

Phone (575) 393-6161 Fax (575) 494-0720  
 District II  
 211 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) 314-6178 Fax (505) 314-6170  
 District IV  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

Revised July 18, 2013

**Energy Minerals and Natural Resources**

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

AMENDED Report

**NM OIL CONSERVATION**  
**ARTESIA DISTRICT**

**AUG 09 2017**

**RECEIVED**

**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 <b>319280</b>		API Number 30-015- <b>44373</b>
Property Name Holland 10N		Well No. #1

**7 Surface Location**

TL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	10	18S	26E		135	S	2300	W	Eddy

**8 Proposed Bottom Hole Location**

TL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	10	18S	26E		135	S	2300	W	Eddy

**9 Pool Information**

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

Work Type N	Well Type O	Cable Rotary R	Depth Type I	Ground Level Elevation 3339.4
Multiole N	Proposed Depth 4200' MD / 4200' TVD	Formation Yeso	Contractor United Drilling, Inc	Soud Date After: 9/1/2017
Depth to Ground Water 30 Ft		Distance from nearest fresh water well 1.9 Miles		Distance from nearest surface water 1 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	26"	20"	91.5	80	80	Surface
Surface	11"	8-5/8"	24	1230	450	Surface
Production	7-7/8"	5-1/2"	17	4200	900	Surface

**Casing/Cement Program: Additional Comments**

Artesian Aquifer Porosity 1160'-1170'
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**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: emcclusky@limerockresources.com

Date: 8/7/2017 Phone: 713-360-5714

**OIL CONSERVATION DIVISION**

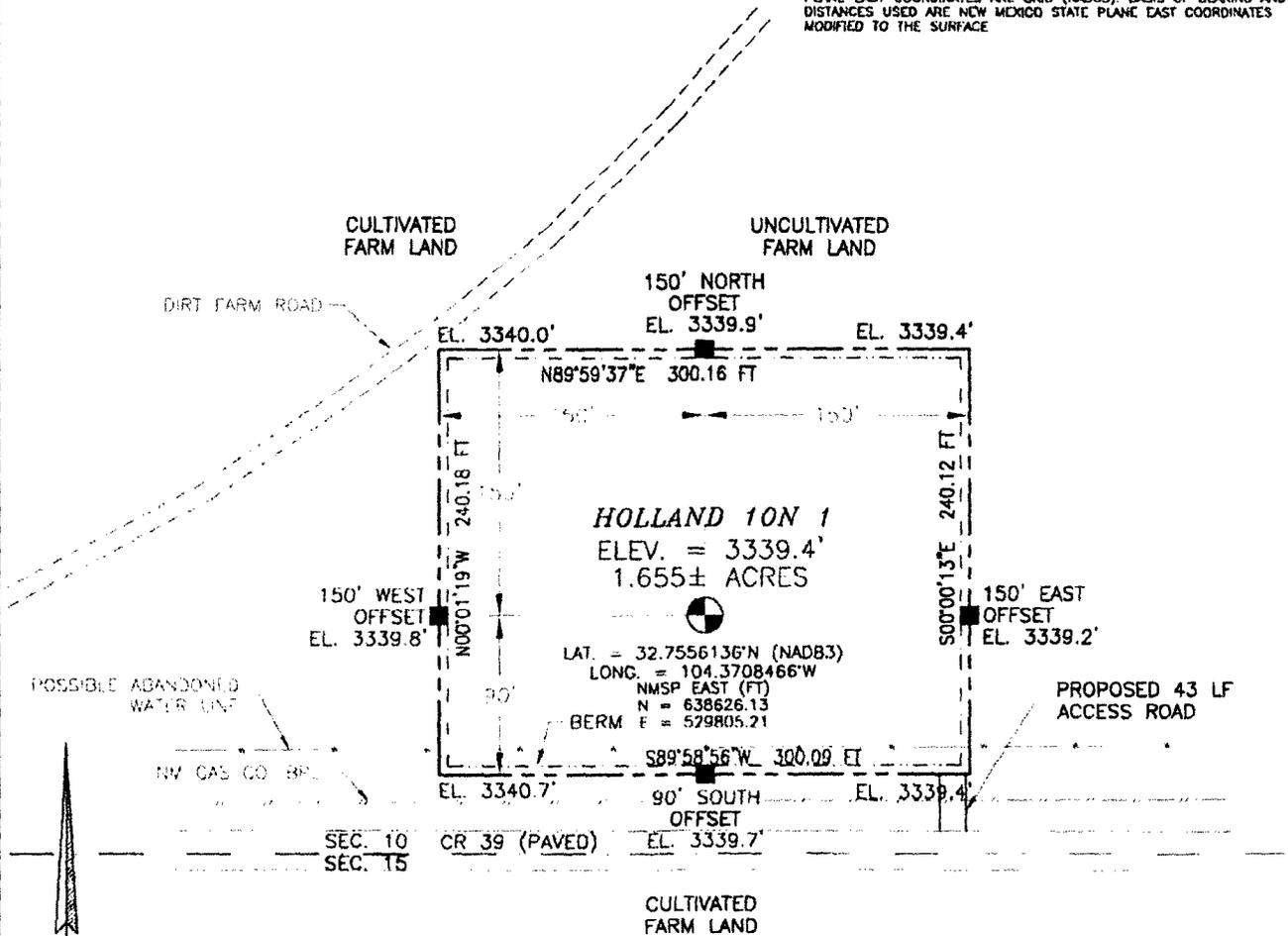
Approved By: *Raymond W. Rodanzy*  
 Title: *Geologist*

Approved Date: *8-17-17* Expiration Date: *8-17-17*

Conditions of Approval Attached: *• 4350FSL - NSL Required. • RAB-CMT-CIRC*

SECTION 10, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
**SITE MAP**

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



**HOLLAND 10N 1**  
 ELEV. = 3339.4'  
 1.655± ACRES

LAT. = 32.7556136°N (NAD83)  
 LONG. = 104.3708466°W  
 NMSP EAST (FT)  
 N = 638626.13  
 E = 529805.21



0 10 50 100 200  
 SCALE 1" = 100'

**DIRECTIONS TO LOCATION**  
 FROM CR 39 (FOUR DINKUS) AND CR 44 (FANNING) GO WEST ON CR 39 1.28 MILES, TURN RIGHT GO NORTH 43' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

