#### <u>District I</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

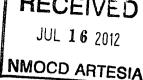
1220 S St Francis Dr , Santa Fe, NM 87505

#### State of New Mexico

Form C-101 Revised December 16, 2011

**Energy Minerals and Natural Resources** 

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





Phone (303) 476-346	o rax (505) 47	0-3402						L	NMOCD A	RTES	A
APPI	LICATI			PERMI'			E-ENTER	, DEEPE		CK, O	R ADD A ZONE
		Lim	e Ro	ck Resour	ces II-	A, L.P.				27755	
	1111 Bagby Street, Suite 4600 Houston, Texas 770								30-0	API Nun	nber 5487
392)	Code 47					Property Terry 1	Name 4 B			J	° Well No. #1
$\mathcal{O}(\mathcal{O})$	10					<sup>7</sup> Surfa	ce Locatio	n			
UL - Lot	Section T	ownship		Range	Lot	Idn Feet		J/S Line	Feet From	E/W Line	e County
. В	14	185		26E		8 Do al I		N	1650	E	Eddy
PTOKAT: Red Lake; Glorieta	: -Yeso					P001 I	nformatio	on			3250 -51120
0		_	10			Additional V				· ·	
<sup>9</sup> Work T N	ype		10 1	Well Type O		11 Cable/ R		12 L	ease Type P	13	Ground Level Elevation 3309 3
<sup>14</sup> Multı <sub>l</sub> N	ple		15 Pro	posed Depth 4600		<sup>16</sup> Form Yes	0	United	Contractor Drilling, Inc		<sup>18</sup> Spud Date After 07/15/2012
Depth to Ground	water. 100 F	Feet		Distar	nce from	nearest fresh water	r well 0 178 Mile	es	Distance to	nearest sur	face water 2 08 Miles
				19	Prop	osed Casing	g and Cem	ent Progr	am		
Туре	Hole Sı	ze	Cası	ng Size	Са	sing Weight/ft	Setting Depth		Sacks of Cement		Estimated TOC
Conductor	26"			20"		91 5	40		Ready Mi	x	Surface
Surface	12-1/4'		8-5/8"		24		425		300		Surface
Production	7-7/8"		5-	-1/2"	17		4600		850		Surface
						<del> </del>	<del>                                     </del>				
7,		· · · · · · · · · · · · · · · · · · ·		Casin	g/Ce	ment Progra	am: Addit	ional Con	ıments		
		-									
<u> </u>	1		·	P	ropo	sed Blowou	t Preventi	on Progra	m		
2	<sub>.</sub> Type			W	orking/	Pressure	Test Pressure		Manufacturer		
	XLT 11"				500	00		2000			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 NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .  Signature.					OIL CONSERVATION DIVISION  Approved By:				VISION		
Printed name Si	Printed name: Sid Ashworth  Title Operations Manager					Approved Date 7/10/20/2 Expiration Date: 7/10/20/4					
E-mail Address.		@limerock	resou	irces com			- Inproved Da		1 101 V   EXP	nation Dat	
Date 7/	Phone: 713-292-9560						Conditions of	Annroval Attac	hed		

District 1
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
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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 87805

