

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

OCT. 17 2017

State of New Mexico

Form C-102

Energy, Minerals & Natural Resources Department

Revised August 1, 2011

**OIL CONSERVATION DIVISION**

Submit one copy to appropriate

1220 South St. Francis Dr.

District Office

Santa Fe, NM 87505

AMENDED REPORT

District I  
1625 N French Dr., Hobbs, NM 88210  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
311 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  
Phone: (505) 476-3460 Fax: (505) 476-3462

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-015-44493</b>	<sup>2</sup> Pool Code <b>51120</b>	<sup>3</sup> Pool Name <b>Red Lake; Glorieta-Yeso</b>
<sup>4</sup> Property Code <b>314834</b>	<sup>5</sup> Property Name <b>KAISER 7M</b>	
<sup>7</sup> OGRID No. <b>277558</b>	<sup>8</sup> Operator Name <b>LIME ROCK RESOURCES II-A, L.P.</b>	<sup>6</sup> Well Number <b>15</b>
		<sup>9</sup> Elevation <b>3287.6</b>

**" Surface Location**

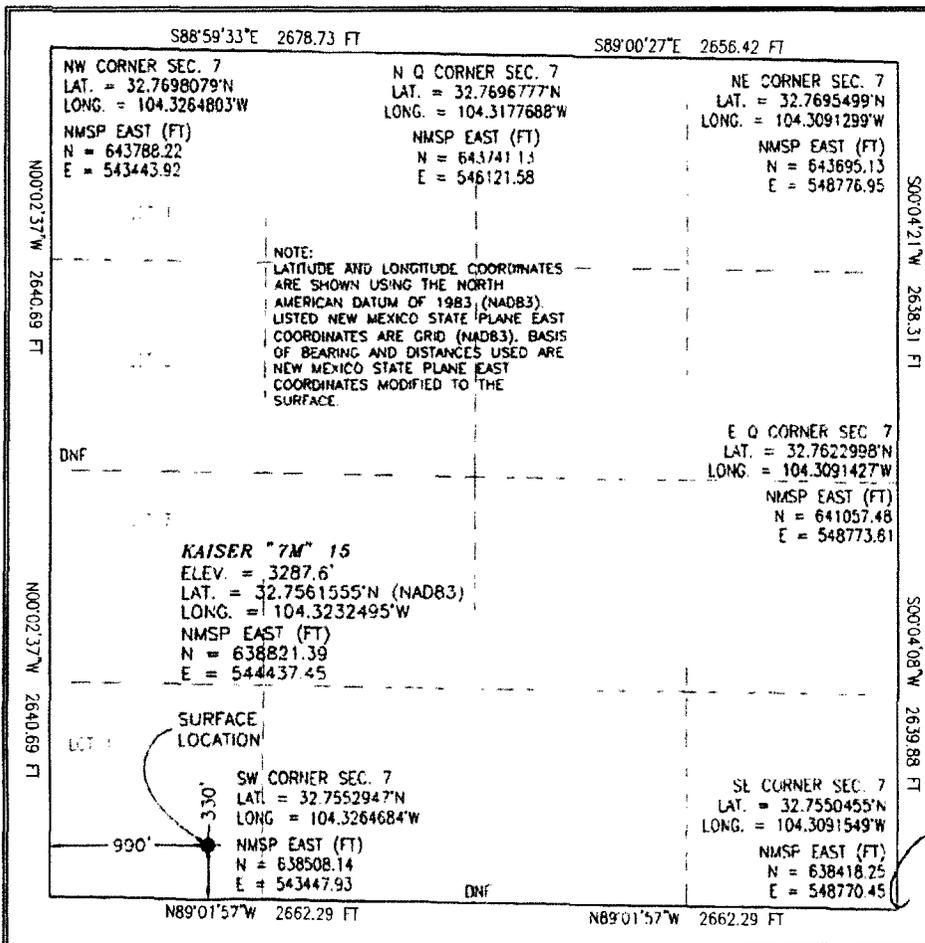
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	7	18 S	27 E		330	SOUTH	990	WEST	EDDY

**" 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

<sup>11</sup> Dedicated Acres <b>40</b>	<sup>12</sup> Joint or Infill	<sup>13</sup> Consolidation Code	<sup>14</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.



**<sup>15</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 in the division.

*Eric P. McCluskey* 10/18/17  
 Signature Date  
 Eric McCluskey  
 Printed Name  
 emccluskey@limerockresources.com  
 E-mail Address

**<sup>16</sup> SURVEYOR CERTIFICATION**

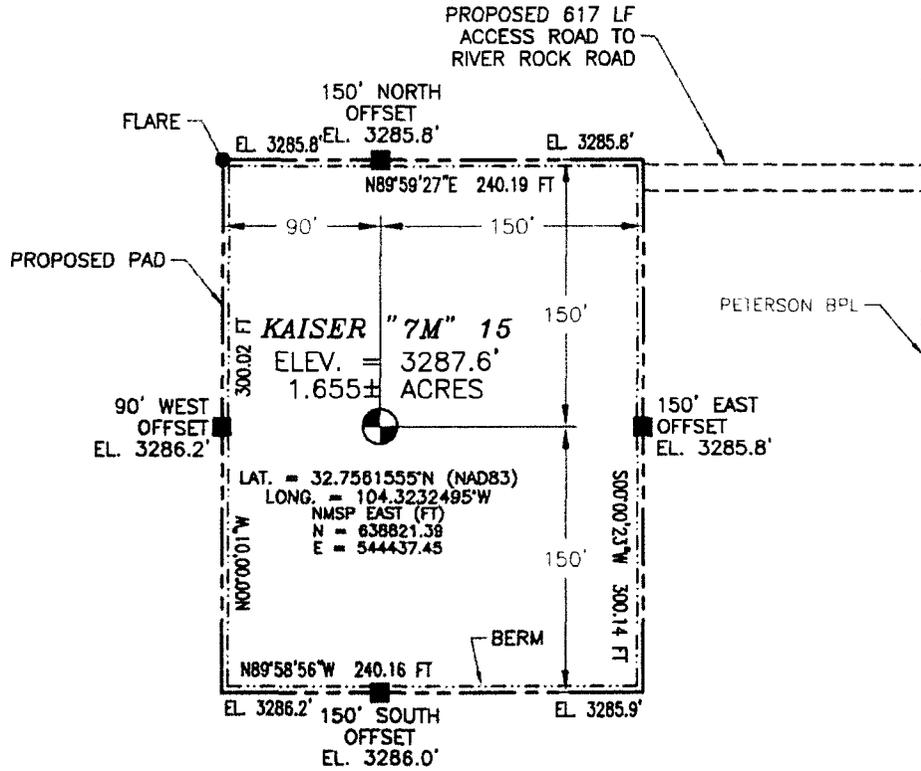
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 1, 2015  
Date of Survey

Signature and Seal of Professional Surveyor  
 Certificate Number: FILMON F. JARAMILLO, PLS 12797  
 SURVEY NO. 3913

SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 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



SEC. 7  
 SEC. 18

010 50 100 200  
 SCALE 1" = 100'

**DIRECTIONS TO LOCATION**  
 FROM CR 39 (4-DINKUS) AND CR 44 (FANNING) AND CALICHE LEASE ROAD GO EAST ON CALICHE LEASE ROAD 1.0 MILE, BEND LEFT AND GO NORTHEAST 0.61 OF A MILE, TURN RIGHT AND GO EAST-NORTHEAST 690', TURN RIGHT AND GO SOUTH-SOUTHEAST 0.12 OF A MILE, BEND RIGHT AND GO SOUTH 0.24 OF A MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS WEST 617' TO THE PROPOSED NORTHEAST PAD CORNER FOR THIS LOCATION.

