1625 N. French Dr., Hohns, NM 38249 Priorie (575) 393-6161 Tax (575) 393-0720 District li

1906 Rio Brazos Read, Aziec NAt 82410 Phone (505) \$34-6) /8 Fax (505) 334-6-70

1220 S. St. Francis Di., Santa Fe, NAt. 87505

District IV

State of New Mexico

Form (=101 Revised July 18, 2013

☐ AMENDED Repo

NM OIL CONSERVATION

Resources 811 S. Eust St., Artesia, NM 88210 Phone (575) 748-1283 Eax (575) 748-9720 District II)

ARTESIA DISTRIGII Conservation Division

AUG 2 2 201720 South St. Francis Dr

Santa Fe, NM 87505

RECEIVED

Onerator Name and Address Linne Rock Resources II-A, L P LLL Bagby Street, Suite 4600 Houston, Texas 77002							EN, PLUGB.	OGRID Number 277:	558
* 256	sacras Code		1	1000 FROGREGI. 1	Property Name				115- 444/3 Regins
	3150913	19465	<u> </u>	7	Bramard 12M				#2
til Lot	Section	Lownship	Range	<u> </u>	urface Lo	cation	Feet From	I W Line	County
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Expe Conductor		Size	Casing Size 20"	Casing Wo	~	Setting Depth 80	Sacks of C	ement	Estimated TOC Surface
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Conductor Surface	r 20	6".	20" 8-5/8" 5-1/2" Casin	24 17 g/Cement I Artesian A	Program: A	80 1230 4600 Additional C	900 0mments	;	Surface Surface Surface
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Conductor Surface	r 20	6".	20" 8-5/8" 5-1/2" Casin	g/Cement I Artesian A	Program: A equifer Poros	80 1230 4600 Additional C sity 1160'-117 ention Progr	omments O' arm	;	Surface Surface Surface
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NM OIL CONSERVATION of New Mexico

ARTESIA DISTRICT
AUGI 22 2017 CONSERVATION DIVISION

1220 South St. Francis Dr. RECEIVED Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

District I 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 Phone (505) 476-3460 Fax: (505) 476-3462

" Dedicated Acres

" Joint or Infill

14 Consolidation Code

30 - 0	API Number	4412	3	Pool Code		toka; Glor	ieta - Yeal Na	me 7		
Property 31509	Code 319	1465	•		' Property BRAINAR	,			۰۱	Veil Number 2
OGRID 27755			Operator Name LIME ROCK RESOURCES II-A, L.P.					* Elevation 3298.2		
					Surface 1	Location				
UL or lot no. M	Section 12	Township 18 S	Range 26 E	Lot Idn	Feet from the 990	North/South line SOUTH	Feet from the 1295	East/We WE		County EDDY
			" B	ottom Ho	ole Location	If Different F	rom Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County

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.

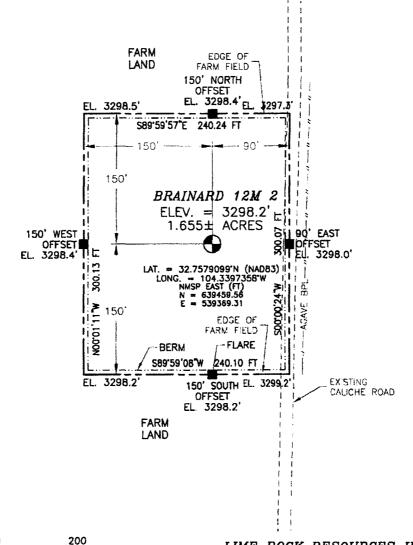
15 Order No.

