

RM

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

Form C-101  
June 16, 2008

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

RECEIVED

OCT 6 2009

☐ AMENDED REPORT

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

NMOCD ARTESIA

<sup>1</sup> Operator Name and Address Lime Rock Resources A. L.P. 1111 Bagby St., Suite 4600 Houston, TX 77002		<sup>2</sup> OGRID Number 255333
<sup>3</sup> Property Code 305450	<sup>5</sup> Property Name Welch RL State	<sup>3</sup> API Number 30 - 015-37314
<sup>9</sup> Proposed Pool 1 Artesia; Glorieta-Yeso (96830) /		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	28	17S	28E		1650	North	2310	West	Eddy

<sup>8</sup> 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

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3626'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 3,700'	<sup>18</sup> Formation Yeso	<sup>19</sup> Contractor United	<sup>20</sup> Spud Date 10/28/09

<sup>21</sup> 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#	360'	350 sx "C" + add	Surface
7 7/8"	5 1/2"	14#	3700'	400 sx Lite+350sx Poz	Surface

<sup>22</sup> 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 Yeso formation. Approximately 360 feet will be drilled with fresh water, then set and cement 8 5/8" surface casing to 360 feet.

Drill 7 7/8" hole to T.D. at approx. 3,700'. 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

<sup>23</sup> 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.smith130@yahoo.com

Date  
10/05/09

Phone  
575-623-4940

OIL CONSERVATION DIVISION

Approved by:

*Jaqui Reever*  
Geologist

Approval Date:

10/13/2009

Expiration Date:

10/13/2011

Conditions of Approval Attached ☐

DISTRICT I  
1626 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30-015-37314</b>	Pool Code 96830	Pool Name Artesia; Glorita-Yeso
Property Code 305450	Property Name WELCH RL STATE	Well Number 5
OGRID No. 255333	Operator Name LIME ROCK RESOURCES A, L.P.	Elevation 3626'

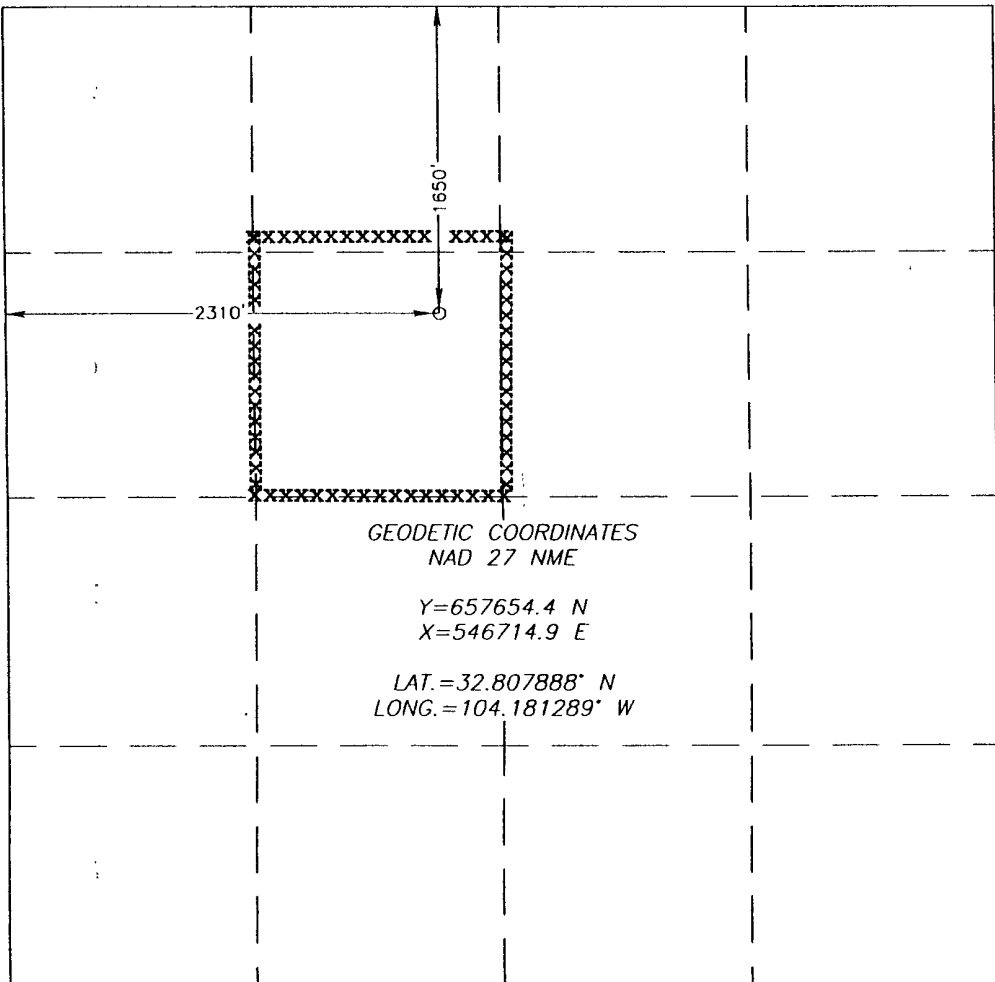
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	28	17-S	28-E		1650	NORTH	2310	WEST	EDDY

