<u>District 1</u> 1625 N French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720 District II 811 S First St , Artesia, NM 88210

Phone (575) 748-1283 Fax (575) 748-9720 District III
1000 Rio Brazos Road, Aztec, NM 87410

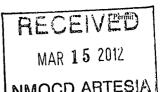
Phone (505) 334-6178 Fax (505) 334-6170 District IV

1220 S St Francis Dr , Santa Fe, NM 87505 Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico

Energy Minerals and Natural Resources

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



Form C-101 Revised December 16, 2011

NMOCD ARTESIA

API	LICA	TION FO	OR PERMI	ттс) DRII	L L, RE	-ENTE	ER, DEEF	PEN, PLUGB	ACK, O	OR ADD A ZONE	
			Operator Name	and Add	lress		•			OGRID N 28199	lumber	
LRE Operating, LLC, 1111 Bagby Street, Suite 4600, Houston							Texas 77	002	30-0)/5 ^{API Nui}	mber 40064	
309	Role	,				Property N Wylie Sta	ame ate				° Well No. #3	
101	-O-WW				7	Surfac	e Loca	tion		l .		
UL - Lot A	Section 28	Township 17S	Range 28E	Lo	ot Idn	Feet fro	om	N/S Line N	Feet From 990	E/W Lin	e County EDDY	
	20	175	201	L	8	Pool In				E	EDD1	
Arto	Sin	· B	brietn	- 1/	5 50						96830	
7.17					Additi	onal W	ell Info	rmation		-	70000	
⁹ Work N			¹⁰ Well Type Oıl			11 Cable/Ro Rotary	-		12 Lease Type State	1	³ Ground Level Elevation 3630 5	
¹⁴ Mu N			15 Proposed Depth 3,650'			¹⁶ Format Yeso	ion	U	17 Contractor nited Drilling Inc		¹⁸ Spud Date 6/3/2013	
Depth to Groun	nd water:	40'	Dista	nce fron	n nearest f	resh water	well 391	Miles	Distance	to nearest su	rface water 9 Miles	
			19	Prop	osed (Casing	and Co	ment Pro	gram			
Туре	Hole	Size	Casing Size		Casing Weight/ft		Setting Depth		Sacks of	Cement	Estimated TOC	
Conductor	2	0"	14"		68 7		40 Ready		Mix	Surface		
Surface		134"	8 5/8"		24		425		300		Surface	
Production	77	7/8"	5 1/2"	17		3650		675	SX	Surface		
			, ,									
•				ng/Ce	ement]	Progra	m: Ado	litional C	omments			
See Attache	d Well P	lan Docum	entation									
				Propo	osed B	lowout	Prever	tion Prog	gram			
	Type		,	Working	g Pressure			Test Pre	sure Manufacturer			
	"XLT 11"			500	0 PSI			2000 F	PSI		National Varco	
I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to						,	OIL CONSERVATION DIVISION					
NMOCD guidelines □, a general permit □, or an (attached) alternative OCD-approved plan ☒.						ative	Approved	By [.]	/ n d		/	
Signature Sellah								1	. C-Sh	Dord		
Printed name. Robert S (Sid) Ashworth							Title.	60	POLOSIS	+		
Title: Production Engineer							Approved Date: 3/16/2012 Expiration Date: 3/16/2014					
E-mail Addres	s sashwo	rth@limerocl	cresources com					7				
Date: 3/12/12 Phone: 713-292-9526					Conditions of Approval Attached							