	N89:30'04"I	2664 56 FT N89'39'6	04°F 2664.56 FT	"OPERATOR CERTIFICATION
	NW CORNER SEC. 12	ONE	NE CORNER SEC 12 LAT. = 32,7698079'N	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
	LAT. \Rightarrow 32.7697185'N LONG. \Rightarrow 104.3438135'W	I	LONG. = 104.3264803'W	working interest or unleased mineral interest in the land including the proposed
	NMSP EAST (FT)	1	NMSP EAST (FT) N = 643788.22	bottom hole location or has a right to drift this well at this location pursuant to
_	N = 643755.77 E = 538116.20		E = 543443.92	a contract with an owner of such a mineral or working interest, or to a
93 F			'	woluntary pooling agreement or a compulsory pooling order hereusfore entered
2649		, NOTE:	14	3 10 1. nacharas 8/21/17
NCO 33 19 E		LATITUDE AND LONGITUDE (COORDINATES ARE SHO'S AMERICAN DATUM OF 1988 (NAD83) LISTED NEW EAST COORDINATES ARE GRID (NAD83). BASIS OF DISTANCES USED ARE NEW MEXICO STATE PLANE MODIFIED TO THE SURFACE. VERTICAL DATUM	MEXICO STATE PLANE BEARING AND EAST COORDINATES	Eric Mc(logky
	D. C.		i I	emallisty @ lime rack regources
	DNF		· · · · · · · · · · · · · · · · · · ·	GUDVENOD GEDTIEIGATION
		BRAINARD 12M 2 ELEV = 3298.2'		"SURVEYOR CERTIFICATION
	I	LAT. = 32.7579099'N (NAUB3) LONG. = 104.3397358'W		I hereby certify that the well location shown on this plat was
	ı	NMSP EAST (FT)	ļ	plotted from field notes of actual surveys made by me or under
		N = 639459.56 E = 539369.31	g	my supervision, and that the same is true and correct to the
2549.93	1	SURFACE	0,440	best of my belief.
7.		LOCATION		JULY 6, 2017
400'33'19"E	1295'	/° :	SE CORNER SEC. 12	Date of Survey
25		SW CORNER SEC. 12 LAT. = 32.7551551'N LONG. = 104.3439789'W	LAT. = 32.7552947'N LONG. = 104.3264684'W	Jan Hamile
		NMSP FAST (FT) N = 638457.46 E = 538064.84	NMSP EAST (FT) N = 638508.14 E = 543447.93	Sumable and Seal of Professional Superson Centificate National Professional Superson Centificate National Professional Superson Centificate National Professional Superson Centificate National Superson Centificate
٠	S89'27'39'W	2692.32 FT \$8919713	8°W 2692.32 FT	SURVEY NO. 5291

SECTION 12, 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). BASIG OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



SCALE 1" = 100'
DIRECTIONS TO LOCATION
FROM OR 39 (FOUR DINKUS) AND CR 44 (FANNING) AND CALICHE
LEASE ROAD, GO EAST ON CALICHE ROAD 0.5 OF A MILE, TURN LEFT
AND GO NORTH 865' TO THE SOUTHEAST PAD CORNER FOR THIS
LOCATION.

LIME ROCK RESOURCES II-A, L.P.
BRAINARD 12M 2

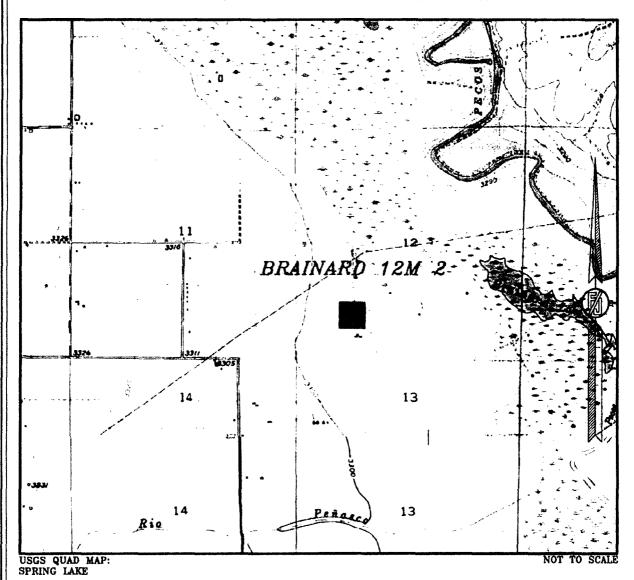
LOCATED 990 FT. FROM THE SOUTH LINE AND 1295 FT. FROM THE WEST LINE OF SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

JULY 6, 2017

SURVEY NO. 5291

MADRON SURVEYING, INC. 301 SOUTH CARLSBAD, NEW MEXICO

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



LIME ROCK RESOURCES II-A, L.P.

BRAINARD 12M 2

LOCATED 990 FT. FROM THE SOUTH LINE
AND 1295 FT. FROM THE WEST LINE OF
SECTION 12, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.