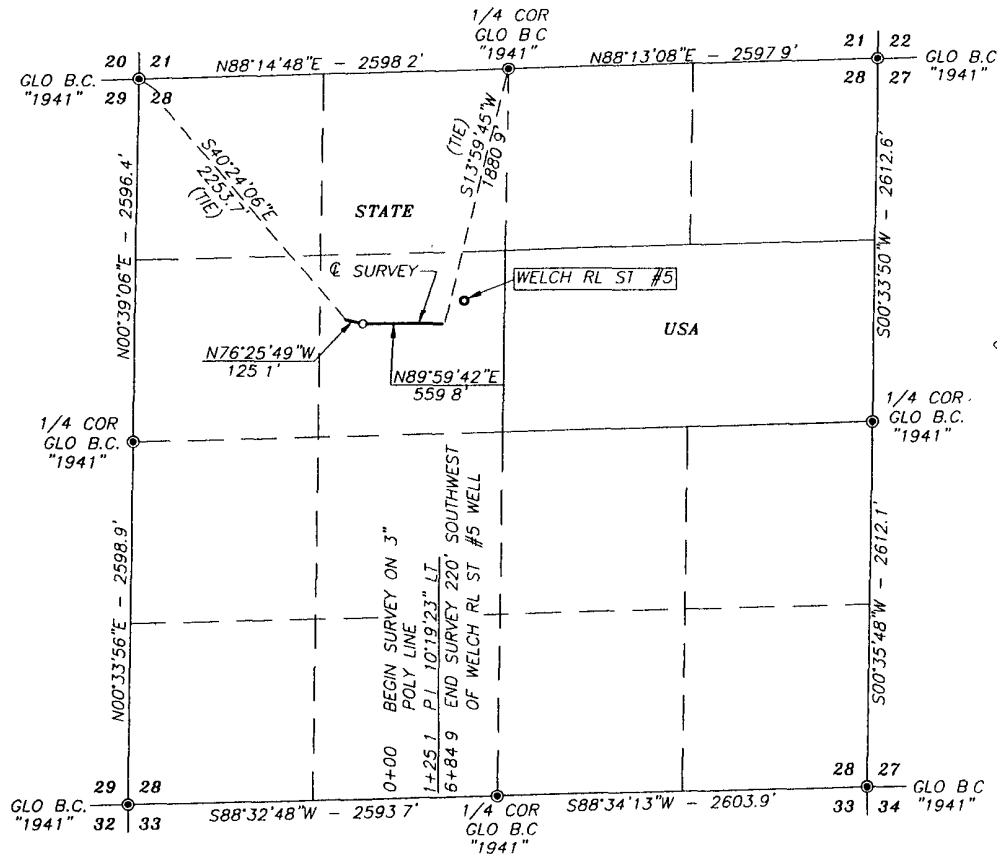
Bottom Hole Location If Different From Surface

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

 <p>GEODETC COORDINATES NAD 27 NME Y=657654.4 N X=546714.9 E LAT.=32.807888° N LONG.=104.181289° W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>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.</p> <p><i>George R. Smith</i> 10/05/09 Signature Date George R. Smith, POA agent Printed Name</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p><i>Ronald J. Eidson</i> 922-09 Date Surveyed Signature &amp; Seal of Professional Surveyor SEPTEMBER 14, 2009 LA 09-11-0843</p> <p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>
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SECTION 28, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 28, TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM, EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION, WHICH LIES S40°24'06\"E 2253.7 FEET FROM THE NORTHWEST CORNER OF SAID SECTION; THEN S76°25'49\"E 125.1 FEET; THEN N89°59'42\"E 559.8 FEET TO A POINT IN SAID SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION, WHICH LIES S13°59'45\"W 1880.9 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION

SAID STRIP OF LAND BEING 684.9 FEET OR 41.51 RODS IN LENGTH, CONTAINING 0.472 ACRES MORE OR LESS AND BEING LOCATED ENTIRELY IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER.

