

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

**NM OIL CONSERVATION** State of New Mexico  
**ARTESIA DISTRICT** Energy, Minerals and Natural Resources

Form C-101  
 Revised July 18, 2013

**JUL 27 2017** Oil Conservation Division  
 1220 South St. Francis Dr  
**RECEIVED** Santa Fe, NM 87505

AMENDED Report

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

Operator Name and Address Lime Rock Resources II-A, L P 1111 Bagby Street, Suite 4600 Houston, Texas 77002		OGRID Number 277558
Property Code <del>318420</del> 318420		API Number 30-015-21686
Property Name Jerry Nelson Com		Well No #1

**7 Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	14	18S	26E		994	N	1642	W	Eddy

**8 Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	14	18S	26E		994	N	1642	W	Eddy

**9 Pool Information**

Atoka; Clarieta-Yeso	3250
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**Additional Well Information**

Work Type <b>X E</b>	Well Type O	Cable/Rotary R	Lease Type P	Ground Level Elevation 3315.6
Multistage N	Proposed Depth 4300' MD / 4300' TVD	Formation Yeso	Contractor	Soud Date After 8/1/2017
Depth to Ground Water 100 Ft	Distance from nearest fresh water well 0.127 Miles		Distance from nearest surface water 1.84 Miles	

We will be using a closed-loop system in lieu of lined

**19 Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Conductor	24"	16"	94	115	400	Surface
Surface	17.5"	13-3/8"	42	1120	750	Surface
Intermediate	12-1/4"	8-5/8"	24	1855	950	Surface
Production	7 7/8"	5 1/2"	17	4300'	900	Surface

**Casing/Cement Program: Additional Comments**

Originally drilled in December 1975, completed in Morrow P&A'd June 1996 & 4.5" removed from surface to 6307'

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
XLT 11"	5000	2000	National Varco

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

I further certify that I have complied with 19.15.14.9 (A)  and/or 19.15.14.9 (B) NMAC 0, if

Signature: *Eric P. McClusky*

Printed Name: Eric McClusky

Title: Operations Engineer

E-mail Address: emcllusky@limerockresources.com

Date: 7/24/2017

Phone: 713-360-5714

**OIL CONSERVATION DIVISION**

Approved By:

*Jaren Sharp*

Title

*Staff Mgr*

Approved Date:

*7-27-17*

Expiration Date:

*7-27-19*

Conditions of Approval Attached

District I  
1625 N. French Dr., Hobbs, NM 88240  
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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  
ARTESIA DISTRICT, Submit one copy to appropriate  
District Office

JUL 27 2017

RECEIVED

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-21686	<sup>2</sup> Pool Code 3250	<sup>3</sup> Pool Name ATOKA, GLORIETA-YESO
<sup>4</sup> Property Code	<sup>5</sup> Property Name JERRY NELSON COM	
<sup>7</sup> OGRID No. 277558	<sup>8</sup> Operator Name LIME ROCK RESOURCES II-A, L.P.	<sup>6</sup> Well Number 1
<sup>9</sup> Elevation 3315.6		

<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 line	County
C	14	18 S	26 E		994	NORTH	1642	WEST	EDDY

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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.

**NOTE:**  
LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83), BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE, VERTICAL DATUM NAVD88.

**<sup>17</sup> 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 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

