA		·	·
Tubular	Size	Weight	Grade	Thread	TVD	MD	TOC
Conductor			2 ⁻ 1 2 2				
Surface	13 3/8	48#	· H40	ST&C	427		
Intermediate	9 5/8	36#	J-55	LT&C	2,502		
Production	7 ::	26#	L-80	LT&C	7,300		
Tubing	4 1/2"	12.75#	L-80	EUE	6,650		
		С	EMENT	DATA			
	L/sks	Yield	Weight	T/sks	Yield	Weight	XS
Conductor							

Intermediate		1	<u> </u>	
Production				
	F	LUID / PRO	P	

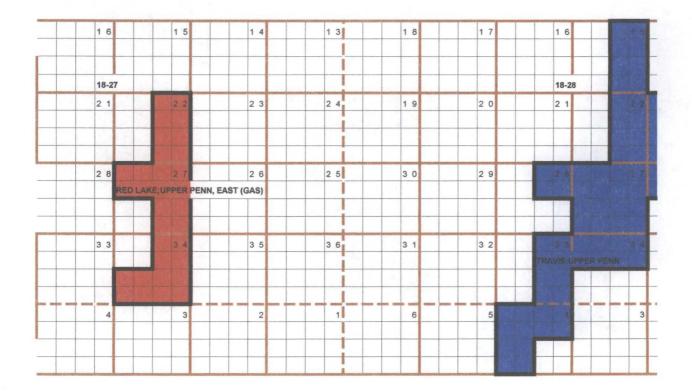
DIRECTIONAL	PERFERATION DATA														
КОР	Formation	Тор	From	S/F	То	Holes									
MAX DEV															
DL DEV															
V @ PERF															
RTV			\sim												
TVD MD	1														
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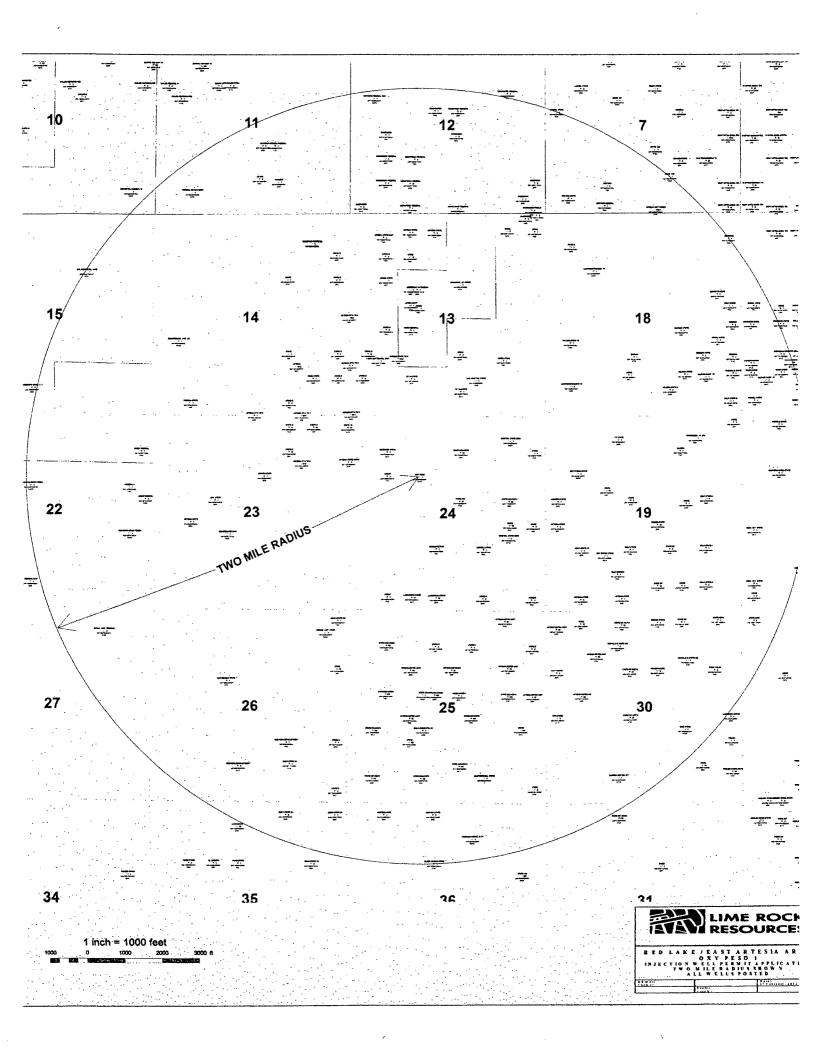
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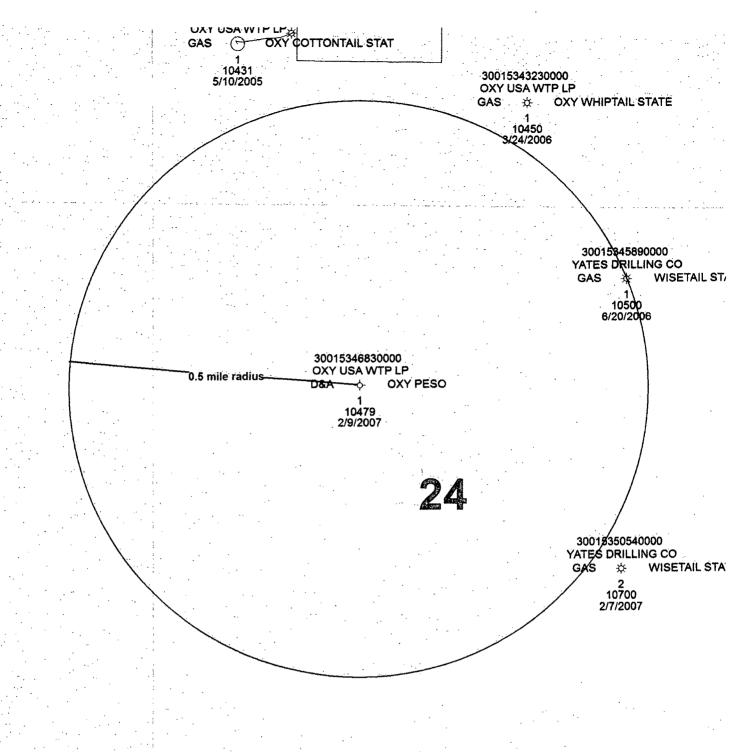
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LIME ROCK RESOURCES II-A, LP AREA OF REVIEW WELL DATA OXY PESO #1