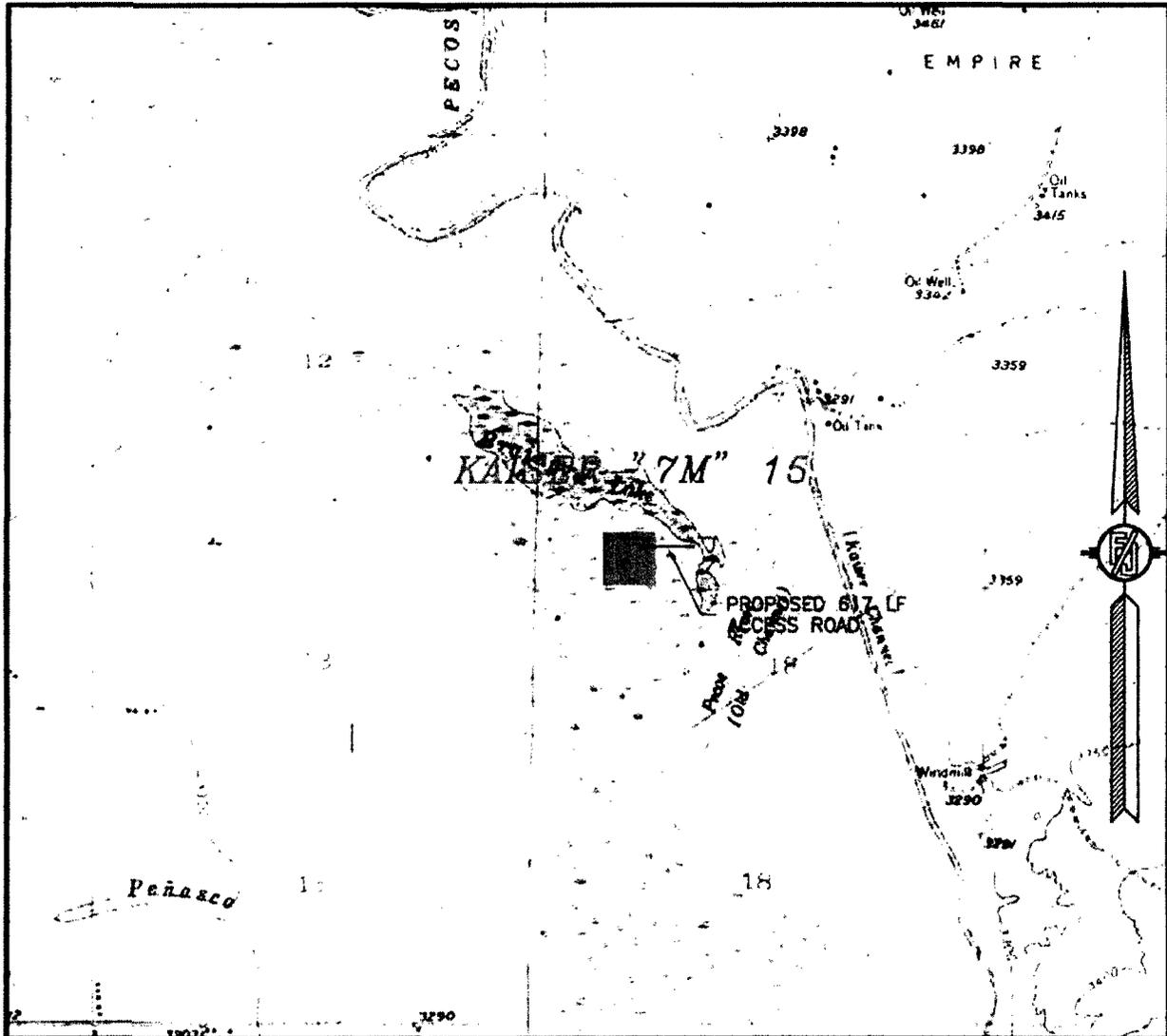
**LIME ROCK RESOURCES II-A, L.P.**  
**KAISER "7M" 15**  
 LOCATED 330 FT. FROM THE SOUTH LINE  
 AND 990 FT. FROM THE WEST LINE OF  
 SECTION 7, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JUNE 1, 2015

SURVEY NO. 3913

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

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



USGS QUAD MAP:  
 SPRING LAKE

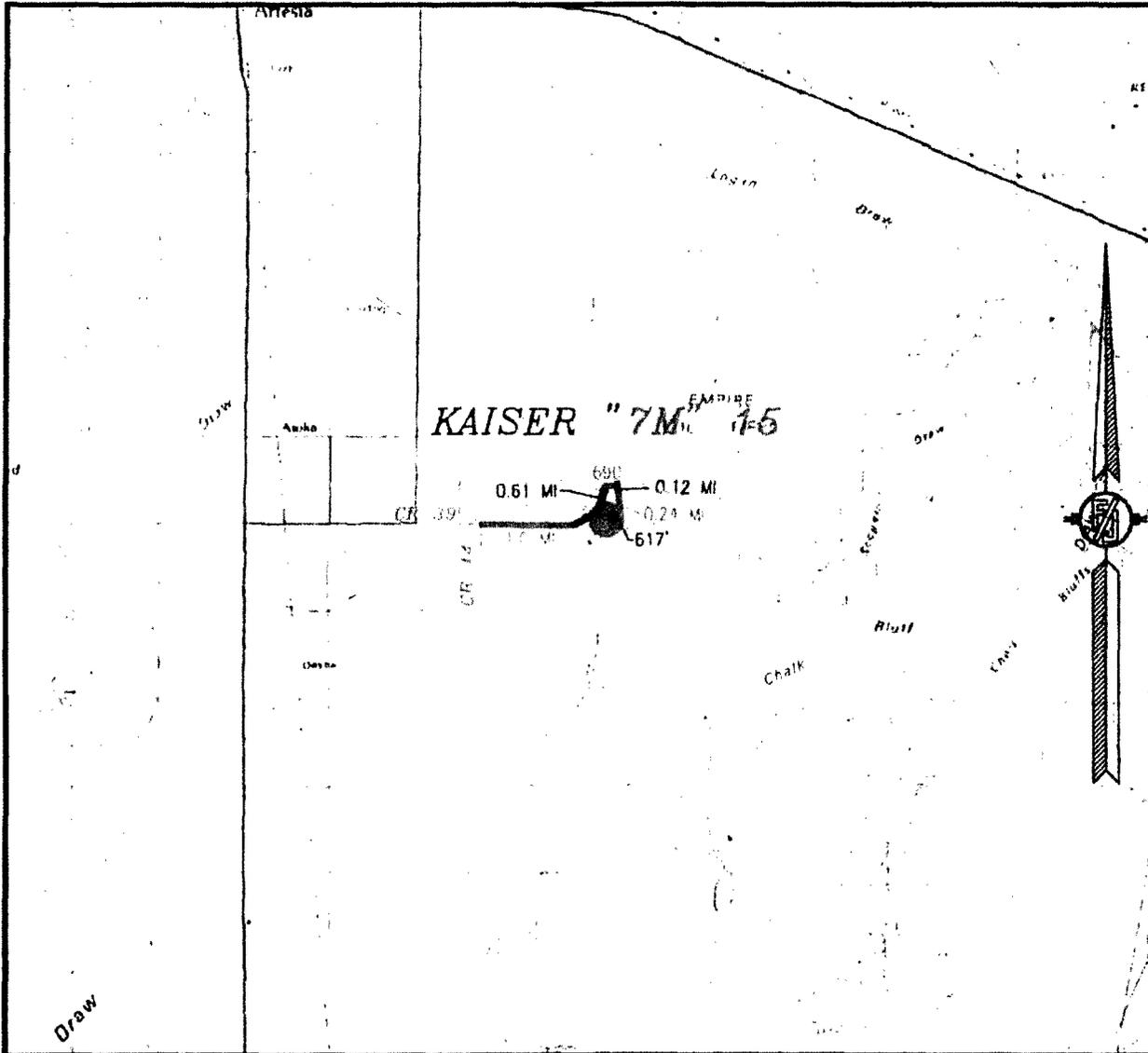
NOT TO SCALE

LIME ROCK RESOURCES II-A, L.P.  
**KAISER "7M" 15**  
 LOCATED 330 FT. FROM THE SOUTH LINE  
 AND 990 FT. FROM THE WEST LINE OF  
 SECTION 7, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JUNE 1, 2015