Mike Pippin 7/26/17  
Signature Date

MIKE PIPPIN  
Printed Name

MIKE@PIPPINLLC.COM  
E-mail Address

---

**<sup>18</sup> 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.

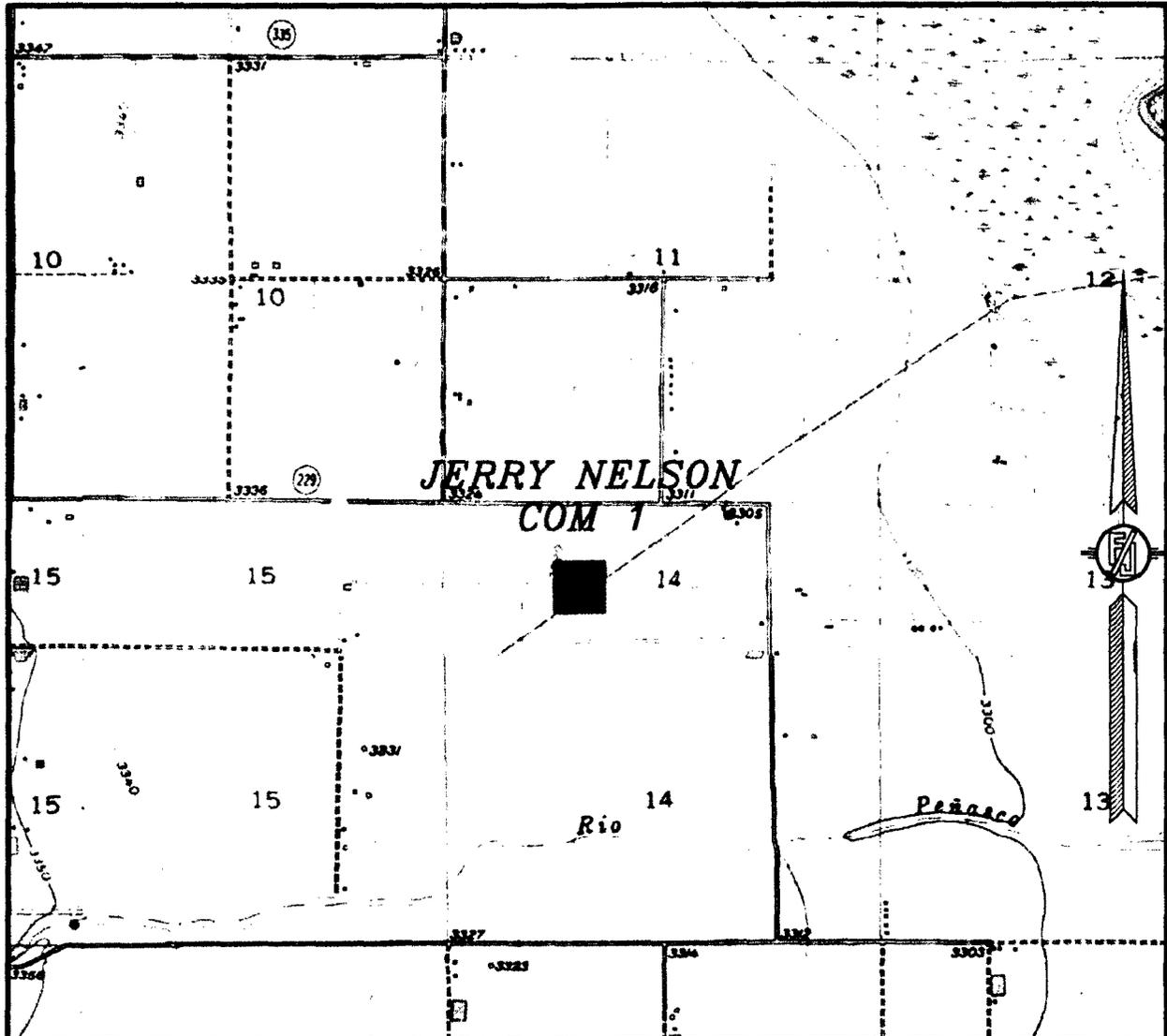
JULY 13, 2017  
Date of Survey

[Signature]  
Signature and Seal of Professional Surveyor

Certificate Number: FILIMON F. JARAMILLO, PLS 12797  
SURVEY NO. 5362



SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 LOCATION VERIFICATION MAP



USGS QUAD MAP:  
 SPRING LAKE

NOT TO SCALE

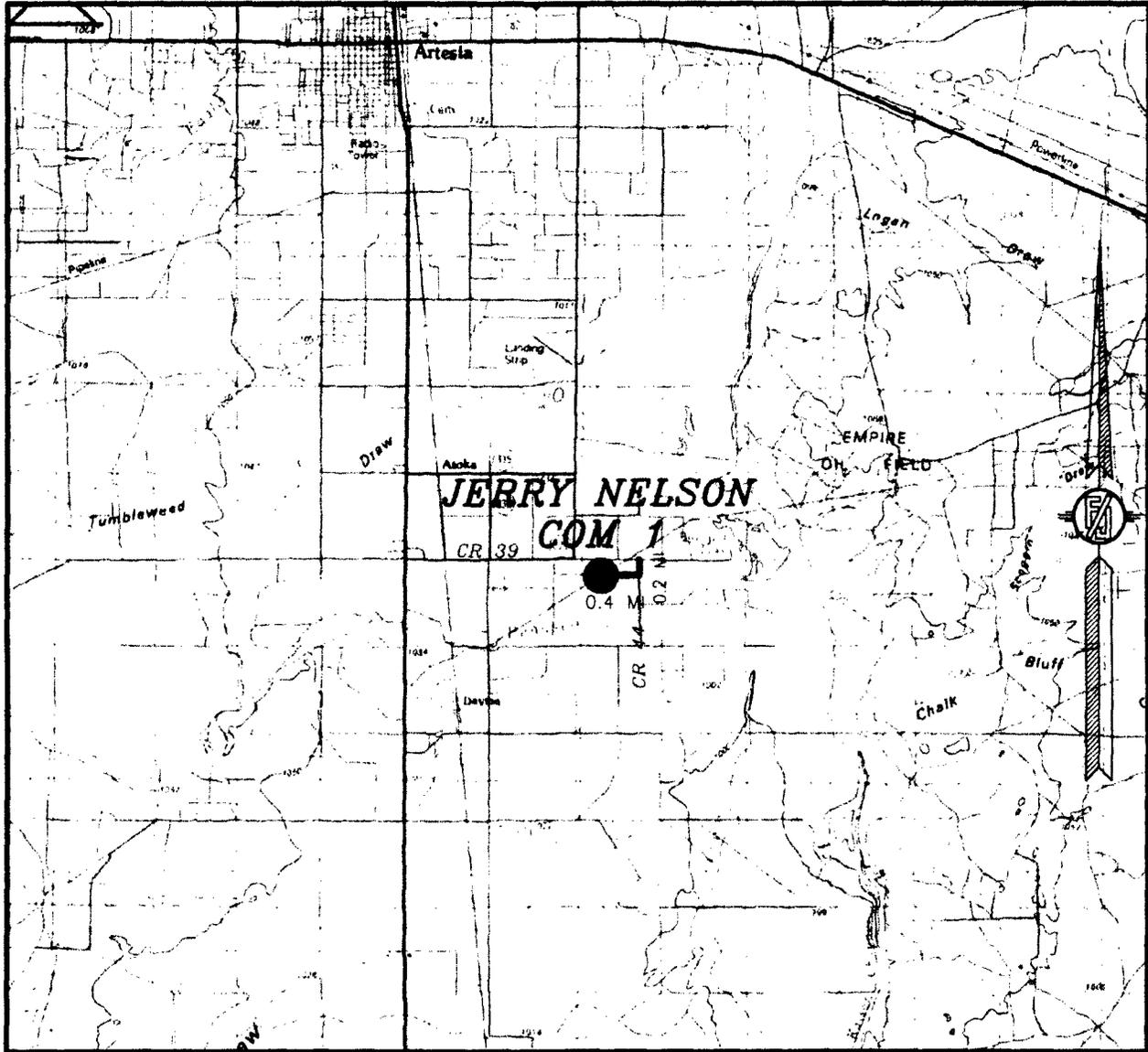
LIME ROCK RESOURCES II-A, L.P.  
**JERRY NELSON COM 1**  
 LOCATED 994 FT. FROM THE NORTH LINE  
 AND 1642 FT. FROM THE WEST LINE OF  
 SECTION 14, TOWNSHIP 18 SOUTH,  
 RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JULY 13, 2017

SURVEY NO. 5362

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (575) 234-3341

SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

**DIRECTIONS TO LOCATION**

FROM CR 39 (FOUR DINKUS) AND CR 44 (FANNING) GO SOUTH ON CR 44 0.2 OF A MILE, TURN RIGHT ON RIVER ROCK ROAD AND GO WEST 0.4 OF A MILE TO EAST EDGE OF PAD FOR THIS LOCATION.