Well Name	wa e	API	Operator	Sec La	n TWN	RdE	N/3 D#	E/W Dir	Well Type	Status	Spud Date	Surf Hole Size	Surf Cag Size	SX Crnt	смт тор	тос/мто	intermediate Hole Size	inter. FCsg Size	SX Cmt	CMT TOP	TOC/MTD	Prod. Hole Size	Prod. Cog Size	SX Cont	CMT TOP	TOC/MTD	J10	Perf	Pool
Wisetall State Corn #1	1	30-015-34589	Oxy USA Inc.	24 A	185	27E	660 FNL	990 FEL	Gas	Active	4/1/06	17 1/2"	13 3/8" @ 394'	400	surface	circulated 110 Sx	12 1/4"	9 5/8* @ 2520	925	surface	circulated 114 Sx	8 3/4"	5 1/2" @ 10,494'	1900	773*	calculated with 50% excess in open hole	10,500		Red Lake: Atoka - Morrow (83620)



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned.

C=the file is

closed)

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

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

(In feet)

POD

QQQ

Depth Depth Water Y Well Water Column

POD Number

RA 04048

Code Subbasin County 64 16 4 Sec Tws Rng

570841 3623030* 2096

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

PLSS Search:

Section(s): 13, 14

Township: 18S

Range: 27E

1 4 4 14 18S 27E

*UTM location was derived from PLSS - see Help

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



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

No records found.

