	, 1)									
District I 1625 N. French Dr.,	Hobbs, NM 88	240			State	of New Mo	exico			Form C-101 Revised July 18, 2013
Phone: (575) 393-6 District 11	161 Fax: (575)	393-0720		J	EnergyMinera	ls and Natu	ıral Resourc	es		Revised July 18, 2013
811 S. First St., Art Phone: (575) 748-12					Oil Con	servation I	Vivision			AMENDED Report
District_111_ 1000 Rio Brazos Ro						uth St. Fra				•
Phone: (505) 334-6										
<u>District IV</u> 1220 S. St. Francis Phone: (505) 476-3-					Santa	a Fe, NM 8	/505			
۸P	рі ісат	FION FO	D PERMI	г <b>т т</b> (	א דונער א Bil I'' B.	F-ENTER	> DEEPEI	N PLUGBA	CK OR	ADD A ZONE
	LICA		<sup>1</sup> Operator Nam	e and Add	ress				<sup>2</sup> OGRID Number 2775	
			Lime Rock Res v Street, Suite 4		II-A, L.P. ouston, Texas 77002	2		30-0	A Number	$\sqrt[n]{2}$
+ <b>P</b> r	perty Code		,		<sup>5</sup> Pronerty N				1 <u>0</u> "w	/oll No.
3148	332				Kais	ser 7 N				#5
						e Locatio				
UL - Lot	Section 7	Township 18S	Range 27E			From 90	N/S Line S	Feet From	E/W Line _ W	County
N	<u> </u>	185	2/E	8 Pr	oposed Bott			1650	vv	Eddy
UL - Lot	Section	Township	Range		A	From	N/S Line	Feet From	E/W Line	County
N	7	18S	27E		·	90	S	1650	W	Eddy
					9 Pool I	nformatio	on .			
Red Lake; Glo	rieta-Yeso									51120
				Α	dditional W					
۷ Worl ۱	к Туре Ј		<sup>10</sup> Well Type O		<sup>11</sup> Cable/F	Rotarv	12 L	ease Tvoe	. 13	Ground Level Elevation 3285.4
14 Mu			Proposed Depth		<sup>16</sup> Forma	ation		Contractor		<sup>18</sup> Soud Date
N Depth to Groun			MD / 4550' TV		Yes nearest fresh water					
Depui to Grean	u maior.	8 <sub>.</sub> F	rt.	ce nom			0.38 Mile	es Distance iron	l llearest surra	ce water: 0.18 Miles
X We will	be using a c	losed-loop syst	tem in lieu of li	ined pits	;					
			19	Prop	osed Casing	and Cem	ient Progra	am		
Туре	Hole	Size C	Casing Size		Casing Weight/ft		ing Depth	Sacks of Ce	ment	Estimated TOC
Conductor	20		20"	<u> </u>	91.5	80		80		Surface
Surface		1/4"	8-5/8"		24		425 35			Surface
Production		//8"	5-1/2"		17		4550	890		Surface
	1	<b>I</b>		g/Ce	ment Progra	<u></u>				-
				· ə· -					·	
			P	ropos	sed Blowout	Preventio	n Program	1		
	Туре		, v	Working	, Pressure		Test Pressure	e	N	Aanufacturer
	XLT 11"			50	000		2000		N	ational Varco
				-						
		-	bove is true and	complet	te to the best					
of my knowledg I further certif			h 19.15.14.9 (A	) NMAC	C and/or		OIL CO	NSERVATI	ON DIV.	ISION
19.15.14.9 (B)		-	x	/	· •	Approved By	v: m			
	1	/					£11	han		
Signature:	pon	57 LG				<u> </u>	<u> 100</u>	ver		
Printed Name:	V Spencer C	ox /				Title:	TAS	x peurs	N	
Title: Produc	tion Enginee	er				Approved Da	1105/20/15	Expi	ration Date:	5/20/2017
E-mail Addres	s: scox@li	imerockresourd	ces.com					I		