LIME ROCK RESOURCES II-A, L.P.  
**JERRY NELSON COM 1**  
 LOCATED 994 FT. FROM THE NORTH LINE  
 AND 1642 FT. FROM THE WEST LINE OF  
 SECTION 14, TOWNSHIP 18 SOUTH,  
 RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JULY 13, 2017

SURVEY NO. 5362

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (575) 234-3341

SECTION 14, 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  
MARCH 2016

LIME ROCK RESOURCES II-A, L.P.  
JERRY NELSON COM 1  
LOCATED 994 FT. FROM THE NORTH LINE  
AND 1642 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 18 SOUTH,  
RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

JULY 13, 2017

SURVEY NO. 5362

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341

SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
ACCESS AERIAL ROUTE MAP



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
MARCH 2018

**LIME ROCK RESOURCES II-A, L.P.  
JERRY NELSON COM 1**  
LOCATED 994 FT. FROM THE NORTH LINE  
AND 1642 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 18 SOUTH,  
RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

JULY 13, 2017

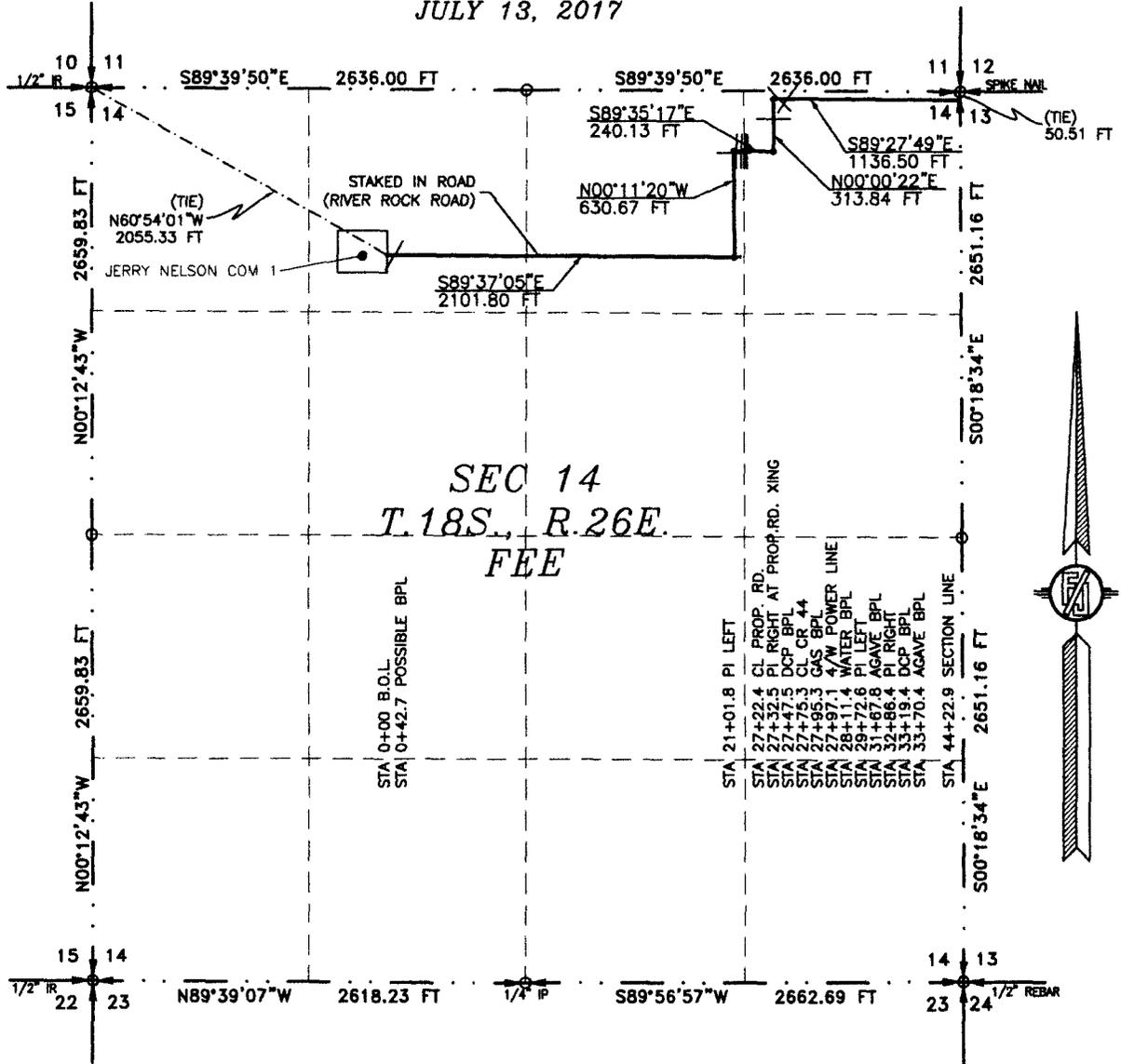
SURVEY NO. 5362

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341

**FLOWLINE PLAT**

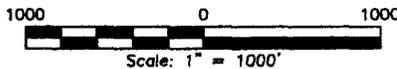
TWO 3" BURIED POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE JERRY NELSON COM 1 TO THE TERRY HEADER AT THE LEAVITT TANK BATTERY

LIME ROCK RESOURCES II-A, L.P.  
 CENTERLINE SURVEY OF A PIPELINE CROSSING  
 SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JULY 13, 2017



SEC 14  
 T. 18S., R. 26E.  
 FEE

SEE NEXT SHEET (2-8) FOR DESCRIPTION



**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED 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 LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 17 DAY OF JULY 2017

*Filimon F. Jaramillo*  
 FILIMON F. JARAMILLO PLS. 12797

MADRON SURVEYING, INC.  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 Phone (575) 234-3341

SHEET: 1-8

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 5362

**FLOWLINE PLAT**

**TWO 3" BURIED POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE JERRY NELSON COM 1 TO THE TERRY HEADER AT THE LEAVITT TANK BATTERY**

**LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 13, 2017**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N60°54'01"W, A DISTANCE OF 2055.33 FEET;  
THENCE S89°37'05"E A DISTANCE OF 2101.80 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N00°11'20"W A DISTANCE OF 630.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE S89°35'17"E A DISTANCE OF 240.13 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N00°00'22"E A DISTANCE OF 313.84 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE S89°27'49"E A DISTANCE OF 1136.50 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N00°18'34"W, A DISTANCE OF 50.51 FEET;

SAID STRIP OF LAND BEING 4422.94 FEET OR 268.06 RODS IN LENGTH, CONTAINING 3.046 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4	840.43 L.F.	50.94 RODS	0.579 ACRES
NW/4 NE/4	1951.43 L.F.	118.27 RODS	1.344 ACRES
NE/4 NE/4	1631.08 L.F.	98.85 RODS	1.123 ACRES