PLSS Search:

Section(s): 23, 24, 25, 26 Township: 18S Range: 27E



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

No records found.

PLSS Search:

Section(s): 18, 19 Township: 18S Range: 28E

Ġ	•	MF	LE

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

19.

1.	Ph	5.600
2.	Specific Gravity 60/60 F.	1,138

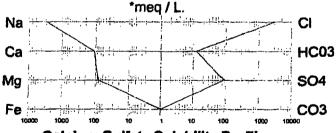
2.	Specific Gravity 6	60/60 F.	1.1	.38		
3.	CACO3 Saturatio	n index	@ 80F	-0.530	Negligible	
			@140F	0.410	Mild	
4	Dissolved Gasses		•	MG/L.	EQ. WT.	*MEQ/L
4.	Hydrogen Sulfide			100		
5 .	Carbon Dioxide			80		
6.	Dissolved Oxyger	1		Not Determined		
	Cations					
7. ¯	Calcium	(Ca++)		2,166	/ 20.1 =	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		
-	Anions					
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
5.	Chloride	(CI-)		103,977	/ 35.5 =	2,928.93
16.	Total Dissolved So	olids		177,411		
17.	Total Iron	(Fe)		1.50	0 / 18.2 =	0.08
18.	Manganese	(Mn++)		Not Determined		

Manganese (Mn++) Not Determined
Total Hardness as CaCO3 9,408

20. Resistivity @ 75 F. (Calculated)

0.017 Ohm · meters

LOGARITHMIC WATER PATTERN



4732	<u>:</u>		<u> </u>		· · · · · · · · · · · · · · · · · · ·	
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4668			. 			

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

PROBABLE MINERAL COMPOSITION

* milliequivalents per Liter

58.46

165,987

2,839.33

Tony Abernathy, Analyst

NaCl

	_					
Lease Well N Locati	D.: LimeRock Restricted in the control of the contr	esources		Date Analyzed Lab ID Numbe Salesperson:		•
Attent				File Name : Ju	112870.007	
ANALY	<u>sis</u>					
1.	Ph		5.600			
2.	Specific Gravit	ty 60/60 F.	1.133			
3.	CACO3 Satura		@ 80F	-0.527	Negligible	
			@140F	0.463	Mild	
D	issolved Gasse	28	G 1 101	MG/L.	EQ. WT.	*MEQ/L
4.	Hydrogen Sulf			0		
5.	Carbon Dioxid			90		
6.	Dissolved Oxy		No	ot Determined		
	ations	6				
7.	Calcium	(Ca++)		1,884	/ 20.1 =	93.73
8.	Magnesium	(Ca++) (Mg++)		1,428	/ 12.2 =	117.05
9.	Sodium	(Na+)	(Calculated)	67.431	/ 23.0 =	2,931.78
9. 10.	Barium	(Na+) (Ba++)		or,431 of Determined	7 25.0 -	2,331.70
		(Datt)	140	ot Determined		
	<u>nions</u>			_		
11.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)		703	/ 61.1 =	11.51
14.	Sulfate	(SO4=)		4,200	/ 48.8 =	86.07
5.	Chloride	(CI-)		107,976	/ 35.5 =	3,041.58
16.	Total Dissolved	l Solids		183,622		
17.	Total Iron	(Fe)		1.50	/ 18.2 =	80.0
18.	Manganese	(Mn++)	No	t Determined		
19.	Total Hardness	as CaCO3		10,584		
20.	Resistivity @ 7	5 F. (Calculated	3)	0.01	2 Ohm · meters	
	LOCADITUS			200	BABLE MINERAL (COMPOSITION
	LOGARIIR	IIC WATER PA	HERN	COMPOUN		
Mo		*meq / L.	CI	Ca(HCO3)2		EQ. WT. = mg/L. 81.04 932
iva			Cl	CaSO4	82.23	68.07 5,597
Ca	·		НС03		0.00	55.50 0
Va			11000	Mg(HCO3)2		73.17
Mg	,		SO4	MgSO4	2 0.00 3.84	60.19 231
3				MgCl2	113.21	47.62 5,391
Fe			CO3	NaHCO3	0.00	84.00
1			00 1000 10000	NaSO4	0.00	71.03
		fate Solubility	Profile	NaCl	2,928.37	58.46 171,192
	4995	7		11401	* milliequivalents	
m	4990				irimoquiremonia (F
9	4980					
1	4975		/			
L	4965					
	4960		<u>i</u>			-
	4955			Tony Aberna	athy, Analyst	
	Temp °F, 50 70	9 0 110 130	150 170			