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

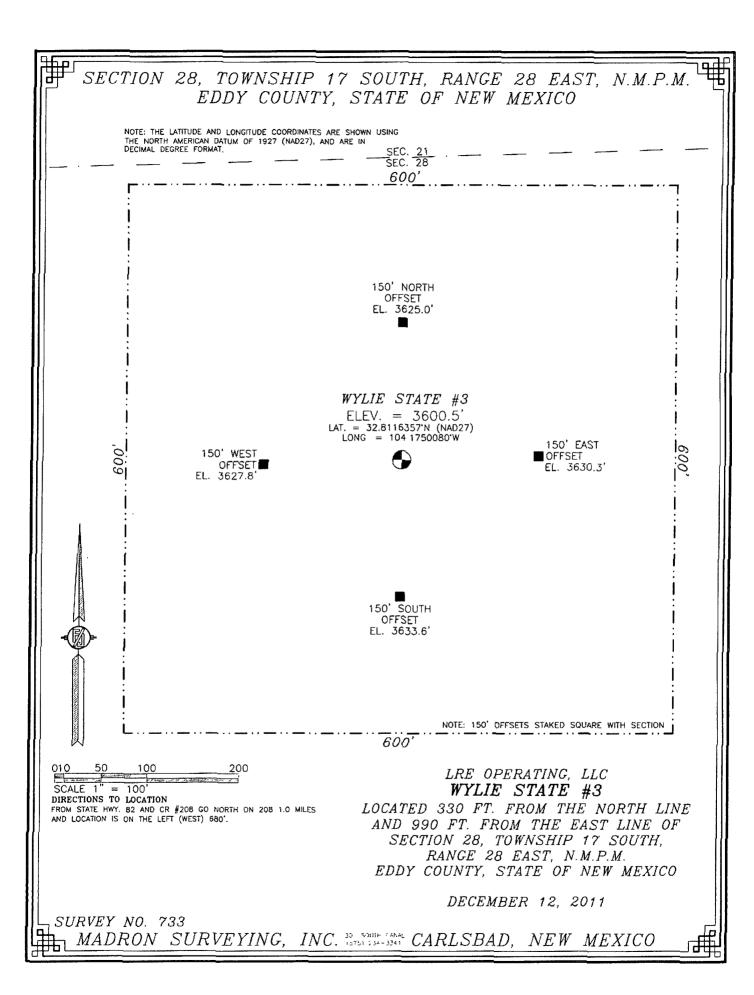
Form C-102 Revised October 15,2009 Submit one copy to appropriate District Office

☐ AMENDED REPORT

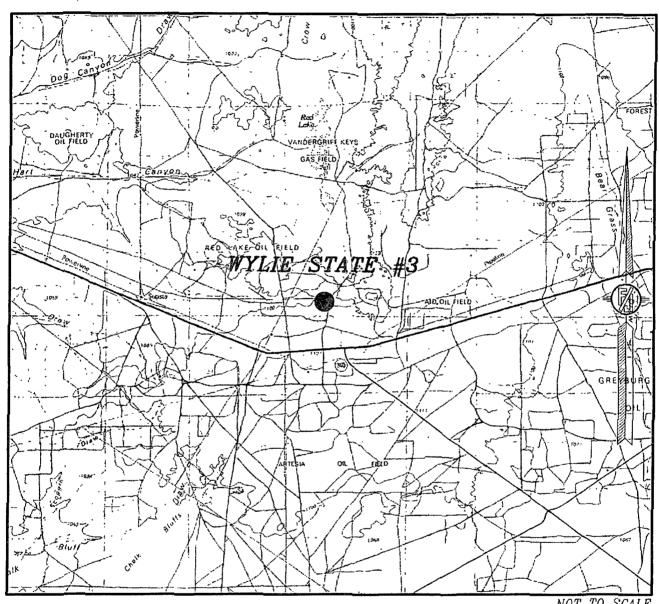
		Ŋ	ELL LO	OCATIO	N AND ACE	REAGE DEDIC	CATION PLA	AΤ		
API Number				² Pool Code		⁵ Pool Name				
² Property Code				⁵ Well Number						
					WYLIE S	TATE			3	
OGRID	No.		8 Operator Name							
28199	281994			. 1	ľ	3630.5				
					¹⁰ Surface	Location				
UL or lot no.	Section	fownship	Range	l.ot ldn	Feet from the	North/South line	Feet from the	East/West line	County	
A	28	17 S	28 E		330	NORTH	990	EAST	EDDY	
			" Bo	ttom Ho	e Location II	Different From	n Surface		-	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	Joint o	r Infill 14 C	onsolidation	Code 15 Or	der No.	<u> </u>			_1	

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.