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED 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 LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 17 DAY OF JULY 2017

*Filimon F. Jaramillo*  
FILIMON F. JARAMILLO PLS. 12797

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SHEET: 2-8**

**MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO**

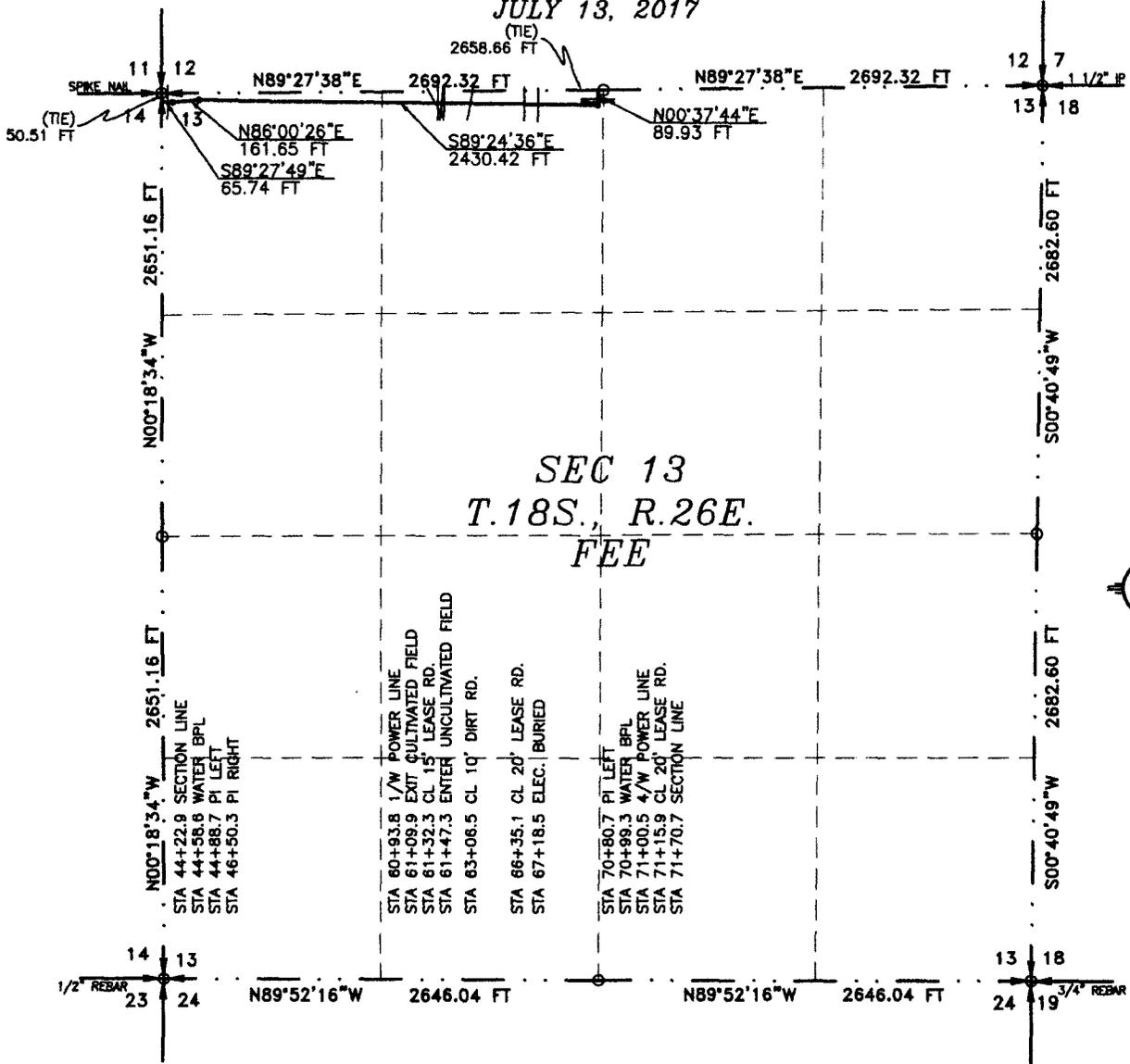
**SURVEY NO. 5362**

301 SOUTH CANAL  
(575) 234-3341

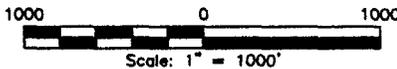
**FLOWLINE PLAT**

TWO 3" BURIED POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE JERRY NELSON COM 1 TO THE TERRY HEADER AT THE LEAVITT TANK BATTERY

LIME ROCK RESOURCES II-A, L.P.  
 CENTERLINE SURVEY OF A PIPELINE CROSSING  
 SECTION 13, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JULY 13, 2017



SEE NEXT SHEET (4-8) FOR DESCRIPTION



**SURVEYOR CERTIFICATE**

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED 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 LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 17 DAY OF JULY 2017

*(Signature of Filmon F. Jaramillo)*  
 FILMON F. JARAMILLO, PLS. 12797

MADRON SURVEYING, INC.  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 Phone (575) 234-3341

**SURVEY NO. 5362**

**GENERAL NOTES**

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**SHEET: 3-8**

**MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO**

**FLOWLINE PLAT**

**TWO 3" BURIED POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE JERRY NELSON COM 1 TO THE TERRY HEADER AT THE LEAVITT TANK BATTERY**

**LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTION 13, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 13, 2017**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 13, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 13, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 13, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N00°18'34"W, A DISTANCE OF 50.51 FEET;

THENCE S89°27'49"E A DISTANCE OF 65.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N86°00'26"E A DISTANCE OF 161.65 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S89°24'36"E A DISTANCE OF 2430.42 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N00°37'44"E A DISTANCE OF 89.93 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 13, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S89°27'38"W, A DISTANCE OF 2658.86 FEET;

SAID STRIP OF LAND BEING 2747.74 FEET OR 166.53 RODS IN LENGTH, CONTAINING 1.892 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 1348.35 L.F. 81.60 RODS 0.927 ACRES  
NE/4 NW/4 1401.39 L.F. 84.93 RODS 0.965 ACRES

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED 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 LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 17 DAY OF JULY 2017