S"MPLE

I 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 -0.400Negligible 0.590 Mild @140F **Dissolved Gasses** EQ. WT

4.	Hydrogen Sulfide	30
5.	Carbon Dioxide	100
6.	Dissolved Oxygen	Not Determined
9	<u>Cations</u>	

	nione			•		
10.	Barium	(Ba++)		Not Determined		
9.	Sodium	(Na+)	(Calculated)	69,530	/ 23.0 =	3,023.04
8.	Magnesium	(Mg++)		971	/ 12.2 =	79.59
7.	Calcium	(Ca++)		2,072	/ 20.1 =	103.08

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-)	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		

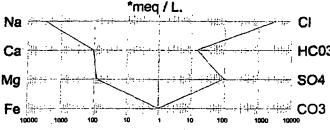
Total Hardness as CaCO3 19. 20.

Resistivity @ 75 F. (Calculated)

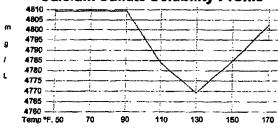
0.009 Ohm meters

9,173

LOGARITHMIC WATER PATTERN



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

*MEQ/L

LUCDADEL MULTIME COMPACTION										
COMPOUND	meg/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	17	76,514					
* milliequivalents per Liter										

Tony Abernathy, Analyst

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1 Co.: LimeRock Resources

_ase : Kersey Well No.: ST Location: Attention:

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

Negligible

EQ. WT.

*MEQ/L

Salesperson:

-0.496

File Name: Jul2810.001

ANALYSIS

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

@140F 0.494 Mild **Dissolved Gasses** MG/L Hydrogen Sulfide 30 Carbon Dioxide 50 5.

Not Determined Dissolved Oxygen

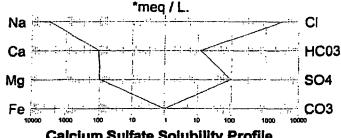
9	<u>Jations</u>					
7.	Calcium	(Ca++)		2,072	/ 20.1 =	103.08
8.	Magnesium	(Mg++)		1,143	/ 12.2 =	93.69
9.	Sodium	(Na+) ((Calculated)	69,836	/ 23.0 =	3,036.35
10.	Barium	(Ba++)		Not Determined		
<u> </u>	Anions					
11.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)		686	/ 61.1 =	11.23
14.	Sulfate	(SO4=)		4,500	/ 48.8 =	92.21
5.	Chloride	(CI-)		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		

(Mn++)18. Manganese 19. **Total Hardness as CaCO3**

20. Resistivity @ 75 F. (Calculated) 0.008 Ohm · meters

9,879

LOGARITHMIC WATER PATTERN



4810		
4805	<u> </u>	
		<u> </u>
4795		
4790	<u> </u>	
4785		1
4780		<u> </u>
4775 -		<u>/</u>
4770		
4765		
4760]	•

PROBABLE MINERAL COMPOSITION

PRUD	able Miner	AL L	うしましつつご	IUN	
COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	11,23		81.04		910
CaSO4	91.86		68.07	(5,253
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	7,293
	* milliequivale	ents p	er Liter		•

