#### 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., Santa Fe, NM 87505 Phone: (505) 476-3460 Fey: (505) 476-3462

Date: 4/29/2015

Phone: 713-292-9528

#### State of New Mexico

EnergyMinerals and Natural Resource ONSERVATION

ARTESIA DISTRICT

☐ AMENDED Report

Revised July 18, 2013

Form C-101

**Oil Conservation Division** 

APR 29 2015 1220 South St. Francis Dr.

**Santa Fe, NM 87505** 

RECEIVED

Phone: (502) 476-34			OD DEDMI	ו זומת חדד ו	DF_FNTI	ed NEED	EN DILICE	ACK O	R ADD A ZONE	
	LICA	IIONI	Operator Nam	e and Address	KE-1914 I	en, Deer	EN, I LUGL	OGRID Numb	per	
		1111 B		ources II-A, L.P. 1600 Houston, Texas 770	002		20-	AP Kumber		
20.5	nerty Code.		-50,,	<sup>5</sup> Propert	tv Name		ــــــــــــــــــــــــــــــــــــــ		Well No.	
<u> </u>	<u>රප</u>				avitt 13 D			#2		
	Section	Township	1 Danve	Surfa	ace Locat	ion N/S Line	Foot From	T/AV Line	County	
UL - Lot D	Section 13	18S	Range 26E	Corran	330	N/S Line N	Feet From 990	E/W Line W	Eddy	
				<sup>8</sup> Proposed Bo	ttom Hol	e Location	1			
UL - Lot	Section 12	Township .	Range 26E	Lot Idn F	eet From	N/S Line	Feet From	E/W Line	1	
D	13	185		O Pool	· · · ·	N	990	W	Eddy	
				9 rooi	Informat	tion	·		<u> </u>	
Red Lake; Glor	ieta-Yeso	<u>,</u>					·		51120	
9 11/1		<del></del>	10 Well Type	Additional	Well Info		12	<u> </u>	13.0	
Work N			Well Tyne O		le/Rotarv R		Lease Type		<sup>13</sup> Ground Level Elevation 3298.8	
14 Multiple : 15 Propos		Proposed Depth		rmation	17 Contractor			18 Soud Date		
	N 4650' MD / 4650' TV  Depth to Ground Water: 100 Ft. Distance			ce from nearest fresh wat			ed Drilling, Inc.  Distance from nearest su		After 6/1/2015 t surface water: 1.48 Miles	
X We will I	ha using a cl		system in lieu of li	and nite		·····	<u> </u>			
	<del>-   , , ,</del>	~·		Proposed Casin					T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Type	Hole		Casing Sizes	Casing Weight/ft	Se	etting Depth	Sacks of		Estimated TOC	
Conductor	26		20" 8-5/8"	91.5	<del></del>	425	35		Surface	
Surface Production	7-7		5-1/2"	24		425 4650	35		Surface Surface	
110000000		<del>/ 6</del>	<del></del>		ement Program: Additional (		<del>-1</del>			
	·			g/Coment 1105	1 4111, 4144		Ullineires			
			P	roposed Blowou	t Prevent	ion Progra	am			
	Туре			Working Pressure		Test Press			Manufacturer '	
	XLT 11"			5000		2000			'National Varco	
of my knowledge	e and belief.		en above is true and with 19.15.14.9 (A)	omplete to the best  NMAC and/or		OIL C	ONSERVA	TION DIV	VISION	
19.15.14.9 (B) N					Approved	By:	\ 0			
Signature:	Spen	on 6				T/U	)ad	2		
Printed Name:	Spencer Ço	ЭX			Title:	57 H	Spenis	N.		
Title: Operation	ons Enginee	r		:	Approved	Date:	. Ex	piration Date:	7-17-2016	
E-mail Address	: scox@li	merockres	ources.com		E	Extension Approved				

Conditions of Approval Attached

District. I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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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

