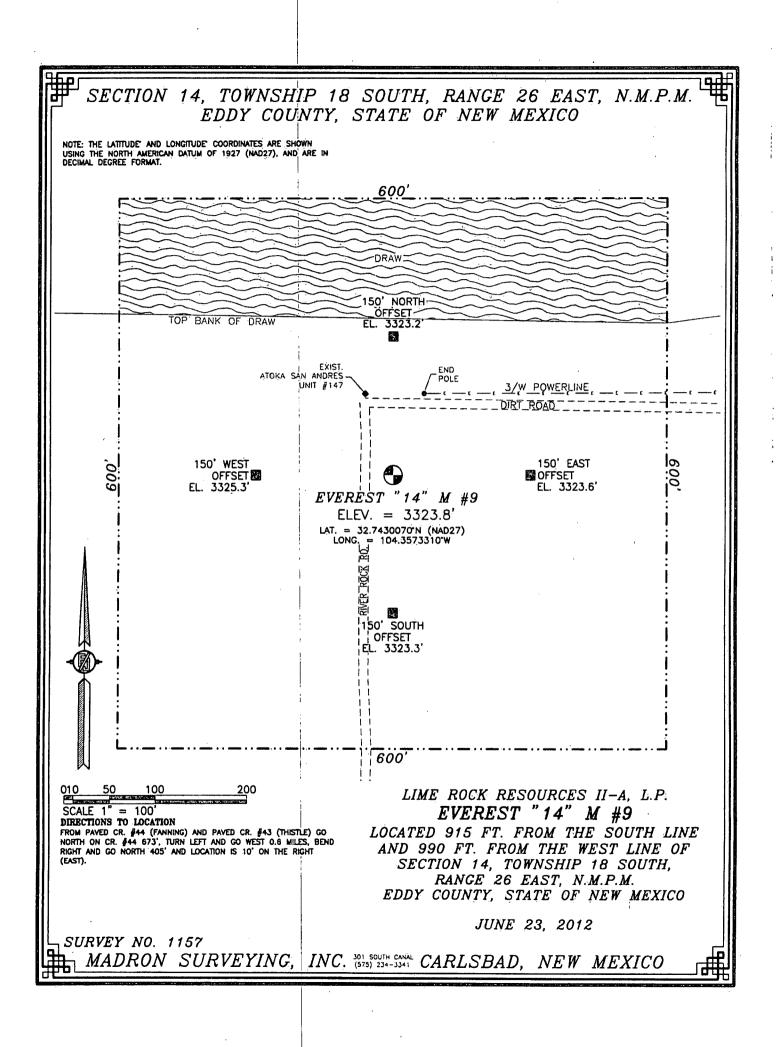
| <u>District I</u> (625 N. French Dr., Hol Phone: (575) 393-6161 <u>District II</u> 311 S. First St., Artesia, Phone: (575) 748-1283 J <u>District III</u> 1000 Rio Brazos Road, J Phone: (505) 334-6178 J District IV | Fax: (575) 393-0720 , NM 88210 | RECI | Energy Miner | e of New Mexico als and Natural Reso | urces | | Form C-101 Revised December 16, 2011 |
|--|-----------------------------------|--|--|---|-------------------------------|-------------------------|---|
| District II 311 S. First St., Artesia, Phone: (575) 748-1283 I District III 1000 Rio Brazos Road, A Phone: (505) 334-6178 I | , NM 88210 | RECI | Contraction of the local division of the loc | | urces | | |
| Phone: (575) 748-1283 <u>District III</u> 1000 Rio Brazos Road, J Phone: (505) 334-6178 | | | | | | <u>-</u> | Permit |
| 1000 Rio Brazos Road, A Phone: (505) 334-6178 I | | | | servation Division | | nnrd.state | .nm.us |
| Vietniet IV | | JAN | L 4 2013 1220 So | uth St. Francis Dr. | Current | forms are | available on our |
| <u>District IV</u> 220 S. St. Francis Dr., 1 | , | | Sant | a Fe, NM 87505 | regulato | and should | d be used when fi |
| Phone: (505) 476-3460 I | Fax: (505) 476-3462 | NMOCD | ARTESIA | | | , | |
| APPL | ICATION | FOR PERMIT | TO DRILL, R | E-ENTER, DEEP | EN, PLUGBA | CK, OR | ADD A ZONE |
| | | ¹ Operator Name an Lime Rock Resou | | | 2 | OGRID Numb | er |
| | 1111 Bagby | Street, Suite 4600 | Houston, Texas 770 | 042 | 21 | ³ API Number | LINGON |
| * Property C | Code/ | 1 | Property Everest | Name | -30-7 | 2/5 •w | 70/80 ell No. |
| _39/23 | 8 | | | | | # | #9 |
| | | | ⁷ Surfa | ce Location | 7 | | 1 |
| | ection Township | D Range 26E | | from N/S Line | Feet From 990 | E/W Line W | County Eddy |
| | 14 105 | 201 | | Information | | | |
| | | | | | | | |
| Atoka; Glorieta-Yeso |) | ···· · · · | Additional V | Well Information | . <u> </u> | | 3250 |
| ⁹ Work Typ | pe | ¹⁰ Well Type | ¹¹ Cable/ | Rotary | ¹² Lease Type | ¹³ Grou | und Level Elevation |
| N ¹⁴ Multiple | e | O ¹⁵ Proposed Depth | 16 Form | | P ¹⁷ Contractor | | 3323.8 |
| N | | 4300 | Ye | so Un | ited Drilling, Inc. | A | After 3/22/2013 |
| Depth to Ground w | water: 98 Feet | | e from nearest fresh wate | | | nearest surface | water: 2.20 Miles |
| | | ¹⁹ I | Proposed Casing | g and Cement Pro | gram | | |
| Туре | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Ce | ment | Estimated TOC |
| Conductor | 26" | 20" | 91.5 | 40 | Ready Mi | x | Surface |
| Surface | 12-1/4" | 8-5/8" | 24 | 425 | 300 | <u> </u> | Surface |
| Production | 7-7/8" | 5-1/2" | 17 | 4300 | 860 | | Surface |
| | | | <u> </u> | | | | |
| l | | Casing | /Cement Progr | am: Additional Co | omments | | |
| | | | | | | | |
| | | <u> </u> | oposed Blowou | t Prevention Prog | ram | | |
| ŗ | Туре | We | rking Pressure | Test Pres | sure | Ma | anufacturer |
| XI | LT 11" | | 5000 | 2000 | | Na | tional Varco |
| | | I | | | | | |
| | | n given above is true a | nd complete to the best | | | | |
| | that the drilling | pit will be constructe | | | ONSERVATI | JN DIVIS | SION |
| NMOCD guidelir OCD-approved p | | l permit 🔲, or an (a | tached) alternative | Approved By: | ~ | | |
| li li | | / | | | hound | | |
| Signature: | <u>penos</u> | UG - | | <u> 10.0</u> | INJOU | | |
| Printed name: Spe | encer Cox | | | Title: 55009 | 151 | | |
| fitle: Production | Engineer | | | Approved Date: | TWB Exp | iration Date: | 1/15/2015 |
| E-mail Address: s | scox@limerockre | sources.com | | | | | |
| | | | 0528 | Conditions of Approval A | ttached | / | / |
| Date: ~ ~ | 17 | Phone: 713-292 | -9528 | Conditions of Approval A | lacheu | | |

