

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

State of New Mexico
Energy Minerals and Natural Resources

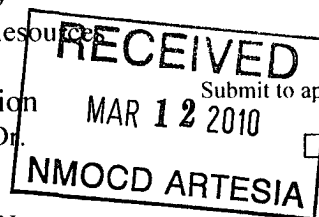
Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-101

June 16, 2001

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE**

¹ Operator Name and Address Lime Rock Resources A. L.P. 1111 Bagby St., Suite 4600 Houston, TX 77002		² OGRID Number 255333
³ Property Code 305463		⁴ API Number 30 - 015 - 37692
⁵ Property Name Kersey State		⁶ Well No. 4
⁹ Proposed Pool 1 Artesia; Glorieta-Yeso (96830)		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	17S	28E		360	SOUTH	990	EAST	EDDY

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3629'
¹⁶ Multiple N	¹⁷ Proposed Depth 5,200'	¹⁸ Formation Lower Yeso	¹⁹ Contractor United	²⁰ Spud Date 8/02/10

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	450'	375sx "C" + add.	Surface
7 7/8"	5 1/2"	15.5#	5,200'	500 sx 35/65 Poz/C	Lead
				550 sx C	Tail to surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Lime Rock Resources A. L. P. proposes to drill/test the Lower Yeso formation. Approximately 450 feet will be drilled with fresh water, then set and cement 8 5/8" surface casing to 450 feet.

Drill 7 7/8" hole to T.D. at approx. 4,800'. Run O/H logs. Set 5 1/2" casing to T.D. and cement will be circulated back to surface.

Will perforate the Yeso formation and stimulate, as necessary, for optimum production. Produce well by flowing or pumping.

H2S levels are not expected to be high enough to require an H2S contingency program.

See exhibit "A" for BOP.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

George R. Smith

Printed name

George R. Smith

Title:

POA agent for Lime Rock Resources A. L. P.

E-mail Address

gr.smith1@hotmail.com

Date:

3/10/10

Phone:

575-623-4940

OIL CONSERVATION DIVISION

Approved by

Jason R. Geologist

Title

Approval Date:

3/23/2010

Expiration Date:

3/23/2012

Conditions of Approval Attached ☐

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410

11885 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 96830	Pool Name Artesia; GL-Yeso ✓
Property Code 305463 /	Property Name KERSEY STATE	Well Number 4
OGRID No. 255333	Operator Name LIME ROCK RESOURCES A, L.P.	Elevation 3666'

Surface Location

UL or lot No. P	Section 32	Township 17-S	Range 28-E	Lot Idn	Feet from the 360	North/South line SOUTH	Feet from the 990	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order 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

GEODETIC COORDINATES
NAD 27 NME

SURFACE LOCATION

Y=649187.0 N
X=543439.8 E

LAT.=32.784626° N
LONG.=104.191986° W

OPERATOR CERTIFICATION

I hereby certify that the information 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 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

George R. Smith 3/10/10
Signature Date

George R. Smith, POA agent
Printed Name

SURVEYOR CERTIFICATION

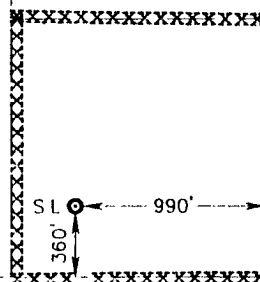
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 11 2010

Date Surveyed DSS
Signature & Seal of Professional Surveyor

Gary G. Eidson 2/5/10
10.11.0118

Certificate No. GARY G. EIDSON 12641
RONALD J. EIDSON 3239



BOP DIAGRAM 3000# SYSTEM

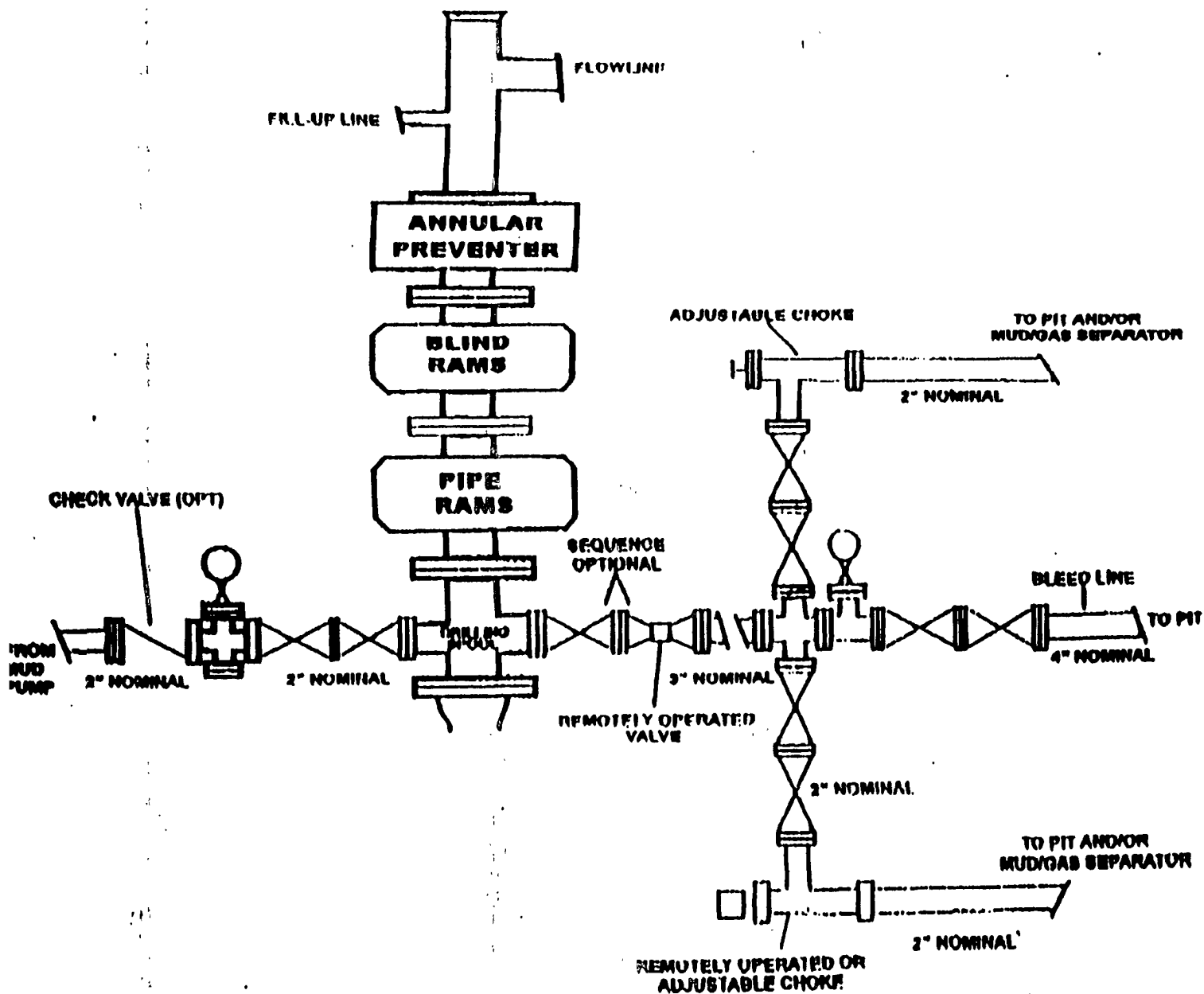


EXHIBIT "A"
LIME ROCK RESOURCES A, L.P.
BOP Specifications