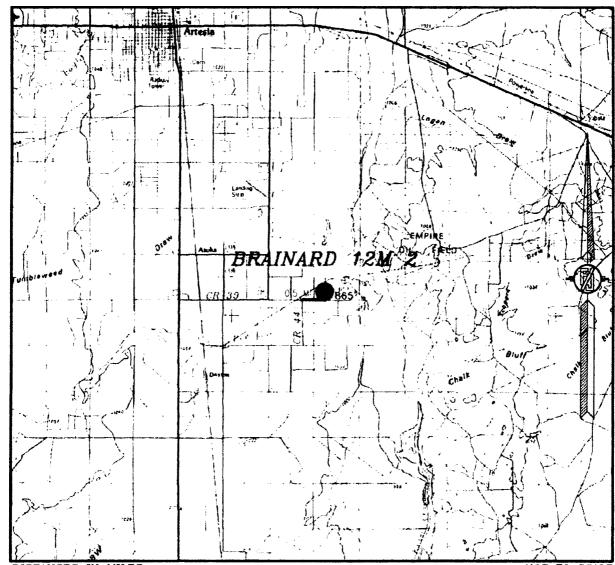
JULY 6, 2017

EDDY COUNTY, STATE OF NEW MEXICO

SURVEY NO. 5291

MADRON SURVEYING, INC. 50. SOUTH CARAL CARLSBAD, NEW MEXICO

SECTION 12, 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) AND CALICHE
LEASE ROAD, CO EAST ON CALICHE ROAD 0.5 OF A MILE, TURN LEFT
AND GO NORTH 865' TO THE SOUTHEAST PAD CORNER FOR THIS
LOCATION.

LIME ROCK RESOURCES II—A, L.P.

BRAINARD 12M 2

LOCATED 990 FT. FROM THE SOUTH LINE
AND 1295 FT. FROM THE WEST LINE OF
SECTION 12, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JULY 6, 2017

SURVEY NO. 5291

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

SECTION 12, 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.

BRAINARD 12M 2
LOCATED 990 FT FROM THE SOUTH LINE

LOCATED 990 FT. FROM THE SOUTH LINE AND 1295 FT. FROM THE WEST LINE OF SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

JULY 6, 2017

SURVEY NO. 5291

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 12, 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 2016

LIME ROCK RESOURCES II-A, L.P. BRAINARD 12M 2

LOCATED 990 FT. FROM THE SOUTH LINE AND 1295 FT. FROM THE WEST LINE OF SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

JULY 6, 2017

SURVEY NO. 5291

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

FLOWLINE PLAT TWO 3" POLY SURFACE LINES (1-GAS & 1-PRODUCTION) FROM THE BRAINARD 12M 2 TO THE BRAINARD GAS COM 2 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 6, 2017 N89'39'04"E 2664.56 FT N89'39'04"E 2664.56 FT (TIE) 1307.49 FT STA 43+86.2 SECTION LINE STA 43+82.3 CL 10' LEASE RD. STA 38+98.8 1/W POWER LINE STA 38+25.6 PI RIGHT STA 34+55.9 PI LEFT S89'58'30"W STA 31+90.9 PI LEFT STA 31+32.8 AGAVE BPL STA 30+31.8 PI LEFT STA 30+27.5 B/W FENCE NO0*33 SEC 12 T.18S., R.26E. STA 14+85.9 B/W FENCE STA 14+58.6 CL 15' LEASE RD. STA 12+56.0 AGAYE BPL STA 12++11.3 TRANSWESTERN BPL STA 11+54.2 TRANSWESTERN BPL STA 11+17.7 CL 10' LEASE RD. STA 11+17.7 CL 10' LEASE RD. STA 110+98.0 TRANSWESTERN BPL FEEE STA. 5+24.4 PI LEFT STA 2+24.3 PI RIGHT 19 E STA 0+37.3 PI LEFT STA 0+24.3 AGAVE BPL STA 0+00 B.O.L. N02°14'23'W 187.03 FT 200.05 NO0-33 BRAINARD 12M 2 (TIE) 550'26'19"W 1809.32 FT 1 1 13 18 1/2° P S89'27'38"W S89*27'38"W 2692.32 FT 2692.32 FT SEE NEXT SHEET (2-6) FOR DESCRIPTION 1000 SURVEYOR CERTIFICATE Scale: 1 = 1000 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 HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, 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. **GENERAL NOTES** 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD. 2.) BASIS OF BEARING AND DISTANCE IS NMSP NEW MEXICO. THIS EAST (NAD83) MODIFIED TO SURFACE AMADRON SURVEYING, INC COORDINATES. NAD 83 (FEET) AND NAVD 88 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 (FEET) COORDINATE SYSTEMS USED IN THE **SURVÉY.** SURVEY NO. 5291 SHEET: 1-6 (INC. (575) TO CARLSBAD, MADRON SURVEYING, NEW MEXICO

