District I 1625 N. French Dr Phone: (575) 393 District II 811 S. First St., Ai Phone: (575) 748 District III 1000 Rio Brazos F Phone: (505) 334- District IV 1220 S. St. Francis Phone: (505) 476 API	5161 Fax: (57 resia, NM 882 1283 Fax: (57 toad, Aztec, N 6178 Fax: (50: 5 Dr., Santa Fe 3460 Fax: (50: PLICA	15) 393-0720 210 5) 748-9720 IM 87410 5) 334-6170 2, NM 87505 5) 476-3462 TION I	F OR PERM Operator Name LRE Operat Street, Suite 460	IT TO DR and Address ing. LLC	y Miner Oil Col 1220 Sc Sant SILL, R	nservatio outh St. I ta Fe, NM E-ENT	Natural Reso on Division Francis Dr. 1 87505	PEN, PLUGBA	EB 0.6	RADD A ZONE
	rty Code 309874				Property Staley	v Name State			<u> </u>	Well No. #23
						ice Loca	ation			
UL - Lot	Section	Township	Range	Lot Idn		t from	N/S Line	Feet From	E/W Line	County
Н	30	175	28E			755 Inform:	N ation	970	E	Eddy
					FU01	IIIOTM	a 110/11			
Redlake; Gloriet	a-Yeso NE				itional '	Wall In	formation			96836
9 Worl			¹⁰ Well Type	Adu	¹¹ Cable	/Rotary		¹² Lease Type	13	Ground Level Elevation
14 Mu			O ¹⁵ Proposed Depth			R mation		S ¹⁷ Contractor		3586.1
Depth to Grou	1		5000	ance from neare	i	eso		nited Drilling, Inc.	nearest surf	After 4/19/2013 ace water 6.51 Miles
		40 Feet								
					1		Cement Pro			
Туре		e Size	Casing Size	1	Weight/ft		Setting Depth	Sacks of Ce		Estimated TOC
Conductor		26"	20" 8-5/8"		24	40		Ready Mix 280		Surface
Production		-7/8"	5-1/2"		7		5000	925		Surface
										·····
					1					
			Casi	ng/Cemen	t Progi	ram: Ad	lditional C	omments		
				Proposed	Blowoi	nt Preve	ention Prog			
	Туре			Working Press	Ì		Test Pre			Manufacturer
	XLT 11"			. 5000			. 200)	·	National Varco
					•				<u> </u>	
of my knowle I further cert	dge and be tify that th delines ed plan E Mun	elief. De drilling p], a general].].].	given above is tru bit will be constru permit [], or an	cted according	g to	Approvo Title:		CONSERVATI	ON DIV	/ISION
Title: Produc	tion Engin	eer				Approve	ed Date: 2	12013 Exp	oiration Date	· 2/4/2015
E-mail Addre	ss: emcclu	ısky@limer	ockresources.com				70	/		1/2/2
Date: 2/	5/13		Phone: 713-	360-5714		Conditio	ons of Approval /	Attached	· · · · · · · · · · · · · · · · · · ·	
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District 1

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1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

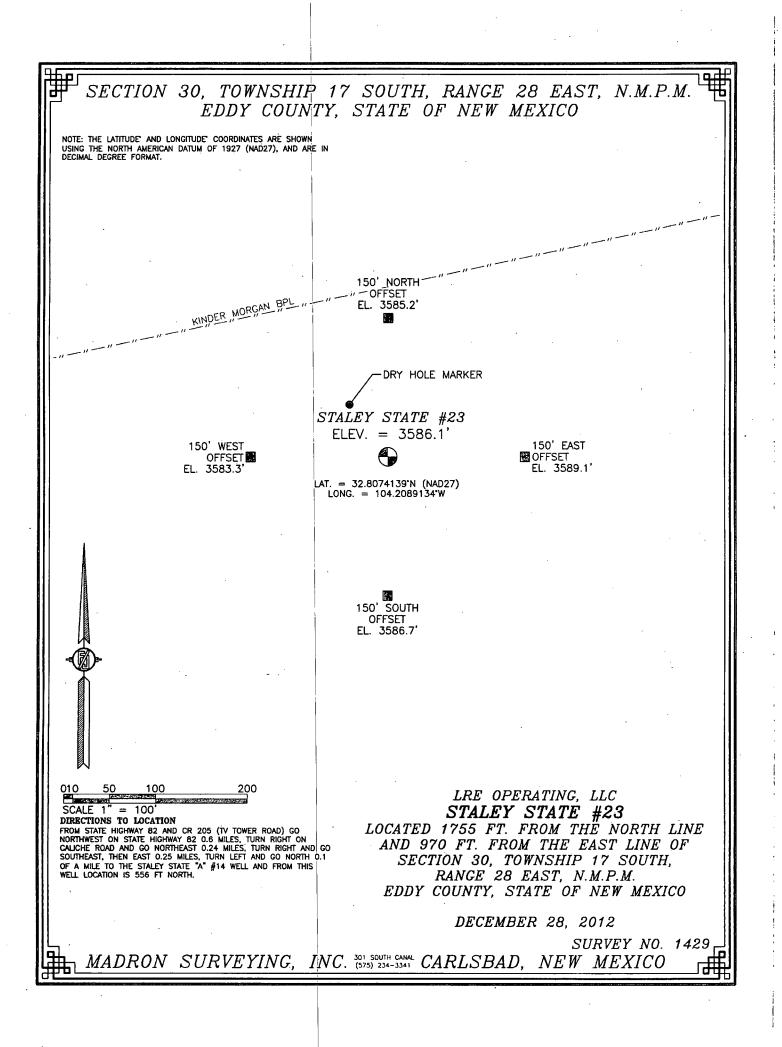
1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