Phone (505) 476-3460 Fax (505) 476-3462

# 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 August 1, 2011 Submit one copy to appropriate District Office

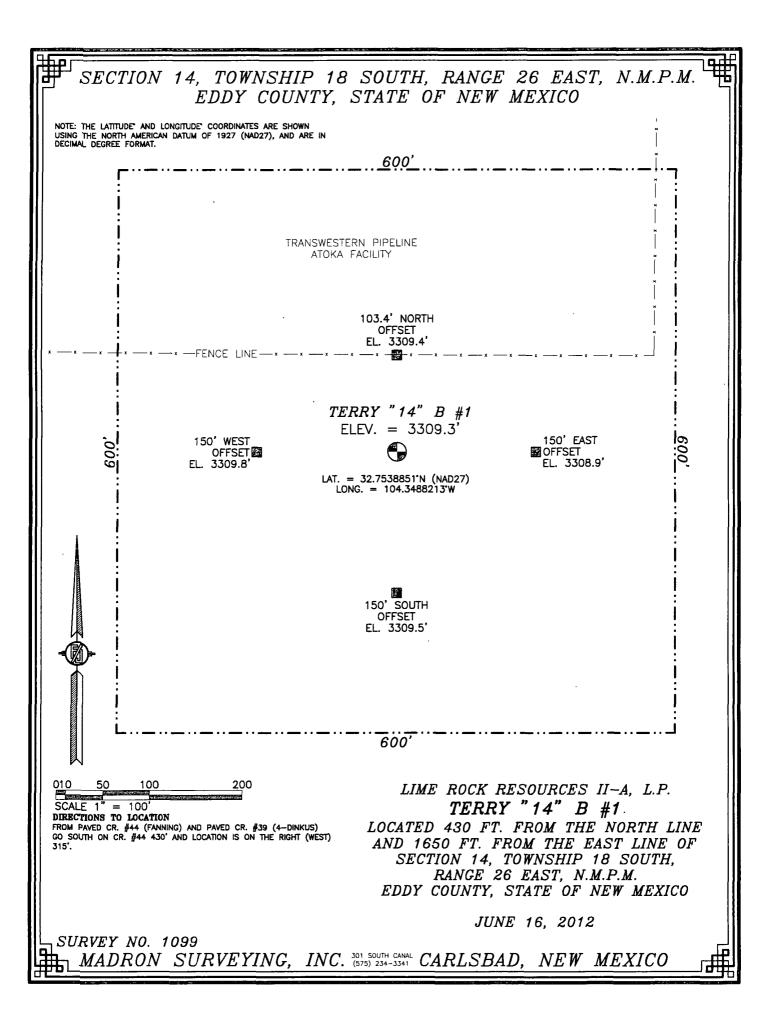
☐ AMENDED REPORT

	WEI	LL LOCATION AND	ACREAGE DEDIC	ATION PLAT	
30-015 -	40487	51120 Code3250	RED LAKE; C	3 Pool Name SLORIETA - YES	)
<sup>4</sup> Property Code		5 P1	roperty Name		<sup>6</sup> Well Number
39342		TER	RRY "14" B		1
OGRID No.	-	8 O	perator Name		<sup>9</sup> Elevation
277558		LIME ROCK R	ESOURCES II A, L.P	·	3309.3

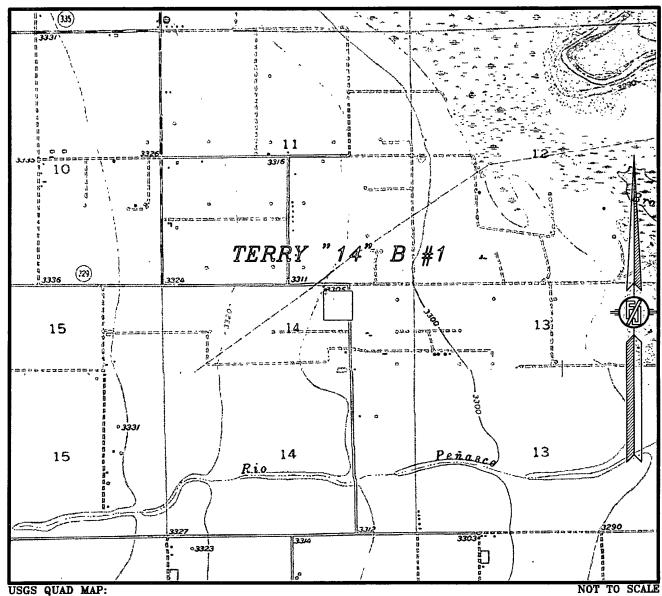
Surface Location UL or lot no. Section Township Range Feet from the North/South line Feet from the East/West line County **NORTH** 1650 **EAST EDDY** В 18 S 26 E 430 14 "Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 15 Order No. 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code

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.