Conditions of Approval Attached

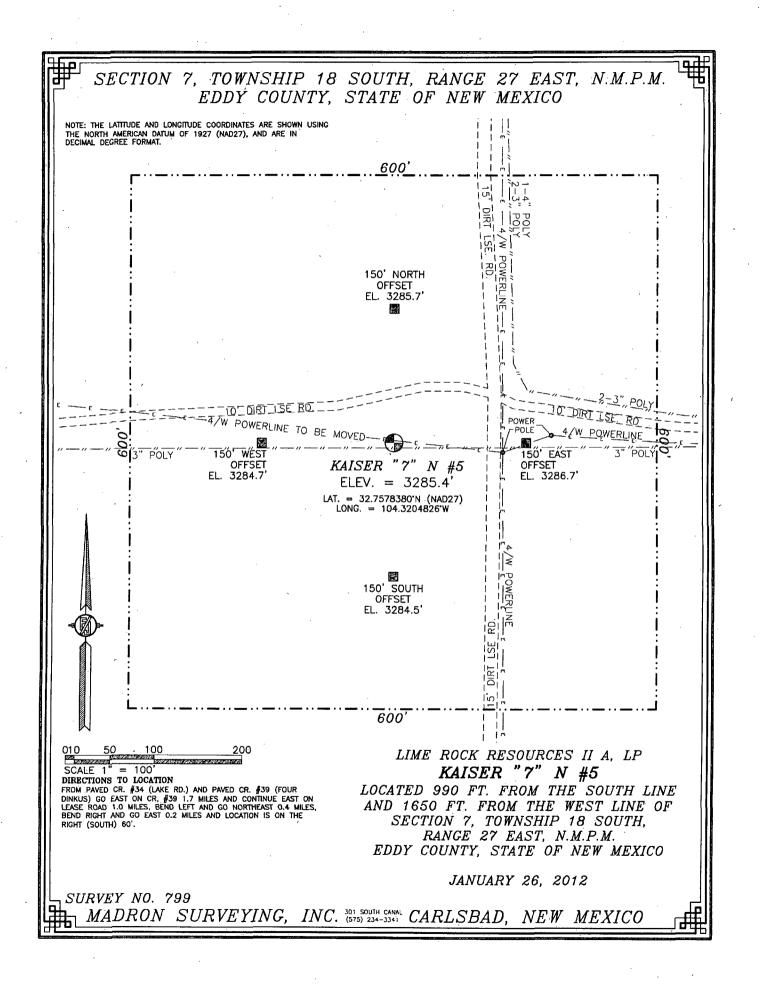
Date: 5/13/2015

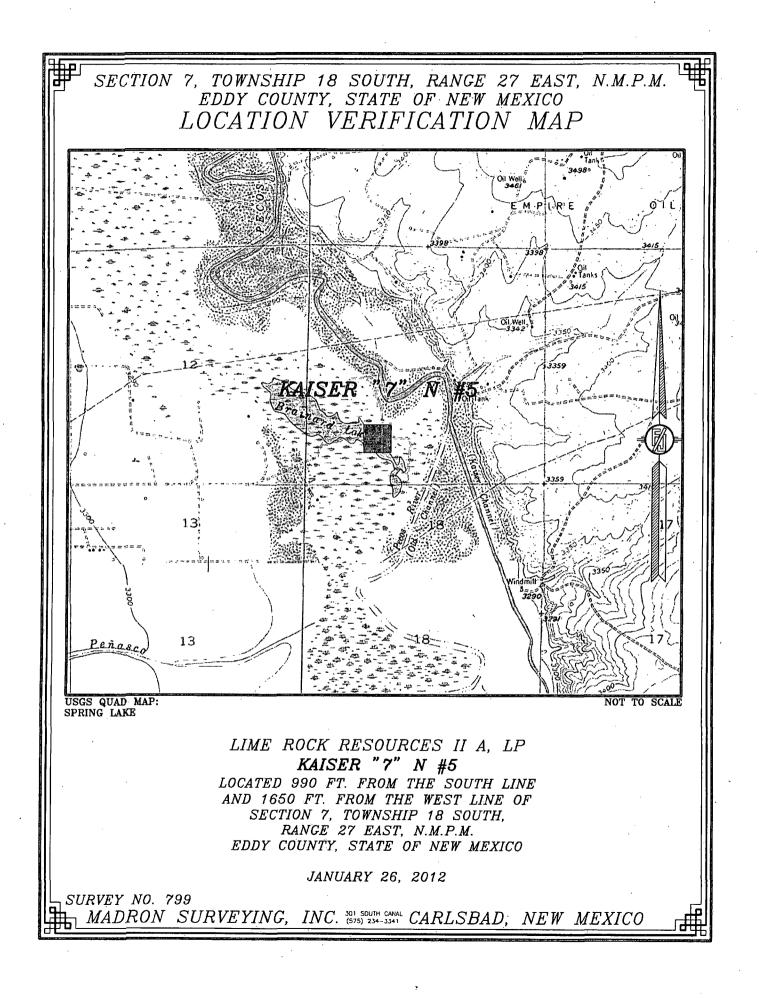
Phone: 713-292-9528

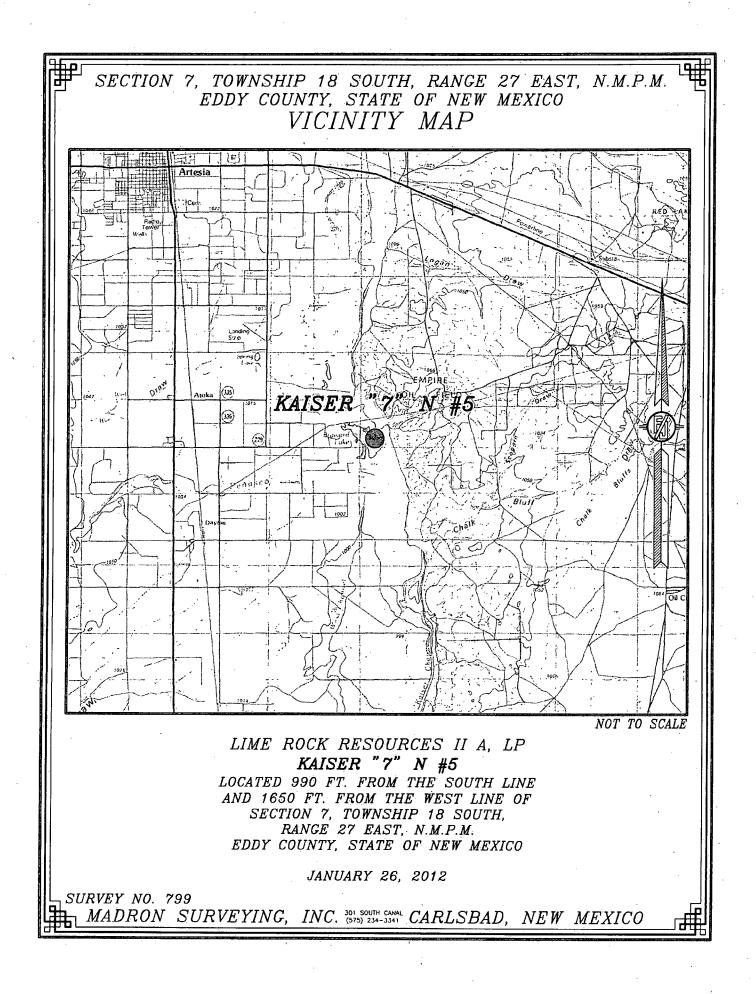
District I State of New Mexico Form C-102 1625 N. French Dr., Hobbs, NM 88240 Revised October 15,2009 Energy, Minerals & Natural Resources Department District II Submit one copy to appropriate 1301 W. Grand Avenue, Artésia, NM 88210 **OIL CONSERVATION DIVISION** District III **District Office** 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 AMENDED REPORT District IV Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT 2 Pool Code Well Number **Property Name** KAISER "7" N 5 Operator Name Elevation 277558 LIME ROCK RESOURCES II A, LP 3285.4 Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Ν 7 18 S 27 E 990 SOUTH 1650 WEST EDDY "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 Joint or Infill **Consolidation Code** Order No.

