District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District III 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 APPLICATION FOR PERMIT TO ¹ Operator Name and Add LRE Operating, I 1111 Bagby Street, Suite 4600 H ⁴ Property Code 309868				EnergyMinera Oil Con 1220 So Sant T TO DRILL, R and Address ating, LLC 600 Houston, Texas 7700 ³ Propenty Marath	nservation D outh St. Fran a Fe, NM 87 E-ENTER 22 Name on 26 State	ral Resou ivision acis Dr. 7505 8, DEEPI		2013 RTESIA	566	
UL - Lot Se	ection T	ownship	Range	7 Surfa	ce Locatio	N/S Line	Feet From	E/W Line	County	
	26	17S	28E		990	<u>N</u>	910	E/W Line E	Eddy	
			<u></u>	⁸ Pool I	nformatio	n				
Artesia; Glorieta-Y	eso								96830	
⁹ Work Type			⁰ Well Type				² Lease Type	13 Co		
N			0	·R	<u> </u>	L	<u>S</u>	¹³ Ground Level Elevation 3687.8		
14 Multiple N			roposed Depth 1D / 4300' TV	D Ye			⁷ Contractor d Drilling, Inc.	A	¹⁸ Soud Date fter 9/1/2013	
Depth to Ground Wa	ater:	95 Ft.	Distanc	e from nearest fresh water	r well:	0.66 N	T Distance from	nearest surface	water: 10.36 Miles	
			¹⁹ I	Proposed Casing	g and Cem	ent Prog	ram			
Туре	Hole Siz	ze Ca	sing Size	Casing Weight/ft		ng Depth	Sacks of Ce	ment	Estimated TOC	
Conductor	20"		14"	68.7	40		40		Surface	
Surface	11"	<u></u>	8 5/8"	24		450			Surface	
Production	7-7/8"		5-1/2"	17	17 4300		780		Surface	
├_──-┼								·		
·······			Casing	g/Cement Progr	am: Addit	tional Co	mments	······································		
		<u> </u>		oposed Blowout	Preventio		<u> </u>			
[_]	Туре			/orking Pressure		Test Pressure		Ma	Manufacturer	
XI	LT 11"			5000	2000		Nat	National Varco		
Printed Name: Eri Title: Production E-mail Address:	ing pit will be eneral permit 9 <u>mcChv</u> (y y@Limerock	constructed a	according to ttached) alternative	Approved By Title: Approved Dat	17 0754 te: 1/24		ON DIVIS	SION 7/26/2015		
Date: 7/25/2013	Date: 7/25/2013 Phone: 713-660-5714						ttached			

·

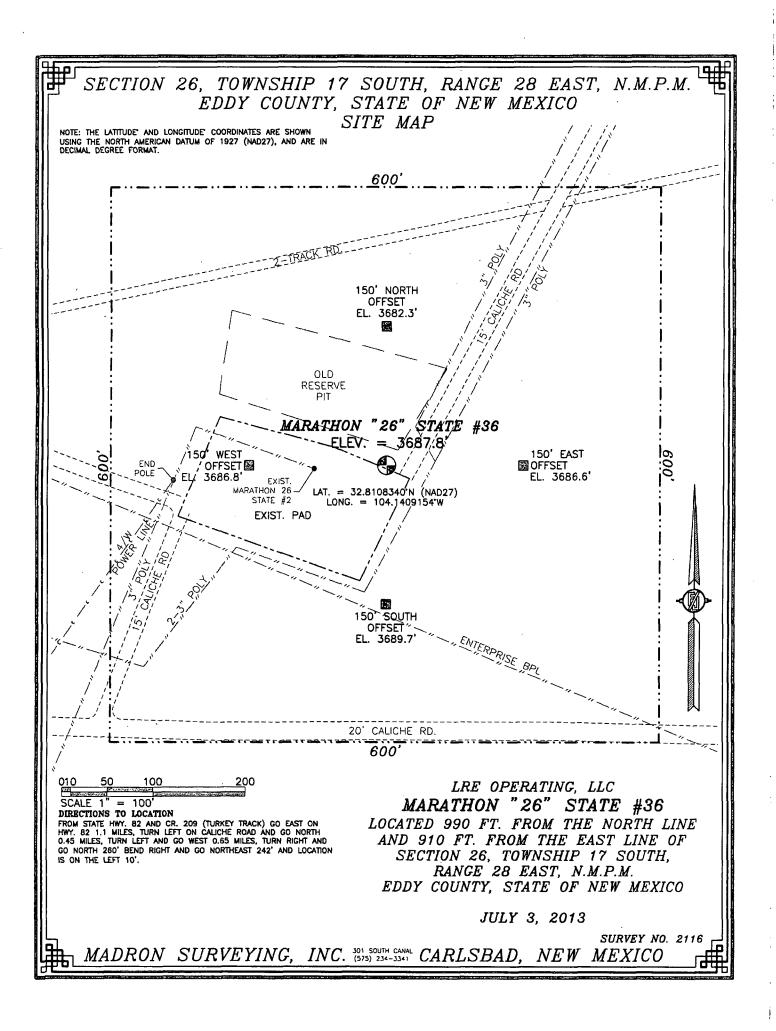
District 1 1625 N. French Dr., Hobbs, NM 88240 Phone; (575) 393-6161 Fax; (375) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone; (575) 748-1283 Fax; (575) 748-9720 District III) 1000 Rio Brazos Road, Aztec, NM 87410 Phone; (305) 334-6178 Fax; (505) 334-6170 District IX 220 S. St. Francis Dr., Sama 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