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO SURVEY NO. 3913  
 (575) 234-3341

SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 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.  
**KAISER "7M" 15**  
 LOCATED 330 FT. FROM THE SOUTH LINE  
 AND 990 FT. FROM THE WEST LINE OF  
 SECTION 7, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

**DIRECTIONS TO LOCATION**

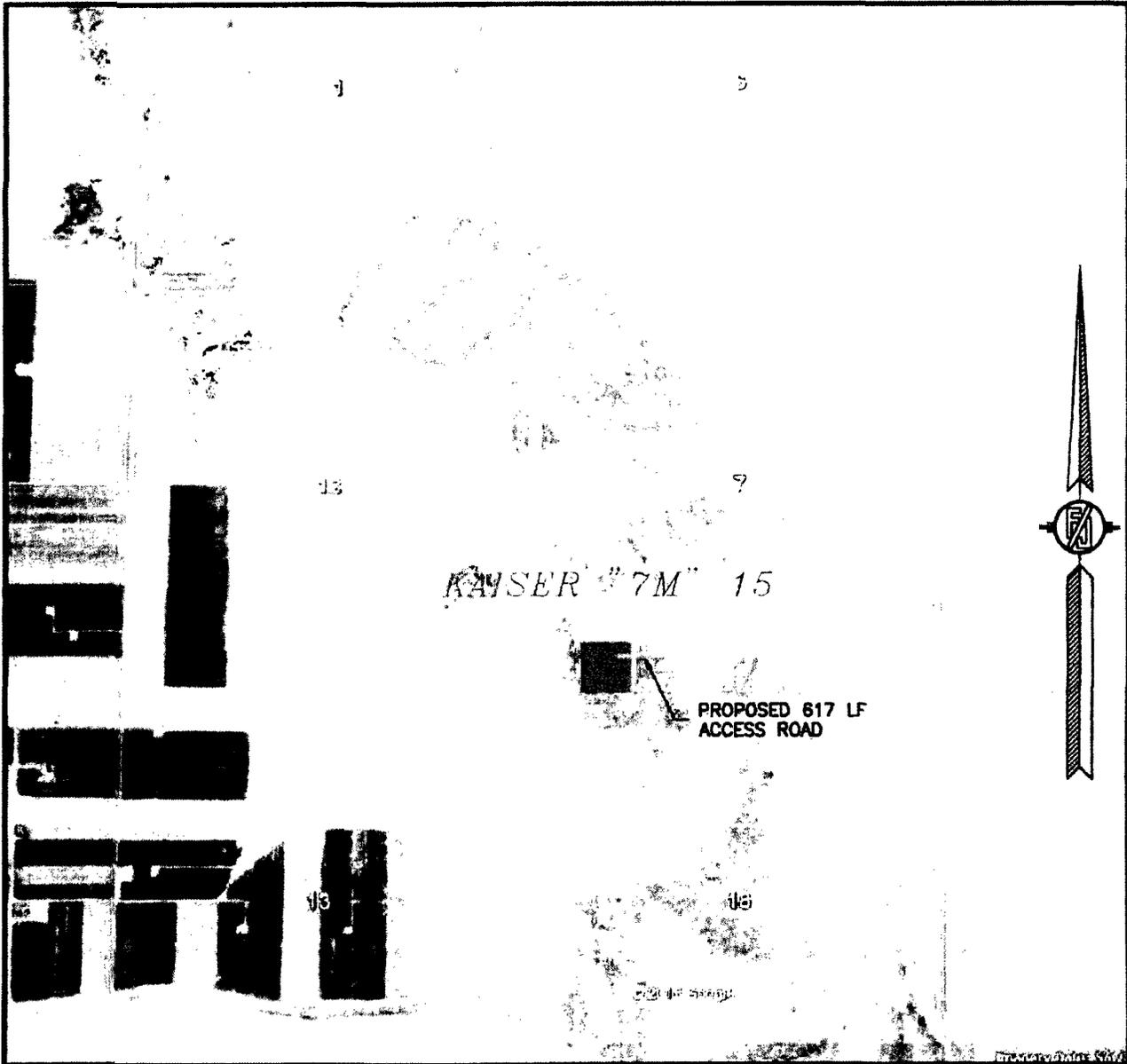
FROM CR 39 (4-DINKUS) AND CR 44 (FANNING) AND CALICHE LEASE ROAD GO EAST ON CALICHE LEASE ROAD 1.0 MILE, BEND LEFT AND GO NORTHEAST 0.61 OF A MILE, TURN RIGHT AND GO EAST-NORTHEAST 89°, TURN RIGHT AND GO SOUTH-SOUTHEAST 0.12 OF A MILE, BEND RIGHT AND GO SOUTH 0.24 OF A MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS WEST 617' TO THE PROPOSED NORTHEAST PAD CORNER FOR THIS LOCATION.

JUNE 1, 2015

SURVEY NO. 3913

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

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  
MAY 2014

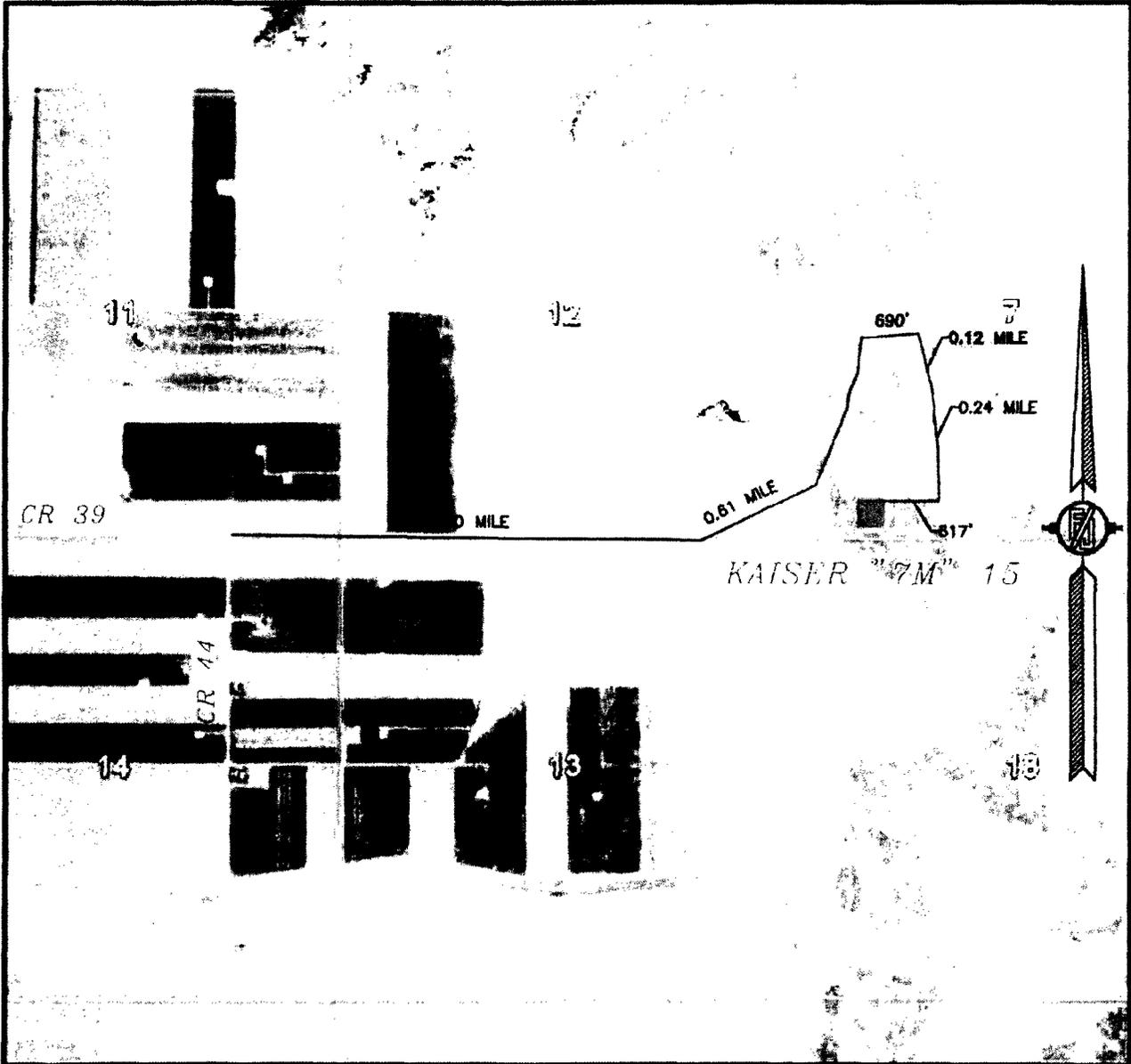
LIME ROCK RESOURCES II-A, L.P.  
KAISER "7M" 15  
LOCATED 330 FT. FROM THE SOUTH LINE  
AND 990 FT. FROM THE WEST LINE OF  
SECTION 7, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 1, 2015