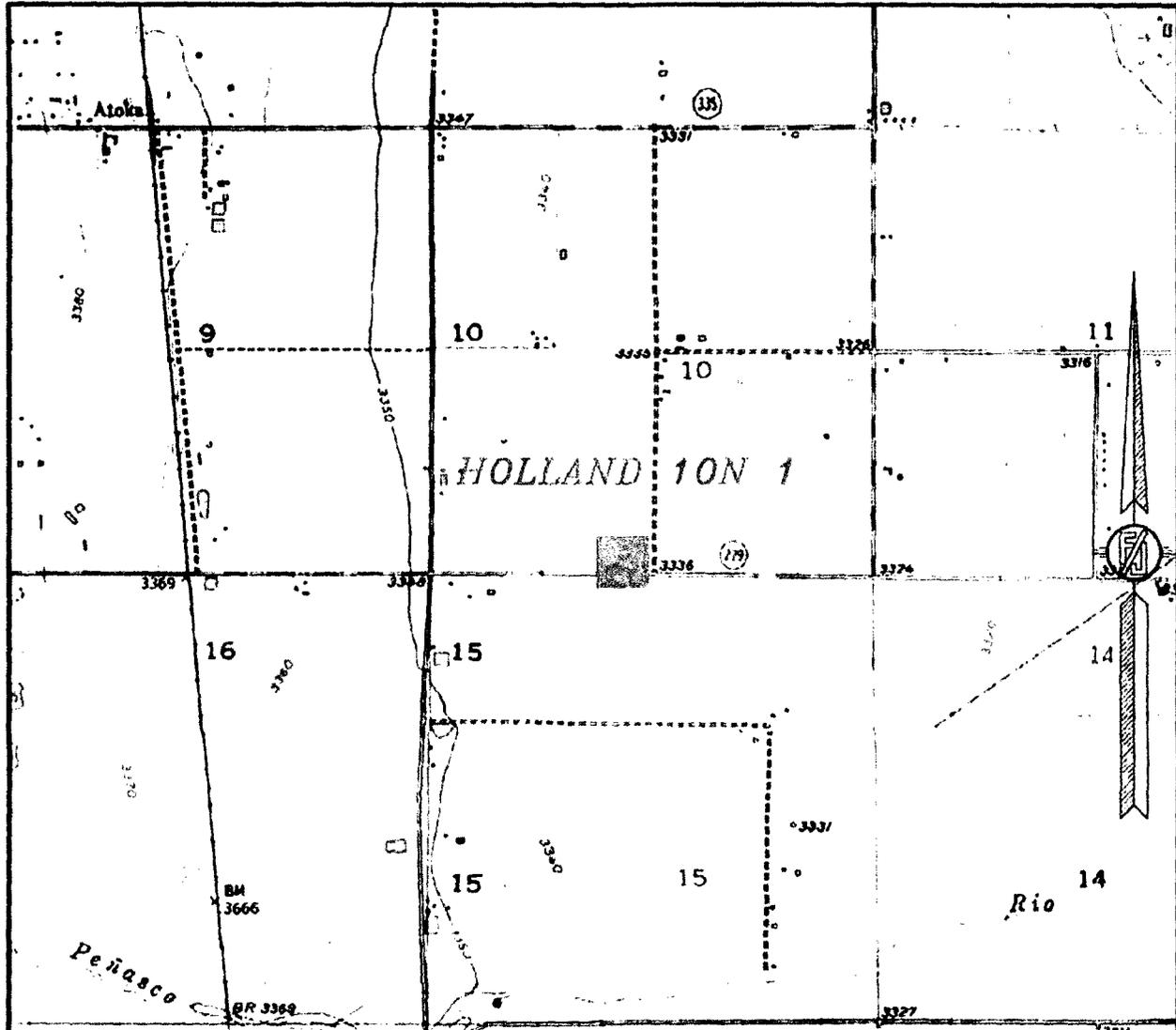
**LIME ROCK RESOURCES II-A, L.P.**  
**HOLLAND 10N 1**  
 LOCATED 135 FT. FROM THE SOUTH LINE  
 AND 2300 FT. FROM THE WEST LINE OF  
 SECTION 10, TOWNSHIP 18 SOUTH,  
 RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JULY 24, 2017

SURVEY NO. 5345

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

SECTION 10, 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

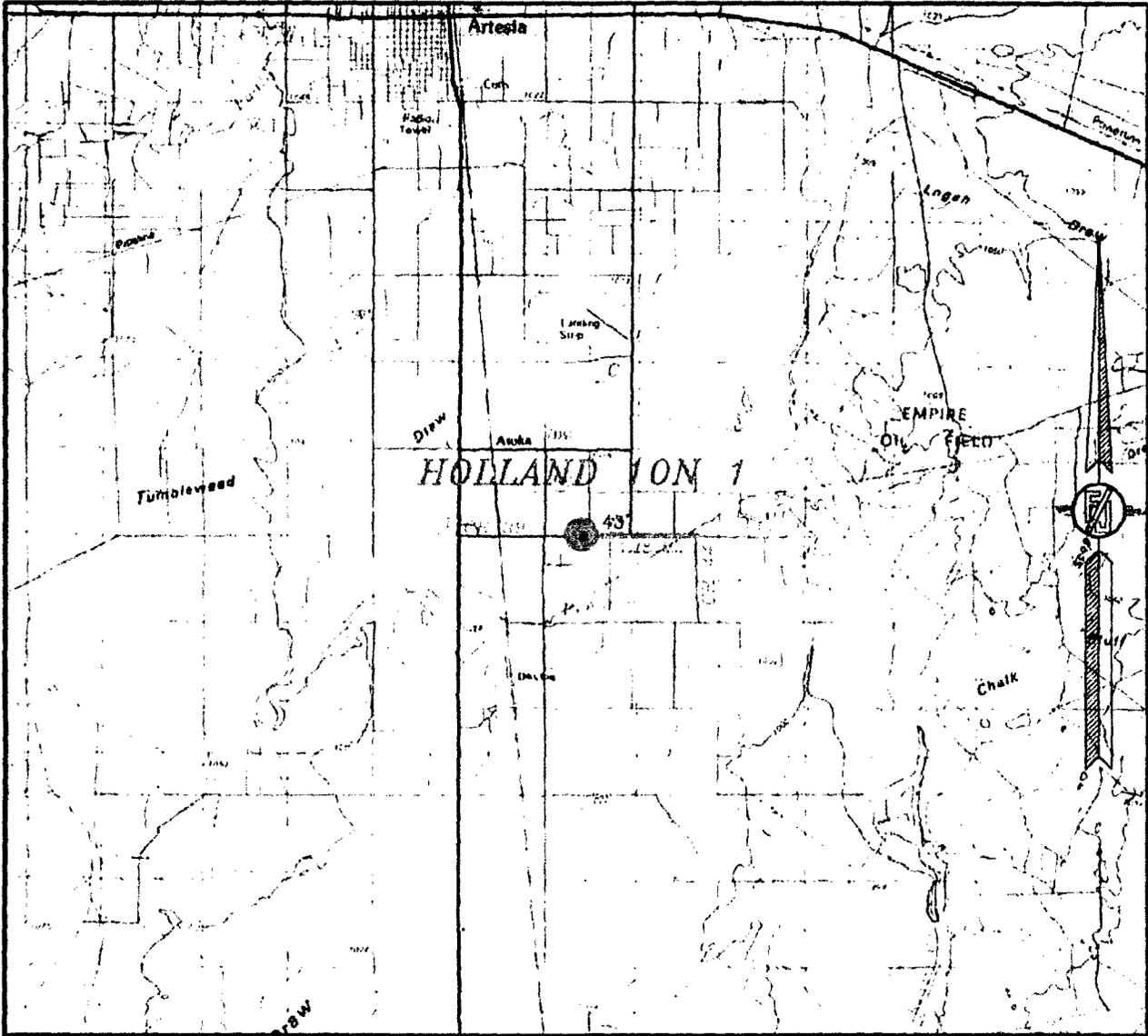
LIME ROCK RESOURCES II-A, L.P.  
**HOLLAND 10N 1**  
 LOCATED 135 FT. FROM THE SOUTH LINE  
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 SECTION 10, TOWNSHIP 18 SOUTH,  
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 EDDY COUNTY, STATE OF NEW MEXICO

JULY 24, 2017

SURVEY NO. 5345

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

SECTION 10, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

LIME ROCK RESOURCES II-A, L.P.  
 HOLLAND 10N 1

LOCATED 135 FT. FROM THE SOUTH LINE  
 AND 2300 FT. FROM THE WEST LINE OF  
 SECTION 10, TOWNSHIP 18 SOUTH,  
 RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