NW CORNER SEC. 28 LAT. = 32.8122044*N LONG. = 104.1886742*W	N O CORNER SEC. 28 LAT. = 32/8124134'N LONG. = 104.1802224'W SURFACE LOCATION WYLIE STATE #3 ELEV. = 13630.5' LAT. = 32.8116357 N (NAD27) LONG. = 1104.1750080 W	990' NE CORNER SEC 28 LAT. = 32.8126237 N LONG = 104.1717729'W	17 OPERATOR CERTIFICATION I hereby cerufy that the information constrined become is true and complete to the best of im-knowledge and belief and that this originazation either owns a working interest or unlowed interest in the land including the proposed bottom hole location or has a right to drill this well at this location particular to a contract with an owner of such a invieral or working interest, or to a contract with an owner of such a invieral or working interest, or to a continuous pseuding order hereitifare emerced by the division.
W Q CORNER SEC. 28 -LAT: = -32-8050697·N LONG. = 104.1887821′W SW CORNER SEC 28 LAT = 32.7979286′N	NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27). AND ARE IN DECIMAL DEGREE FORMAT. S D CORNER SEC. 28	E Q CORNER SEC. 28	Printed Name SID SHANTI INSURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field white sign and surveys made by me or under my supervision, and that the same is true and correct to the best of my belief DECEMBER 12, 2011 Date of Survey Typing Paramillo, PIS 12797 SURVEY NO 733
LAT = 32.7979286N LONG. = 104.1888769W	LAT. = 32;7980996'N LONG. = 104.1804413'W	LAT. = 32.7982679'N LONG. = 104.1719713 W	



SECTION 28, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



NOT TO SCALE

LRE OPERATING, LLC WYLIE STATE #3

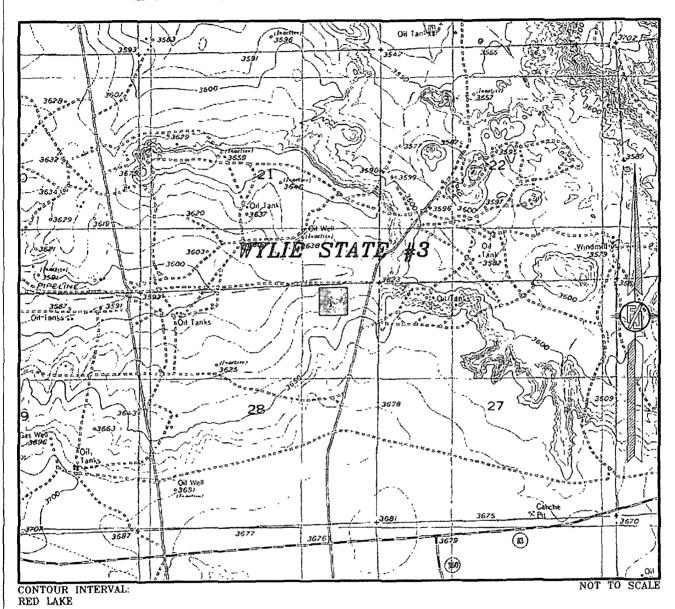
LOCATED 330 FT. FROM THE NORTH LINE AND 990 FT. FROM THE EAST LINE OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 12, 2011

SURVEY NO. 733

MADRON SURVEYING, INC. 30: SORIII: CALLEBAD, NEW MEXICO

SECTION 28, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



LRE OPERATING, LLC WYLIE STATE #3

LOCATED 330 FT. FROM THE NORTH LINE AND 990 FT. FROM THE EAST LINE OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 12, 2011

SURVEY NO. 733

MADRON SURVEYING, INC. 571 SQUID CANA CARLSBAD, NEW MEXICO

LRE Operating, LLC Drilling Plan

Wylie State #3 330' FNL 990' FEL A-S28-T17S-R28E Eddy County, NM

- 1. The elevation of the unprepared ground is 3630.5' feet above sea level.
- 2. The geologic name of the surface formation is Quaternary Alluvium
- 3. A rotary rig will be utilized to drill the well to 3650' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
- 4. Proposed total depth is 3650'.
- 5. Estimated tops of geologic markers:

Quaternary – Alluvium	Surface
Seven Rivers	706'
Queen	1226'
Grayburg	1666'
San Andres	1988'
Glorieta	3335'
Yeso	3444'
TD	3650'

6. Estimated depths at which anticipated oil, gas, or other mineral bearing formations are expected to be encountered:

Seven Rivers	706'
Queen	1226'
Grayburg	1666'
San Andres	1988'
Glorieta	3335'
Yeso	3444'
TD	3650'