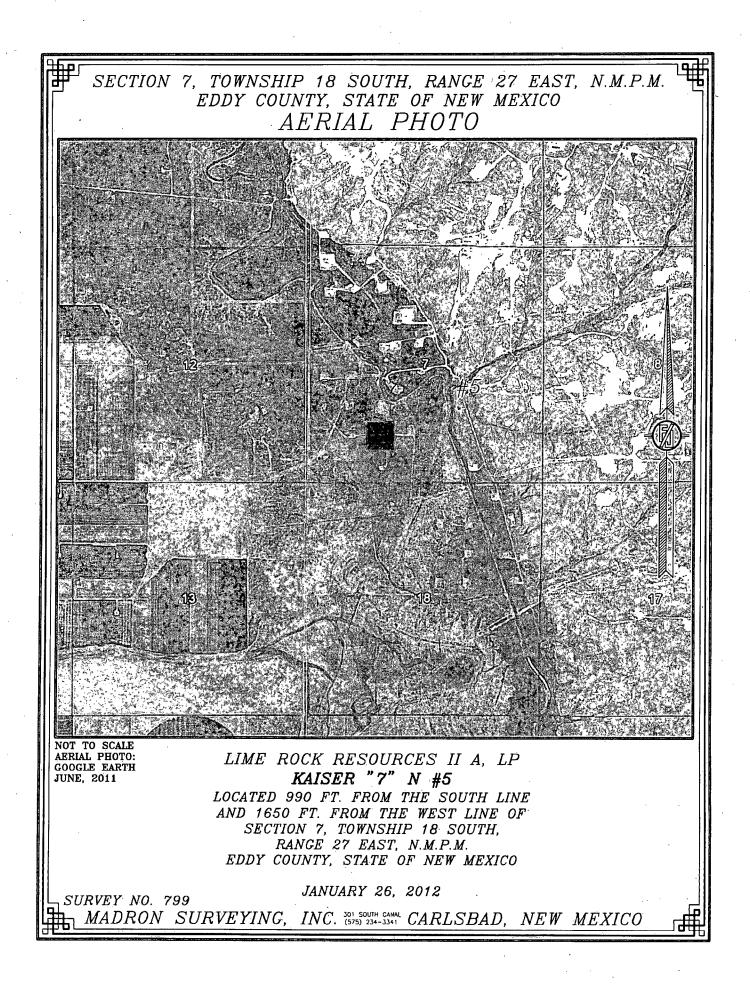
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 7 LAT. = 32.7697073'N LONG. ≕ 104.3258587'W	NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27), AND ARE IN DECIMAL DEGREE FORMAT.		NE CORNER SEC. 7 LAT. = 32.7694492'N LONG. = 104.3085085'W	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drift this well at this location prostant to a contract with an owner of such a mineral or working interest, or to a volumary pooling agreement or a commulsory pooling order
······································	 	 	<b></b>	heretofore entered by the division.
				Sherron Leg 5-13-15 Signature Date
-		 		Printed Name Sponcer Construction <sup>18</sup> SURVEYOR CERTIFICATION <i>Thereby certify that the well location shown on this plat</i>
<i>KAISER "7" N #5</i> ELEV. = 3285.4' LAT. = 32.7578380'N	         (NAD27)			was plotted from field notes of actual surveys made by me or under my supervision, anth that the same is true and correction the best of my belief. JANUARY 26, 2012 MARY
LONG. = 104.320482				Date of Sufrey
SW CORNER SEC. 7 LAT. = 32.7551936'N LONG. = 104.3258466'W			SE CORNER SEC. 7 LAT. = 32.7549446'N LONG. = 104.3085334'W	Signature and Scaler Professional Surveyor, Certificate Number 7- BILING FLARAMILLO, PLS 12797