*Filimon F. Jaramillo*  
FILIMON F. JARAMILLO PLS. 12797  
MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

**GENERAL NOTES**

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SHEET: 4-8**

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

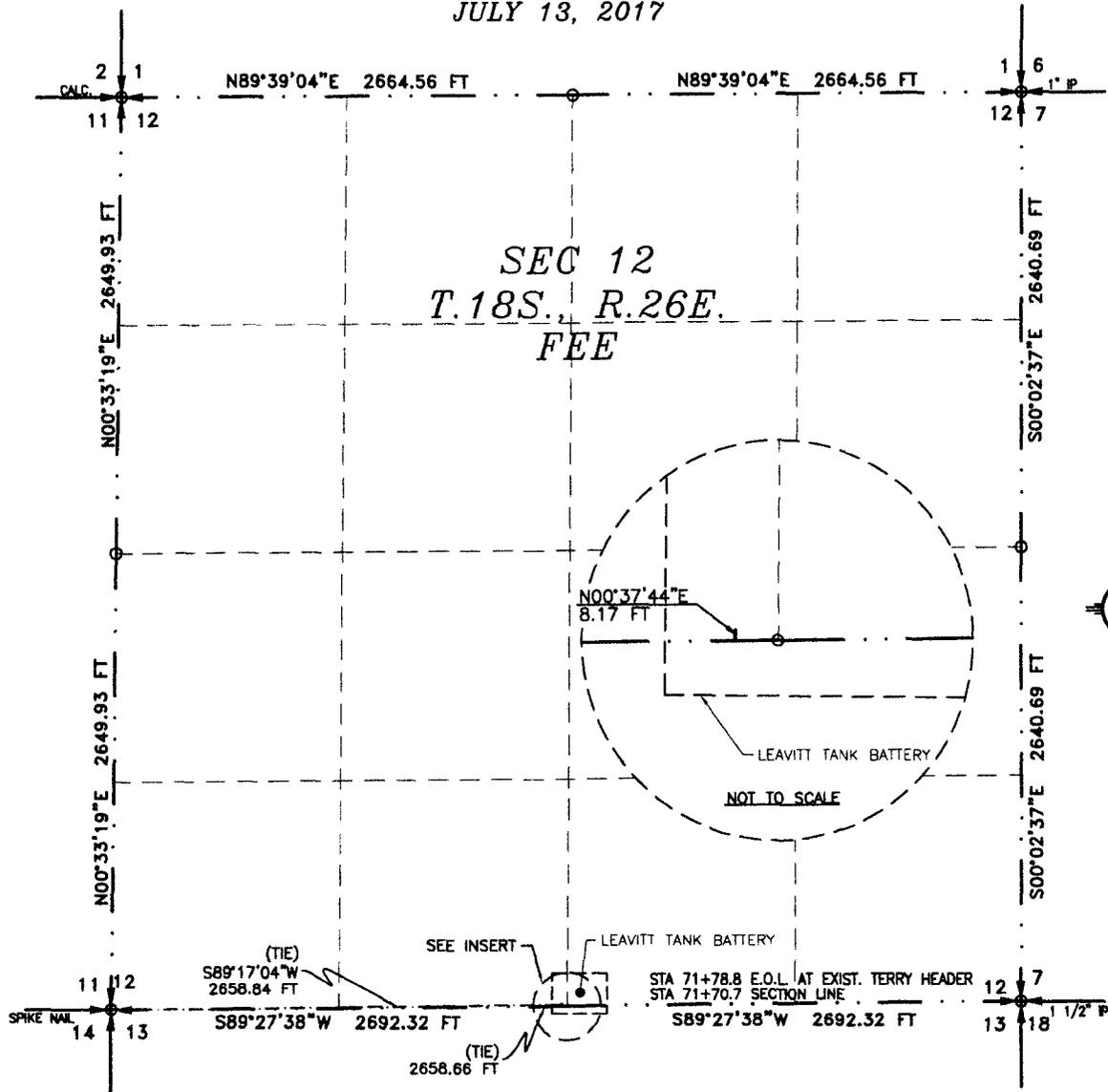
**SURVEY NO. 5362**

301 SOUTH CANAL  
(575) 234-3341

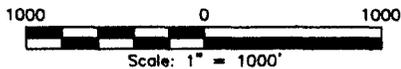
**FLOWLINE PLAT**

TWO 3" BURIED POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE JERRY NELSON COM 1 TO THE TERRY HEADER AT THE LEAVITT TANK BATTERY

LIME ROCK RESOURCES II-A, L.P.  
 CENTERLINE SURVEY OF A PIPELINE CROSSING  
 SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JULY 13, 2017



SEE NEXT SHEET (6-8) FOR DESCRIPTION



**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED 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 LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 13 DAY OF JULY 2017

*[Signature]*  
 FILIMON F. JARAMILLO PLS 12797  
 MADRON SURVEYING, INC.  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 Phone (575) 234-3341

SHEET: 5-8

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 5362

**FLOWLINE PLAT**

**TWO 3" BURIED POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE JERRY NELSON COM 1 TO THE TERRY HEADER AT THE LEAVITT TANK BATTERY**

**LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 13, 2017**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SW/4 OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S89°27'38"W, A DISTANCE OF 2658.66 FEET;

THENCE N00°37'44"E A DISTANCE OF 8.17 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S89°17'04"W, A DISTANCE OF 2658.84 FEET;

SAID STRIP OF LAND BEING 8.17 FEET OR 0.50 RODS IN LENGTH, CONTAINING 0.006 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4 8.17 L.F. 0.50 RODS 0.006 ACRES

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED 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 LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13 DAY OF JULY 2017

  
FILIMON F. JARAMILLO P.S. 42797  
MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