7. Proposed Casing and Cement program is as follows:

Туре	Hole Size	Casing Size	Weight	Grade	Thread	Depth	Sacks	Density	Yield	Components
Conductor	20	14	68.7	В	Weld	40				Ready Mix to surface
Surface	12 1/4	8 5/8	24	J-55	ST&C	425	300	14.8	1.35	Cl C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Production	7 7/8	5 1/2	17	J-55	ST&C	3650	300	12.8	1.90	(35:65) Poz/Cl C Cmt + 5% NaCl + 0.125 lbs/sk Cello Flake + 5 lbs/sk LCM-1 +0.6% R-3 + 6% Gel
							375	14.8	1.33	Class C w/ 0.60% R-3 and 1/4 pps cello flake

8. Pressure Control Equipment

The blowout preventer equipment (BOP) will consist of a 2000 psi double ram type preventer, a bag-type (Hydril) preventer and rotating head. Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams on bottom. A 2M BOP will be installed on the 8 5/8" surface casing and utilized continuously until the depth is reached. All casing strings will be tested as per Onshore Order #2.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drilling logs.

The BOP equipment will consist of the following:

- -Annular preventers
- -Double ram with blind rams and pipe rams.
- -Drilling spool, or blowout preventer with 2 side outlets (choke side shall be a 3 inch minimum diameter, kill side will be at least 2 inch diameter)
- -Kill line (2 inch minimum)
- -A minimum of 2 choke line valves (2 inch minimum)
- -3 inch diameter choke line
- -2 kill valves, one of which will be a check valve (2 inch minimum)
- -2 chokes
- -pressure gauge on choke manifold
- -Upper Kelly cock valve with handle available
- -Safety valve and subs to fit all drill string connections in use
- -All BOPE connections subjected to well pressure will be flanged, welded, or clamped.
- -Fill-up line above the uppermost preventer.

9. Proposed Mud Program is as follows

Depth	0-425	425-3350	3350-3650		
Mud Type	Fresh Water	Brine	Brine w/ Gel & Starch		
Properties					
MW	8.5-9.2	9.9-10.2	9.9-10.2		
рН	10	10-11.5	10-11.5		
WL	NC	NC	15-10		
Vis	28-34	30-32	34-36		
MC	NC	NC	1		
Solids	NC	<1%	<2%		

10. Testing, Logging and Coring Program

Testing Program: No drill stem tests are anticipated.

Electric Logging Program: TD-Surface casing: GR-DLL, GR-CND. Surface casing set @

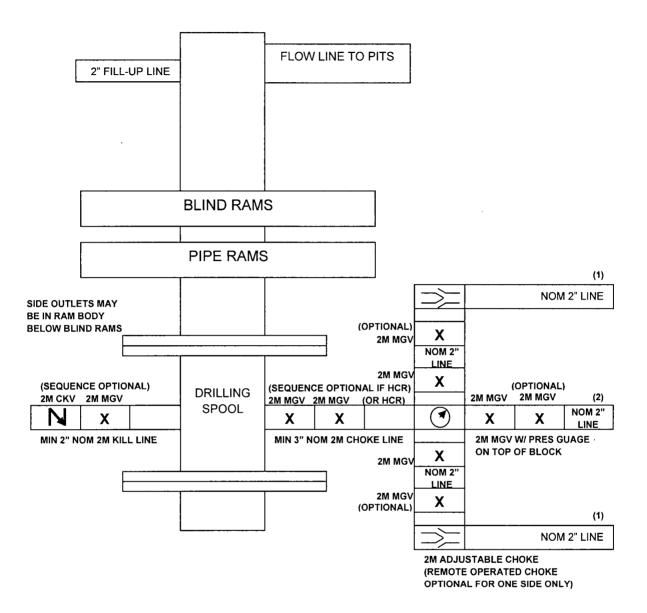
425': G/R/Neutron. Coring Program: None

11. Potential Hazards:

No abnormal temperatures or pressures are expected. There is no known presence of H2S in this area. If H2S is encountered the operatorwill comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 1606 psi based on $0.44 \times TD$. The estimated BHT is $114 \times TD$.

12. Duration of Operations:

Anticipated spud date will be soon after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 7 days. An additional 20 days will be needed it complete the well and to construct surface facilities.