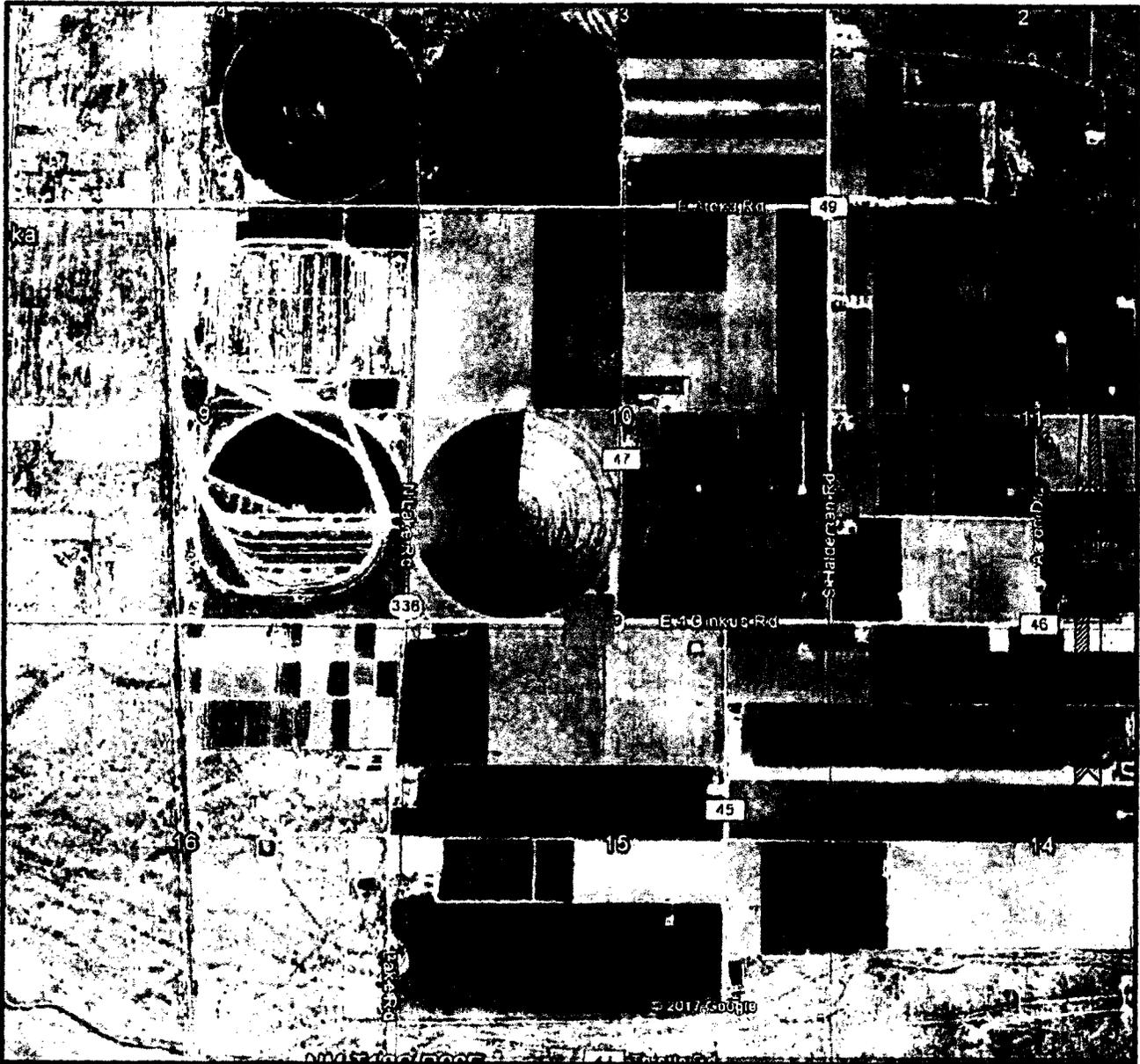
FROM CR 39 (FOUR DINKUS) AND CR 44 (FANNING) GO WEST ON CR 39 1.28 MILES, TURN RIGHT GO NORTH 43' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

JULY 24, 2017

SURVEY NO. 5345

MADRON SURVEYING, INC. 301 SOUTH CANAL (875) 234-3341 CARLSBAD, NEW MEXICO

SECTION 10, 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 2018

**LIME ROCK RESOURCES II-A, L.P.  
HOLLAND 10N 1**

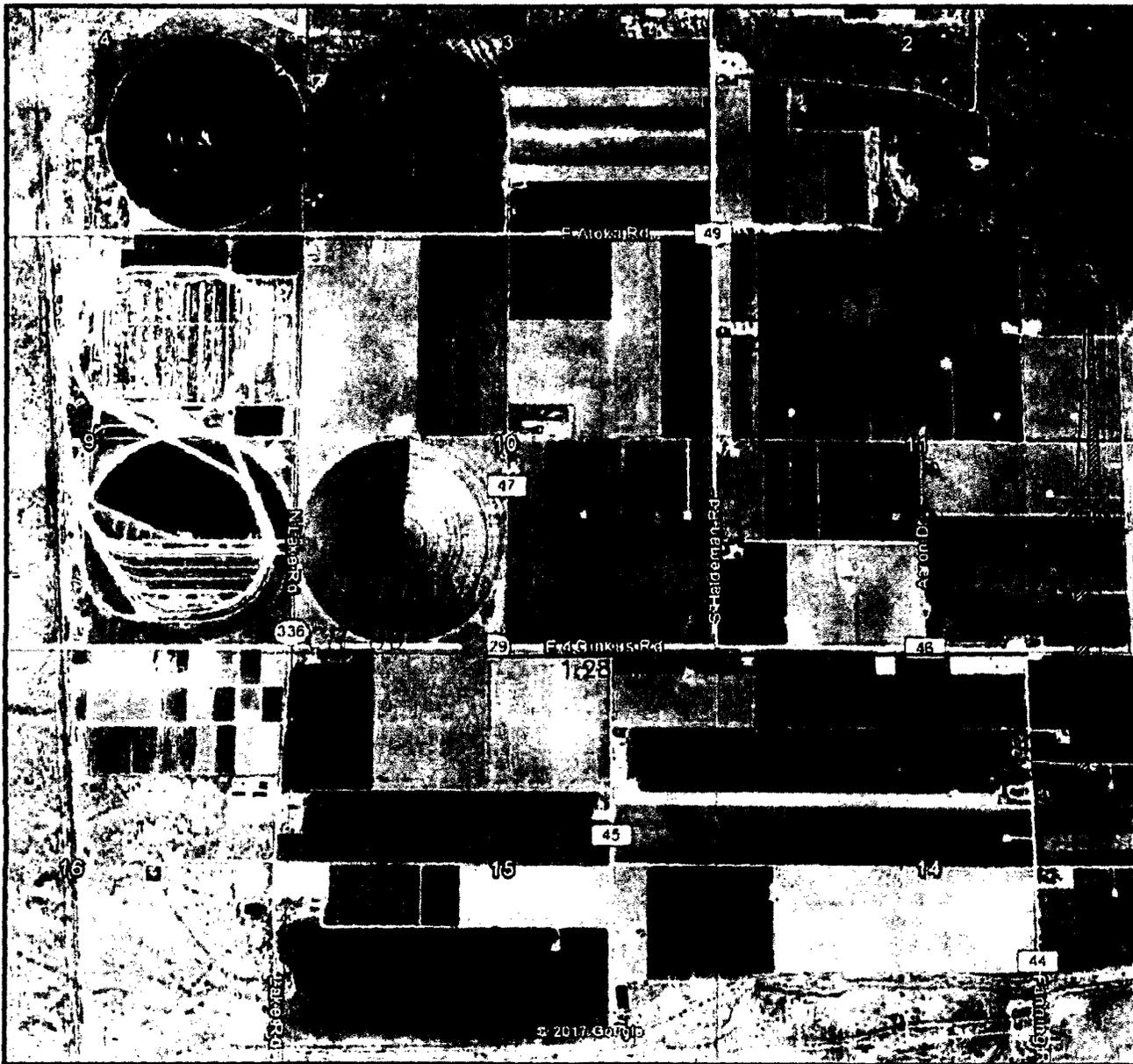
LOCATED 135 FT. FROM THE SOUTH LINE  
AND 2300 FT. FROM THE WEST LINE OF  
SECTION 10, TOWNSHIP 18 SOUTH,  
RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

JULY 24, 2017

SURVEY NO. 5345

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

SECTION 10, 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.  
HOLLAND 10N 1

LOCATED 135 FT. FROM THE SOUTH LINE  
AND 2300 FT. FROM THE WEST LINE OF  
SECTION 10, TOWNSHIP 18 SOUTH,  
RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