N89'39'53"W 2636.03 FT	N89°39°53"W	2636 03 FT		"OPERATOR CERTIFICATION
NW CORNER SEC. 14	COMPUTED	NE CORNER SEC. 14		I hereby certify that the information contained herein is true and complete
LAT = 32.7551232*N ; LONG. = 104 3606069*W	+30	LAT = 32.7550409'N LONG. = 104.3434626'W		to the best of my knowledge and beltef, and that this organization either
20110. = 10+3000003 11	<u> </u>	1650		owns a working interest or unleased mineral interest in the land including
S	SURFACE _/ I		z	the proposed bottom hole location or has a right to drill this well at this
800:		14" B #1	N00.	location pursuant to a contract with an owner of such a mineral or working
12	ELEV. =	,' T D TT'	17	interest, or to a voluntary pooling agreement or a compulsory pooling
[ <del>4</del> ]	LAT = 3	2.7538851'N (NAD27)	4	order hejetofore entered by the division
m	LONG =		₹.	
2659	i		2650.	40 W 7/11/12
9.1	i	· 1	50.	Signature Date
7		¦	.54	SID/BHWORTH
긔	r I	1	□ [	Printed Name
i		1		sashworth @ linerock resources. on
	l F	1		Sashworth & line rock resources. con
COMPUTED	t t	COMPUTED		E Hair. Notes
	NOTE		-	CLIPATIVOD CERTIFICATION
!	COORDINATES ARE SHOWN		i II	*SURVEYOR CERTIFICATION
	USING THE NORTH AMERICAN DATUM OF 1927			I hereby certify that the well location shown on this
8	(NAD27), AND ARE IN DECIMAL DEGREE FORMAT.	]	z I	plat was plotted from field notes of actual surveys
800	DECIMAL DEGREE FORMAL.		N00.1	made by me or under my supervision, and that the
72	[		7.	same is true and correct to the best of my belief
13				0. E JAD'%
· ·	- +	<del></del>	I II	JUNE 16, 2012
2659		1	2650	Date of Survey
9			0.5	
7			4	- The sold of the
7			- <sup>1</sup>	Signatury and Seal of Professional Surveyor
SW 007NED 050 14	<u> </u>		1 711	
	CORNÉR SEC 14 = 32 7404662'N	SE CORNER SEC. 14 LAT = 32.7404736'N		Certificate Number FILIMON F JARAMILLO PLS 12797
	= 104.3520278'W	LONG. = 104.3433724'W		SURVEY NO. 1099
S89'39'07"E 2617.59 FT	N89'56'57"E	2662.03 FT	_	MINIMINITY OF THE PARTY OF THE



### SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



USGS QUAD MAP: SPRING LAKE

LIME ROCK RESOURCES II-A, L.P. TERRY "14" B #1

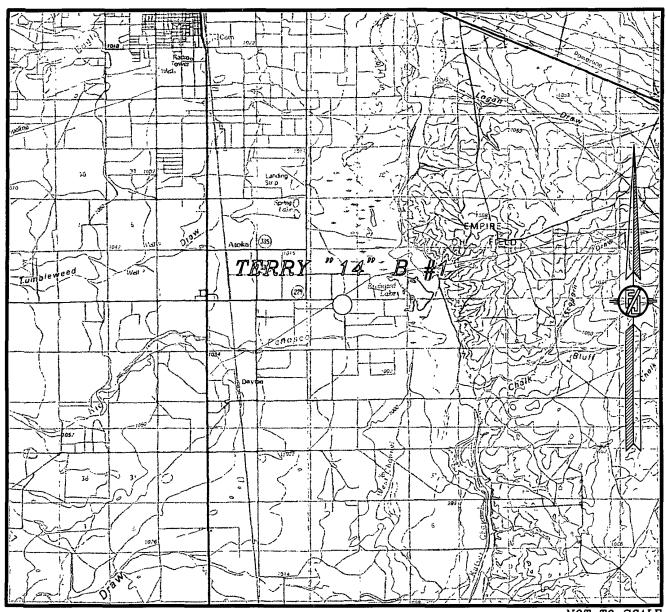
LOCATED 430 FT. FROM THE NORTH LINE AND 1650 FT. FROM THE EAST LINE OF SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2012

SURVEY NO. 1099

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

# SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



NOT TO SCALE

LIME ROCK RESOURCES II-A, L.P.

TERRY "14" B #1

LOCATED 430 FT. FROM THE NORTH LINE
AND 1650 FT. FROM THE EAST LINE OF
SECTION 14, TOWNSHIP 18 SOUTH,

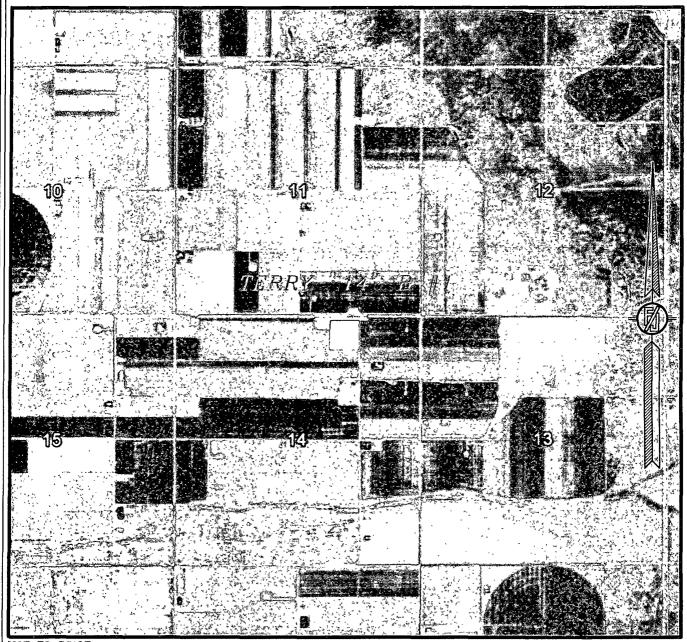
RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2012

