## District I. 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 <u>District III</u> 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 EnergyMinerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-101 Revised July 18, 2013

☐ AMENDED Report

Phone: (505) 476-2	3460 Fax: (505)	476-3462										
AP	PPLICA	TION I	Operator Nam	e and Ado	iress	RE-	-ENTER	, DEEPI	EN, PLUGB	ACK, OI  OGRID Number 277:	er	A ZONE
		1111 B	Lime Rock Res agby Street, Suite <sup>2</sup>		•	7002			30-0	API Number	4311	13
314	ronerty Code	<u>`</u>			÷.	ertv Nam Kaiser					Well No. #6	<u> </u>
					<sup>7</sup> Sur	face	Locatio	ní		,		· · · · · · · · · · · · · · · · · · ·
UL - Lot	Section	Township	Range	i	Lot Idn	Feet Fro		V/S Line	Feet From	E/W Line		County
N .	7	18S	27E	<u> </u>		330	)	S	2280	w		Eddy
					roposed Bo							
UL - Lot	Section 7	Township 18S	Range 27E	"	Lot Idn	Feet Fro		V/S Line · S	Feet From 2280 .	E/W Line W		County Eddy
N	1	103	ZIE		O Doo		' formatio		2280 .	<u> </u>		Ludy
					9 100	1 1111	iormatio	<u>[]</u>			<u> </u>	
Red Lake; Glo	orieta-Yeso	,										51120
				A	Additional							
	ork Type N		<sup>10</sup> Well Type O		11 Ca	able/Rota	агу	rv 12 Lease Tyne			<sup>13</sup> Ground Level Elevation 3285.5	
	Aultiple	-	15 Proposed Depth		16 F	Formatio	on	1	17 Contractor 18 Soud Da			
Depth to Grou	N Ind Water:		550' MD / 4550' T		nearest fresh w	Yeso	هاا:	United Drilling, Inc.			M nearest surface water: 0.26 Acres	
Depth to Grou	mid Water.		8 Ft.	cc nom	i ilcarest iresii w	aici w	CII.	· 0.4 N	files Distance in	m nearest sur	race water.	0.26 Miles
X We will	l be using a	closed-loop	system in lieu of l		s osed Casi	ng a	ınd Cem	ent Prog	ram			
Туре	Hol	e Size	Casing Size		Casing Weight/f			ng Depth	Sacks of (	Cement	Estir	nated TOC
Conducto	r 2	26"	20"		91.5			80	80	Surface		Surface
Surface	12-	-1/4"	8-5/8"		24			425		)	9	Surface
Production	n 7-	7/8"	5-1/2"		17		4	4550		Surface		Surface
			' Casir	ıg/Ce	ement Pro	grar	m: Addit	ional Co	mments			
			P	ropo	sed Blowo	ut P	revention	n Progra	m ·			
	Type		,	Workin	g Pressure		Test Pressure			Manufacturer		
XLT 11" 5000					2000		1	National Varco				
of my knowled	lge and belief ify that I hav NMAC 0, if	ve complied applicable	with 19.15.14.9 (A		_	,	Approved By		ONSERVAT	6	/ISION	
			<del> · · · · · · · · · · · · · · · · · </del>			-			- Oylen		-1	
Title: Produ							Approved Dat	«5/HO/	か <sup>ー</sup> Ex	piration Date:	5/20/6	2017
E-mail Addres	ss: scox@	limerockres	ources.com			ll l					•	