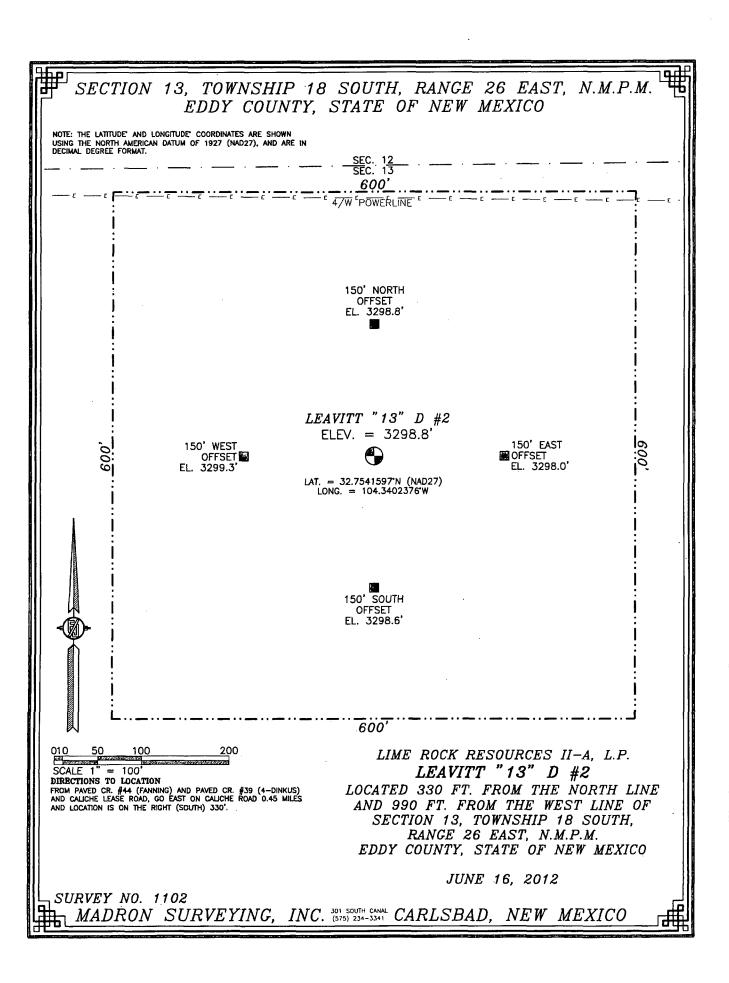
☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

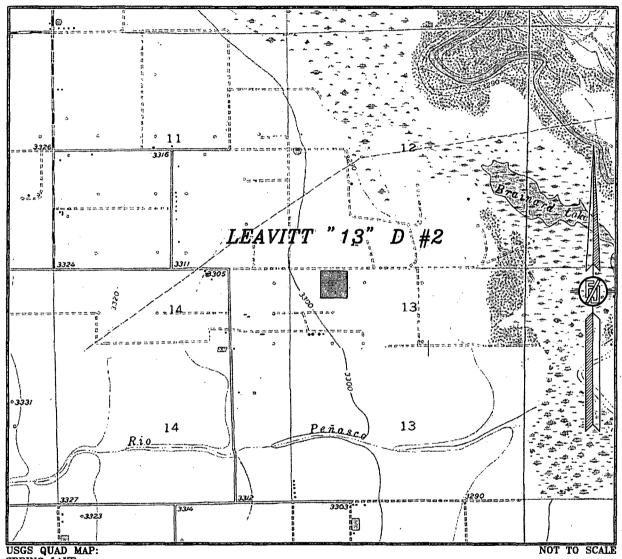
1,	r		<sup>2</sup> Pool Cod	e	<sup>3</sup> Pool Name				
<sup>4</sup> Property Code			1			<sup>6</sup> Well Number			
						2			
<sup>7</sup> OGRID				* Operator	Name			<sup>9</sup> Elevation	
27755			LIME		3298.8				
					" Surface	Location			
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	18 S	26 E		330	NORTH	990	WEST	EDDY
			" F	Bottom H	ole Location	If Different Fr	om Surface		
UL or lot no.	Section Township		Township Range Lot Idn		Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	13 Joint o	Infill 14 C	onsolidation	Code 15 Or	rder 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.