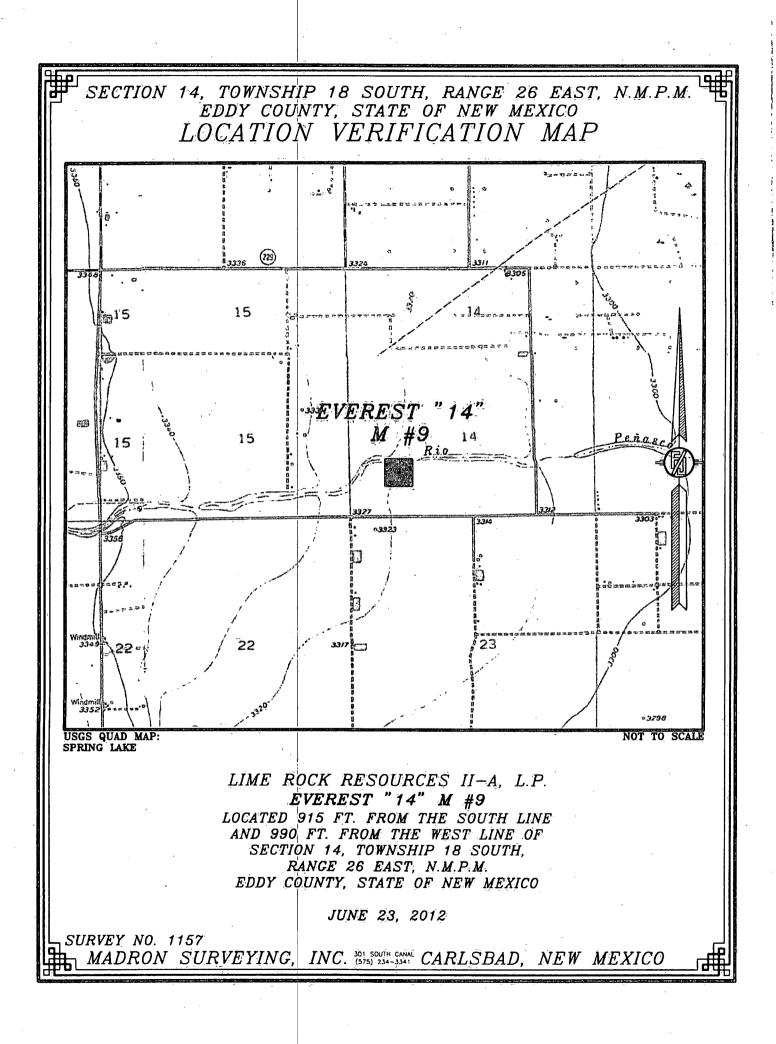
.