Tony Abernathy, Analyst

54	M	P	LE

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:

26,814

File Name: Jul2810.003

ANALYSIS

1.	Ph	5.500
2 .	Specific Gravity 60/60 F.	1.178

3. **CACO3** Saturation Index @ 80F -2.905 Negligible @140F -1.145 Negligible **Dissolved Gasses** EQ. WT. MG/L Hydrogen Sulfide Carbon Dioxide 5. 0

6. Dissolved Oxygen Not Determined

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		•

		(/			
E	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
i.	Chloride	(CI-)	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		

18. Manganese 19. Total Hardness as CaCO3

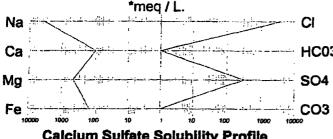
20. Resistivity @ 75 F. (Calculated)

0.001 Ohm meters

PROBABLE MINERAL COMPOSITION

*MEQ/L

, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		'		
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
	* milliequivale	ents	per Liter	



Calcium Sulfate Solubility Profile

	4820						
							7.
	4802						
171	4784						
	4766						
8	4748						
1	4730				_/		<u> </u>
	4712			<u>-</u>		!	
L	4894						
	4676						
	4658		1 /				1
	4640			· · · · · ·			
	Temp °F, 50	70	90	110	130	150	170

Tony Abernathy, Analyst

MPLE Co.: Lime Rock Resources Date Sampled: 15-July-2010 Date Analyzed: 28-July-2010 Lease : Staley ST A Lab ID Number: Jul2810.003-5 Well No.: Location: Salesperson: File Name: Jul2810.003 Attention: **ANALYSIS** 1. 5,600 2. Specific Gravity 60/60 F. 1.118 **CACO3 Saturation Index** 3 -0.204@ 80F Negligible @140F 0.716 Moderate **Dissolved Gasses** MG/L EQ. WT. *MEQ/L 4. Hydrogen Sulfide 80 5. Carbon Dioxide 160 **Dissolved Oxygen** 6. Not Determined **Cations** 7. / 20.1 =168.71 Calcium 3.391 (Ca++) / 12.2 = Magnesium (Mg++) 1,371 112.38 8. 9. 58.430 / 23.0 =2,540,44 Sodium (Na+) (Calculated) 10. Barium (Ba++) **Not Determined Anions** 0.00 / 17.0 = 11. Hydroxyl (OH-) 0 12. Carbonate (CO3=)0 / 30.0 =0.00 / 61.1 = 17.35 1.060 13. **Bicarbonate** (HCO3-) 3,400 / 48.8 = 69.67 14. Sulfate (SO4=) / 35.5 = 2,731.77 Chloride 96,978 j. (CI-) 16. **Total Dissolved Solids** 164,630 18.00 / 18.2 = 0.99 Total Iron 17. (Fe) 18. Manganese (Mn++)**Not Determined** 19. Total Hardness as CaCO3 14.113 0.027 Ohm · meters 20. Resistivity @ 75 F. (Calculated) LOGARITHMIC WATER PATTERN PROBABLE MINERAL COMPOSITION COMPOUND *meg/L Х EQ. WT. = mg/L. *meq / L. 81.04 Ca(HCO3)2 17.35 1,406 CI Na CaSO4 68.07 4,743 69.67 **HC03** Ca : 55.50 CaC₁₂ 81.69 4.534 Mg(HCO3)2 0.00 73.17 0 **SO4** Mg # MgSO4 0.00 60.19 0 MaCI2 112.38 47.62 5.351 Fe : CO₃ NaHCO3 0.00 84.00 Ð 10 NaSO4 0.00 71.03 0 **Calcium Sulfate Solubility Profile** NaCl 2.537.71 58.46 148.355 3750 3744 * milliequivalents per Liter 3738 3732 3726 3720

Tony Abernathy, Analyst

Temp *F. 50

90

7D

110

130

150

170

Form C-108 Affirmative Statement Lime Rock Resources II-A, L.P. Oxy Peso No. 1 Section 24, T-18 South, R-27 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

Lime Rock Resources II-A, L.P.

