one: (575) 393-6	., Hobbs, NM 88240 5161 Fax: (575) 393			Enorg		of New Mex Is and Natur		0.05		Form C- Revised December 16, 2
Bill S, First St., Artesia, NM 88210 Oil Cons   Phone: (\$75) 748-1283 Fax: (\$75) 748-9720 Oil Cons   District III Oil Cons						servation Di uth St. Fran	vision	RECEIVED		
strict <u>IV</u> 20 S. St. Francis	Dr., Santa Fe, NM 3460 Fax: (505) 476	87505			Santa	a Fe, NM 87	505	NM	FEB 0.6	2013 RTESIA
APF	PLICATI		R PERMIT		ILL, RI	E-ENTER,	DEEPE	N, PLUGB	ACK, Ol	R ADD A ZONI
	1111 Ba	L agby Stree	RE Operatin et, Suite 4600	g, LLC Houston,	Texas 770	42	·	22-0	281994	
* Proper	rty Code 309874	· ·	· · · · · · · · · · · · · · · · · · ·		<sup>3</sup> Property. Staley S	Name State				Well No. #25
					<sup>7</sup> Surfa	ce Location	1			
UL - Lot	Section To	ownship 17S	Range 28E	Lot Idn	Feet f		S Line S	Feet From 965	E/W Line E	County Eddy
	50	173	201			nformatio	.7	905	E	Eddy
llake; Glorieta	a-Yeso NF	<u>.</u>	······					•		96836
				Addi		Vell Inforn				L
9 Work N			<sup>10</sup> Well Type O		<sup>11</sup> Cable/I R	Rotary	<sup>12</sup> L	Lease Type S	13	Ground Level Elevation 3597.3
<sup>14</sup> Mu		15	Proposed Depth 5000		<sup>16</sup> Forma			Contractor	<sup>18</sup> Spud Date	
	nd water: 40 Fee			ce from neare	Yes st fresh water	r well: 0.73 Miles			to nearest surf	After 5/3/2013 ace water: 6.53 Miles
			19	Pronosec	l Casina	g and Cem	ent Prog	-am		
Туре	Hole Siz	re Ca	asing Size		Weight/ft		g Depth	Sacks of C	Cement	Estimated TOC
Conductor	26"		20"		1.5		10	Ready		Surface
Surface	12-1/4"		8-5/8"		.4	425		280		Surface
Production	7-7/8"		5-1/2"	17		5000		925		Surface
			Casin	g/Cemen	t Progra	am: Additi	onal Cor	nments	. <u> </u>	,
				-						
	Туре			roposed orking Pressu		t Preventio	Test Pressu			Manufacturer
	XLT 11"	,		5000			2000			National Varco
							2000			
my knowled urther cert MOCD guig	dge and belief. tify that the dr	illing pit wi	n above is true a ill be construct mit, or an (a	ed according	g to	Approved By:		DNSERVAT	TION DIV	VISION
	Ehi I.	nueli	slay			-	CS	hapard		
	Eric McClusk		0			Title:	SONA	151		, ,
	tion Engineer				t	Approved Dat	e: 2/6/	2013 E	xpiration Dat	· 2/6/2015
tle: Product				·	1		11			11
	ss: emcclusky(	@limerockre	esources.com		1					
	ss: emcclusky() 5/13		Phone: 713-36	0-5714		Conditions of	Approval Atta	iched .		

District.1 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., Stanta Fe, NM 87505