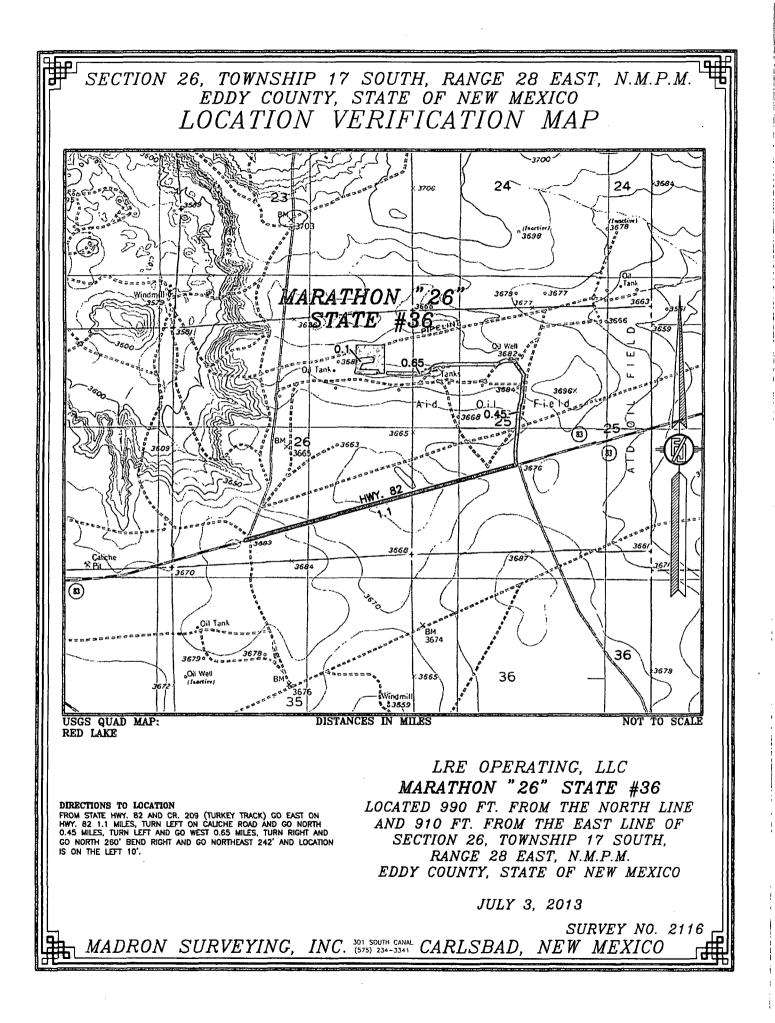
AMENDED REPORT

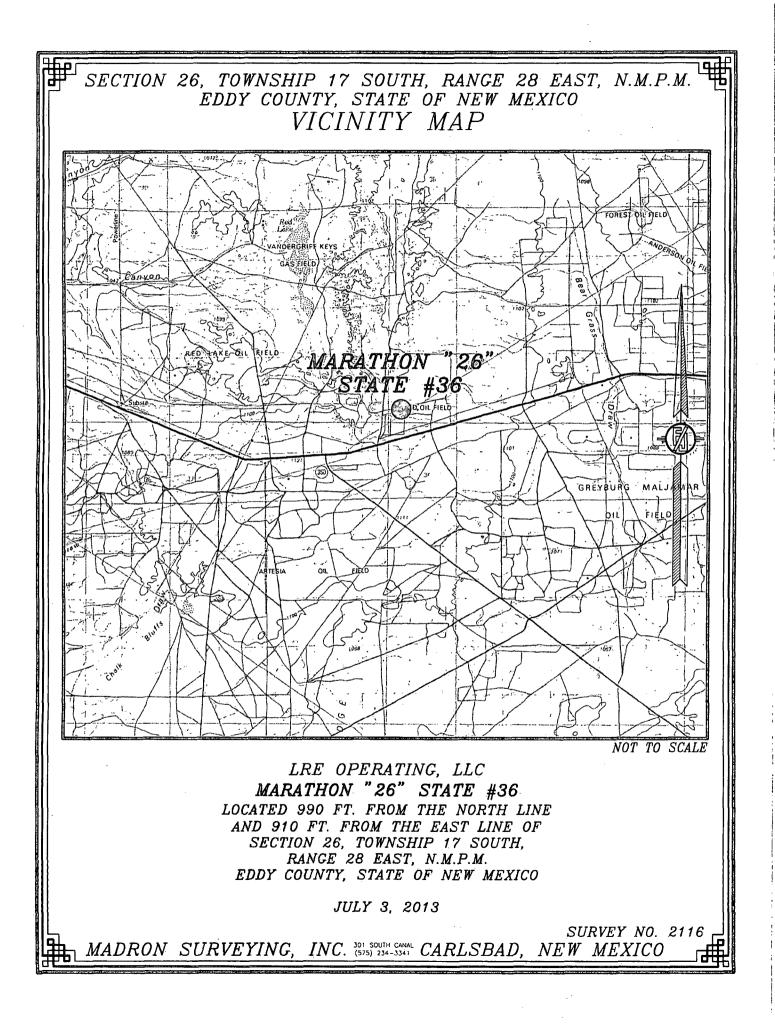
		W	<u>ELL LC/</u>	DCATIO	N AND AC	REAGE DEDIC	CATION PLA	ΔT			
30-00	API Number	"Selo	96	² Pool Code (830		Artesia; Glorieta - Yeso					
⁴ Property					³ Propert	y Name			⁶ Well Number		
309868 MARATHON "26" STATE									· 36		
⁷ OGRID	⁷ OGRID No. ⁸ Operator Name ⁹ Elev							⁹ Elevation			
28199	994 LRE OPERATING, LLC 3687.8						3687.8				
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
A	26	17 S	28 E		990	NORTH	910	EAST	EDDY		
			¹¹ Bc	ttom Ho	e Location	If Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idu	Feet from the	North/South line	Feet from the	East/West line	County		
¹² Dedicated Acre <i>40</i>	s ¹³ Joint o	er Infill	onsolidation	Code ¹⁵ Or	der No.						