**GENERAL NOTES**

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SHEET: 6-8**

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

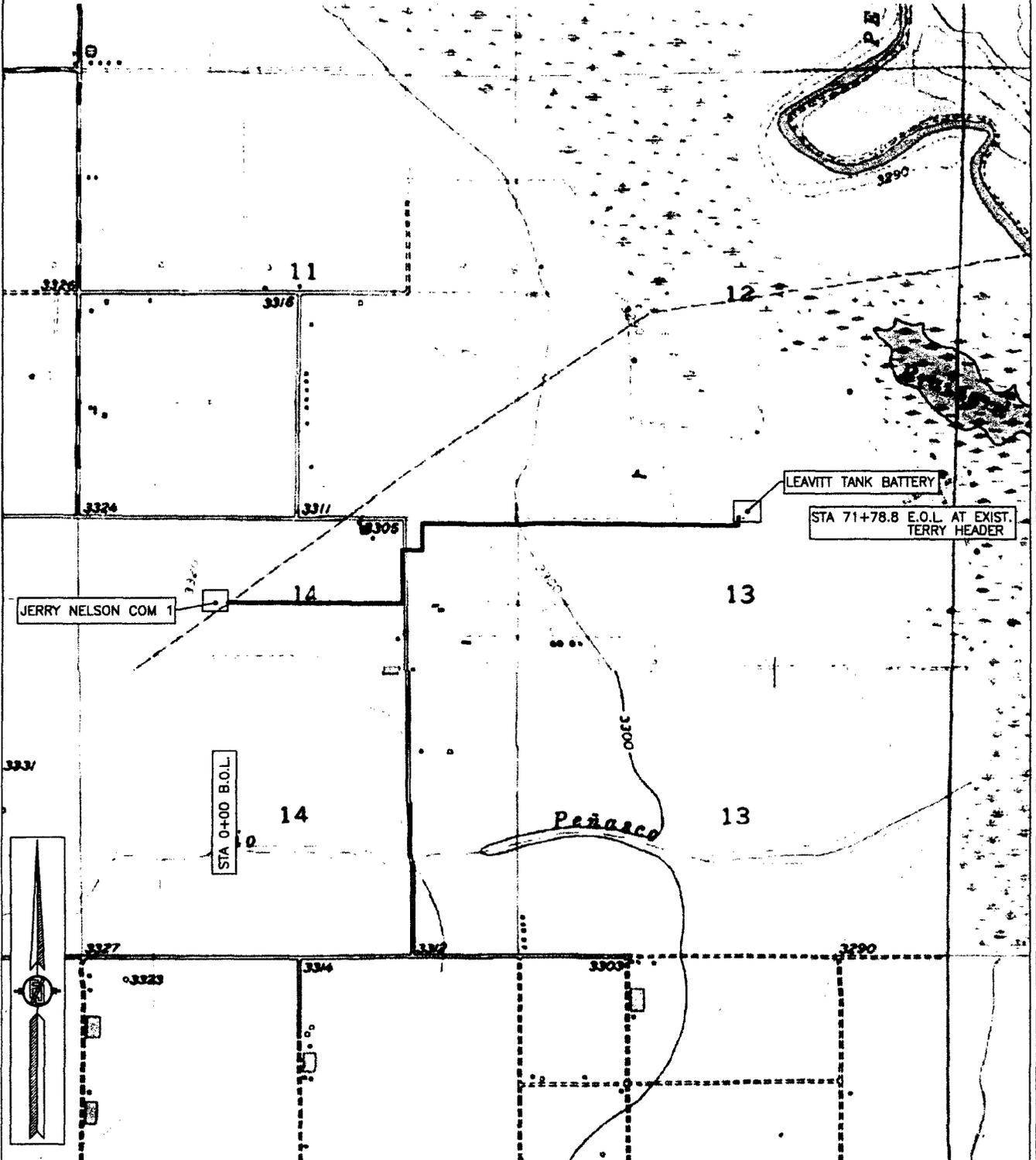
**SURVEY NO. 5362**

301 SOUTH CANAL  
(575) 234-3341

**FLOWLINE PLAT**

TWO 3" BURIED POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE JERRY NELSON COM 1 TO THE TERRY HEADER AT THE LEAVITT TANK BATTERY

LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTIONS 14, 13, 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 13, 2017