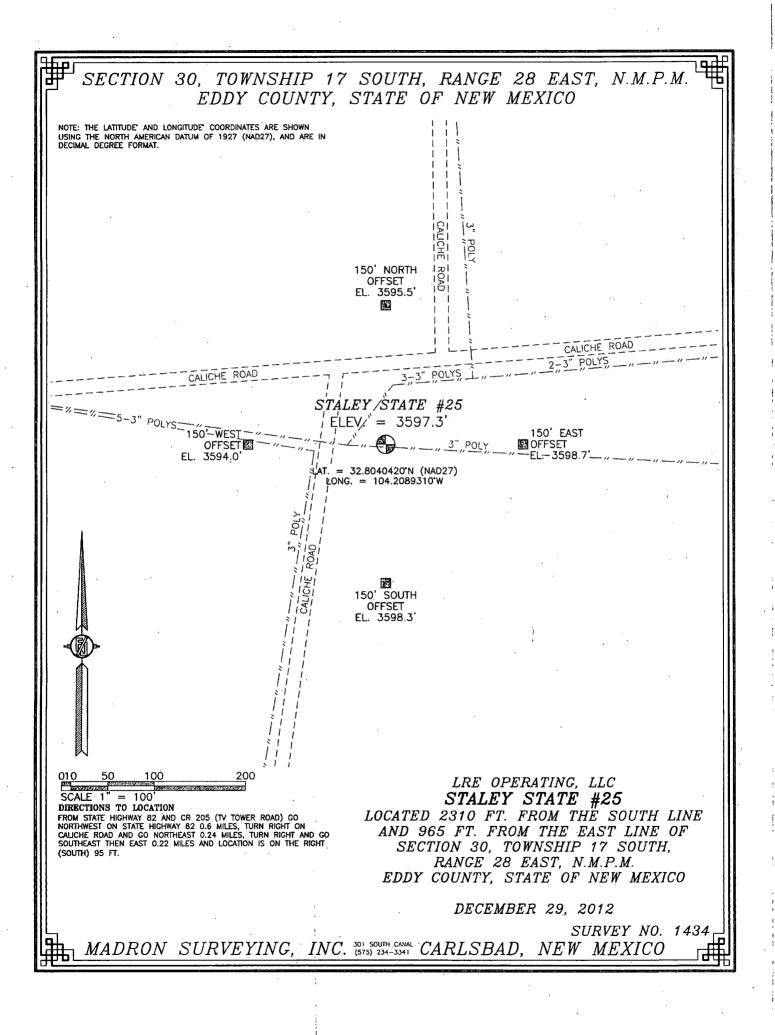
1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