	200:27,42,W	/ 2692.34 FT	S89'27'42"W 2692.34 FT		"OPERATOR CERTIFICATION
	309 21 42 11	COMPUTED	NE CORNER SEC. 13	]	I hereby certify that the information contained herein is true and complete
	990' — 6		LAT. = 32.7551800'N LONG. = 104.3259527'W		to the best of my knowledge and belief, and that this organization either
	\ \ \ \ \ \ \	URFACE	20/10/		owns a working interest or unleased mineral interest in the land including
U		DCATION	!	ᆫ	the proposed bouom hole location or has a right to drill this well at this
SOO		LEAVITT "13" D #2		9	location pursuant to a contract with an owner of such a mineral or working
15	NW CORNER SEC. 13	ELEV. = 3298.8'		32.5	interest, or to a voluntary pooling agreement or a compulsory pooling
4	LAT. = 32.7550409'N LONG. = 104.3434626'W	LAT. = 32.7541597'N (NAD27) LONG. = 104.3402376'W		2682.	order heretofore entered by the division.
11		<del></del>		ш	Spenier 6 4-20-15
2650		ļ į	, , , , , , , , , , , , , , , , , , ,	N00.40'50"E	Signature Date
Ų 4				94	Sprot (cx
		ļ	i ,	Ž	Printed Name
		†	;		
l	1	; ;	;		Final Address
	COMPUTED	! !	COMPUTED		
		NOTE:		İ	"SURVEYOR CERTIFICATION
ł		COORDINATES ARE SHOWN			I hereby certify that the well location shown on this
i		AMERICAN DATUM OF 1927			plat was plotted from field notes of actual surveys
Soc		DECIMAL DEGREE FORMAT.	1	=	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3		1	<u> </u>	Š.	made by me or under my supervision, and that the
41	Ì	, , 	1	2682	same is true and correct to the best of my belief.
r				i	JUNE 16(2012)
2650		!	 	0 1	Date of Survey
50.5		!			/# - N / / / / / / / / / / / / / / / / / /
1		· 		5	THEY SOME THE SOME OF THE
-				ž /∏	Signature and Seal of Professional Surveyor
	SW CORNER SEC. 13	i i	CE CODIED SEC. 17		Certificate Number FILMON HTUSINANILLO, PLS 12797
	LAT. = 32.7404736'N	i i	SE CORNER SEC. 13	Y	SURVEY NO. 1102
	LONG. = 104.3433724'W	COMPUTED	LONG. = 104.3261612'W		338.21.10,1102
	S89'51'28"E	2646.72 FT	S89'51'28"E 2646.72 FT	- 1	



## SECTION 13, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



USGS QUAD MAP: SPRING LAKE LAKE McMILLAN NORTH

LIME ROCK RESOURCES II-A, L.P.

LEAVITT "13" D #2

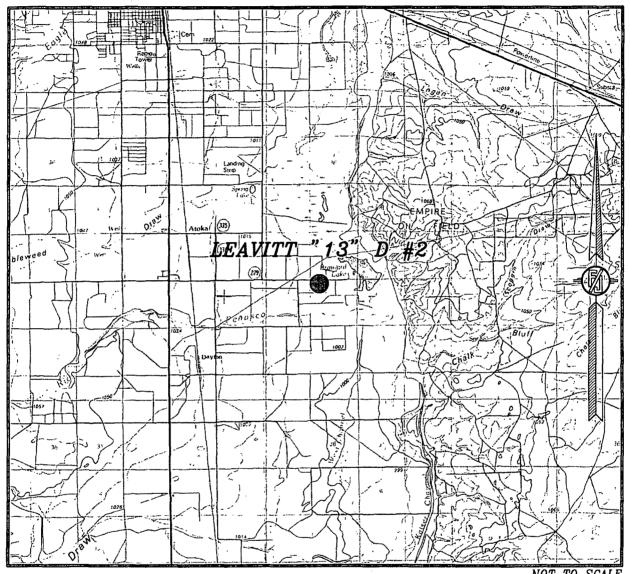
LOCATED 330 FT. FROM THE NORTH LINE
AND 990 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2012