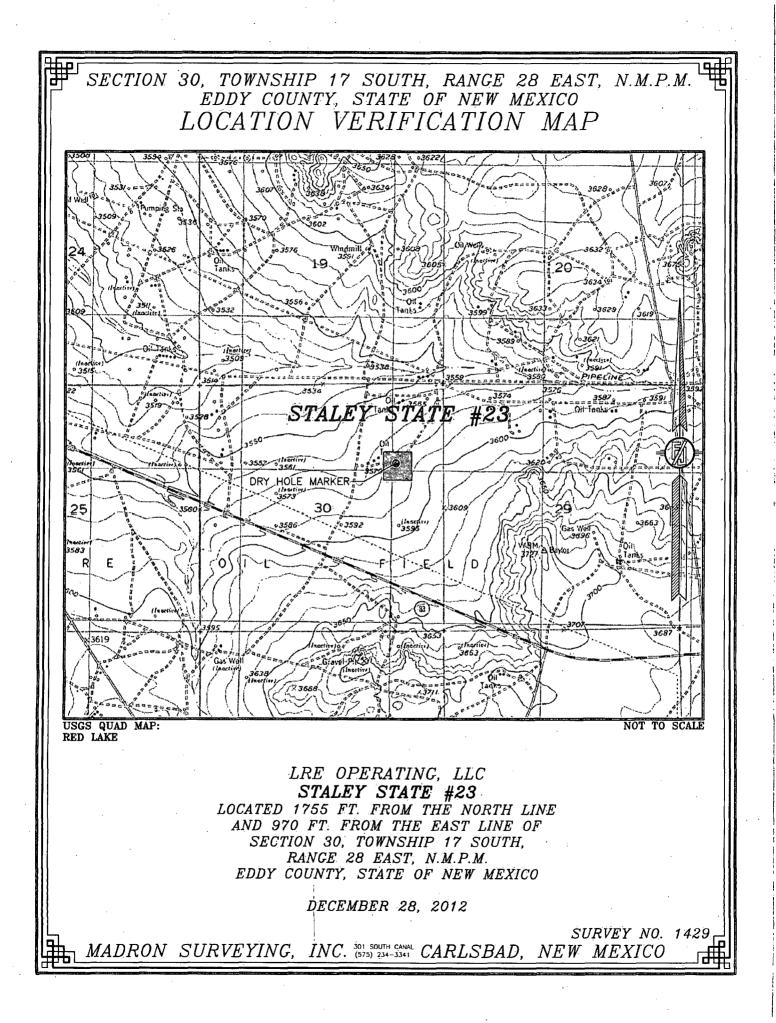
AMENDED REPORT

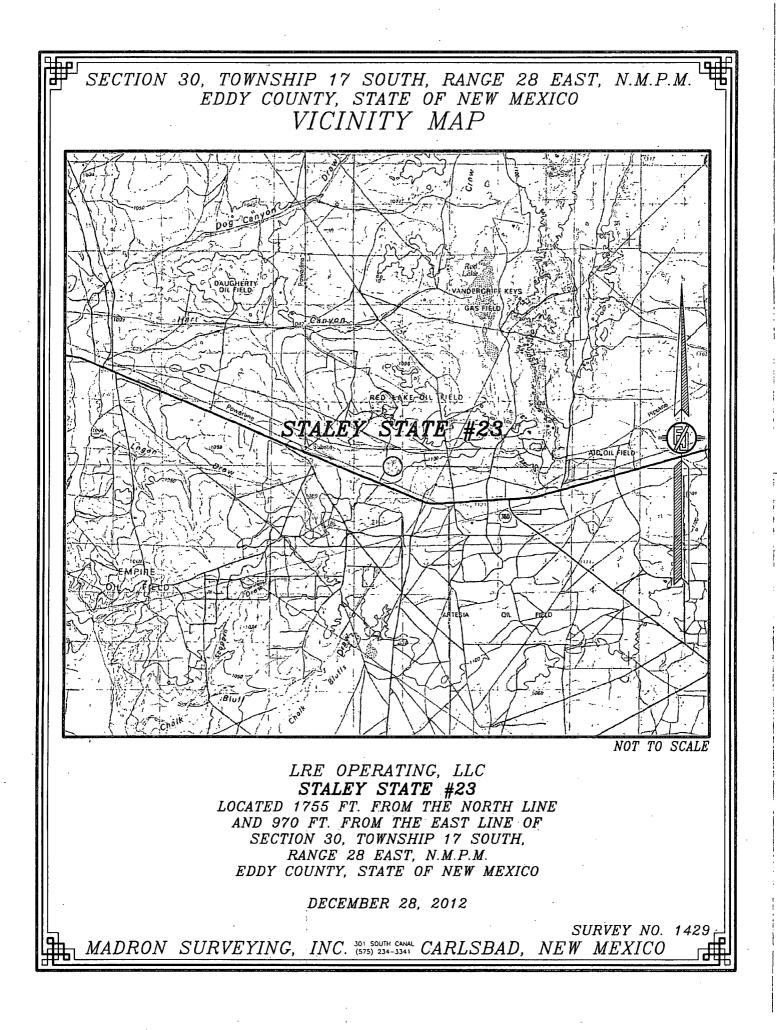
		W	ELLL	DCATIO	N AND ACE	EAGE DEDIC	CATION PLA	1		
30-01	5 - 4/1	064	9	² Pool Code		Redlake ; (slorieta - Y	^{те} Е ГО	μĒ	
Property (Cede	T			⁵ Property	Name			6	Well'Number
3098	'14				STALEY S	STATE				23
OGRID	No. T				⁸ Operator	Name			⁹ Elevation	
28199	281994 LRE OPERATING, LLC							3586.1		
			_		¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line -	County
Н	30	17 S	28 E		1755	NORTH	970	EA	ST	EDDY
			п Во	ttom Hol	e Location I	f Different From	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
					ł					
12 Dedicated Acres	i ¹³ Joint o	or Infill	onsolidation	Code 15 Or	der No.					
40					i .					

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 S89	3°30'49"W 2621.88 FT	"OPERATOR CERTIFICATION
	NW CORNER SEC. 30	N/4 CORNER SEC. 30 INE C	CORNER SEC. 30 = 32.8122566'N	I hereby certify that the information contained herein is true and complete
	LAT. = 32.8121534'N LONG. = 104.2230975'W		= 104.2057065'W	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 drill this well at this
Soc			NOC	
S00'21'36			NOD.52.25.1	interest, or to a voluntary pooling agreement or a compulsory pooling
36"E	LOT 1	STALEY STATE #23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	order heretofore entered by the division.