JULY 24, 2017

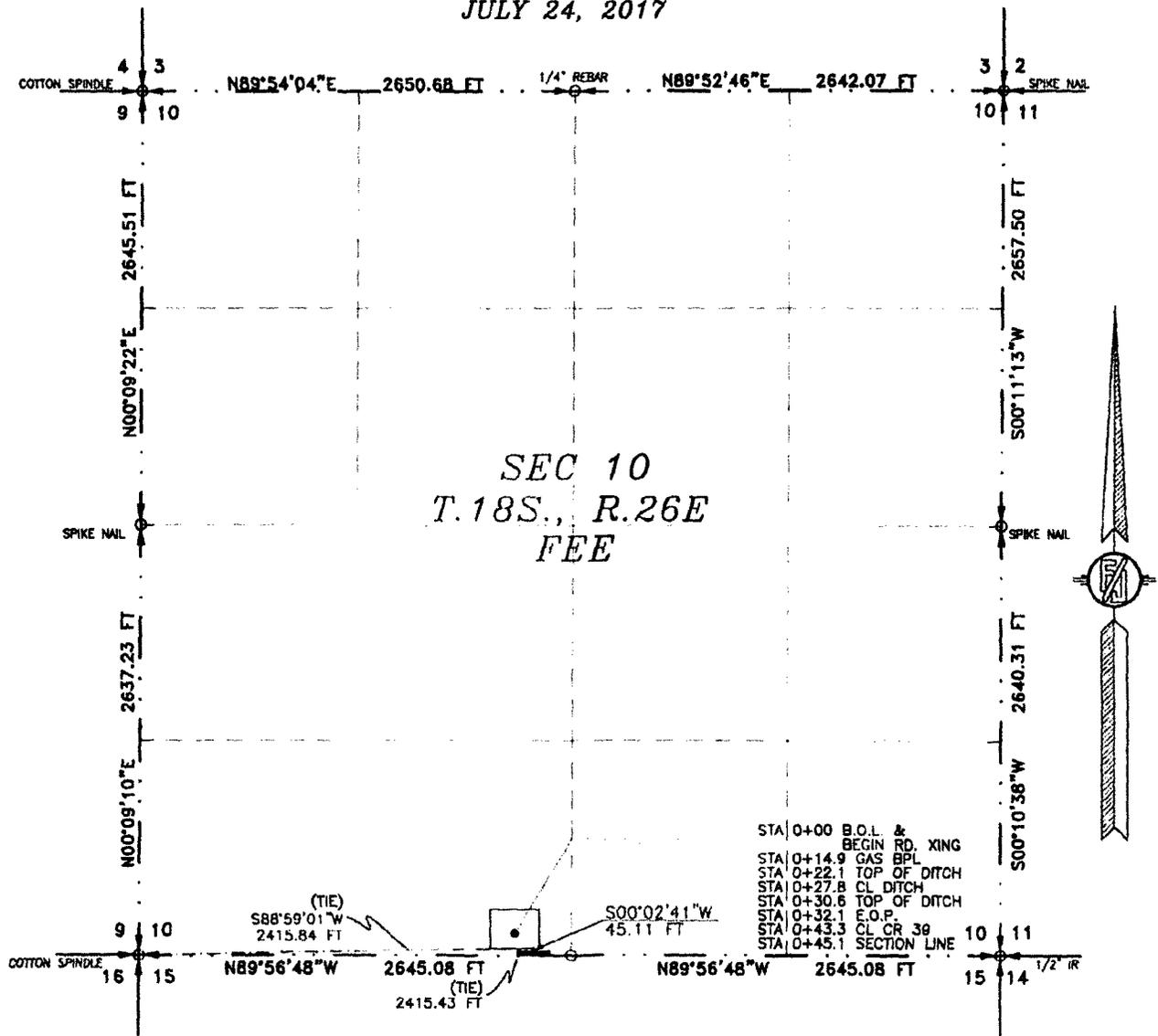
SURVEY NO. 5345

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

**FLOWLINE PLAT**

TWO 3" BURIED SDR7 POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE HOLLAND 10N 1 TO THE SIMPSON 15 BATTERY

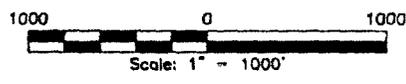
LIME ROCK RESOURCES II-A, L.P.  
 CENTERLINE SURVEY OF A PIPELINE CROSSING  
 SECTION 10, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JULY 24, 2017



SEC 10  
 T.18S., R.26E  
 FEE

STA 0+00 B.O.L. & BEGIN RD. XING  
 STA 0+14.9 GAS BPL  
 STA 0+22.1 TOP OF DITCH  
 STA 0+27.8 CL DITCH  
 STA 0+30.6 TOP OF DITCH  
 STA 0+32.1 E.O.P.  
 STA 0+43.3 CL CR 36  
 STA 0+45.1 SECTION LINE

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. 12787, 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 31 DAY OF JULY 2017

*Filimon F. Jaramillo*  
 FILIMON F. JARAMILLO PLS. 12787

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

SURVEY NO. 5345

SHEET: 1-8

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

**FLOWLINE PLAT**

**TWO 3" BURIED SDR7 POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE HOLLAND 10N 1 TO THE SIMPSON 16 BATTERY**

**LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTION 10, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 10, 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 10, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 10, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S88°59'01"W, A DISTANCE OF 2415.84 FEET;

THENCE S00°02'41"W A DISTANCE OF 45.11 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 10, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N89°56'48"W, A DISTANCE OF 2415.43 FEET;

SAID STRIP OF LAND BEING 45.11 FEET OR 2.73 RODS IN LENGTH, CONTAINING 0.031 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4 45.11 L.F. 2.73 RODS 0.031 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 24 DAY OF JULY 2017

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

MADRON SURVEYING, INC  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 86220  
Phone (575) 234-3341