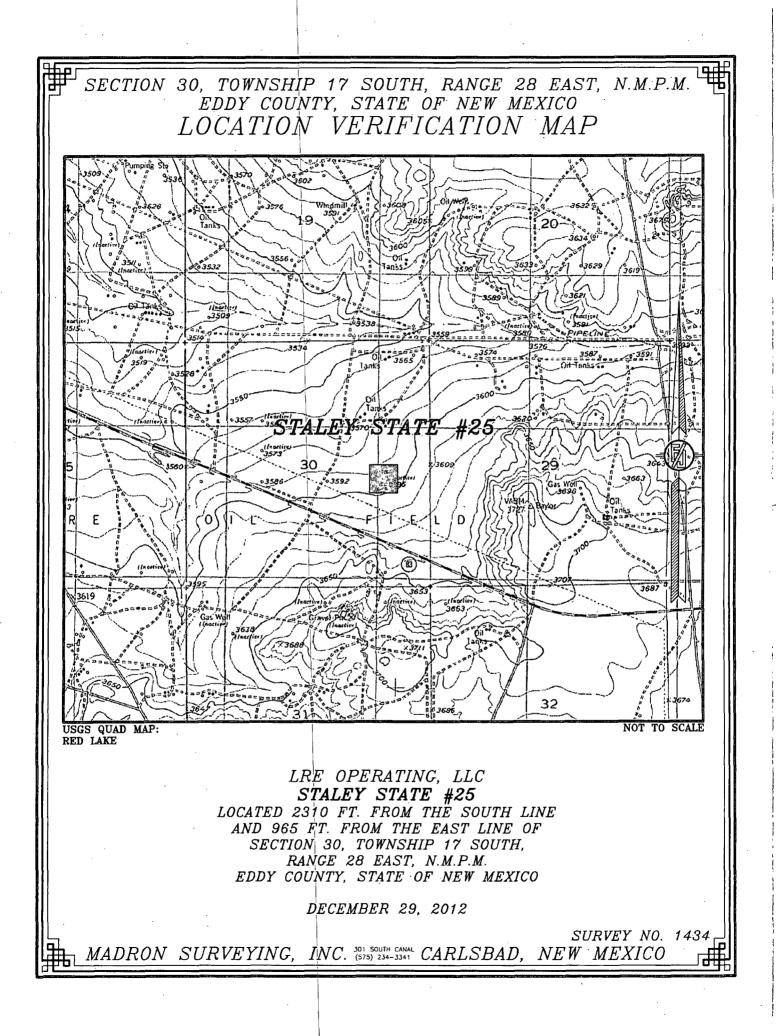
AMENDED REPORT

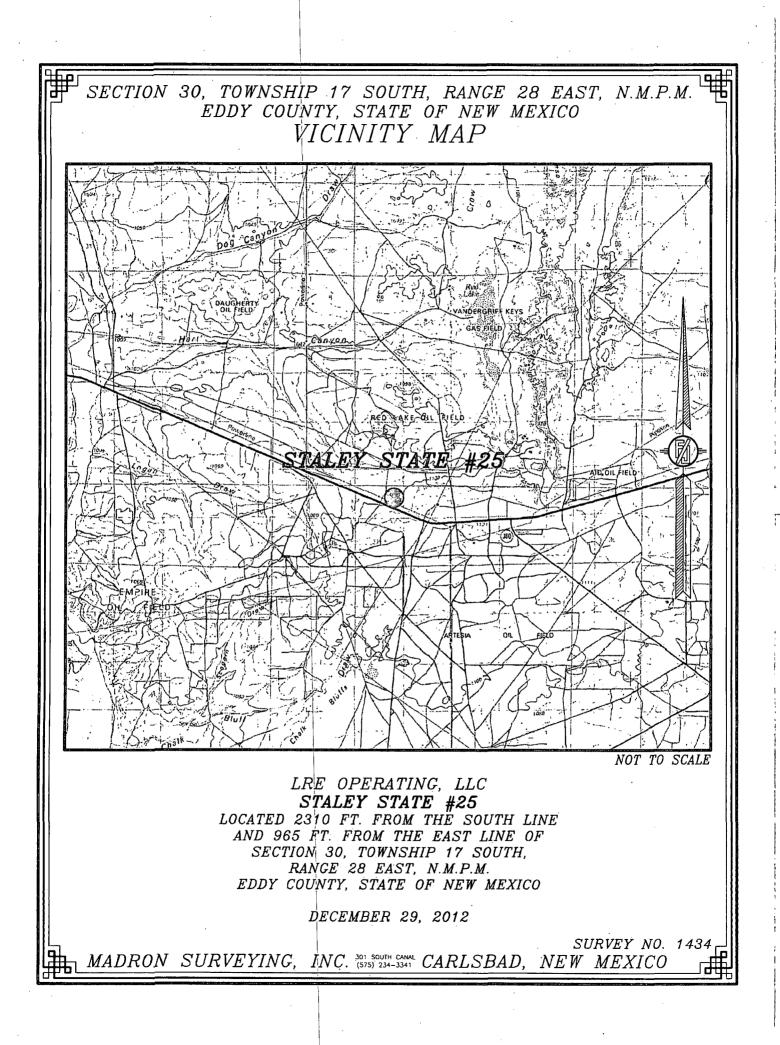
		W	<u>ELL LO</u>	DCATIO	<u>n and aci</u>	REAGE DEDIC	CATION PLA	<u>T</u>		
30-0	APL Sumby	H delo	96	<sup>2</sup> Pool Code 836	c	Redlake; 60	Bool Na			
<sup>4</sup> Property	Code				<sup>5</sup> Property	Name ·	· · · ·		<sup>6</sup> Well Number	
3 <b>0</b> 9874	4				STATE			25		
OGRID	No.				<sup>8</sup> Operator	Name	· · · · · · · · · · · · · · · · · · ·		<sup>9</sup> Elevation	
28199	94			I	LRE OPERA	ΓÍNG, LLC			3597.3	
					<sup>10</sup> Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line i County	
I	30	17 S	28 E		2310	SOUTH	965	EAS	T EDDY	
		····· ,	" Bo	ttom Ho	le Location I	f Different Fror	n Surface		······································	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line County	
<sup>12</sup> Dedicated Acre <b>40</b>	s <sup>13</sup> Joint o	r Infill <sup>14,</sup> Co	onsolidation	Code <sup>13</sup> Or	rder No.	<u> </u>				

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.