SHEET: 7-8

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

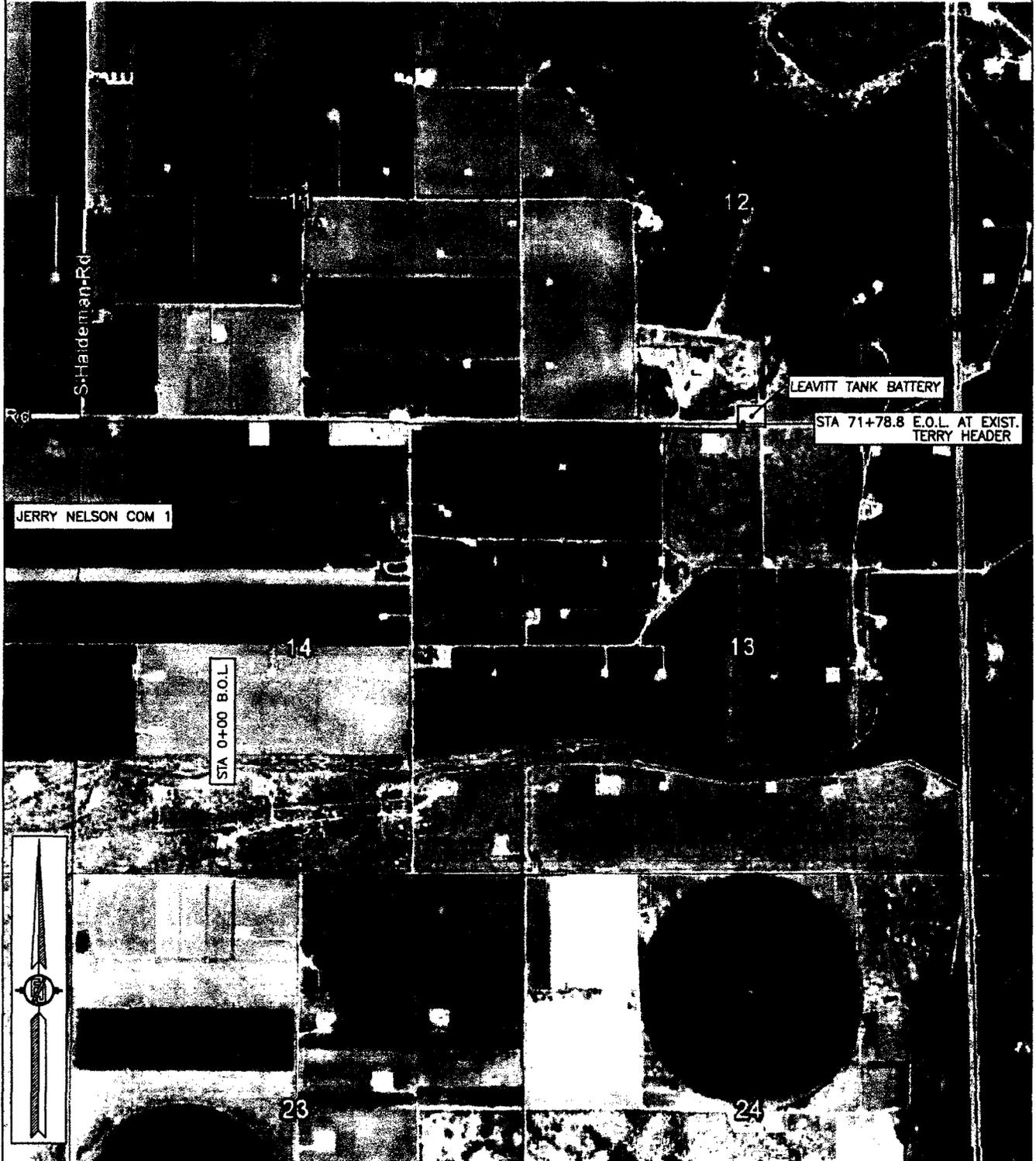
(575) 234-3341

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CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTIONS 14, 13, 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 13, 2017**



SHEET: 8-8

SURVEY NO. 5362

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

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

**Jerry Nelson Com #1  
994' FNL 1642' FWL  
(C) 14-18S-26E  
Eddy County, NM**

1. The elevation of the unprepared ground is 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. Well will be drilled to a total proposed depth of 4300' MD.

5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates		NA
7 Rivers		NA
Queen		287
Grayburg		728
Premier		NA
San Andres		980
Glorieta		2353
Yeso		2500
Tubb		3950
TD		4300

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

	MD	TVD
Yates		NA
7 Rivers		NA
Queen		287
Grayburg		728
Premier		NA
San Andres		980
Glorieta		2353
Yeso		2500
Tubb		3950
TD		4300

7. Proposed Casing and Cement program is as follows

Type	Hole	Casing	Wt	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	24"	16"	94	B	Welded	115	400			Ready Mix
Surface	17 5/8"	13 -3/8"	42	H40	ST&C	1120	750			Class C
Intermediate	12-1/4"	8-5/8"	24	J-55	ST&C	1855	950			Class C
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4300	300	12.8	1 903	35-65% Poz/C C Cmt + 1% NaCl + 0.75 lbs/sk Cello Flake + 5 lbs/sk LCM-1 + 2% K-3 + 6% Gel
							600	14.8	1 33	CFH w/ 0.6% P-3 @ 125% Cello Flake, 2% Gel

8. Proposed Mud Program is as follows

Depth	0-1950	1950-4150	4150-4300
Mud Type	Fresh Water Mud	Brine, Salt Gel, & Starch	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
MC	NC	NC	<2
Solids	NC	<2%	<3%
Pump Rate	300-500 gpm	375-425 gpm	400-425 gpm
Special		Use Polymers 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 H<sub>2</sub>S in this well. If H<sub>2</sub>S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 10. 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 to complete well and to construct surface facilities.

# Hydrogen Sulfide Drilling Plan Summary

A. All personnel shall receive proper H<sub>2</sub>S 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/Escapes 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

■ H<sub>2</sub>S 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 H<sub>2</sub>S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H<sub>2</sub>S 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 H<sub>2</sub>S service.
- b. All elastomers used for packing and seals shall be H<sub>2</sub>S 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

<b>Company Offices</b>	Lime Rock Houston Office	713-292-9510
	Answering Service (After Hours)	713-292-9555
	Artesia, NM Office	575-748-9724
	Roswell, NM	575-623-8424

### KEY PERSONNEL

Name	Title	Location	Office #	Cell #	Home #
Steve Hunter	Production Manager	Houston	713-292-9516	832-330-7313	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	832-491-3079	405-821-0534
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 McClland	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 Oilfield 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	Albuquerque	505-842-4433	Same
Artesia General Hospital	Emergency Medical Care	Artesia	575-748-3333	702 North 13th Street

## **Pressure Control**

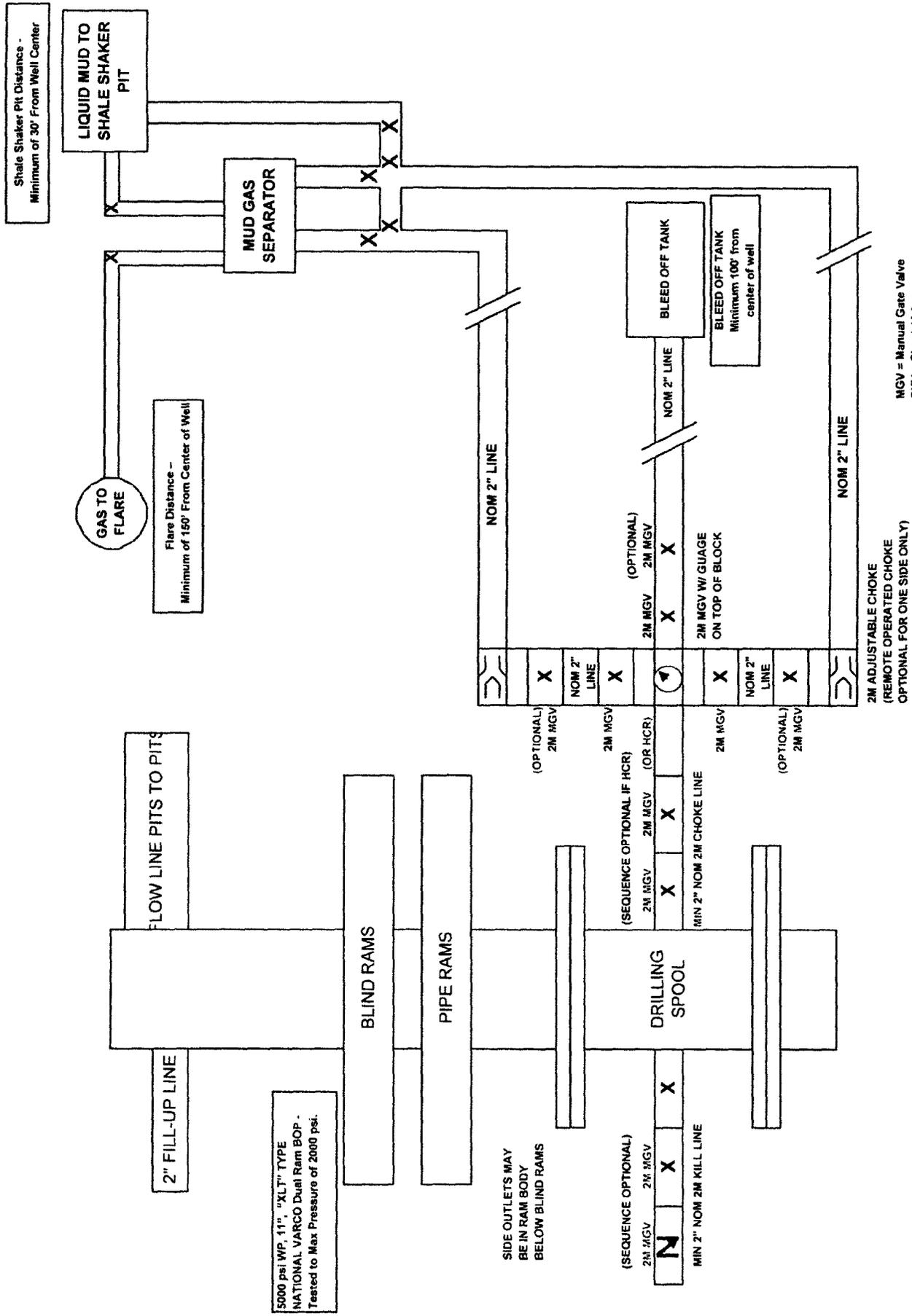
**The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams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