SURVEY NO. 5345

**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.

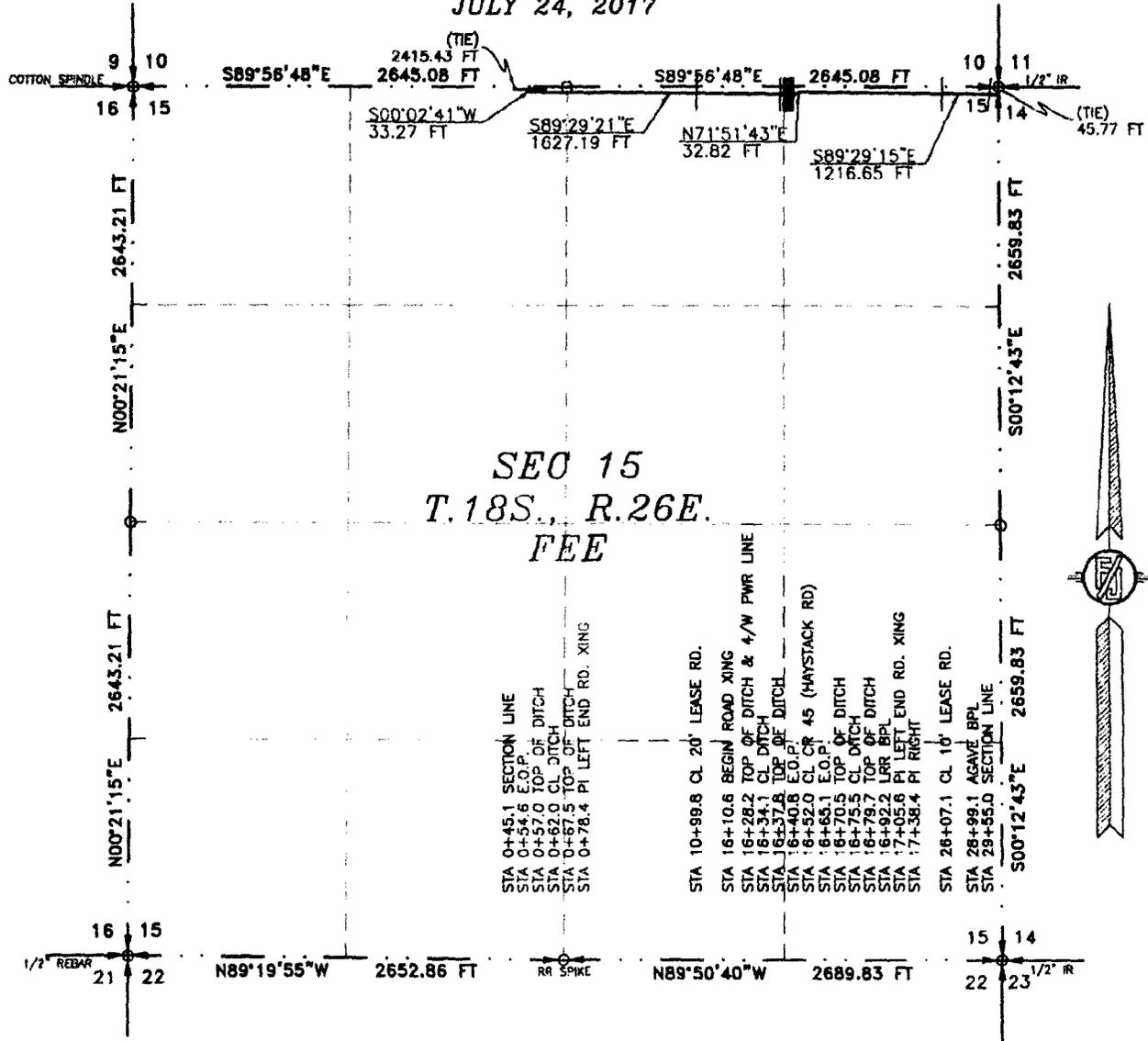
SHEET: 2-8

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

**FLOWLINE PLAT**

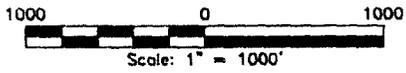
TWO 3" BURIED SDR7 POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE HOLLAND 10N 1 TO THE SIMPSON 15 BATTERY

**LIME ROCK RESOURCES II-A, L.P.**  
 CENTERLINE SURVEY OF A PIPELINE CROSSING  
 SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JULY 24, 2017



**SEC 15  
 T. 18S., R. 26E.  
 FEE**

SEE NEXT SHEET (4-8) 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 31 DAY OF JULY, 2017

*[Signature]*  
 FILIMON F. JARAMILLO PLS. 12797

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

**SURVEY NO. 5345**

**SHEET: 3-8**

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

**FLOWLINE PLAT**

**TWO 3" BURIED SDR7 POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE HOLLAND 10N 1 TO THE SIMPSON 15 BATTERY**

**LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 15, 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 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N89°56'48"W, A DISTANCE OF 2415.43 FEET;  
THENCE S00°02'41"W A DISTANCE OF 33.27 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE S89°29'21"E A DISTANCE OF 1627.19 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N71°51'43"E A DISTANCE OF 32.82 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE S89°29'15"E A DISTANCE OF 1216.65 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N00°12'43"W, A DISTANCE OF 45.77 FEET;

SAID STRIP OF LAND BEING 2909.93 FEET OR 176.37 RODS IN LENGTH, CONTAINING 2.004 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4	262.79 L.F.	15.93 RODS	0.181 ACRES
NW/4 NE/4	1322.73 L.F.	80.17 RODS	0.911 ACRES
NE/4 NE/4	1324.41 L.F.	80.27 RODS	0.912 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 31 DAY OF JULY 2017

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

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 734-5345

SURVEY NO. 5345

**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.

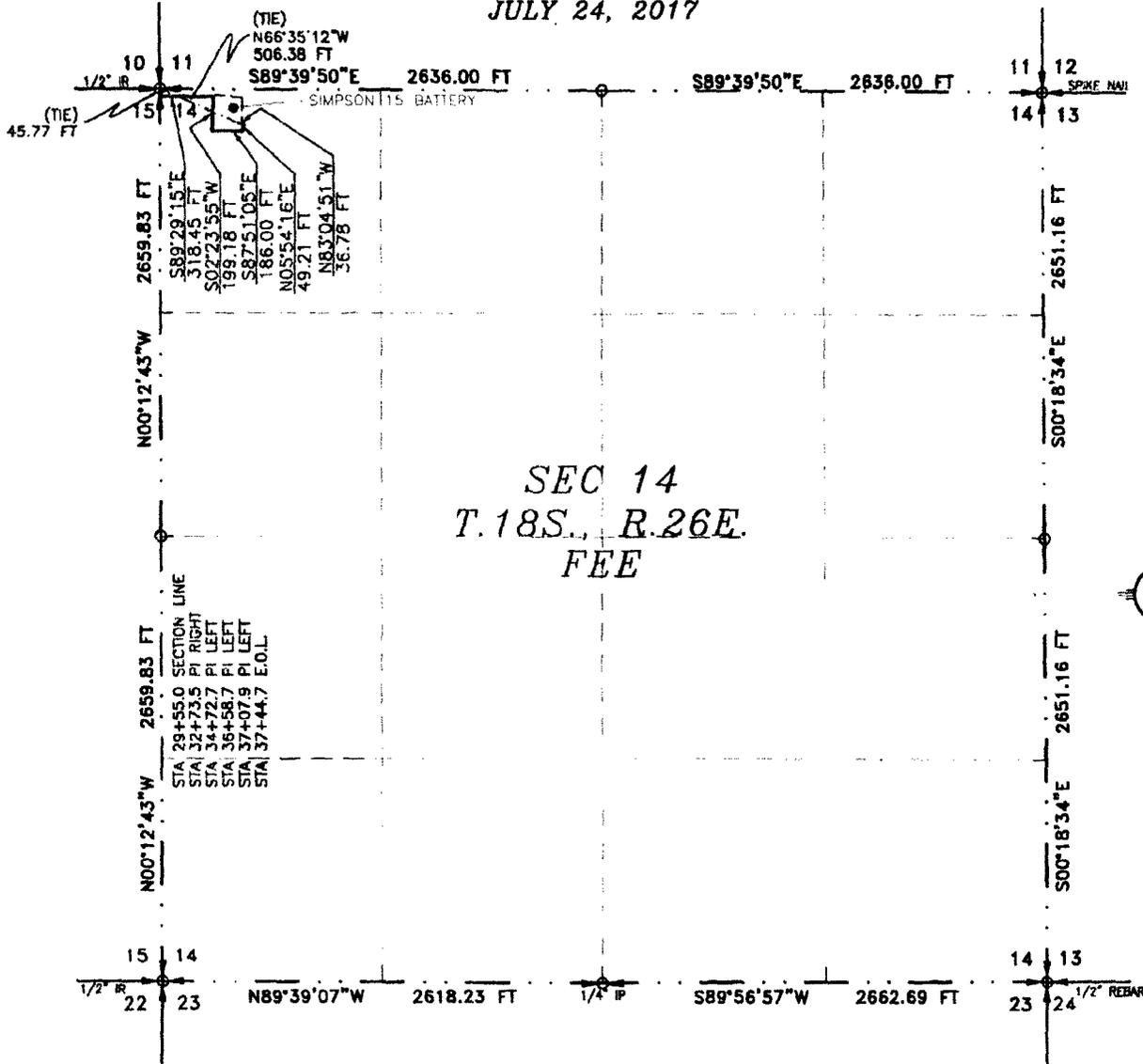
SHEET: 4-8

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

**FLOWLINE PLAT**

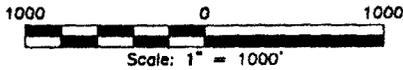
TWO 3" BURIED SDR7 POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE HOLLAND 10N 1 TO THE SIMPSON 15 BATTERY

**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 24, 2017**



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

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, 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 31 DAY OF JULY 2017