SURVEY NO. 1102

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

## SECTION 13, 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.

LEAVITT "13" D #2

LOCATED 330 FT. FROM THE NORTH LINE

AND 990 FT. FROM THE WEST LINE OF

SECTION 13, TOWNSHIP 18 SOUTH,

RANGE 26 EAST, N.M.P.M.

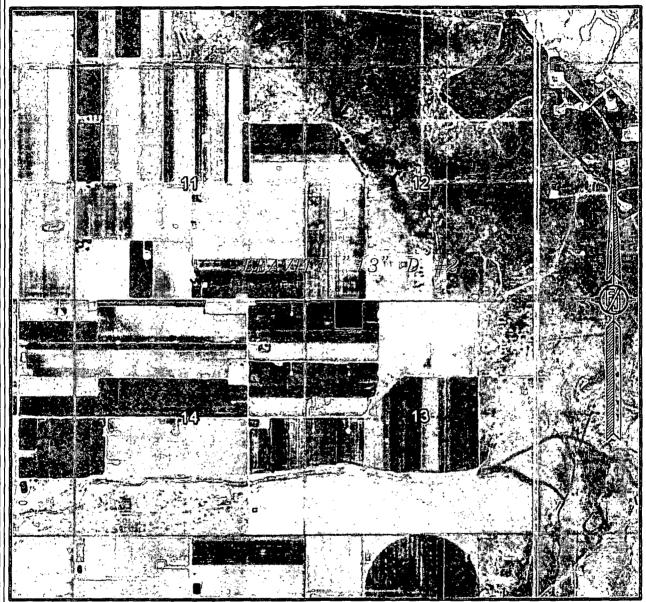
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2012

SURVEY NO. 1102

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

## SECTION 13, 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.

LEAVITT "13" D #2

LOCATED 330 FT. FROM THE NORTH LINE

AND 990 FT. FROM THE WEST LINE OF

SECTION 13, TOWNSHIP 18 SOUTH,

RANGE 26 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2012

SURVEY NO. 1102

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

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

Leavitt 13 D #2 330' FNL 990' FWL (D) 13-18S-26E Eddy County, NM

- 1. The elevation of the unprepared ground is 3298.8 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 4650' 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 4650' MD.
- 5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	NA	NA
Queen	339	339
Grayburg	748	748
Premier	NA	NA
San Andres	1014	1014
Glorieta	2379	2379
Yeso	2545	2545
Tubb	3950	3950
TD	4650	4650

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

	MD	TVD
Yates	NA	NA
7 Rivers	NA	NA
Queen	339	339
Grayburg	748	748
Premier	NA	NA
San Andres	1014	1014
Glorieta	2379	2379
Yeso	2545	2545
Tubb	3950	3950
TD	4650	4650

7. Proposed Casing and Cement program is as follows:

Туре	Hole	Casing	Wt.	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	В	Welded	80	80			Ready Mix
Surface	12-1/4"	8-5/8"	24	J-55	ST&C	425	350	14.8	1.35	Cl C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Intermediate										
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4650	200	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
						•	710	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	0-425	425-4500	4500-4650
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	10.0-12.0	10.0-12.0
WL	NC	NC	20-30
Vis	28-34	· 28-29	32-34
МС	NC	NC	<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 4650 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 2046 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	Operations Engineer	Houston	713-292-9528	432-254-5140	Same as Cell
Eric McClusky	Operations 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
Gary McCelland	Well Site Supervisor	Rotates on Site	NA	903-503-8997	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				

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 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				

.