NOTE: BEARINGS SHOWN HEREON ARE  
MERCATOR GRID AND CONFORM TO THE  
NEW MEXICO COORDINATE SYSTEM  
"NEW MEXICO EAST ZONE" NORTH  
AMERICAN DATUM 1983. DISTANCES  
ARE SURFACE VALUES

I HEREBY CERTIFY THAT I DIRECTED AND AM  
RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY IS  
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE  
AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET  
THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO

1000 0 1000 2000 FEET  
Scale: 1"=1000'

*Ronald J. Eidson* 9-22-09  
RONALD J. EIDSON, N.M.P.S. No. 3239  
GARY G. EIDSON, N.M.P.S. No. 12641

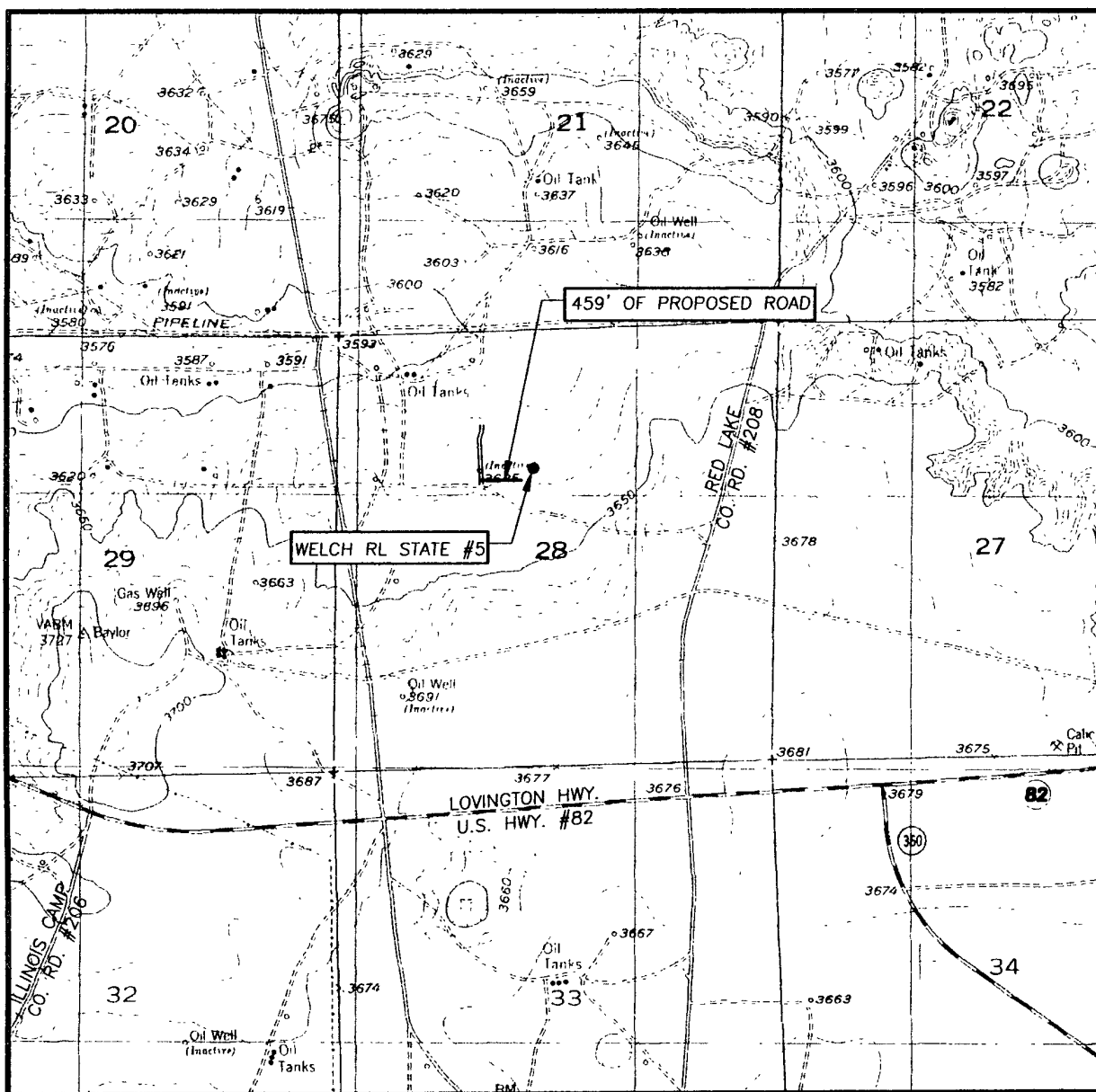
PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(575) 393-3117

LIME ROCK RESOURCES A, L.P.