	S89'33'02"W	2722.70 FT	2621.88 FT	"OPERATOR CERTIFICATION
	NW CORNER SEC. 30	N/4 CORNER SEC. 30	NE CORNER SEC. 30	I hereby certify that the information contained herein is true and complete
,	LAT. = 32.8121534'N LONG. = 104.2230975'W	LAT. = 32!8122039'N LONG. = 104.2142379 W	LAT. = 32.8122566'N LONG. = 104.2057065'W	to the best of my knowledge and belief, and that this organization either
		2010 104.21423731		owns a working interest or unleased mineral interest in the land including
	•		. z	the proposed bottom hole location or has a right to drill this well at this
S00'2			N00.2	location pursuant to a contract with an owner of such a mineral or working
¶ <u>→</u> .	•		25'5	interest, or to a voluntary pooling agreement or a compulsory pooling
36"E	LOF I	1	9°	order heretofore entered by the division.
		+	······	Elin P. Svellucka 2/5/13
264	LOT 2	NOTE:	2647.07	Elm P. Frélluden 2/5/13 Signature Date
2641.97		LATITUDE AND LONGITUDE	1.07	Eric McClushy Prined Name
E		USING THE NORTH AMERICAN DATUM OF 1927	<u>–</u>	Printed Naine
		(NAD27), AND ARE IN DECIMAL DEGREE FORMAT.		•
		DECIMAL DEGREE FORMAI.	1	Encelvsky @ Limerak refources.col
	,	· ·	E/4 CORNER SEC. 30 LAT. = 32.8049828'N	E-mail Address
	W/4 CORNER SEC. 30	+	LONG. = 104.2057820W	· · · · · · · · · · · · · · · · · · ·
	LONG. = 104.2230524 W	1		*SURVEYOR CERTIFICATION
		SURFACE	965'	I hereby certify that the well location shown on this
			-	plat was plotted from field notes of actual surveys
S00		<i>STALEY STATE #25</i> ELEV. = 3597.3'		made by me or under my supervision, and that the
19		LAT. = $32.8040420$ (NAD27)	01	same is true and correct to the best of no belief.
17.E	LOT 3	LONG. = 104.2089310'W	3.1	
	┝╾_ <u>`</u> ┍╍ ╺╍ ╺╼ ─ _	+		DECEMBER 29, 2012
2642.	EOL 4		2647.	Date of Survey
2.4		1	7.17	
א ר				hon the start
		i i		How and A Mariamal &
	SW CORNER SEC: 30	S/4 CORNER SED. 30 SE CORNER SE	c. 30	Signature and Stal of Professional Surveyor:
	LAT. = 32.7976322'N	LAT. = 32.7976685'N LAT. = 32.7977	087 N .	Centificate Number / PLD ION F, JARAMILLO, PLS 12797
	LONG. = 104.2230120 W N89'39'23"E	LONG. = 104.2142439'W LONG. = 104.2058 2695.00 FT N89'36'30"E	2579.98 FT	SURVEY NO. 1434
	100a 2a 52 È		23/3.30 1	







#### LRE Operating, LLC Drilling Plan

Staley State #25 2310' FSL 965' FEL I-S30-T17S-R28E Eddy County, NM

- 1. The elevation of the unprepared ground is 3597.3' 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 5000' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
- 4. Proposed total depth is 5000'.
- 5. Estimated tops of geologic markers:

Quaternary – Alluvium	Surface
Yates	260
7 Rivers	489
Queen	1054
Grayburg	1448
Premier	1738
San Andres	1783
Glorieta	3170
Yeso	3294
Tubb	4706
TD	5000'

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

Yates	260
7 Rivers	489
Queen	1054
Grayburg	1448
Premier	1738
San Andres	1783
Glorieta	3170
Yeso	3294
Tubb	4706
TD	5000'

Туре	Hole Size	Casing Size	Wt	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	В	Welded	40				Ready Mix
					: .					
Surface	12-1/4"	8-5/8"	24	J-55	ST&C	425	280	14.8	1.35	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
	-									
Production	7-7/8"	5-1/2"	17	J-55	LT&C	5000	300	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
							625	14.8	1.33	Class C w/ 0.6% R-3 and 1/4 pps cello flake

7. Proposed Casing and Cement program is as follows:

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

•			
Depth	0-425	425-4806	4806-4956
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties			
MW	8.4-9.2	9.8-10.1	9.9-10.1
рН	9.0-10.5	10-12	10.0-12.0
WL	NC	NC	20-30
Vis	28-34	28-29	32-34
MC	NC .	NC	<2
Solids	NC	<2	<3
Pump Rate	300-350	375-425	400-425
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 5000 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 2200 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.