		ELEV. = 3586.1		Elin J. mullinky 2/5/13
2641.97		LAT. = 32.8074139'N (NAD27) LONG. = 104.2089134'W	/	Signature Date
		i SUI	IRFACE	Fric Mailugach
E		LOC	CATION	Printed Name
		· · ·		Emcclusky @ Limerock refources, con
		l l		E-mail Address
	W/4 CORNER SEC. 30 1 LAT. = 32.8048934 N	└── ── ── │	$ \frac{E/4 \text{ CORNER SEC. 30}}{LAT. = 32.8049828'N}$	· · · · · · · · · · · · · · · · · · ·
	LONG: = 104:2230524'W	NOTE:	LONG. = 104.2057820'W	"SURVEYOR CERTIFICATION
		LATITUDE AND LONGITUDE		I hereby certify that the well location shown on this
ß		USING THE NORTH AMERICAN DATUM OF 1927	ON	plat was plotted from field notes of actual surveys
S00.19		(NAD27), AND ARE IN DECIMAL DEGREE FORMAT.	NOC 23'01"E	made by me or under my supervision, and that the
47			01	same is true and correct to the best of my belief.
ייי.				DECEMBER 28. 2013
264	LOT 4		2647.1	Date of Survey
2642.42			7.17	
ב			E	
Į	· · · ·			With the american
	SW CORNER SEC. 30 LAT. = 32.7976322'N	S/4 CORNER SEC. 30 LAT. = 3217976685 N	SE CORNER SEC. 30 LAT. = 32.7977087'N	Signature and Scalter, Professional Star avor.
	LONG. = 104.2230120 W	LONG. = 104.2142439 W	LONG. = 104.2058501'W	Certificate Number: TATLINON'F DARAMILLO, PLS 12797
	N89'39'23"E	2695.00 FT N89	36'30"E 2579.98 FT	SURVEY NO. 1429