SURVEY NO. 1099

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

# SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH JUNE 2011

LIME ROCK RESOURCES II-A, L.P. TERRY "14" B #1

LOCATED 430 FT. FROM THE NORTH LINE AND 1650 FT. FROM THE EAST LINE OF SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2012

SURVEY NO. 1099

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

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

Terry 14 B #1 430' FNL 1650' FEL B-S14-T18S-R26E Eddy County, NM

- 1. The elevation of the unprepared ground is 3309.3' feet above sea level.
- 2. The geologic name of the surface formation is Quaternary Alluvium.
- 3. A rotary rig will be utilized to the well to 4600' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
- 4. Proposed total depth is 4600'.
- 5. Estimated tops of geologic markers:

Quaternary – Alluvium	Surface
Queen	287
Grayburg	708
San Andres	953
Glorieta	2319
Yeso	2454
Tubb	3900
TD	4600'

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

Queen	287
Grayburg	708
San Andres	953
Glorieta	2319
Yeso	2454
Tubb	3900
TD	4600'

#### 7. Proposed Casing and Cement program is as follows:

Type	Hole Size	Casing Size	Wt	Grade	Thread	Depth	Sx	Density	Yield	Components*
Conductor	26"	20"	91.5	В	Welded	40				Ready Mix
	,	····		1						
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
		Г	1		1	·				
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4600	200	12.8	1.903	35:65 Poz/Cl H w/ 6% Gel, 0.125 lbs/sk Cello Flake, 5 pps LCM-1 and retarder
							650	14.8	1.33	Cl H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel

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

Depth	0-40	40-4300	4300-4600
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties			
MW	8.5-9.2	9.8-10-1	9.9-10.2
рН	10	10-11.5	11/12/2012
WL	NC	NC	20-30
Vis	28-34	29-32	32-35
MC	NC	NC	<2
Solids	NC	<1	<3
Pump Rate	300-350	375-425	400-450
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 4600 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 2024 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.

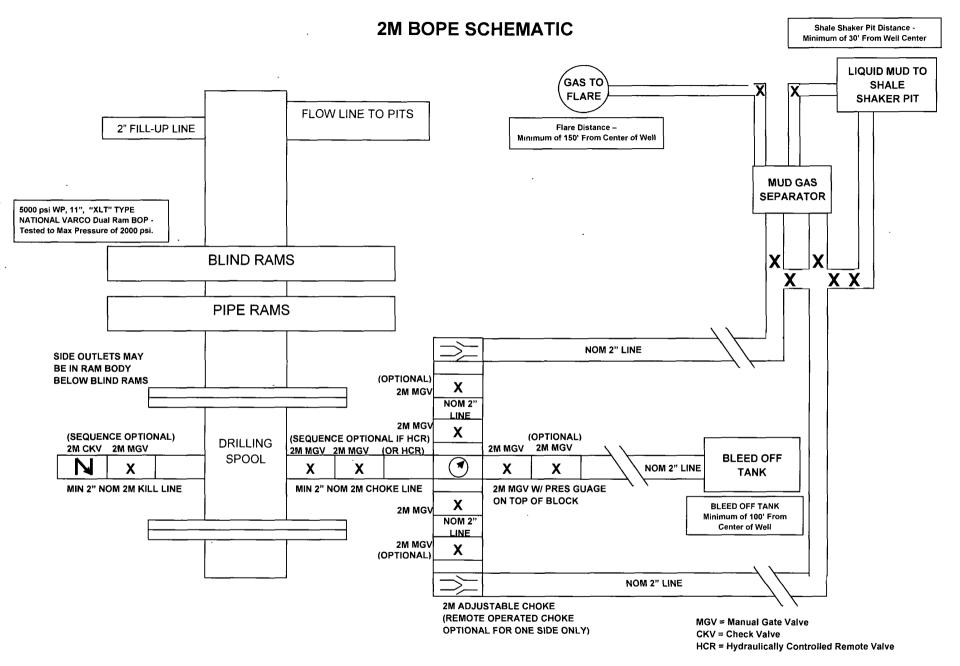
#### **Pressure Control Equipment**

The blowout preventer equipment (BOP) will consist of a 5000 psi rated, 11", "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.