SURVEY NO. 3913

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

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



NOT TO SCALE  
 AERIAL PHOTO:  
 GOOGLE EARTH  
 MAY 2014

LIME ROCK RESOURCES II-A, L.P.  
 KAISER "7M" 15  
 LOCATED 330 FT. FROM THE SOUTH LINE  
 AND 990 FT. FROM THE WEST LINE OF  
 SECTION 7, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

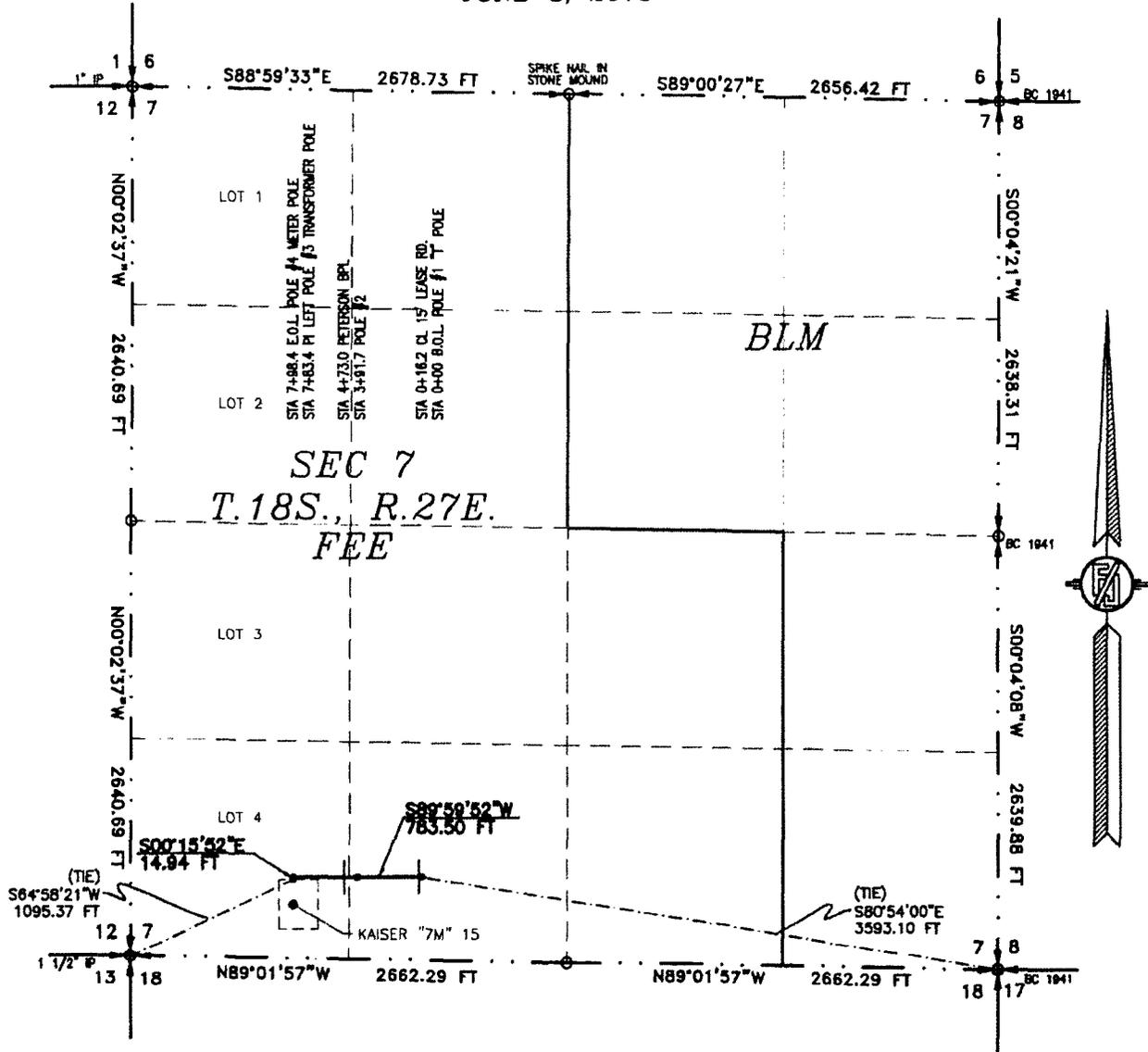
JUNE 1, 2015

SURVEY NO. 3913

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

**ELECTRIC LINE PLAT**  
ELECTRIC LINE TO CONNECT THE KAISER "7M" 15

CENTRAL VALLEY ELECTRIC  
CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING  
SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JUNE 8, 2015



SEE NEXT SHEET (2-4) 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 7 DAY OF AUGUST 2015

FILMON 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 IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SURVEY NO. 3913

SHEET: 1-4

MADRON SURVEYING INC. CARLSBAD, NEW MEXICO

**ELECTRIC LINE PLAT**  
**ELECTRIC LINE TO CONNECT THE KAISER "7M" 15**  
**CENTRAL VALLEY ELECTRIC**  
**CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING**  
**SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.**  
**EDDY COUNTY, STATE OF NEW MEXICO**  
**JUNE 8, 2015**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 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 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S80°54'00"E, A DISTANCE OF 3593.10 FEET;  
 THENCE S89°59'52"W A DISTANCE OF 783.50 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
 THENCE S00°15'52"E A DISTANCE OF 14.94 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S64°58'21"W, A DISTANCE OF 1095.37 FEET;

SAID STRIP OF LAND BEING 798.44 FEET OR 48.39 RODS IN LENGTH, CONTAINING 0.549 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4	443.53 L.F.	26.88 RODS	0.305 ACRES
LOT 4	354.91 L.F.	21.51 RODS	0.244 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 22<sup>ND</sup> DAY OF AUGUST 2015

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 IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