#### Lime Rock Resources II-A, L.P. Drilling Plan

### Kaiser 7 N #5 990' FSL 1650' FWL (N) 7-18S-27E Eddy County, NM

- 1. The elevation of the unprepared ground is 3285.4 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 4550' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
- 4. Well will be drilled to a total proposed depth of 4550' MD.
- 5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	20	20
Queen	392	392
Grayburg	1016	1016
Premier	NA	NA
San Andres	1047	1047
Glorieta	2397	2397
Yeso	2580	2580
Tubb	4105	4105
TD	4550	4550

7. Proposed Casing and Cement program is as follows:

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

	MD	TVD
Yates .	NA	NA
7 Rivers	.20	20
Queen	392	392
Grayburg	1016	1016
Premier	NA	NA
San Andres	1047	1047
Glorieta	2397	2397
Yeso	2580	2580
Tubb	4105	4105
TD ,	4550	4550

Туре	Hole	"Çasing	- Wt	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	В	Welded	80	80			Ready Mix
Surface	12-1/4"	8-5/8"	24	J-55	S⊺&C	425	350	14.8	1.35	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Intermediate							•			
										· ·
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4550	200	12.8	1.903	(35:65) Poz/Cl C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 +0.2% R-3 + 6% Gel
							690	14.8	1.33	Class C w/ 0.6% R-3 and 1/4 pps cello flake

#### 8. Proposed Mud Program is as follows

Depth	0-425	425-4400	4400-4550
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties			
MW	8.4-9.2	9.8-10.1	9.9-10.1
pH	9.0-10.5	10.0-12.0	10.0-12.0
WL	NC	NC	20-30
Vis	28-34	28-29	32-34
МС	NC	, NC	<2
Solids	NC	<2%	<3%
Pump Rate	300-500 gpm	375-425 gpm	400-425 gpm
Special		Use Poymers sticks and MF-55 Hi-Vis Sweeps as necessary	Hi Vis Sweeps, add acid and starch as req. Raise Vis to 35 for log.

# 9. Pressure Control Equipment: See Attached Description and diagram of Pressure Control Equipment.

#### 10. Testing, Logging and Coring Program

**Testing Program:** No drill stem tests are anticipated **Electric Logging Program:** SGR-DLL-CDL-CNL Quad Combo from 4550 to surf. Csg. SGR-CNL to Surf. **Coring Program:** No full or sidewall cores are anticipated.

#### 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 operator will 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 2002 psi based on 0.44 x TD. The estimated BHT is 125 degrees F.

#### 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 10 days. An additional 14 days will be needed it complete the well and to construct surface facilities.

## Hydrogen Sulfide Drilling Plan Summary

A. All personnel shall receive proper H2S training in accordance with Onshore Order 6 III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

Well control equipment

a. Flare line 150' from wellhead to be ignited by flare gun.

b. Choke manifold with a remotely operated choke.

c. Mud/gas separator

Protective equipment for essential personnel.

Breathing apparatus:

a. Rescue Packs (SCBA) - 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.

b. Work/Escape packs -4 packs shall be stored on the rig floor and contain sufficiently long air hoses as to not to restrict work activity.

c. Emergency Escape Packs -4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

a. Stretcher

b. Two OSHA full body harness

c. 100 ft 5/8 inch OSHA approved rope

d. 1-20# class ABC fire extinguisher

H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

Visual warning systems:

a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.

b. A colored condition flag will be on display, reflecting the current condition at the site at the time. c. Two wind socks will be placed in strategic locations, visible from all angles.

Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

#### Metallurgy:

a. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

b. All elastomers used for packing and seals shall be H2S trim.

#### Communication:

Communication will be via two way radio in emergency and company vehicles. Cell phones and land lines where available.