Date

Form C-108
Lime Rock Resources II-A, L.P.
Oxy Peso Well No. 1 (API No. 30-015-34683)
1650' FNL & 1850' FWL (Unit F)
Section 24, T-18 South, R-27 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.

Lime Rock Resources II-A, L.P., 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 convert the Oxy Peso Well No. 1 (API No. 30-015-34683) located 1650' FNL & 1850' FWL (Unit F) of Section 24, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico to a produced water disposal well. 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 and open-hole interval from 6,690 feet to 9,200 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 1,338 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, Lime Rock Resources II-A, L.P. at (713) 345-2134.

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

TO: OFFSET OPERATORS/LEASEHOLD OWNERS/WORKING INTEREST OWNERS &

SURFACE OWNER

Re: Lime Rock Resources II-A. L.P.

Form C-108 (Application for Authorization to Inject)

Oxy Peso Well No. 1 API No. 30-015-34683

1650' FNL & 1850' FWL, Unit F, Section 24, T-18S, R-27E, 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 Lime Rock Resources II-A, L.P. ("Lime Rock") Oxy Peso 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. Lime Rock proposes to re-enter this non-productive plugged and abandoned well and convert it to a produced water disposal well, injection to occur into the Abo, Wolfcamp and Cisco formations through the perforated and openhole interval from 6,690 feet to 9,200 feet.

This application is being filed administratively, and is also being docketed for the Examiner Hearing scheduled for June 7, 2012. If the application qualifies, Lime Rock 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 7, 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 these applications 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 Lime Rock Resources II-A, L.P.

1111 Bagby Street, Suite 4600

Houston, Texas 77002

Enclosure

Lime Rock Resources II-A, L.P. Form C-108; Oxy Peso No. 1 ½ Mile Notice Area Ownership (Working Interest Owners Unless Otherwise Noted)

Section 13; S/2 SW/4, SW/4 SE/4 T-18-S, R-27-E, N.M.P.M. Eddy County, NM

Anadarko Petroleum Corporation 1201 Lake Robbins Drive The Woodlands, TX 77380

ZPZ Delaware I, LLC 2000 Post Oak Blvd., Suite 100 Houston, TX 77056

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

Oxy USA, WTP, LP 5 Greenway Plaza Houston, TX 77046

Apache Corporation 2000 Post Oak Blvd., Suite 100 Houston, TX 77056-4400

Yates Drilling Co 105 S Fourth St. Artesia, NM 88210

BP America Production Co. 501 Westlake Park Blvd. Houston, TX 77079

Section 14; SE/4 SE/4 T-18-S, R-27-E, N.M.P.M Eddy County, NM

Atlantic Richfield Company 1601 Bryan St. Dallas, TX 75201

Hondo Oil & Gas Co. P.O. Box 2208 Roswell, NM 88202

DeKalb Energy Co. 1625 Broadway, Suite 1300 Denver, CO 80202

Lime Rock Resources II-A, L.P. Form C-108; Oxy Peso No. 1 ½ Mile Notice Area Ownership (Page 2)

ABO Petroleum Corp. 105 South 4th St. Artesia, NM 88210

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

Lobos Energy Partners, LLC 3817 NW Expressway, Suite 950 Oklahoma City, OK 73112

Anadarko Production Corp. P.O. Box 1330 Houston, TX 77251-1330

Chevron USA 1301 McKinney Houston, TX 77010

Mark Chapman 4102 University Blvd. Houston, TX 77005

Devon Energy Corp. 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

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

Nearburg Exploration Co. 3300 North A St. Suite 8100 Midland, TX 79705

Mewbourne Oil P.O. Box 7698 Tyler, TX 75711

Exxon Company USA P.O. Box 2024 Houston, TX 77252-2024

Casper Oil Inc. 777 S. Wadsworth Blvd. Lakewood, CO 80226

Lime Rock Resources II-A, L.P. Form C-108; Oxy Peso No. 1 ½ Mile Notice Area Ownership (Page 3)