**SHEET: 2-4**

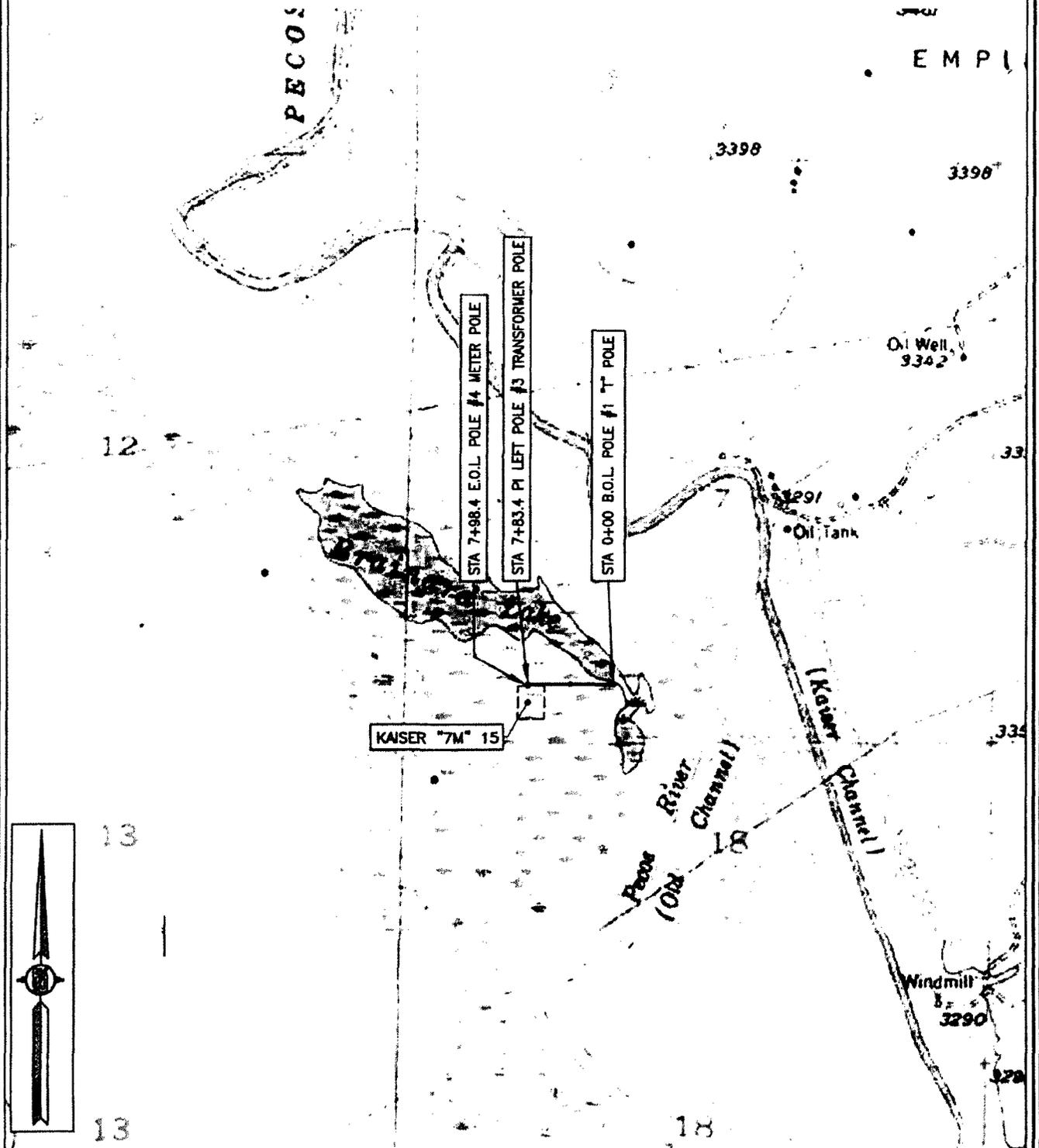
**MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO**

**SURVEY NO. 3913**

301 SOUTH CANAL  
(575) 234-3341

**ELECTRIC LINE PLAT**  
ELECTRIC LINE TO CONNECT THE KAISER "7M" 15

**CENTRAL VALLEY ELECTRIC**  
CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING  
SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JUNE 8, 2015



SHEET: 3-4

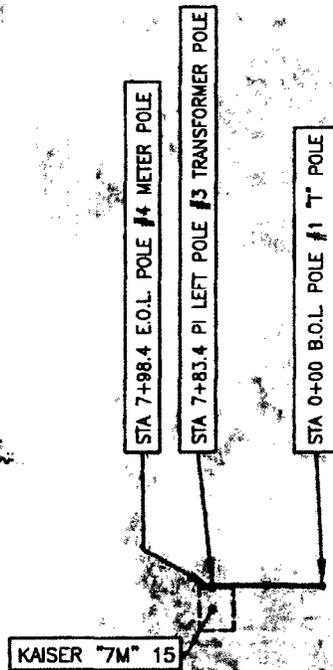
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SURVEY NO. 3913

**ELECTRIC LINE PLAT**

ELECTRIC LINE TO CONNECT THE KAISER "7M" 15

**CENTRAL VALLEY ELECTRIC**  
CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING  
SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JUNE 8, 2015



13

13

SHEET: 4-4

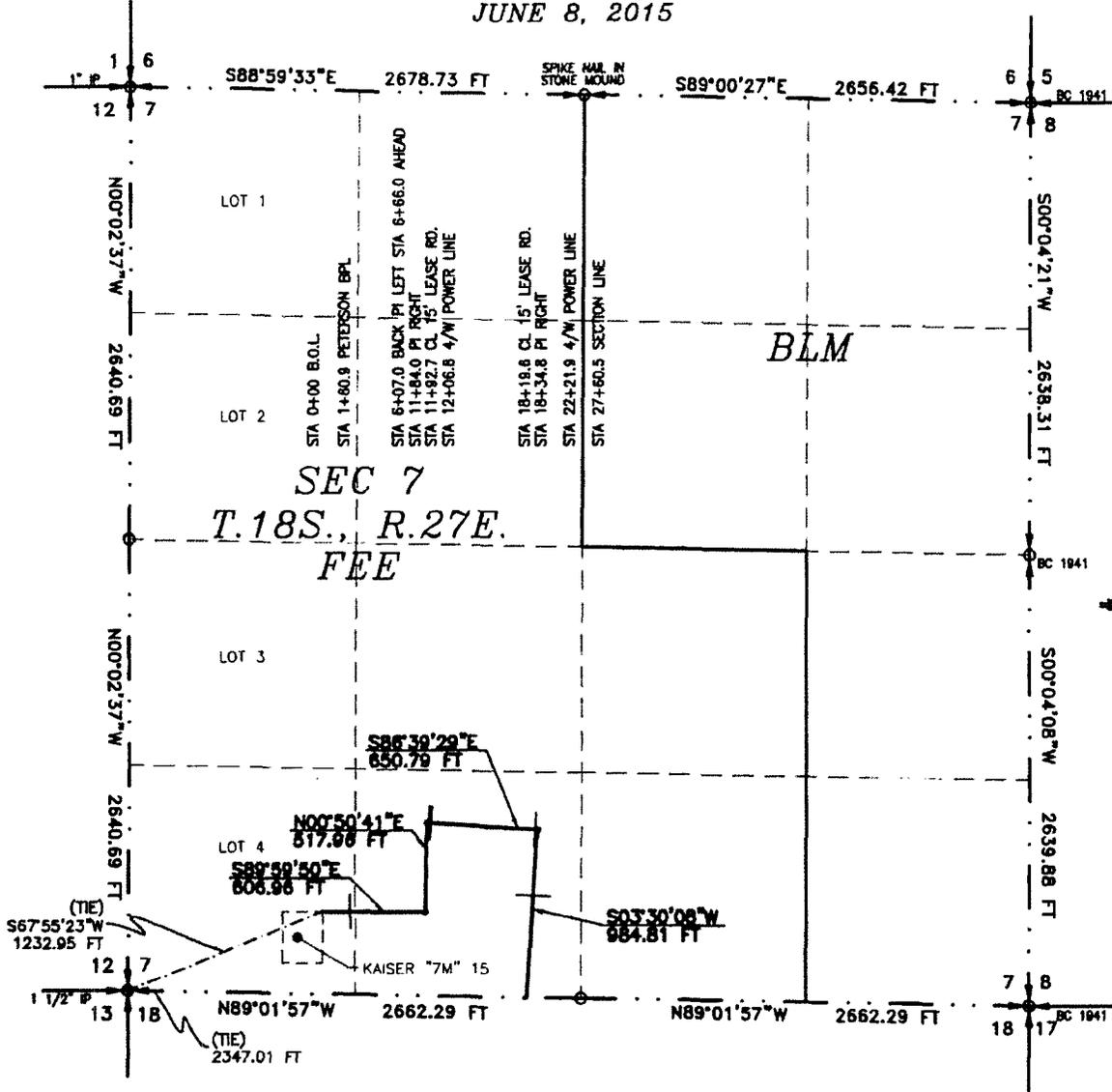
SURVEY NO. 3913

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

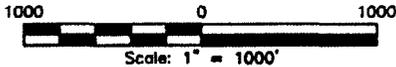
**FLOWLINE PLAT**  
 RIGHT-OF-WAY FOR TWO 3" SDR 7 POLY SURFACE LINES FROM THE KAISER "7M" 15 TO THE  
 KAISER "B" BATTERY