SURVEY A PIPELINE EASEMENT CROSSING  
SECTION 28, TOWNSHIP 17 SOUTH, RANGE 28 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 9/14/09	Sheet 1 of 1 Sheets
W.O. Number: 09.11 0843	Drawn By: LA
Date: 9/21/09	09110843

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
RED LAKE, N.M. - 10'

SEC. 28 TWP. 17-S RGE. 28-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

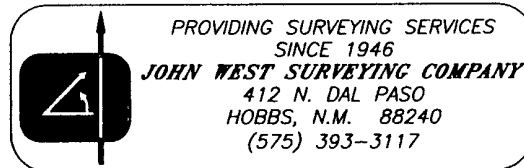
DESCRIPTION 1650' FNL & 2310' FWL

ELEVATION 3626'

OPERATOR LIME ROCK  
RESOURCES A, L.P.

LEASE WELCH RL STATE

U.S.G.S. TOPOGRAPHIC MAP  
RED LAKE, N.M.



# BOP DIAGRAM 3000# SYSTEM

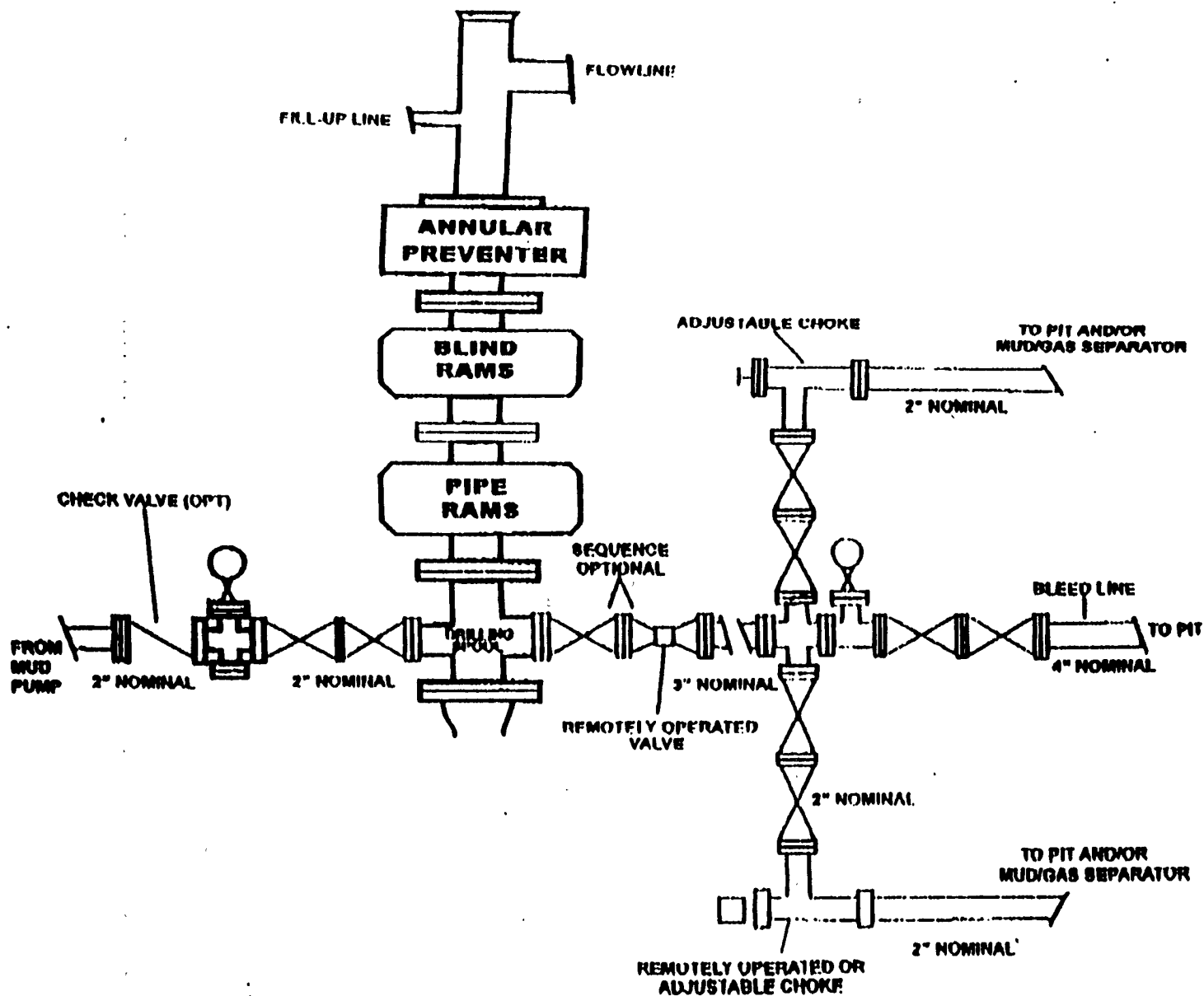
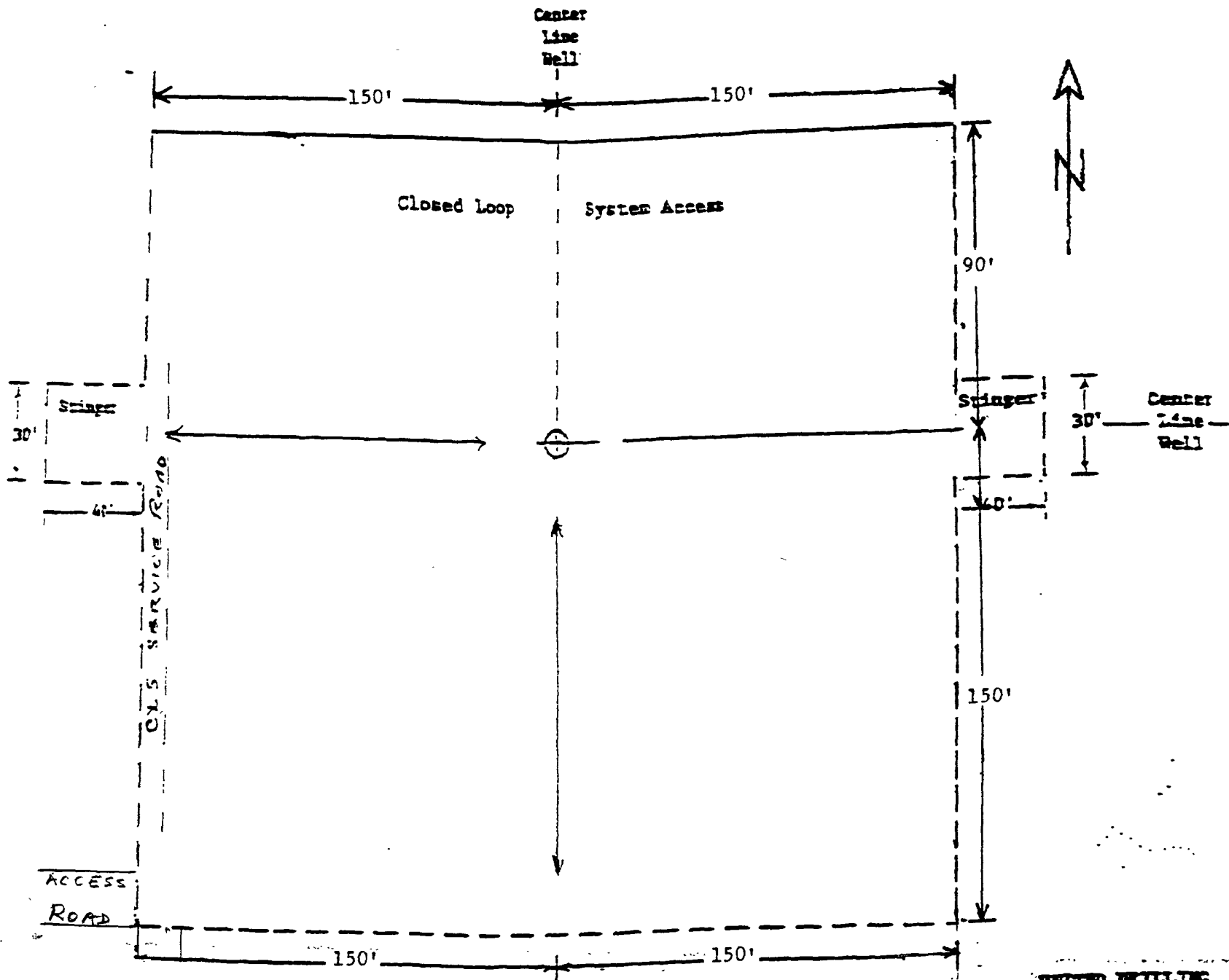


EXHIBIT "A"



UNITED DRILLING, INC.

LOCATION PLAT

ETC