- 1) Line to mud gas separator and/or pit
- (2) Bleed line to pit

MGV = Manual Gate Valve

CKV = Check Valve

HCR = Hydraulically Controlled Remote Valve

HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Lime Rock Resources personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Lime Rock Resources response must be in coordination with the State of New México's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S CONTINGENCY PLAN EMERGENCY CONTACTS

Company Office –Lim	e Rock Resources During Non-Office Hours)	713-292-9510 713-292-9555
Answering out the fi	Jumig Hon-Omoo Hours,	110-202-0000
Key Personnel		
	Title	Phone Number
Richard Ghiselin.	Production Engineer	Phone Number 713-345-2136 Cell: 218-507-0386
Mike Barrett	Production Supervisor	575-623-8424 Cell: 505-353-2644
Ambulance		911
State Police		575-746-2703
City Police		575-746-2703
Sheritt's Office		575-746-9888
Fire Department	nning Committeeervation Division	575-746-2701
Local Emergency Plan	nning Committee	575-746-2122
New Mexico Oil Cons	ervation Division	575-748-1283
Carlsbad		
Ambulance		911
State Police		575-8885-3137
City Police		575-885-2111
Fire Department		575-887-3798
Local Emergency Plan	nning Committee	575-887-6544
	anagement	
	cy Response Commission (Sar	
24 Hour	ergency Operations Center	505-827-9126
New Mexico State Em	ergency Operations Center	505-476-9635
National Emergency F	Response Center (Washington,	DC)800-424-8802
Other		
Boots & Coots IWC	R.	_800-256-9688 or 281-931-8884
Cudd PressureContro		_915-699-0139 or 915-563-3356
Halliburton		_575-746-2757 _575-746-2550
B. J. Services		_575-746-3569
	,	806-743-9911 806-747-8923
Aerocare – R3, Box 49	ir, Lubbock, rexas 2301 Yale Blyd SE #D3, Albuq.,	
•	• • • • • • • • • • • • • • • • • • • •	
9 D WII INIGO SELVICE -	2505 Clark Carr Loop SE, Albu	q., NM505-842-4949

LRE Operating LLC

Wylie State #3

UNIT A, S28-T17S-R28E, EDDY COUNTY, NM

Design: Closed Loop System with roll-off steel bins (pits)

CRI/HOBBS will supply (2) bins (100 bbl) volume, rails and transportation relating to the Close Loop System. Specification of the Closed Loop System is attached.

Contacts: Gary Wallace (432) 638-4076 Cell

(575) 393-1079 Office

Scomi Oil Tool: Supervisor – Armando Soto (432) 553-7979 Hobbs, NM

Monitoring 24 Hour service

Equipment:

Centrifuges – Derrick Brand Rig Shakers – Brandt Brand

D-watering Unit

Air pumps on location for immediate remediation process

Layout of Close Loop System with bins, centrifuges and shakers attached.

Cuttings and associated liquids will be hauled to a State regulated third party disposal site (CRI or Controlled Recovery, Inc.). The disposal site permit is DFP = #R9166.

2- (250 bbl) tanks to hold fluid 2-CRI bins with track system

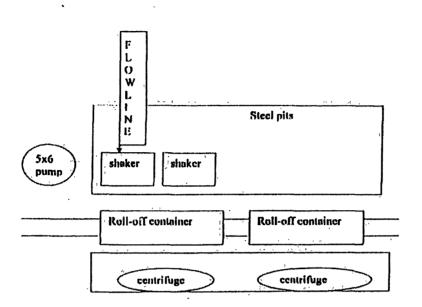
2-500 bbl frac tanks with fresh water 2-500 bbl frac tanks for brine water

Operations:

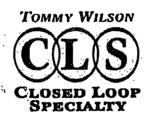
Closed Loop System equipment will be inspected daily by each tour and any necessary maintenance performed. Any leak in system will be repaired and/or contained immediately. OCD will be notified within 48 hours of any spill. Remediation process will start immediately.

Closure:

During drilling operations all liquids, drilling fluids and cuttings will be hauled off via CRI equipment to DFP #R9166.



This will be maintained by 24 hour solids control personnel that stay on location.



Office: \$75.746.1689

Cell: 575.748.6367