**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



Shale Shaker Pit Distance -  
Minimum of 30' From Well Center

LIQUID MUD TO  
SHALE SHAKER  
PIT

MUD GAS  
SEPARATOR

GAS TO  
FLARE

Flare Distance--  
Minimum of 150' From Center of Well

FLOW LINE PITS TO PITS

2" FILL-UP LINE

5000 psi WP, 11", "XLT" TYPE  
NATIONAL VARCO Dual Ram BOP -  
Tested to Max Pressure of 2000 psi.

BLIND RAMS

PIPE RAMS

SIDE OUTLETS MAY  
BE IN RAM BODY  
BELOW BLIND RAMS

DRILLING  
SPOOL

(SEQUENCE OPTIONAL)  
2M MGV

MIN 2" NOM 2M KILL LINE

NOM 2" LINE

(OPTIONAL)  
2M MGV

(OPTIONAL)  
2M MGV

2M MGV W/ GUAGE  
ON TOP OF BLOCK

(OPTIONAL)  
2M MGV

(OPTIONAL)  
2M MGV

(OPTIONAL)  
2M MGV

(OPTIONAL)  
2M MGV

(SEQUENCE OPTIONAL IF HCR)  
2M MGV

(OR HCR)  
2M MGV

(OPTIONAL)  
2M MGV

(OPTIONAL)  
2M MGV

(SEQUENCE OPTIONAL)  
2M MGV

MIN 2" NOM 2M CHOKE LINE

(OPTIONAL)  
2M MGV

2M ADJUSTABLE CHOKE  
(REMOTE OPERATED CHOKE  
OPTIONAL FOR ONE SIDE ONLY)

MGV = Manual Gate Valve  
CKV = Check Valve  
HCR = Hydraulically Controlled Remote Valve  
NOTE: All lines, valves and chokes are shown at the  
minimum size allowed, but may be larger

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

## **Jerry Nelson Com #1**

### **Unit C, S14-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 attache

Cuttings and associated liquids will be hauled to a State regulated third party disposal site (CRI or Controlled Recc Inc.). The disposal site permit is DFP = #R916

2- (250 bbl) tanks to hold fluid

2-CRI bins with track system

2-500 bbl frac tanks with fresh water

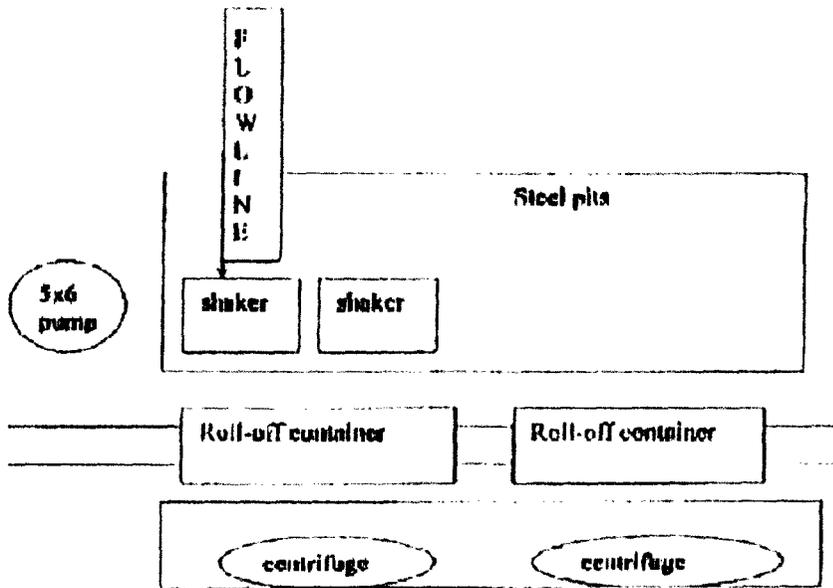
2-500 bbl frac tanks for brine water

#### **Operations:**

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

#### **Closure:**

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



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

*TOMMY WILSON*



**CLOSED LOOP  
SPECIALTY**

Office: 575.746.1889

Cell: 575.748.6367

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES  
OIL CONSERVATION DIVISION

PERMIT CONDITIONS OF APPROVAL

Operator Name Sumerock Resources II-A, LP

API Number 30-015-21686

Well Name and Number Jerry Nelson Com #1

- Will require a Directional Survey and "As Drilled" C-102 with the C-104
- 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.
- If cement does not circulate to surface, must run temperature survey or other log to determine top of cement.
- NSL approval required prior to sale of product
- NSP approval required for requested acreage dedication
- Initial injection cannot commence until all regulatory requirements have been met and drilling and completion data conforms to approved SWD order