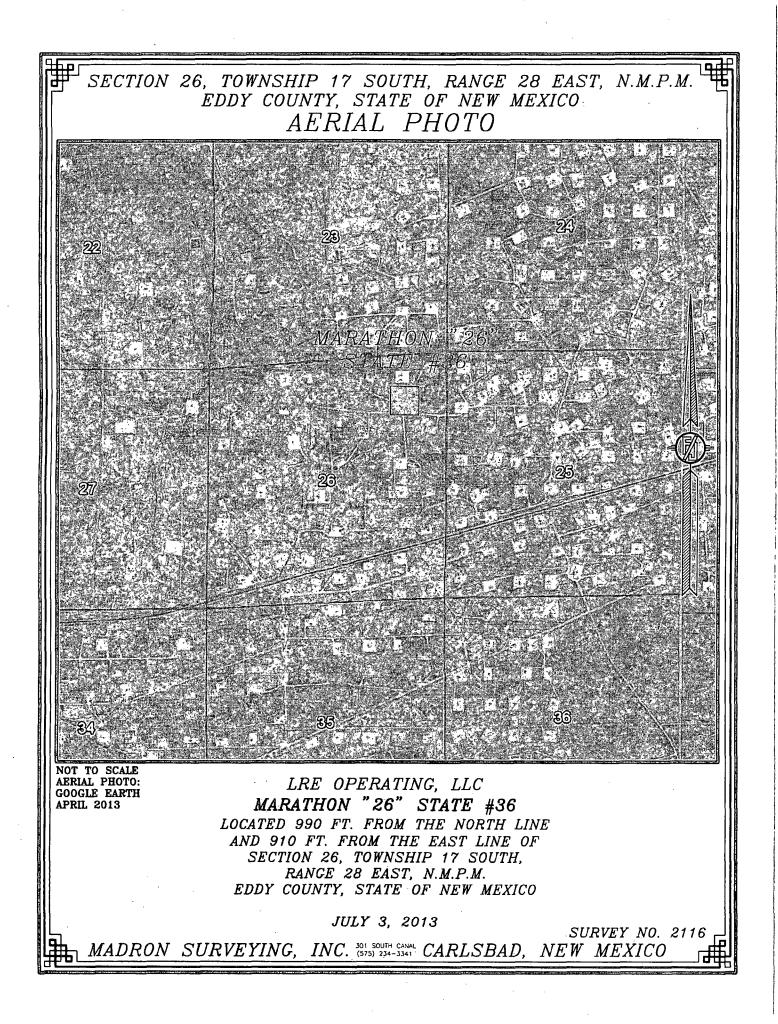
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N85'34'45"	E 2607.51 F1 N/4 CORNER SEC. 26 LAT. = 32(8132240'N LONG. = 104.1463757'W	8 7) 7)	¹⁷ OPERATOR CERTIFICATION 1 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 increase or unleased mineral interest in the land including the proposed boutom hole location or hus a right to drill this well at this location pursuant to a comment with an owner of such a mineral or working interest, or to a voluntary pixeling agreement or a compulsory pooling order hereinfore encred by the division. <u>Ethic I. McClusky</u> 7/25/113 Signature <u>Eric I. McClusky</u> Printed Name <u>Emcclusky C. Merock Filsour (Coff.</u> 2044) E-mail Acktress
W/4_COBNER. SEC26- LAT. = 32.8055639 H LONG. = 104.1549186 W LONG. = 104.1549186 W SW CORNER SEC. 26 LAT. = 32.7984545 H LONG. = 104.1549995 W S87.13'54'W	NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (MAD27), AND ARE IN DECIMAL DEGREE FORMAT. LAT. = 32:7987889'N LONG. = 104.1465070'W V 2612.40 FT S87'11'08'W	LONG. = 104.1379562W	¹⁸ SURVEYOR CERTIFICATION Thereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to livebest of my belief. JULY 3, 2019 JULY 3, 2019 (1.2797) Date of Super- Signature and Seiler Professional Surveys Certificate Number: Hithlor Police Surveysor. SURVEY NO. 2116









LRE Operating, LLC Drilling Plan

Marathon 26 State #36 990' FNL 910' FEL (A) 26-17S-28E Eddy County, NM

- 1. The elevation of the unprepared ground is 3687.8 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 4300' 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 4300' MD.
- 5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates	615	615
7 Rivers	851	.851
Queen	1422	1422
Grayburg	1813	1813
Premier	2076	2076
San Andres	2090	2090
Glorieta	3554	3554
Yeso	3615	3615
Tubb	NA	NA
TD	4300	4300

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	615	615
7 Rivers	851	851
Queen	1422	1422
Grayburg	1813	1813
Premier	2076	2076
San Andres	2090	2090
Glorieta	3554	3554
Yeso	3615	3615
Tubb	NA	NA
TD	4300	4300