#### **Pressure Control Equipment**

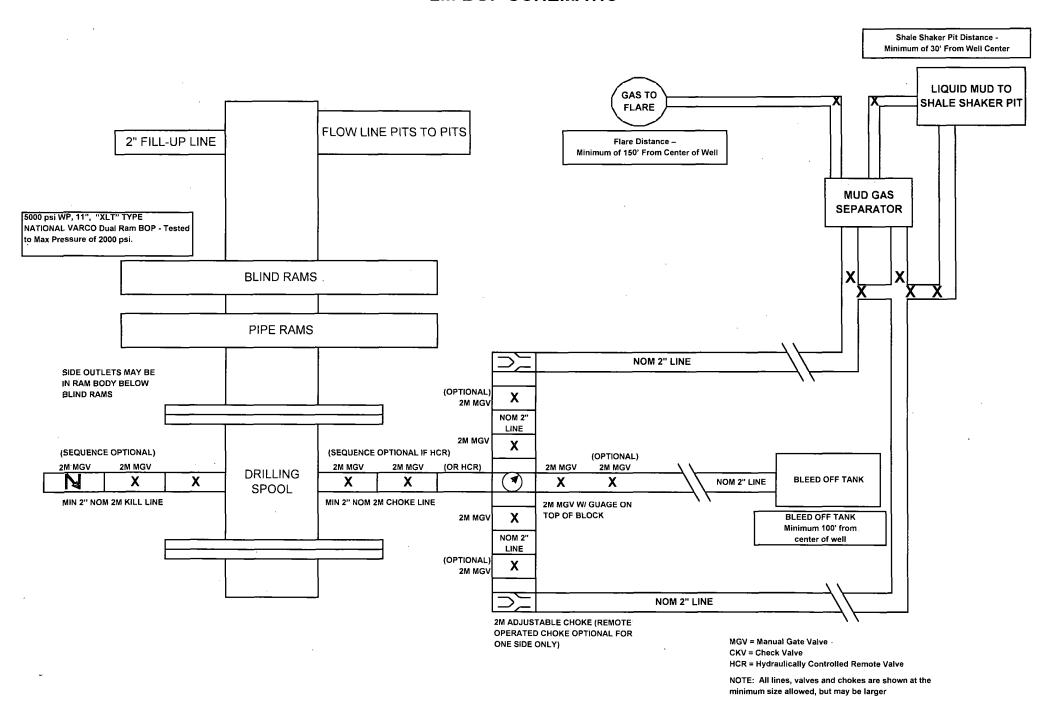
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams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



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

#### **Leavitt 13 D #2**

#### Unit D, S13-T18S-R26E, 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 fluid 2-CRI bins with track system

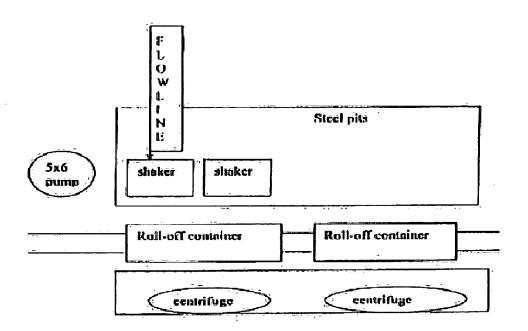
2-500 bbl frac tanks with fresh water 2-500 bbl frac tanks for brine water

#### Operations:

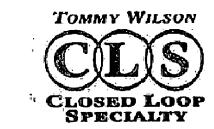
Closed Loop System equipment will be inspected daily by each tour and any necessary maintenance performed. leak in system will be repaired and/or contained immediately. OCD will be notified within 48 hours of any spill. Remediation process will start immediately.

#### Closure:

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



This will be assintained by 24 hour solids control personnel that stay on location.



Office: 979.746.1689

Celli 575.748.6367