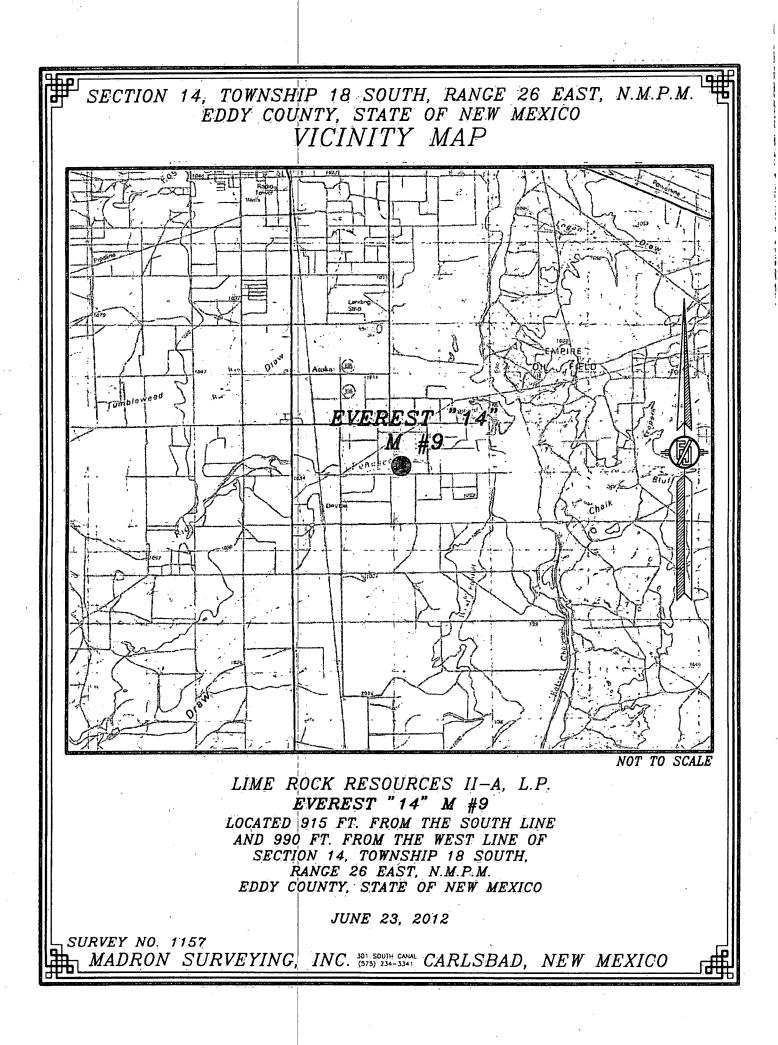
| District 1 1625 N, French Dr., F Phone: (575) 393-616 District 11 811 S, First St., Artesis Phone: (575) 748-128 District 11 1000 Rio Brazos Roac Phone: (505)-334-617 District 117 District 174 1220 S, St. Francis Dr Phone: (505) 476-3460 | 1 Fax: (575) 39 a. NM 88210 3 Fax: (575) 74 1. Aztec, NM 8 8 Fax: (505) 33 Santa Fe, NM | 93-0720 8-9720 7410 4-6170 1 \$7505 6-3462 | | OIL CO | ONSERVAT 20 South St. Santa Fe, N | ral Resources I FION DIVISIO . Francis Dr. M 87505 | N | | mit one | Form C-102 ised August 1, 2011 copy to appropriate District Office 4ENDED REPORT |
|---|--|---|--------------|-----------------------|---|---|---------------|----------|---------|--|
| | | W | ELL LO | DCATIO | N AND ACI | REAGE DEDIC | CATION PLA | AT . | | |
| 30-01 | Sel Sumbe | 40980 |) | 3250 | | ATOKA: | GL- | N/BSO | | |
| Property | Code/ | <u> </u> | | | * Property | Name | | 7 | . 6 | Well Number |
| 396 | 8 | | | | EVEREST | "14" M | • | | | 9 |
| OGRID | No. | ····· | | | * Operator | Name | | | | ⁹ Elevation |
| 27755 | 8 | | | LIME | ROCK RESO | URCES II A, L.I | 2. | | | 3323.8 |
| | | j | | | " Surface | Location | | | | |
| UL or lot no. | Section | Township | Range | Lot Ida | Feet from the | North/South line | Feet from the | East/We | st line | County |
| М | 14 | 18 S | 26 E | | 915 | SOUTH | 990 | WES | т | EDDY |
| L | 1 | | ۰ E | Bottom H | ole Location | If Different Fr | om Surface | • | • | ······· |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/We | it line | County |
| ¹² Dedicated Acre | s ¹³ Joint o | r Infill ¹⁴ C | 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.