Summit Overseas Exploration Irongate 3, Suite 201 Lakewood, Co 80226

Yates Petroleum Corp. 105 S. 4th St. Artesia, NM 88210

Highlands Gas Corp. 5613 DTC Pkwy, Suite 850 Englewood, CO 80111

Michael G. Mooney 3310 Dentcrest Midland, TX 79705

B & H Properties 2410 Auburn Place Midland, TX 79705

Logan Royalties L TD P.O. Box 804 Midland, TX 79702

Randall Capps d/b/a Logan Royalties, LTD. P.O. Box 6025 Midland, TX 79704

Karen Capps P.O. Box 51943 Midland, TX 79710-1943

Domain Energy Finance Corp. P.O. Box 2229 Houston, TX 77252-2229

Mark L. Shidler 1010 Lamar St, Suite 500 Houston, TX 77002

Royalties Investor Group 4003 Compton Dr. Midland, TX 79707

BP America Production Co. 501 Westlake Park Blvd. Houston, TX 77079

Lime Rock Resources II-A, L.P. Form C-108; Oxy Peso No. 1 ½ Mile Notice Area Ownership (Page 4)

OXY USA WTP Limited Partnership #6 Desta Dr. Suite 6000 Midland, TX 79710

ZPZ Delaware, LLC. 2000 Post Oak Blvd. Suite 100 Houston, TX 77056

CBS Partners LTD. P.O. Box 2236 Midland, TX 79702

Alamo Permian Resources LLC 820 Gessner Rd. Suite 1650 Houston, TX 77024

Range Energy Finance Corp. P.O. Box 2229 Houston, TX 77252-2229

Western Development Co. 3255 Grace St. NM Washington, DC 20007

Phillips Petroleum Co. P.O. Box 7500 Bartlesville, OK 74005-7500

Domain Energy Corp. 16801 Greenspoint Park, Suite 200 Houston, TX 77060

Khody Land & Minerals Co. 3817 NW Expressway, Suite 950 Oklahoma, OK 73112

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

Mobile Producing Texas & New Mexico Inc. P.O. Box 2305 Houston, TX 77210-2305

Apache Corporation 2000 Post Oak Blvd., Suite 100 Houston, TX 77056-4400

Lime Rock Resources II-A, L.P. Form C-108; Oxy Peso No. 1 ½ Mile Notice Area Ownership (Page 5)

Exxon Mobil Corporation 5959 Las Colinas Blvd. Irving, TX 75039-4202

Section 23; E/2 NE/4, NE/4 SE/4 T-18-S, R-27-E, N.M.P.M. Eddy County, NM

Mobil Producing Texas & New Mexico Inc. P.O. Box 2443
Houston, TX 77210

CBS Partners, Ltd. P.O. Box 2236 Midland, TX 79702

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

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

Yates Petroleum 105 S Fourth St. Artesia, NM 88210

BP America Production Company P.O. Box 3092 Houston, TX 77235

Alamo Permian Resources, LLC 415 W. Wall St., Suite 500 Midland, TX 79701

Apache Corporation 2000 Post Oak Blvd., Suite 100 Houston, TX 77056-4400

Exxon Mobil Corporation 5959 Las Colinas Blvd. Irving, TX 75039-4202

Anadarko Petroleum Corporation 1201 Lake Robbins Drive The Woodlands, TX 77380

Lime Rock Resources II-A, L.P. Form C-108; Oxy Peso No. 1 ½ Mile Notice Area Ownership (Page 6)