Conditions of Approval Attached

Phone: 713-292-9528

Date: 5/13/2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe. NM 87505

District IV

# 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 October 15,2009 Submit one copy to appropriate District Office

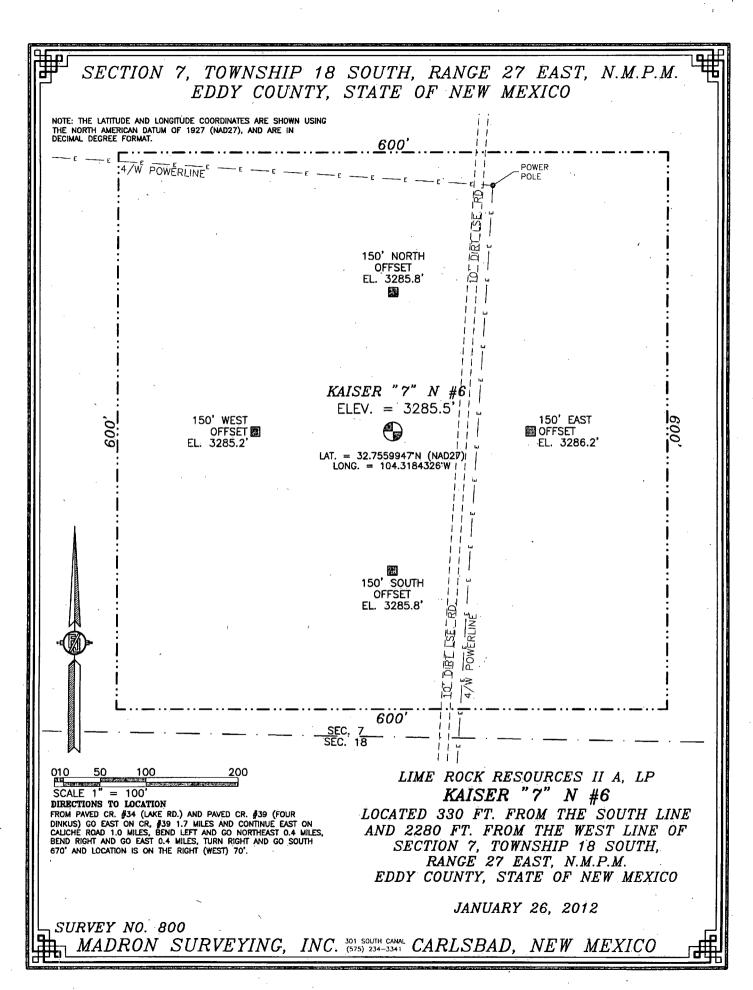
☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

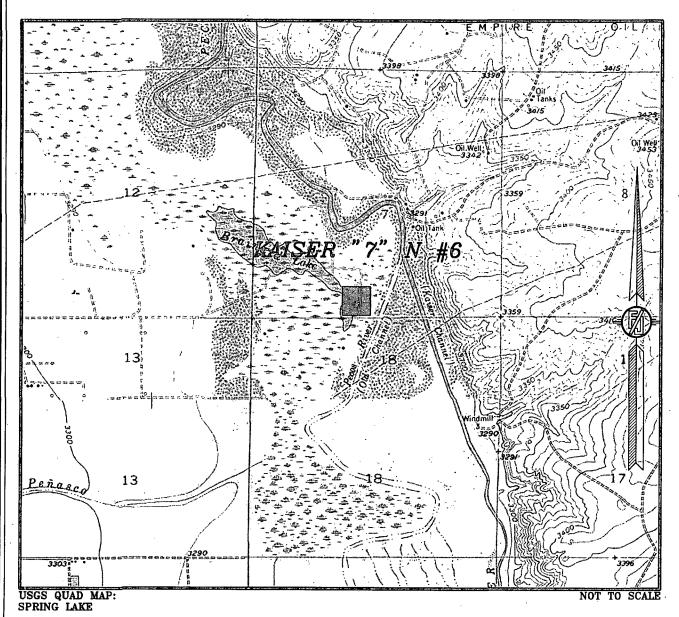
30.0		-43113		2 Pool Code 5/12C	5 R	ed Lake;	6/02/el	ame a - 109				
Property	_عەو	-	Property Name									
21783	50 I				KAISER	t "7" N			6			
OGRID	No.				* Operato	r Name			<sup>9</sup> Elevation			
27755	8			LIME	ROCK RESO	DURCES II A, LF	•		3285.5			
		•			<sup>10</sup> Surface	Location			•			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West I	ine County			
N .	7	18 S 27 E		18 S 27 E		7 E 33		SOUTH	2280	WEST	EDDY	
		<u> </u>	" Во	ttom Hol	e Location	If Different Fron	n Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West I	ine County			
-							,		-			
12 Dedicated Acres	13 Joint of	r Infill   14 Cons	solidation (	Code 15 Or	der No.	<u> </u>	·		1			
						•			•			
	<u></u>											
	1											

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.