*Filmon F. Jaramillo*  
 FILMON F. JARAMILLO PLS. 12797

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

SURVEY NO. 5345

SHEET: 5-8

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

**FLOWLINE PLAT**

**TWO 3" BURIED SDR7 POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE HOLLAND 10N 1 TO THE SIMPSON 15 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 24, 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 NW/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 N00°12'43"W, A DISTANCE OF 45.77 FEET;

THENCE S89°29'15"E A DISTANCE OF 318.45 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S02°23'55"W A DISTANCE OF 199.18 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S87°51'05"E A DISTANCE OF 186.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N05°54'16"E A DISTANCE OF 49.21 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N83°04'51"W A DISTANCE OF 36.78 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N66°35'12"W, A DISTANCE OF 506.38 FEET;

SAID STRIP OF LAND BEING 789.62 FEET OR 47.86 RODS IN LENGTH, CONTAINING 0.544 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 789.62 L.F. 47.86 RODS 0.544 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 31 DAY OF JULY 2017

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

MADRON SURVEYING, INC.  
301 S. 1ST AVENUE  
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. CARLSBAD, NEW MEXICO

SURVEY NO. 5345



**FLOWLINE PLAT**

TWO 3" BURIED SDR7 POLY FLOWLINES (1-GAS & 1-PRODUCTION) FROM THE HOLLAND 10N 1 TO THE SIMPSON 15 BATTERY

LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTIONS 10, 15, 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017



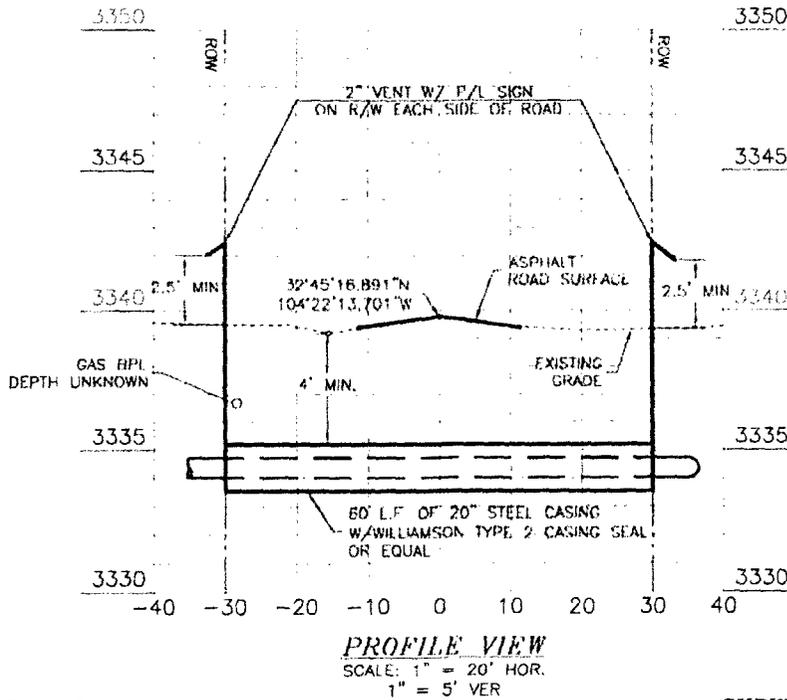
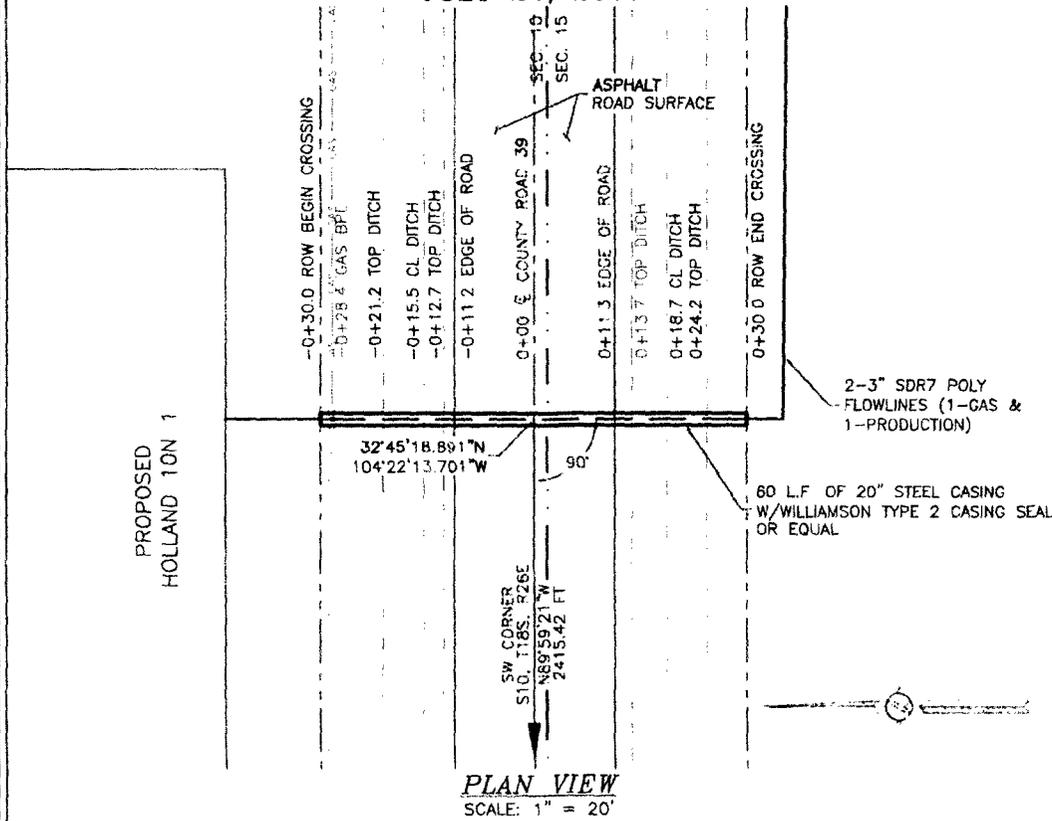
SHEET: 8-8

SURVEY NO. 5345

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3541

TWO 3" BURIED SDR7 POLY FLOWLINES CROSSING CR 39

LIME ROCK RESOURCES II-A, L.P.  
A PIPELINE CROSSING COUNTY ROAD 39  
(FOUR DINKUS) 32°45'18.891"N, 104°22'13.701"W  
SECTIONS 10, 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017