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

Section 24; ALL sae SE/4 SE/4 T-18-S, R-27-E, N.M.P.M. Eddy County, NM

Mobil Producing Texas & New Mexico Inc. P.O. Box 2443
Houston, TX 77210

CBS Partners, Ltd. P.O. Box 2236 Midland, TX 79702

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

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

Yates Petroleum 105 S Fourth St. Artesia, NM 88210

BP America Production Company P.O. Box 3092 Houston, TX 77235

Alamo Permian Resources, LLC 415 W. Wall St., Suite 500 Midland, TX 79701

Apache Corporation 2000 Post Oak Blvd., Suite 100 Houston, TX 77056-4400

Exxon Mobil Corporation 5959 Las Colinas Blvd. Irving, TX 75039-4202

Lime Rock Resources II-A, L.P. Form C-108; Oxy Peso No. 1 ½ Mile Notice Area Ownership (Page 7)

Anadarko Petroleum Corporation 1201 Lake Robbins Drive The Woodlands, TX 77380

COG Operating, LLC (Surface Owner) 550 W Texas Ave., Suite 100 Midland, TX 79701

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

Canyon E&P Company 251 O'Connor Ridge Blvd., Suite 265 Irving, TX 75038

Bogle Ltd Company P.O. Box 460 Dexter, NM 77231

Yates Drilling Co 105 S Fourth St. Artesia, NM 88210

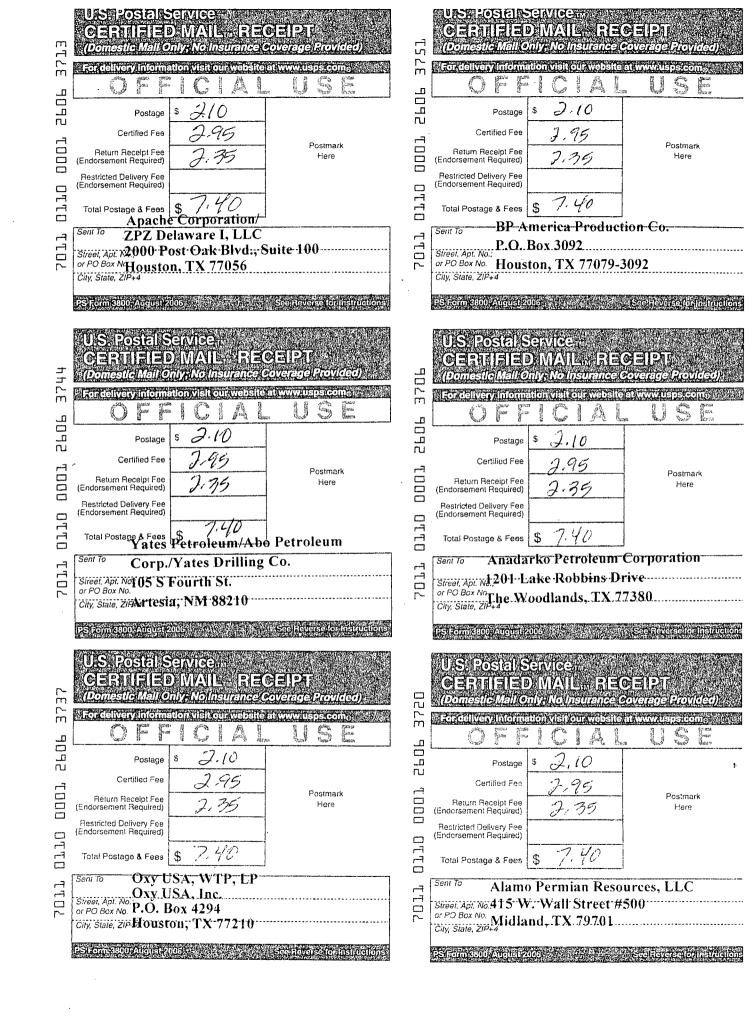
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ZPZ Delaware, LLC. 2000 Post Oak Blvd. Suite 100 Houston, TX 77056

OXY USA, WTP, LP (Offset Operator) #6 Desta Dr. Suite 6000 Midland, TX 79710

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