Туре	Hole	Casing	Wt	Ģrade	Thread	Depth	Sx	Density	Yield	Components
Conductor	20"	14"	68.7	В	Welded	40	40			Ready Mix
Surface	11"	8 5/8"	24	J-55	ST&C	450	225	14.8	1.4	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Intermediate										
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4300	330	12.8	1.9	(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
							450	14.8	1.3	Class C w/ 0.6% R-3 and 1/4 pps cello flake

8. Proposed Mud Program is as follows

Depth	0-450	450-4150	4150-4300
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	10.0-12.0	10.0-12.0
WL	NC	NC	20-30
Vis	28-34	28-29	32-34
МС	NC	NÇ	<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 4300 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 1892 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

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	713-292-9526	832-331-7367	Same as Cell
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	ŇA
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 #
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

	Emerge	ncy Services	• .	
lame	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 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
Artesia General Hospital	Emergency Medical Care	Artesia	575-748-3333	702 North 13th Street
	· · ·	· · · · · · · · · · · · · · · · · · ·	-	•
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Pressure Control Equipment

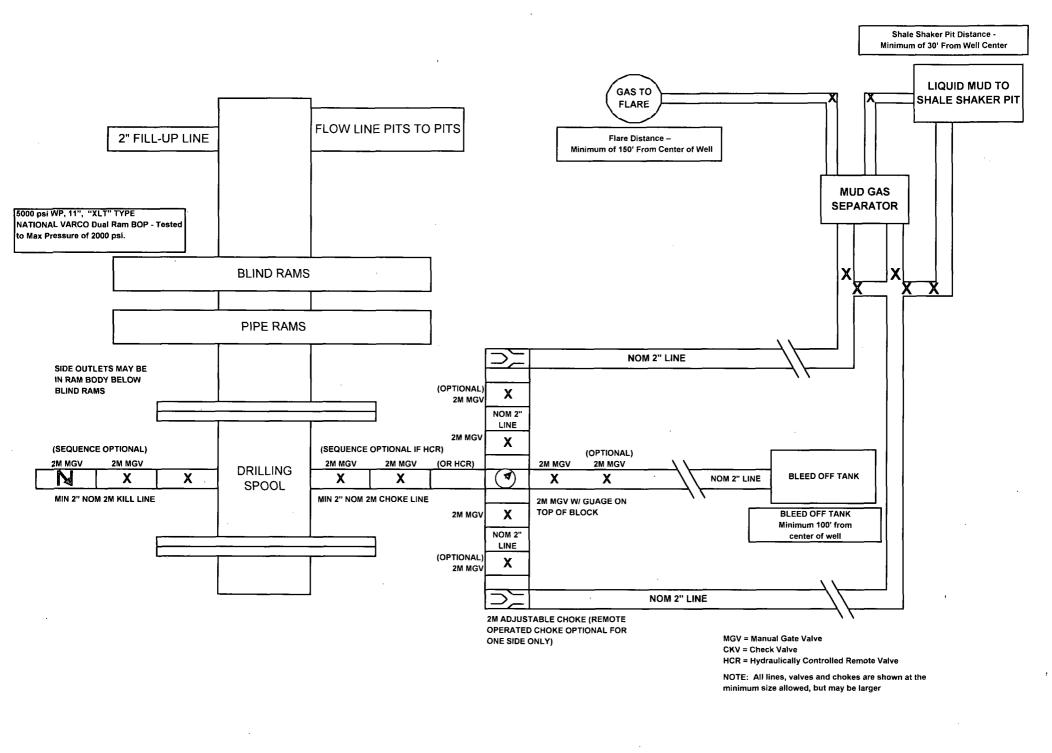
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams 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



LRE Operating, LLC

Marathon 26 State #36

Unit A, S26-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 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.

Closure:

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

F ι Q W 1. Ł Steel pits Ν E 5×6 shoker sliaker pump Roll-off container Roll-off container centrifuge centrifuge This will be maintained by 24 hour solids control personnel that stay on location. TOMMY WILSON CLOSED LOOP SPECIALTY Office: 975.746.1689 Cell: 575.748.6367 .

C101Conditions

Permit Conditions of Approval

1

API: 30-015-41566

OCD Reviewer	Condition
CSHAPARD	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