SHEET: 1-3

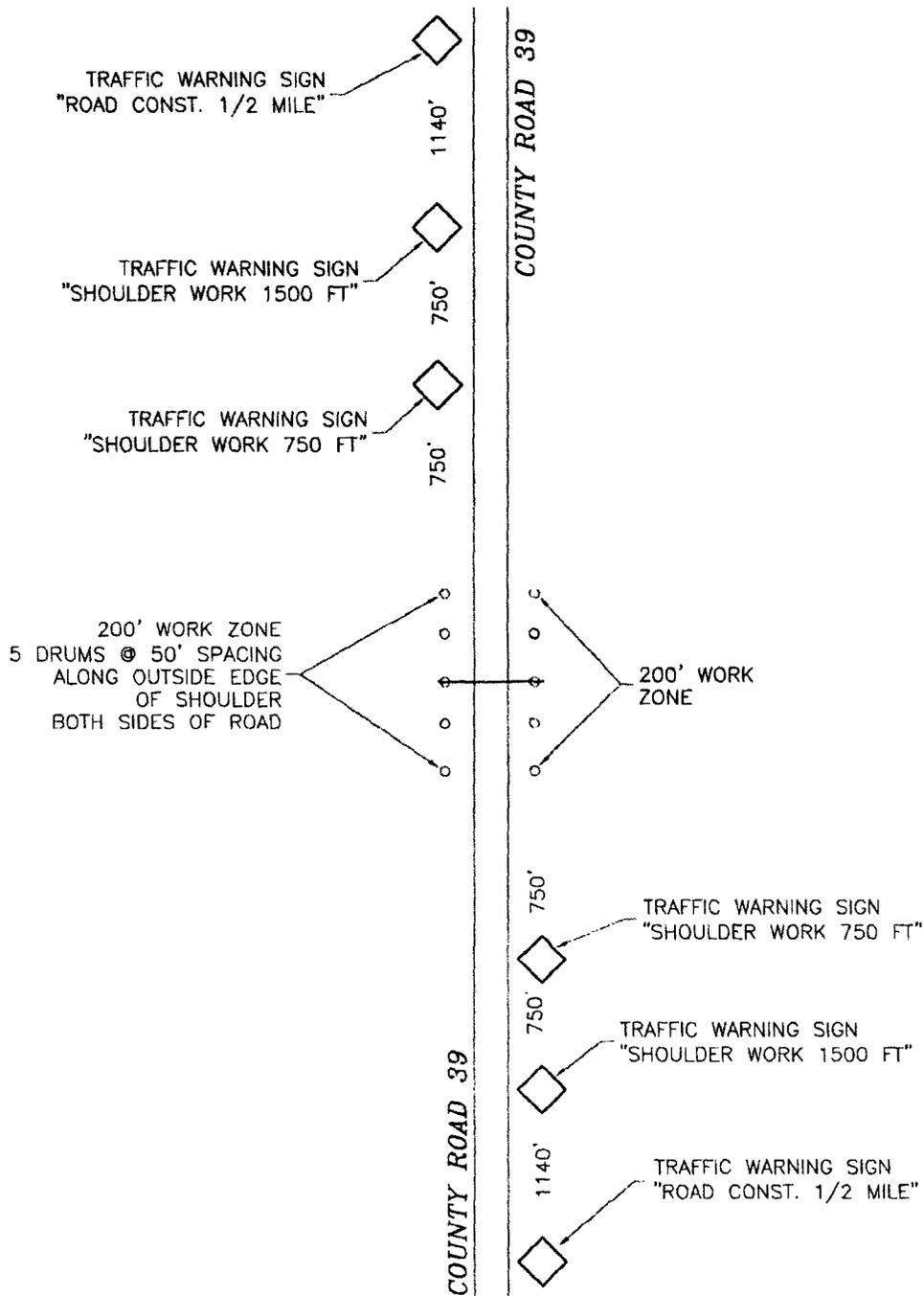
MADRON SURVEYING, INC. 301 S. MAIN ST. CARLSBAD, NEW MEXICO 88502 (505) 833-5830

SURVEY NO. 5345

TWO 3" BURIED SDR7 POLY FLOWLINES CROSSING CR 39

LIME ROCK RESOURCES II-A, L.P.  
A PIPELINE CROSSING COUNTY ROAD 39  
(FOUR DINKUS) 32°45'18.891"N, 104°22'13.701"W  
SECTIONS 10, 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017

TRAFFIC CONTROL PLAN



NOT TO SCALE

SHEET: 2-3

MADRON SURVEYING, INC. 301 S. G. CANAL (575) 833-5930 CARLSBAD, NEW MEXICO

SURVEY NO. 5345

TWO 3" BURIED SDR7 POLY FLOWLINES CROSSING CR 39

LIME ROCK RESOURCES II-A, L.P.  
A PIPELINE CROSSING COUNTY ROAD 39  
(FOUR DINKUS) 32°45'18.891"N, 104°22'13.701"W  
SECTIONS 10, 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017

AERIAL ACCESS ROUTE MAP



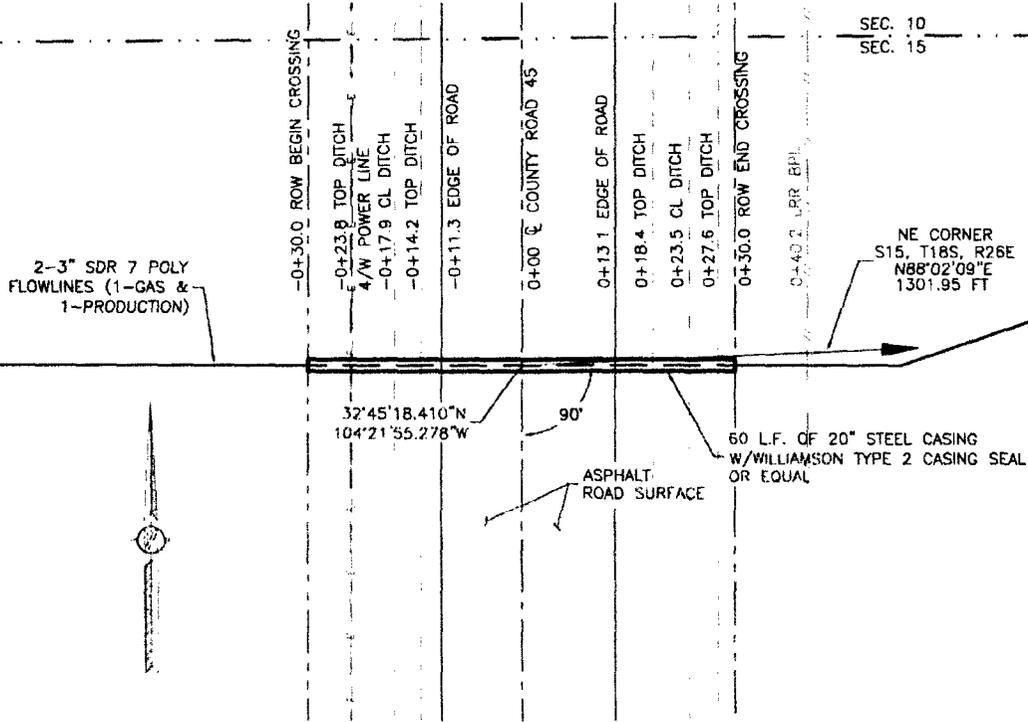
SHEET: 3-3

SURVEY NO. 5345

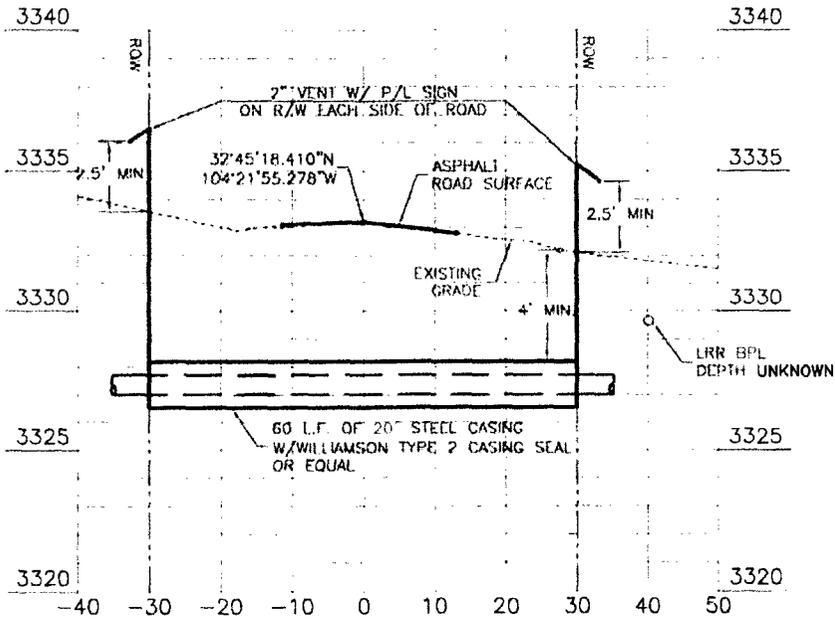
MADRON SURVEYING, INC. 301 S. 2<sup>ND</sup> CANAL (575) 28-50 CARLSBAD, NEW MEXICO