NW CORNER SEC. 7 LAT. = 32.7697073'N LONG. = 104.3258587'W			NE CORNER SEC. 7 LAT. = 32.7694492'N LONG. = 104.3085085'W	17 OPERATOR CERTIFICATION  I 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 interest or unleased mineral interest in the land including
	1 	, 		the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27), AND ARE IN DECIMAL DEGREE FORMAT.				Segron Les 5-13-15 Signafure Date
	 	 		Printed Name  Spances Ces  INSURVEYOR CERTIFICATION
	 	 		I hereby 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 the bestofinishelief.
OW 000UED 050 7	I (	KAISER "7" N #6   ELEV. = 3285.5'   LAT. = 32.7559947'N   LONG. = 104.318432		Date of Solvers Market Colony
SW CORNER SEC. 7 LAT. = 32.7551936'N LONG. = 104.3258466'W 	0,	SURFACE / LOCATION	SE CORNER SEC. 7 LAT. = 32.7549446'N LONG. = 104.3085334'W	Signature did Sealtof rolessional Surveyor:  Certificate Numbers Fillmon F. Jaramille (1995) 12797  Strive Vano. 800



## SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



LIME ROCK RESOURCES II A, LP

KAISER "7" N #6

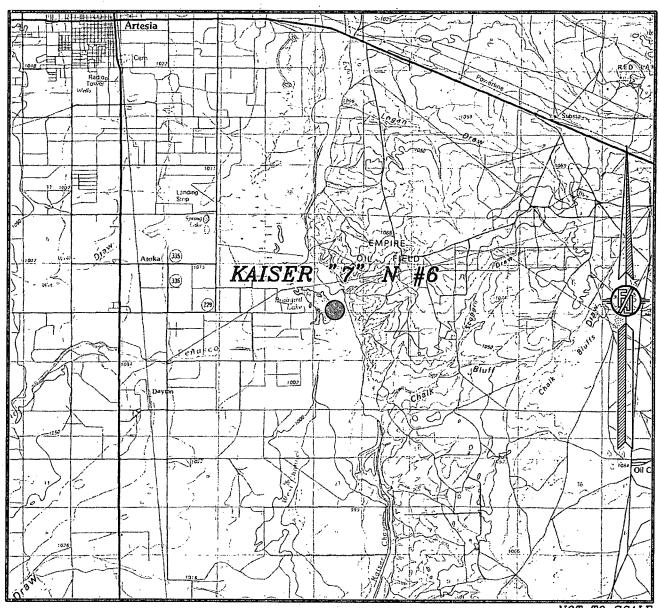
LOCATED 330 FT. FROM THE SOUTH LINE
AND 2280 FT. FROM THE WEST LINE OF
SECTION 7, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 26, 2012

SURVEY NO. 800

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

## SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



NOT TO SCALE

LIME ROCK RESOURCES II A, LP

KAISER "7" N #6

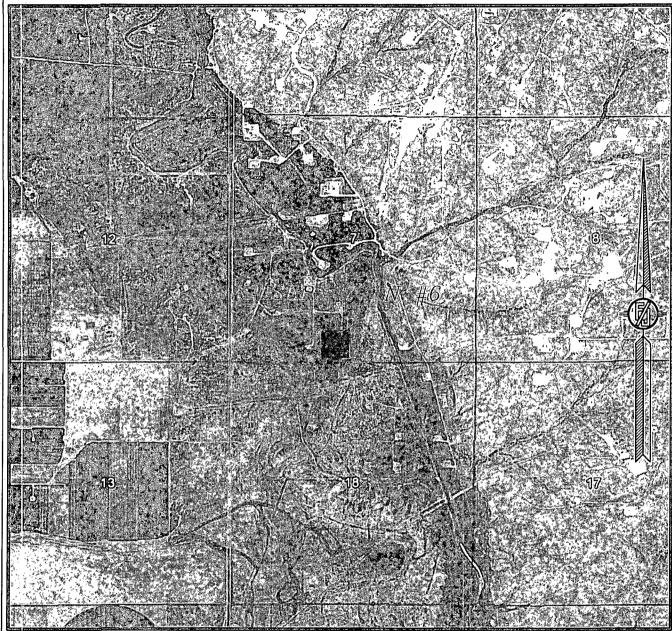
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EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 26, 2012

SURVEY NO. 800

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

## SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 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, LP

KAISER "7" N #6

LOCATED 330 FT. FROM THE SOUTH LINE
AND 2280 FT. FROM THE WEST LINE OF
SECTION 7, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 26, 2012

SURVEY NO. 800

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

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

Kaiser 7 N #6 330' FSL 2280' FWL (N) 7-18S-27E Eddy County, NM

- 1. The elevation of the unprepared ground is 3285.5 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 4550' 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 4550' MD.
- Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	20	20
Queen	439	439
Grayburg	1026	1026
Premier	NA	NΑ
San Andres	1063	1063
Glorieta	2463	2463
Yeso	2618	2618
Tubb	4118	4118
TD	4550	4550