LIME ROCK RESOURCES II-A, L.P.  
 CENTERLINE SURVEY OF A PIPELINE CROSSING  
 SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JUNE 8, 2015



SEE NEXT SHEET (2-6) FOR DESCRIPTION



**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

**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 DAY OF AUGUST, 2015.

FILMON F. JARAMILLO, PLS., 12797  
 MADRON SURVEYING, INC.  
 30 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 Phone (575) 234-3341

SHEET: 1-6

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO SURVEY NO. 3913

**FLOWLINE PLAT**

**RIGHT-OF-WAY FOR TWO 3" SDR 7 POLY SURFACE LINES FROM THE KAISER "7M" 15 TO THE KAISER "B" BATTERY**

**LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JUNE 8, 2015**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 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 LOT 4 OF SAID SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S67°55'23"W, A DISTANCE OF 1232.95 FEET; THENCE S89°59'50"E A DISTANCE OF 606.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N00°50'41"E A DISTANCE OF 517.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S86°39'29"E A DISTANCE OF 650.79 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S03°30'08"W A DISTANCE OF 984.81 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 7, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N89°01'57"W, A DISTANCE OF 2347.01 FEET;

SAID STRIP OF LAND BEING 2760.52 FEET OR 167.30 RODS IN LENGTH, CONTAINING 1.901 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 4            189.82 L.F.    11.50 RODS    0.131 ACRES  
SE/4 SW/4    2570.70 L.F.    155.80 RODS    1.770 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 8 DAY OF AUGUST 2015

*[Signature]*  
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 IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SHEET: 2-6

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

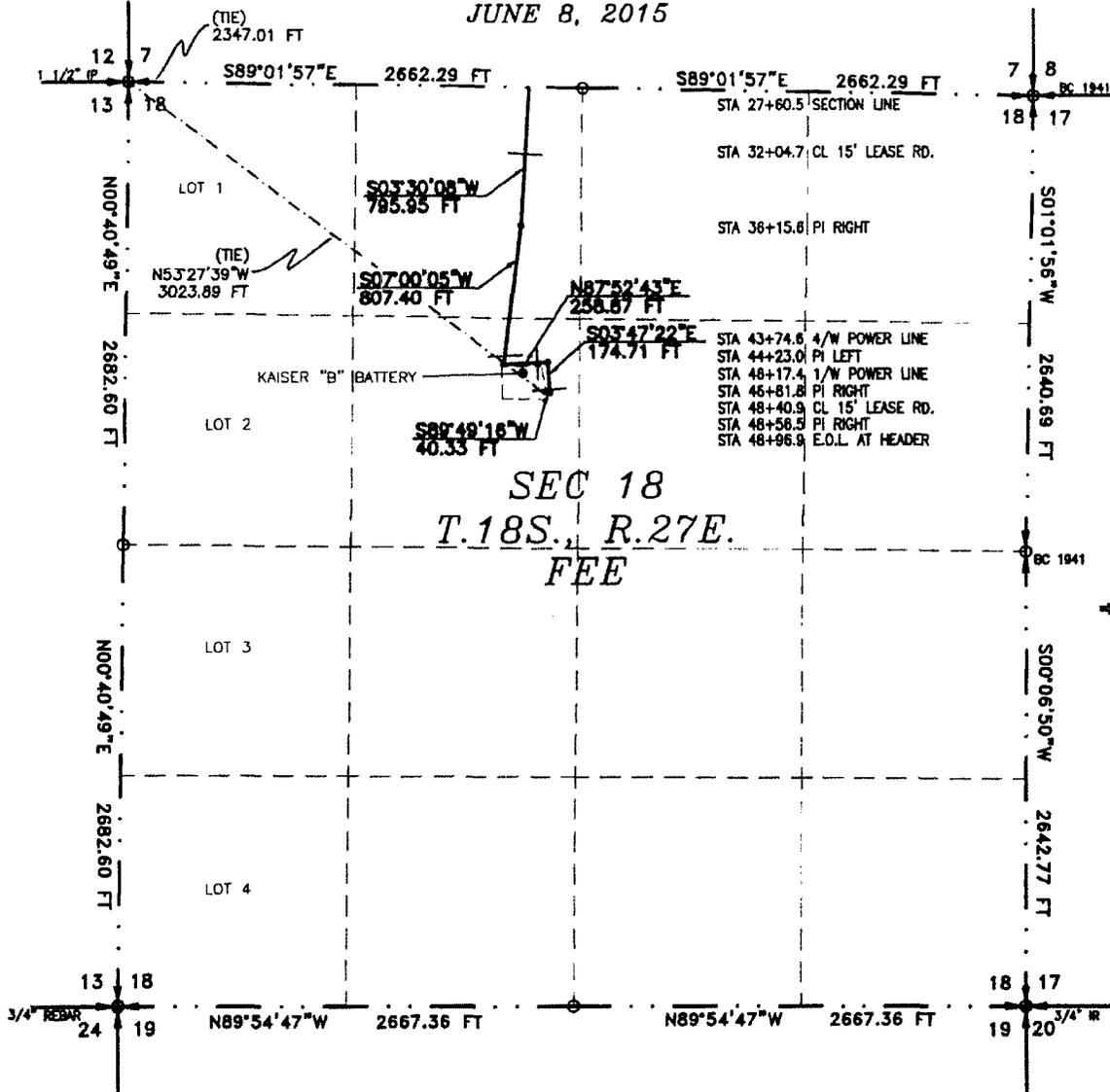
**SURVEY NO. 3913**

301 SOUTH CANAL  
(575) 234-3341

**FLOWLINE PLAT**

RIGHT-OF-WAY FOR TWO 3" SDR 7 POLY SURFACE LINES FROM THE KAISER "7M" 15 TO THE KAISER "B" BATTERY

LIME ROCK RESOURCES II-A, L.P.  
 CENTERLINE SURVEY OF A PIPELINE CROSSING  
 SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JUNE 8, 2015



SEC 18  
 T.18S. R.27E.  
 FEE

SEE NEXT SHEET (4-6) FOR DESCRIPTION



**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

**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 27th DAY OF AUGUST, 2015

*(Signature)*  
 FILIMON F. JARAMILLO, P.E.S. 12797

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

SHEET: 3-6

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

SURVEY NO. 3913

**FLOWLINE PLAT**

**RIGHT-OF-WAY FOR TWO 3" SDR 7 POLY SURFACE LINES FROM THE KAISER "7M" 15 TO THE KAISER "B" BATTERY**

**LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JUNE 8, 2015**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 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 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N89°01'57"W, A DISTANCE OF 2347.01 FEET;  
THENCE S03°30'08"W A DISTANCE OF 795.95 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE S07°00'05"W A DISTANCE OF 807.40 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N87°52'43"E A DISTANCE OF 258.87 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE S03°47'22"E A DISTANCE OF 174.71 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE S89°49'16"W A DISTANCE OF 40.33 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N53°27'39"W, A DISTANCE OF 3023.89 FEET;