| | N89'39'53"v | V 2636.03 FT | N89'39'53"W | 2636.03 FT | "OPERATOR CERTIFICATION |
|----------|--|--|---------------------------------|--|---|
| | NW CORNER SEC. 14 | COMPUTED | | NE CORNER SEC. 14 | Thereby certify that the information contained herein is true and complete |
| | LAT. = 32.7551232'N LONG. = 104.3606069'W | | | LAT. = 32.7550409'N LONG. = 104.3434626'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 |
| S I | | | | · 2 | the proposed bottom hole location or has a right to drill this well at this |
| 00S | | | | NOO | location pursuant to a contract with an owner of such a mineral or working |
| 2 | | , I . | | 17 | Interest, ar to a volunțăry pooling agreement ar a compulsory pooling |
| 43 E | | 1 | | | order heretofore entered by the division. |
| . m N | · · · · · · · · · · · · · · · · · · · | + | | ×× | |
| 2659 | . • | | E, AND LONGITUDE | 26 | Sichanur Date |
| 9.1 | | | NATES ARE SHOWN | 2650.5 | Signature Date |
| 7 | | AMERIC | AN DATUM OF 1927 | 4 | Somer Cor |
| <u> </u> | | |), AND ARE IN DEGREE FORMAT. | E I | Printed Name |
| | | | | 1 | CINCLE and Inc. inc. |
| | | | | | E-mail Address |
| | COMPUTED | | | COMPUTED | |
| | | 1 . I | | | *SURVEYOR CERTIFICATION |
| | | | · | | |
| | | | | | I hereby certify that the well location shown on this |
| 200. | | | | NO | plat was plotted from field notes of actual surveys |
| 0.1 | | | | NOO 1 | made by me or unter my supervision, and that the |
| 2,4 | | | | 7'4 | same is rue and correct to the best of my belief. |
| 3.5 | SW CORNER SEC. 14 | EVEREST "14" M #9 | | · · · · · · · · · · · · · · · · · · · | JUNE22 2012, EN ME |
| 26 | | TELEV. = 3323.8 | | | |
| 2659. | LONG. = 104.3605385'W | LAT. = 32.7430070'N (NAD) LONG. = 104.3573310'W | 27) | 2650 | Date of Survey 11: 3: 19=7 |
| | 990'- | SURFACE | | 0.54 | international and the second second |
| ב | | LOCATION | | - - - | And the line |
| | in i | | · · · | · 7 | Signaphe and Seal of Professional Surveyor |
| • | 6 | S/4 CORNER SEC. | 14 | SE CORNER SEC. 14 | Certificate Netable: ATU MONT JARAMILLO, PLS 12797 |
| | | LAT. = 32/740466 LONG. = 104.35202 | | LAT. = 32.7404736'N LONG. = 104.3433724'W | 11/1/11 SURVEY NO. 1157 |
| | 589'39'07"E | 2617.59 FT | N89'56'57"E | | , |
| | | | | - | |