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

	MD	TVD
Yates	NA	NA
7 Rivers	20	20
Queen	439	439
Grayburg	1026	1026
Premier	NA	NA
San Andres	1063	1063
Glorieta	2463	2463
Yeso	2618	2618
Tubb	4118	4118
TD	4550	4550

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	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Intermediate										
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4550	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
<u> </u>		_					. 690	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	425-4400	4400-4550
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties			
MW	8.4-9.2	9.8-10.1	9.9-10.1
, pH	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 4550 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 2002 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**

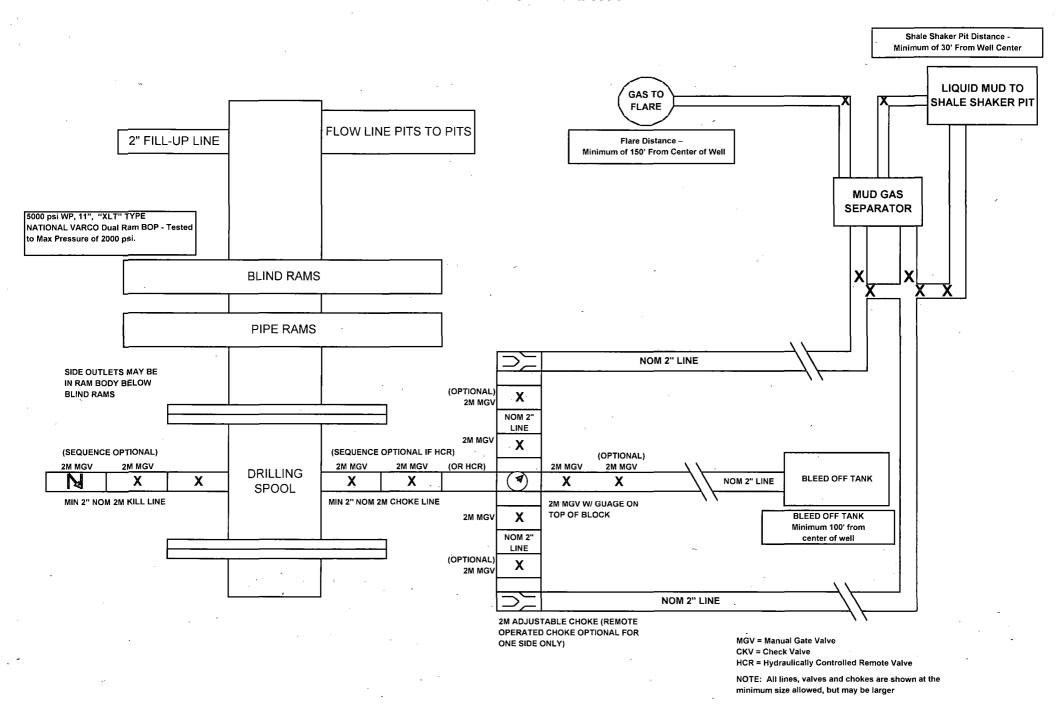
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams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

#### Kaiser 7 N #6

### Unit N, S7-T18S-R27E, 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

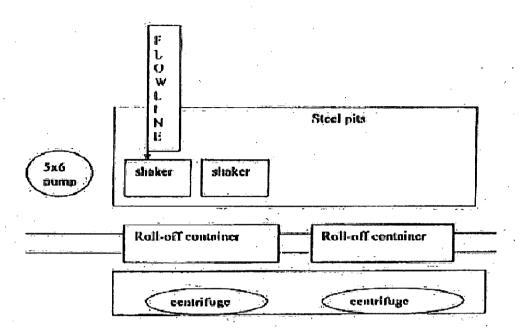
2-500 bbl frac tanks for brine water

#### **Operations:**

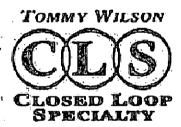
Closed Loop System equipment will be inspected daily by each tour and any necessary maintenance performed. leak in system will be repaired and/or contained immediately. OCD will be notified within 48 hours of any spill. Remediation process will start immediately.

#### **Closure:**

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



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



Office: 919.746.1689

Call: 579.748.6367

### **Permit Conditions of Approval**

API:

30-0 /5-43/13

OCD Reviewer	Condition
ROD	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