TWO 3" BURIED SDR7 POLY FLOWLINES CROSSING COUNTY ROAD 45

LIME ROCK RESOURCES II-A, L.P.  
 A PIPELINE CROSSING COUNTY ROAD 45  
 (HAYSTACK ROAD) 32°45'18.410" N, 104°21'55.278" W  
 SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JULY 24, 2017



PLAN VIEW  
 SCALE: 1" = 20'



PROFILE VIEW  
 SCALE: 1" = 20' HOR.  
 1" = 5' VER

SHEET: 1-3

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

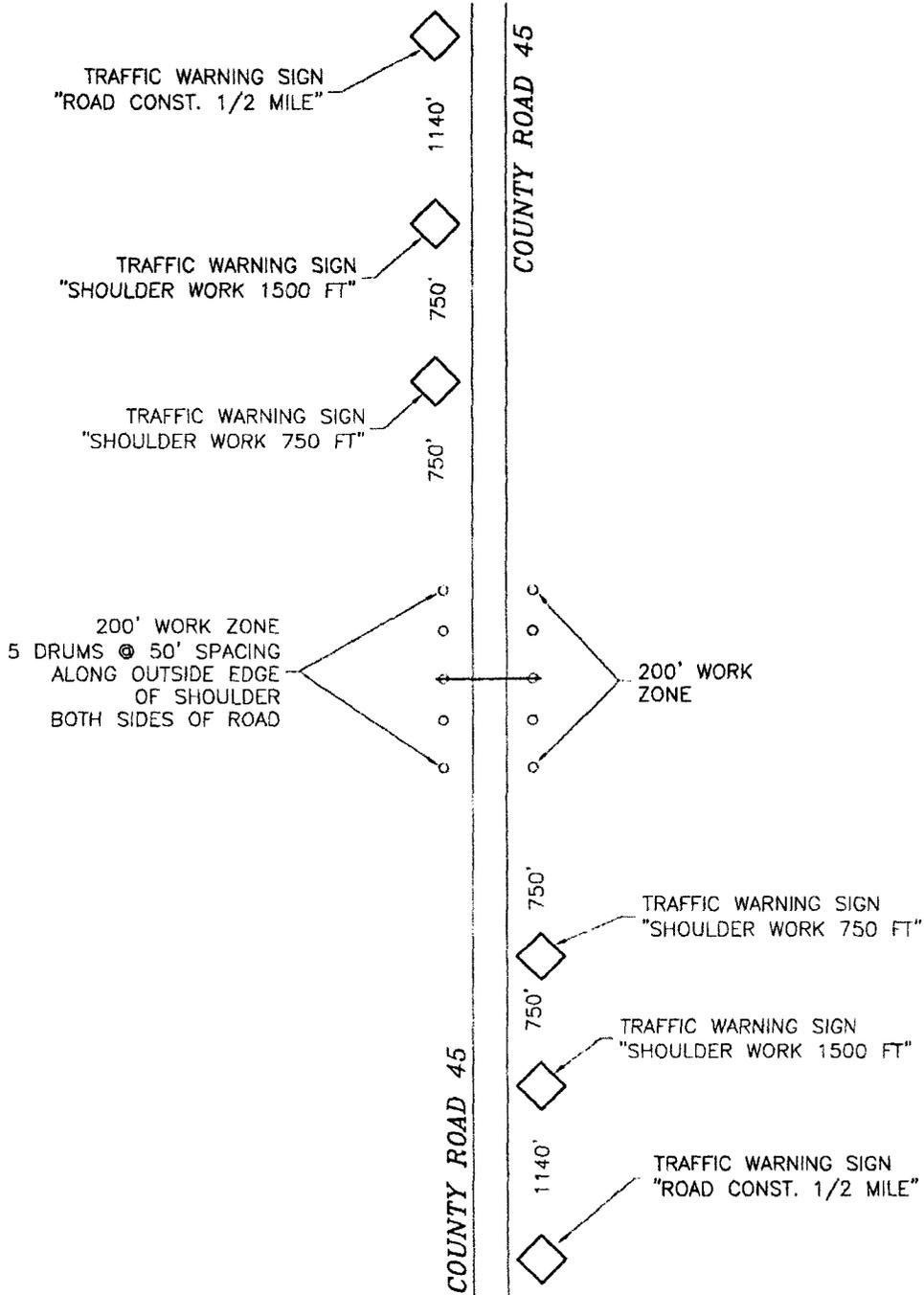
SURVEY NO. 5345

301 S. 5th St. CARLSBAD, NM 88502

TWO 3" BURIED SDR7 POLY FLOWLINES CROSSING COUNTY ROAD 45

LIME ROCK RESOURCES II-A, L.P.  
A PIPELINE CROSSING COUNTY ROAD 45  
(HAYSTACK ROAD) 32°45'18.410"N, 104°21'55.278"W  
SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017

TRAFFIC CONTROL PLAN



NOT TO SCALE

TWO 3" BURIED SDR7 POLY FLOWLINES CROSSING COUNTY ROAD 45

LIME ROCK RESOURCES II-A, L.P.  
A PIPELINE CROSSING COUNTY ROAD 45  
(HAYSTACK ROAD) 32°45'18.410"N, 104°21'55.278"W  
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EDDY COUNTY, STATE OF NEW MEXICO  
JULY 24, 2017

AERIAL ACCESS ROUTE MAP



SHEET: 3-3

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 5345

301 S CANAL (575) 5830

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

**Holland 10N #1  
135' FSL 2300' FWL  
(N) 10-18S-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 4200' 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 4200' MD.

5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates		NA
7 Rivers		NA
Queen		260
Grayburg		637
Premier		906
San Andres		946
Glorieta		2305
Yeso		2395
Tubb		3808
TD		4200

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		260
Grayburg		637
Premier		906
San Andres		946
Glorieta		2305
Yeso		2395
Tubb		3808
TD		4200

7. Proposed Casing and Cement program is as follows

Type	Hole	Casing	Wt	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	B	Welded	80	80			Ready Mix
Surface	11"	8-5/8"	24	J-55	ST&C	1230	450	14.8	1.35	Cl C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl <sub>2</sub>
Intermediate										
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4200	300	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
							600	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	0-1950	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 4200 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 1848 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 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 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.



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

## **Holland 10N #1**

### **Unit N, S10-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 Rec 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

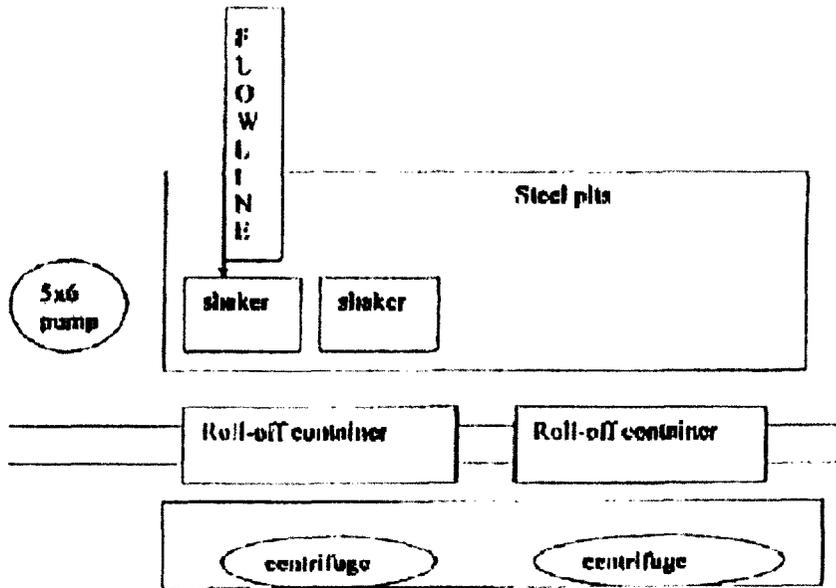
2-500 bbl frac tanks for brine water

#### **Operations:**

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

#### **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: 979.746.1689

Fax: 979.746.6367