## H2S CONTINGENCY DRILLING PLAN EMERGENCY CONTACTS

### Company Offices - Lime Rock Houston Office

Lime Rock Houston Office Answering Service (After Hours) Artesia, NM Office Roswell, NM 713-292-9510 713-292-9555 575-748-9724 575-623-8424

KEY PERSONNEL		•			•
Name	Title	Location	Office #	Cell #	Home # ´
Mike Loudermilk	Operations Manager	Houston	7.13-292-9526	832-331-7367	Same as Cell
Spencer Cox	Operations Engineer	Houston	713-292-9528	432-254-5140	Same as Cell
Eric McClusky	Operations Engineer	Houston	713-360-5714	405-821-0534	832-491-3079
Jerry Smith	Assistant Production Supervisor	Artesia	575-748-9724	505-918-0556	575-746-2478
Michael Barrett	Production Supervisor	Roswell	575-623-8424	505-353-2644	575-623-4707
Gary McCelland	Well Site Supervisor	Rotates on Site	NA	903-503-8997	NA
Dave Williamson	Well Site Supervisor	Rotates on Site	NA	575-308-9980	NA

· · · ·	Agency Call List	· · · · · · · · · · · · · · · · · · ·
City	Agency or Office	Telephone #
Artesia	Ambulance	911
Artesia	State Police	575-746-2703
Artesia	Sherriff's Office	575-746-9888
Artesia	City Police	575-746-2703
Artesia	Fire Department	575-746-2701
Artesia	Local Emergency Planning Committee	575-746-2122
Artesia	New Mexico OCD District II	575-748-1283
Carlsbad	Ambulance	911
Carlsbad	State Police	575-885-3137
Carlsbad	Sherriff's Office	575-887-7551
Carlsbad	City Police	575-885-2111
Carlsbad	Fire Department	575-885-2111
Carlsbad	Local Emergency Planning Committee	575-887-3798
Carlsbad	US DOI Bureau of Land Management	575-887-6544
State Wide	New Mexico Emergency Response Commisssion ("NMERC")	505-476-9600
State Wide	NMERC 24 Hour Number	505-827-9126
State Wide	New Mexico State Emergency Operations Center	505-476-9635
National	National Emergency Response Center (Washington D.C.)	800-424-8802

lame Boots & Coots International Well	Service	Location	Telephone	
			Number	Alternate Number
Control	Well Control	Houston / Odessa	1-800-256-9688	281-931-8884
Cudd Pressure Control	Well Control/Pumping	Odessa	915-699-0139	915-563-3356
Baker Hughes Inc.	Pumping Services	Artesia, Hobbs & Odessa	575-746-2757	Same
Total Safety	Safety Equipment & Personnel	Artesia	575-746-2847	Same
Cutter Oilfirld Services	Drilling Systems Equipment	Midland	432-488-6707	Same
Safety Dog	Safety Equipment & Personnel	Artesia	575-748-5847	575-441-1370
Fighting for Life	Emergency Helicopter Evacuation	Lubbock	806-743-9911	Same
Aerocare	Emergency Helicopter Evacuation	Lubbock	806-747-8923	Same
Med Flight Air Ambulance	Emergency Helicopter Evacuation	Alburquerque	505-842-4433	Same
			575-748-3333	702 North 13th

•

. .