LRE Operating, LLC Drilling Plan

Staley State #23 1755' FNL 970' FEL H-S30-T17S-R28E Eddy County, NM

- 1. The elevation of the unprepared ground is 3586.1' 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	253
7 Rivers	486
Queen	1047
Grayburg	1485
Premier	1757
San Andres	1790
Glorieta	3178
Yeso	3293
Tubb	4690
TD	5000'

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

Yates	253		
7 Rivers	486		
Queen	1047 (
Grayburg	1485		
Premier	1757		
San Andres	1790		
Glorieta	3178		
Yeso	3293		
Tubb	4690		
TD	5000'		

7. Proposed Casing and Cement program is as follows:

Туре	Hole Size	Casing Size	Wt		Thread	Depth	Sx.	Density	Yield	Components
Conductor	26"	20"	91.5	В	Welded	40				Ready Mix
,									<u> </u>	
Surface	12-1/4"	8-5/8"	24	J-55	ST&C	425	280	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	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
		·.			1		625	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	425-4790	4790-4940
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties		•	•
MW	8.4-9.2	9.8-10.1	9.9-10.1
pН	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.

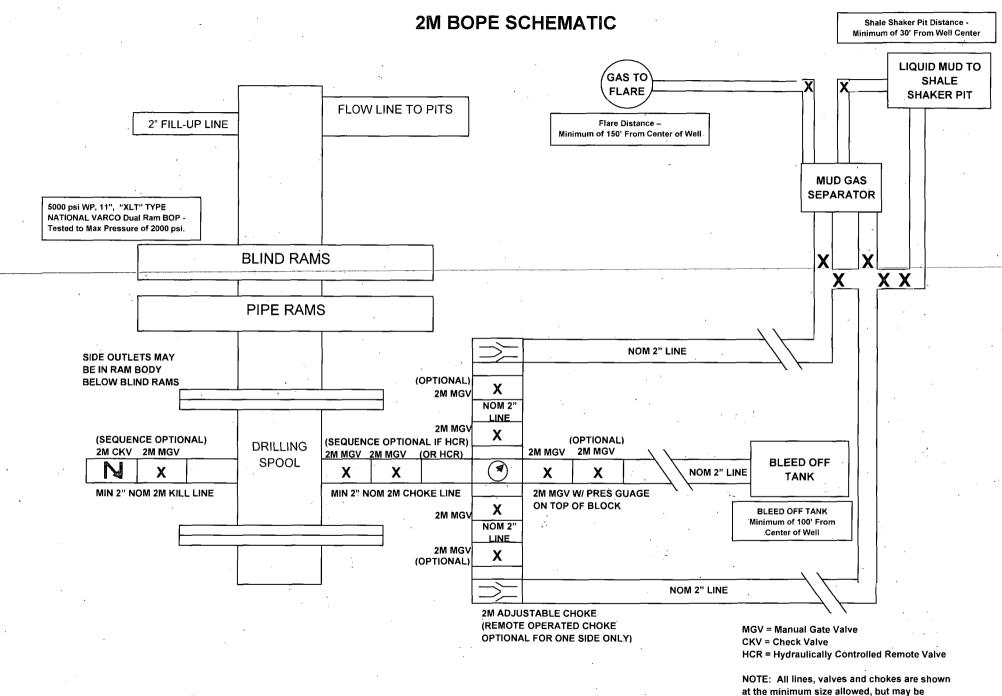
Pressure Control Equipment

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.



at the minimum size allowed, but ma larger.

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LRE Operating, LLC Staley State #24

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 ₂ S	1.189 Air= 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	S0 ₂	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.

H₂S 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 Houston Office713·292·9510Answering Service(After Hours)713·292-9555Artesia, NM Office575-748-9724Roswell, NM575-623-8424

KEY PERSON	NEL		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	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

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		Agency Call List	· · · · · · ·	
City	Agen	ncy or Office	Telephone Number	
Artesia		Ambulance	911	
Artesia		State Police	575-746-2703	
Artesia	iiiiiiiii	Sheriff's Office	575-746-9888	
Artesia		City Police	575-746-2703	
Artesia	`	Fire Department	575-746-2701	
Artesia	L(ocal 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	, L(ocal Emergency Planning Committee	575-887-3798	
Carlsbad		US DOI Bureau of Land Management	575-887-6544	
State	· · · · · ·			
Wide State	New Mexico Emergency	y Response Commission ("NMERC")	505-476-9600	
State Wide		NMERC 24 hour Number	505-827-9126	
State	· · · · · · · · · · · · · · · · · · ·			
Wide		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

	Emerç	jency 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