Everest 14 M #9 915' FSL 990' FWL M-S14-T18S-R26E Eddy County, NM

- 1. The elevation of the unprepared ground is 3323.8' 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. Proposed total depth is 4300'.
- 5. Estimated tops of geologic markers:

| Quaternary – Alluvium | Surface |
|-----------------------|---------|
| Queen | 372 |
| Grayburg | 728 |
| San Andres | 961 |
| Glorieta | 2386 |
| Yeso | 2532 |
| Tubb | 3986 |
| | |
| TD | 4300' |

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

| Queen | 372 |
|--|-------|
| Grayburg | 728 |
| San Andres | 961 |
| Glorieta | 2386 |
| Yeso | 2532 |
| Tubb | 3986 |
| ······································ | |
| TD | 4300' |

7. Proposed Casing and Cement program is as follows:

| Туре | Hole Size | Casing Size | Wt | Grade | Thread | Depth | Sx | Density | Yield | Components |
|------------|--------------|----------------|------|-----------|--------|-------|-----|---------|-------|---|
| Conductor | 26" | 20" | 91.5 | В | Welded | 40 | | | | Ready Mix |
| | · · · | L | | 1 · · · · | | 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 |
| Production | 7-7/8" | 5-1/2" | 17 | J-55 | LT&C | 4300 | 200 | 12.8 | 1.903 | 35:65 Poz/Cl H w/ 6% Gel, 0.125 lbs/sk Cello |
| FIGUICION | 1-1/0 | J-1/2 | 1/ | | LIQU | | 200 | 12.0 | 1.505 | Flake, 5 pps LCM-1 and retarder |
| | | | | | | | 660 | 14.8 | 1.330 | Cl H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel |

8. Proposed Mud Program is as follows

| Depth | 0-425 | 425-4150 | 4150-4300 |
|------------|-----------------|---|--|
| Mud Type | Fresh Water Mud | Brine | Brine, Salt Gel, & Starch |
| Properties | | | |
| MW | 8.5-9.10 | 9.8-10-8 | 9.9-10.9 |
| рН | 18 | 10-11.12 | 11/19/2012 |
| WL | NC | NC | 20-37 |
| Vis | 28-42 | 29-39 | 32-42 |
| MC | NC | NC | <2 |
| Solids | NC | <8 . | <3 |
| Pump Rate | 300-358 | 375-432 | 400-458 |
| 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.