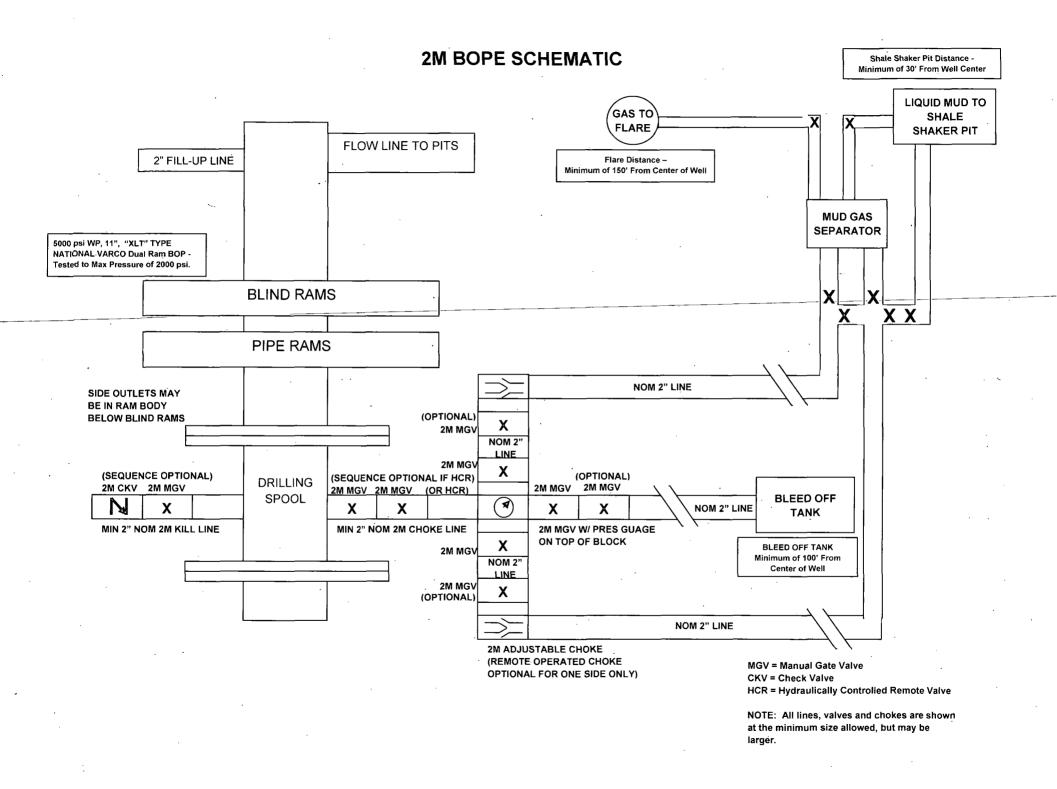
#### **Pressure Control Equipment**

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.



## LRE Operating, LLC Staley State #25

### 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**

#### <u>Escape</u>

Crews shall escape upwind of escaping gas in the event of an emergency release of gas, or if monitors indicate  $H_2S$  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 SO2

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  $H_2S$  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  $H_2S$  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  $H_2S$  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 Housto	n Office
	Answering Service	(After Hours)
	Artesia, NM Office	
	Roswell, NM	

713-292-9510 713-292-9555 575-748-9724 575-623-8424

KEY PERSON	NEL			1	1
Name	Title	Location	Office #	Cell #	Home #
SID ASHWORTH	OPERATIONS MANAGER	HOUSTON	713-292-9526	713-906-7750	713-783-1959
SPENCER COX	PRODUCTION ENGINEER	HOUSTON	713-292-9528	432-254-5140	SAME AS CELL
ERIC MCCLUSKY	PRODUCTION 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
DALW KENNARD	WELL SITE SUPERVISOR	ROTATES ON SITE	NA	575-420-1651	NA
GARY MCCELLAND	WELL SITE SUPERVISOR	ROTATES ON SITE	NA	903-503-8997	NA
BRAD TATE	WELL SITE SUPERVISOR	ROTATES ON SITE	NA	575-441-1966	NA
DAVE WILLIAMSON	WELL SITE SUPERVISOR	ROTATES ON SITE	NA	575-308-9980	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					

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# 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				