SAID STRIP OF LAND BEING 2077.26 FEET OR 125.89 RODS IN LENGTH, CONTAINING 1.430 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4 1336.18 L.F. 80.98 RODS 0.920 ACRES  
SE/4 NW/4 741.08 L.F. 44.91 RODS 0.510 ACRES

**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 22 DAY OF AUGUST 2015

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

FILMON F. JARAMILLO, PLS. 12797

**SURVEY NO. 3913**

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

**SHEET: 4-6**

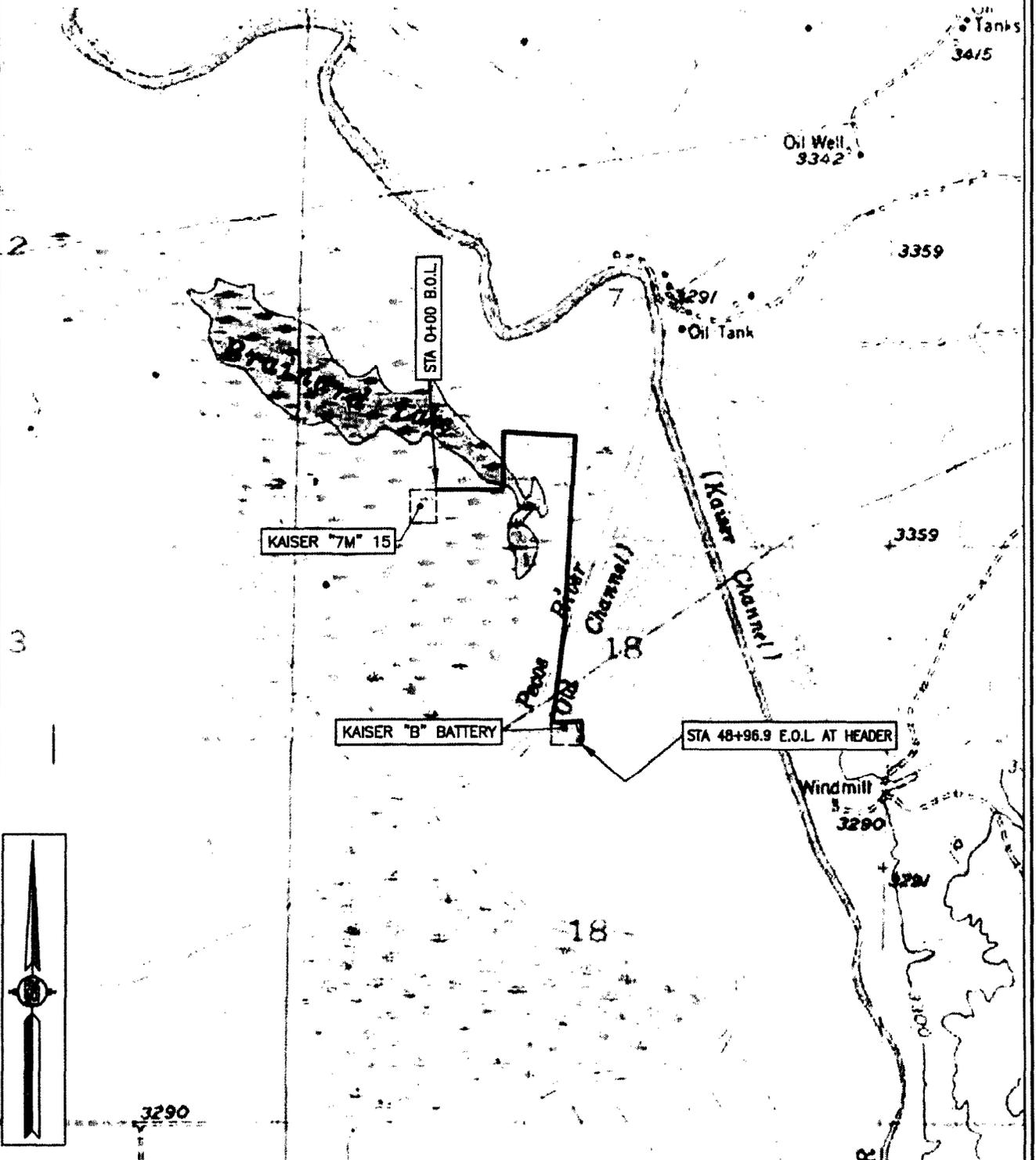
**MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO**

301 SOUTH CANAL  
(575) 234-3341

**FLOWLINE PLAT**

RIGHT-OF-WAY FOR TWO 3" SDR 7 POLY SURFACE LINES FROM THE KAISER "7M" 15 TO THE KAISER "B" BATTERY

LIME ROCK RESOURCES II-A, L.P.  
CENTERLINE SURVEY OF A PIPELINE CROSSING  
SECTIONS 7, 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JUNE 8, 2015



SHEET: 5-6

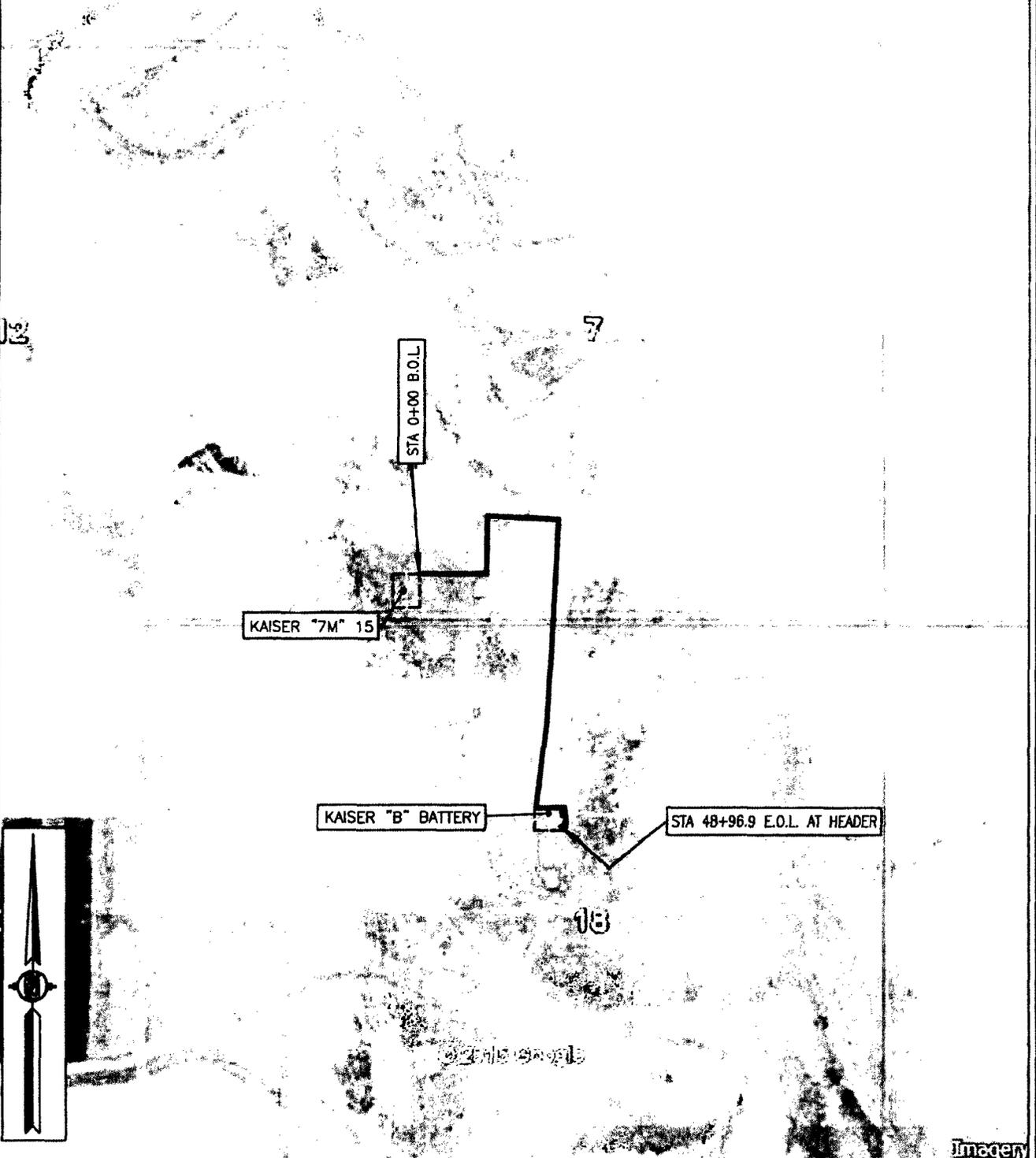
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