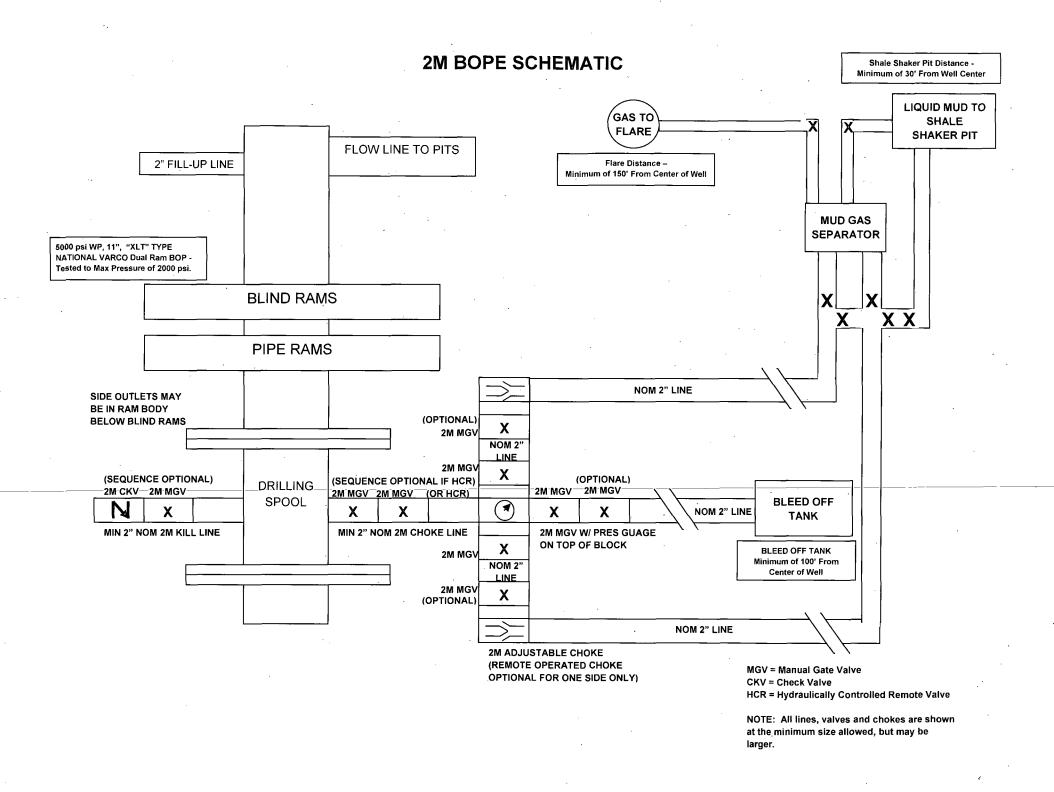
Pressure Control Equipment

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 ram's (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.



HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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
 - Detection of H₂S, and
 - o Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). 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.

| Common Name | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|---------------------|---------------------|---------------------|--------------------|--------------------|----------------------|
| Hydrogen Sulfide | H ₂ S | 1.189 Air = 1 | 10 ррт | 100 ppm/hr | 600 ppm |
| Sulfur Dioxide | SO ₂ | 2.21 Air = 1 | 2 ppm | N/A | 1000 ppm |

Characteristics of H₂S and SO₂

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 México's "Hazardous Materials Emergency Response Pian" (HMER).

H₂S CONTINGENCY PLAN EMERGENCY CONTACTS

| Ambulance State Police City Police Sheriff's Office Fire Department | Phone Number n Engineer 713-345-2136 Cell: 218-507-0380 n Supervisor 575-623-8424 Cell: 505-353-2644 911 |
|---|--|
| Name Title Richard Ghiselin. Production Mike Barrett Production Ambulance State Police City Police State Police Fire Department State Police Local Emergency Planning Comm New Mexico Oll Conservation Divide | 911 575-746-2703 575-746-2703 575-746-9888 575-746-9888 575-746-2701 nittee 575-746-2122 |
| Ambulance | 911 575-746-2703 575-746-2703 575-746-9888 575-746-9888 575-746-2701 nittee 575-746-2122 |
| Ambulance | 911 575-746-2703 575-746-2703 575-746-9888 575-746-9888 575-746-2701 nittee 575-746-2122 |
| State Police City Police Sheriff's Office Fire Department Local Emergency Planning Comm New Mexico Oli Conservation Divi | 911 575-746-2703 575-746-2703 575-746-9888 575-746-9888 575-746-2701 nittee 575-746-2122 |
| State Police City Police Sheriff's Office Fire Department Local Emergency Planning Comm New Mexico Oli Conservation Divi | 575-746-2703 575-746-2703 575-746-9888 575-746-2701 nittee 575-746-2122 |
| Sheriff's Office Fire Department Local Emergency Planning Comm New Mexico Oll Conservation Divi | 575-746-2703 575-746-9888 575-746-2701 nittee 575-746-2122 |
| Fire Department Local Emergency Planning Comm New Mexico Oll Conservation Divi | 575-746-9888 575-746-2701 nittee 575-746-2122 |
| Local Emergency Planning Comm New Mexico Oli Conservation Divi | nittee 575-746-2122 |
| New Mexico Oli Conservation Divi | nittee575-746-2122 |
| New Mexico Oll Conservation Divi | leion 575.748.1282 |
| <u>Carisbad</u> | JI J-140- 120J |
| | |
| Ambulance | 911 |
| State Police | 575-8885-3137 |
| City Police | 575-885-2111 |
| Sheriff's Office | 575-887-7551 |
| Fire Department | |
| Local Emergency Planning Comm | littee575-887-6544 |
| US Bureau of Land Management | 575-887-6544 |
| New Mexico Emergency Response | e Commission (Santa Fe)505-476-9600 |
| New Mavico State Emergency On | 505-827-9126 erations Center505-476-9635 |
| National Emergency Response Ce | enter (Washington, DC)800-424-8802 |
| Other | |
| Boots & Coots IWC | 800-256-9688 or 281-931-8884 |
| Cudd PressureControl | 915-699-0139 or 915-563-3356 |
| Halliburton | 575-746-2757 |
| B. J. Services | 575-746-3569 bock, Texas 806-743-9911 |
| Flight For Life – 4000 24 th St. Lubb | |
| Aerocare – R3, Box 49F, Lubbock, Vied Filght Air Amb – 2301 Yale Bi | |
| S B Air Med Service – 2505 Clark (| |