#### Pressure Control Equipment

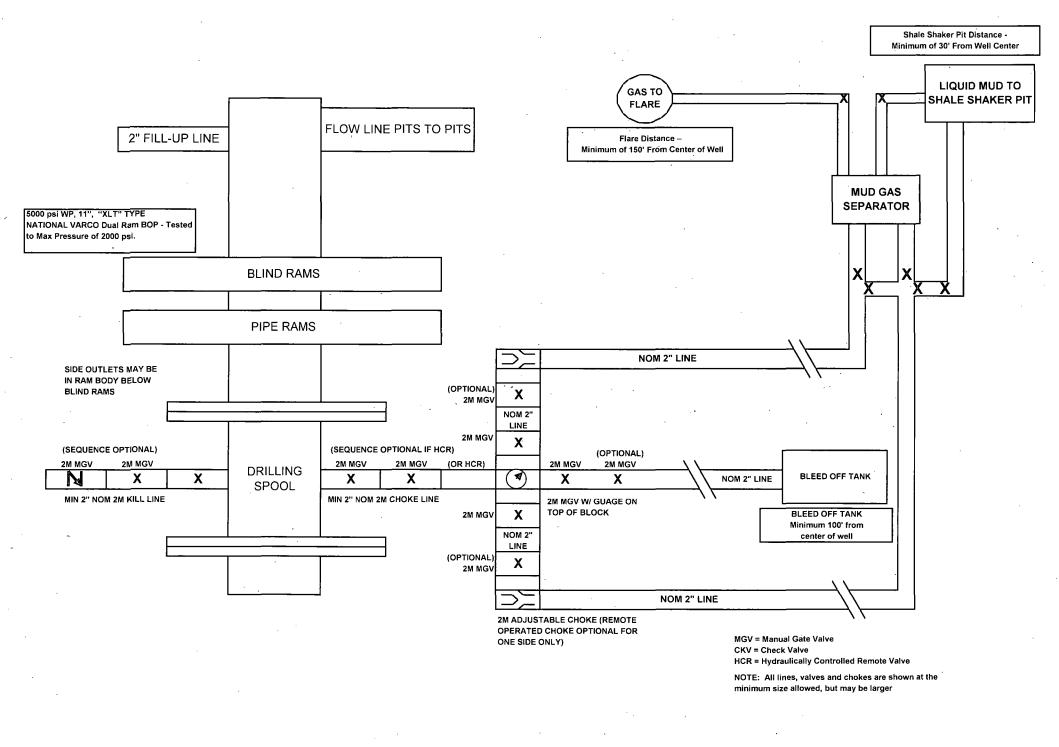
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams on bottom. The 2M BOP will be installed on the 8 5/8" surface casing and utilized continuously until total depth is reached. All casing strings will be tested as per Onshore Order #2. This also includes a thirty day (30) test, should the rig still be operating on the same well in thirty days.

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:

- Double ram with blind rams (top) and pipe rams (bottom),
- Drilling spool, or blowout preventer with 2 side outlets (choke side shall be a 2" 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),
- 2 inch diameter choke line,
- 2 kill valves, one of which will be a check valve (2 inch minimum),
- 2 chokes, one of which will be capable of remote operation,
- 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,
- A Fill-up line above the uppermost preventer.

### **2M BOP SCHEMATIC**



# Lime Rock Resources II-A, L.P.

Kaiser 7 N #5

## Unit N, S7-T18S-R27E, 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.

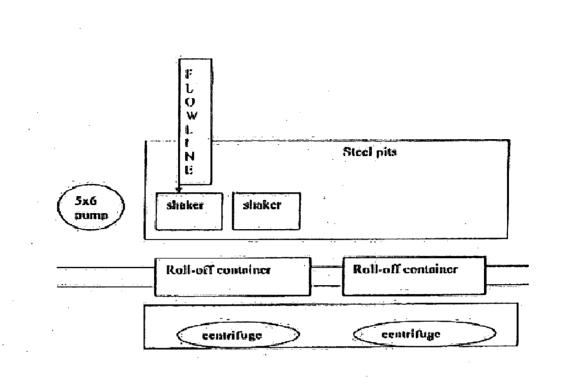
2- (250 bbl) tanks to hold fluid2-CRI bins with track system2-500 bbl frac tanks with fresh water2-500 bbl frac tanks for brine water

#### **Operations:**

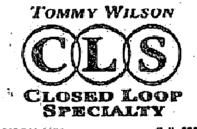
Closed Loop System equipment will be inspected daily by each tour and any necessary maintenance performed. leak in system will be repaired and/or contained immediately. OCD will be notified within 48 hours of any spill. Remediation process will start immediately.

#### <u>Closure:</u>

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.



()Mice: 975.746.1689

·Cell: 575.748.6367

- |

# Permit Conditions of Approval

30-0 15-43114 API:

í

OCD Reviewer	Condition
RD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

# Permit Conditions of Approval

30-0/5-43114 API:

١

OCD Reviewer	Condition
RD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string