NOTE: All lines, valves and chokes are shown at the minimum size allowed, but may be larger.

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

## Terry 14 B #1 HYDROGEN SULFIDE (H2S) CONTINGENCY DRILLING PLAN

**Assumed 100 ppm ROE = 3000'** 

100 ppm H2S concentration shall trigger activation of this plan.

This is an open drilling site.  $H_2S$  monitoring equipment and emergency response equipment will be rigged up and in use when the company drills out from under surface casing.  $H_2S$  monitors, warning signs, wind indicators and flags will be in use.

#### **EMERGENCY PROCEDURES**

#### **Escape**

Crews shall escape upwind of escaping gas in the event of an emergency release of gas, or if monitors indicate H<sub>2</sub>S is present. Escape will take place via the entry road away from the flare stack, or a foot path marked and designated before the well is spud by on site personnel. Once crews and other personnel are a safe distance, the crews will move to evacuate any persons in the Radius of Exposure, followed by blocking access to the Radius of Exposure.

There are no homes or buildings within the Radius of Exposure ("ROE"), so efforts will be concentrated on evacuating any third parties within the ROE. Immediate response will include evacuation of any persons potentially affected by toxic or flammable gasses. Once evacuation is under way, perimeter monitoring and control of access will be executed to ensure safe areas and stage areas.

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
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

#### H2S CONTINGENCY DRILLING PLAN EMERGENCY CONTACTS

#### Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (S02). 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 S02

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air= 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	S0 <sub>2</sub>	2.21 Air= 1	2ppm	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 Mexico's "Hazardous Materials Emergency Response Plan" (HMER) and BLM Onshore Order #6.

#### H<sub>2</sub>S Operations

Though no H<sub>2</sub>S is anticipated during the drilling operation, this contingency plan will provide for methods to ensure the well is kept under control in the event an H<sub>2</sub>S reading of 100 ppm or more are encountered. Once personnel are safe and the proper protective gear is in place and on personnel, the operator and rig crew essential personnel will ensure the well is under control, suspend drilling operations and shut-in the well (unless pressure build up or other operational situations dictate suspending operations will prevent well control), increase the mud weight and circulate all gas from the hole utilizing the mud/gas separator downstream of the choke, the choke manifold and the emergency flare system located 150' from the well. Bring the mud system into compliance and the H<sub>2</sub>S level below 10 ppm, then notify all emergency officers that drilling ahead is practical and safe.

Proceed with drilling ahead only after all provisions of Onshore Order 6, Section III.C. have been satisfied.

#### **H2S CONTINGENCY DRILLING PLAN EMERGENCY CONTACTS**

Company Offices -

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

KEY PERSONNEL								
Name	Title	Location	Office #	Ćell #	Home #			
SID ASHWORTH	PRODUCTION ENGINEER	HOUSTON	713-292-9526	713-906-7750	713-783-1959			
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 FATHEREE	WELL SITE SUPERVISOR	ROTATES ON SITE	NA	940-389-6044	NA			
GARY MCCELLAND	WELL SITE SUPERVISOR	ROTATES ON SITE	NA	903-503-8997	NA			

	Agency Call List						
City	Agency or Office	Telephone Number					
Artesia	Ambulance	911					
Artesia	State Police	575-746-2703					
Artesia	Sheriff'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	Sheriff'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 Commission ("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					

#### H2S CONTINGENCY DRILLING PLAN EMERGENCY CONTACTS

Emergency Services							
Name	Service	Location	Telephone Number	Alternate Number			
Boots & Coots International Well 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 Huges Inc.	Pumping Service	Artesia, Hobbs and Odessa	575-746-2757	SAME			
Total Safety	Safety Equipment and Personnel	Artesia	575-746-2847	SAME			
Cutter Oilfield Services	Drilling Systems Equipment	Midland	432-488-6707	SAME			
Assurance Fire & Safety	Safety Equipment and Personnel	Artesia	575-396-9702	575-441-2224			
Flight 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			
Artesia General Hospital	Emergency Medical Care	Artesia	575-748-3333	702 North 13 Street			