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Imagery

SHEET: 6-6

SURVEY NO. 3913

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

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

**Kaiser 7 M #15  
330' FSL 990' FWL  
(M) 7-18S-27E  
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 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.

5. 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	1050	1050
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	1050	1050
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

Type	Hole	Casing	Wt	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	B	Welded	80	80			Ready Mix
Surface	12.25"	8-5/8"	24	J-55	ST&C	1230	600	14.8	1.35	Cl C Cml + 0.25 lbs/sk Cello Flake + 2% CaCl <sub>2</sub>
Intermediate										
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4550	300	12.8	1.903	(35:65) Poz/Cl C Cml + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 + 0.2% R-3 + 6% Gel
							500	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	0-1230	1230-4130	4130-4334
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 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 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. 100. 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 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/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

■ 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**

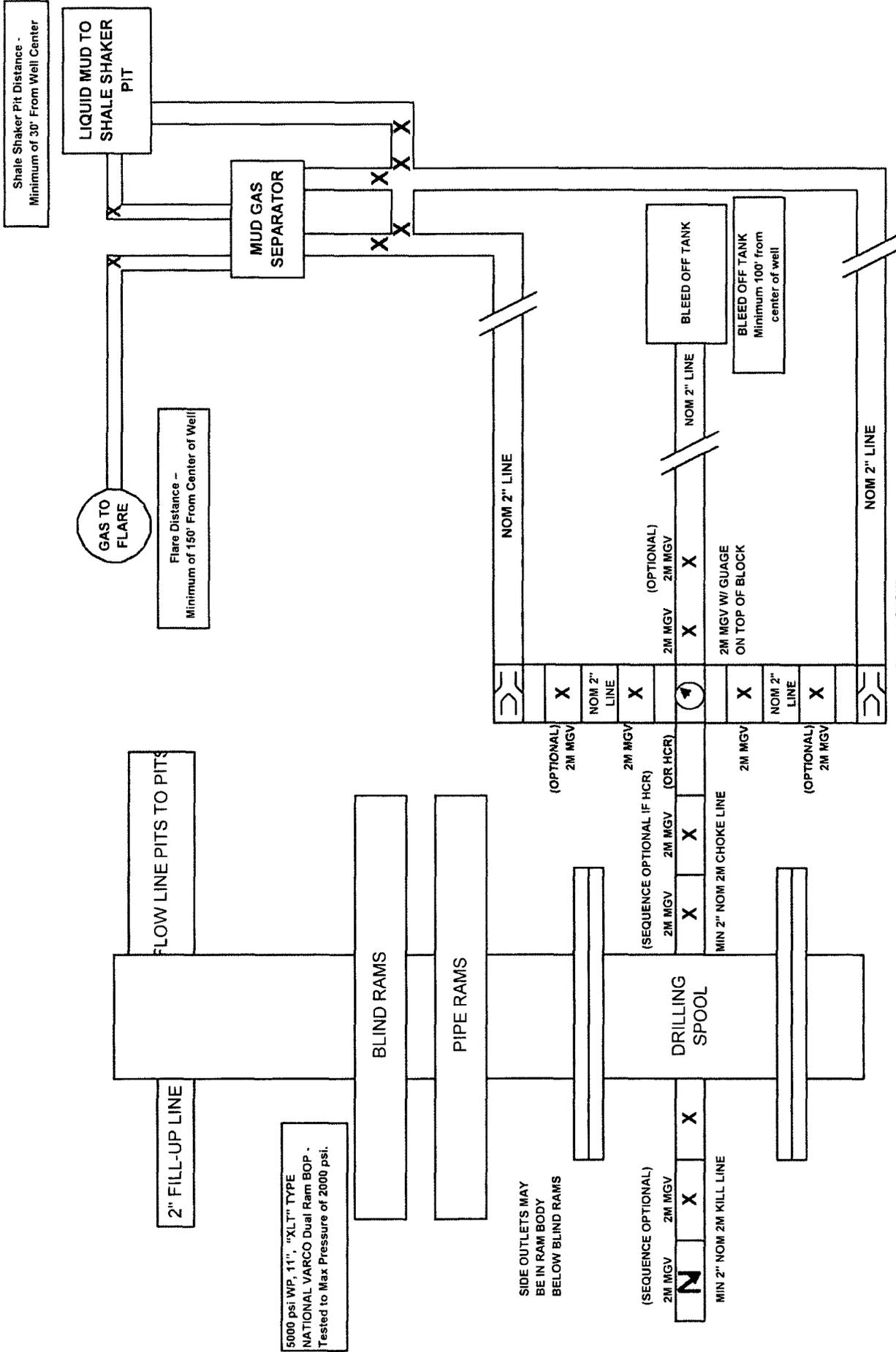
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams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

# 2M BOP SCHEMATIC



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

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

SIDE OUTLETS MAY  
 BE IN RAM BODY  
 BELOW BLIND RAMS

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

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

## **Kaiser 7 M #15**

### **Unit M, 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 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

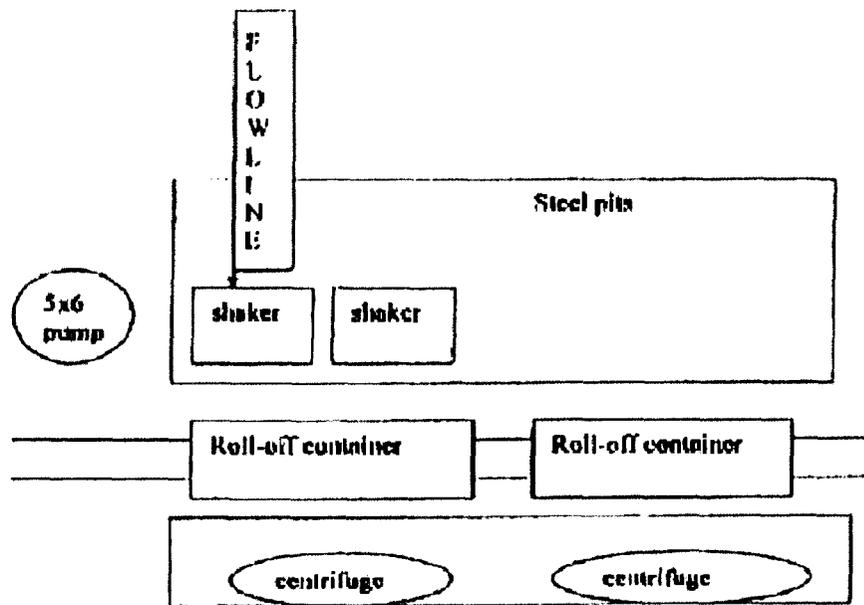
2-500 bbl frac tanks for brine water

#### **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 immediatel

#### **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  
**CLS**  
 CLOSED LOOP  
 SPECIALTY

Office: 575.746.1689

Cell: 575.748.6367