FLOWLINE PLAT

TWO 3" POLY SURFACE LINES (1-GAS & 1-PRODUCTION) FROM THE BRAINARD 12M 2 TO THE BRAINARD GAS COM 2 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 6, 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 \$50°26'19"W, A DISTANCE OF 1809.32 FEET:

THENCE N89'55'01"E A DISTANCE OF 37.31 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N02'14'23"W A DISTANCE OF 187.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00'00'58"W A DISTANCE OF 300.08 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N01'46'37"W A DISTANCE OF 2507.45 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N83'05'53"W A DISTANCE OF 159.11 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89'58'30"W A DISTANCE OF 264.94 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89'58'30"W A DISTANCE OF 264.94 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE 369 36 30 W A DISTANCE OF 264-34 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N89:35'04"W A DISTANCE OF 560.60 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS NOO'33'19"E, A DISTANCE OF 1307.49 FEET;

SAID STRIP OF LAND BEING 4386.25 FEET OR 265.84 RODS IN LENGTH, CONTAINING 3.021 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

13.46 RODS 0.153 ACRES 222.06 L.F. 1323.88 L.F. NE/4 SW/4 80.24 RODS 0.912 ACRES SE/4 NW/4 741.74 L.F. 44.95 RODS 0.511 ACRES SW/4 NW/4 582.29 L.F. 35.29 RODS 0.401 ACRES NW/4 NW/4 1516.28 LF. 91.90 RODS 1.044 ACRES

SURVEYOR CERTIFICATE

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: 2-6

MADRON SURVEYING

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT LINEY-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 WITHERS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 100 DAY OF JULY 2017

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

SURVEY NO. 5291

INC. (575) 234/334 CARLSBAD, NEW MEXICO

FLOWLINE PLAT TWO 3" POLY SURFACE LINES (1-GAS & 1-PRODUCTION) FROM THE BRAINARD 12M 2 TO THE BRAINARD GAS COM 2 BATTERY LIME ROCK RESOURCES II-A, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO JULY 6, 2017 3 S89'41'09"E 2653.26 FT S89'41'09"E 2653.26 FT 10 11 (TE) N44'02'49"É 1493.84 FT (TIE) 1307.49 FT N89'41'16"W BRAINARD, GAS COM 2 BATTERY SEC 11 T.18S. R.26E FEE**EE EE** 10 | 11 1/2" IRON ROD N89'39'50"W 2636.00 FT N89'39'50"W 2636.00 FT SEE NEXT SHEET (4-6) FOR DESCRIPTION 1000 1000 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 MEW MEXICO. GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. IN WITHERS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NADB3) MODIFIED TO SURFACE MON SURVEYING, INC COORDINATES. NAD 83 (FEET) AND NAVD 88 01 SOUTH CANAL AR SBAD, NEW MEXICO 88220 hone (575) 234-3341 (FEET) COORDINATE SYSTEMS USED IN THE **SURVÉY.** SHEET: 3-6 SURVEY NO. 5291 GARLSBAD. INC*MADRON SURVEYING NEW MEXICO*

FLOWLINE PLAT

TWO 3" POLY SURFACE LINES (1-GAS & 1-PRODUCTION) FROM THE BRAINARD 12M 2 TO THE BRAINARD CAS COM 2 BATTERY

LIME ROCK RESOURCES II-A, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO JULY 6, 2017

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 11, 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 NE/4 OF SAID SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS NO0'33'19"E, A DISTANCE OF 1307.49 FEET:

THENCE N89'35'04'W A DISTANCE OF 1022.10 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NOO'25'23"E A DISTANCE OF 226.27 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N89'41'16"W A DISTANCE OF 5.51 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N44'02'49"E, A DISTANCE OF 1493.84 FEET;

SAID STRIP OF LAND BEING 1253.88 FEET OR 75.99 RODS IN LENGTH, CONTAINING 0.864 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NE/4 1253.88 L.F. 75.99 RODS 0.864 ACRES

SURVEYOR CERTIFICATE

CENERAL 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 SURVÉY.

SHEET: 4-6

MADRON SURVEYING

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 THIS STATE OF NEW MEXICO.

THIS CERTIFICATE IS EXECUTED AT CARLSBAD, IN WITNESS WHEREOF

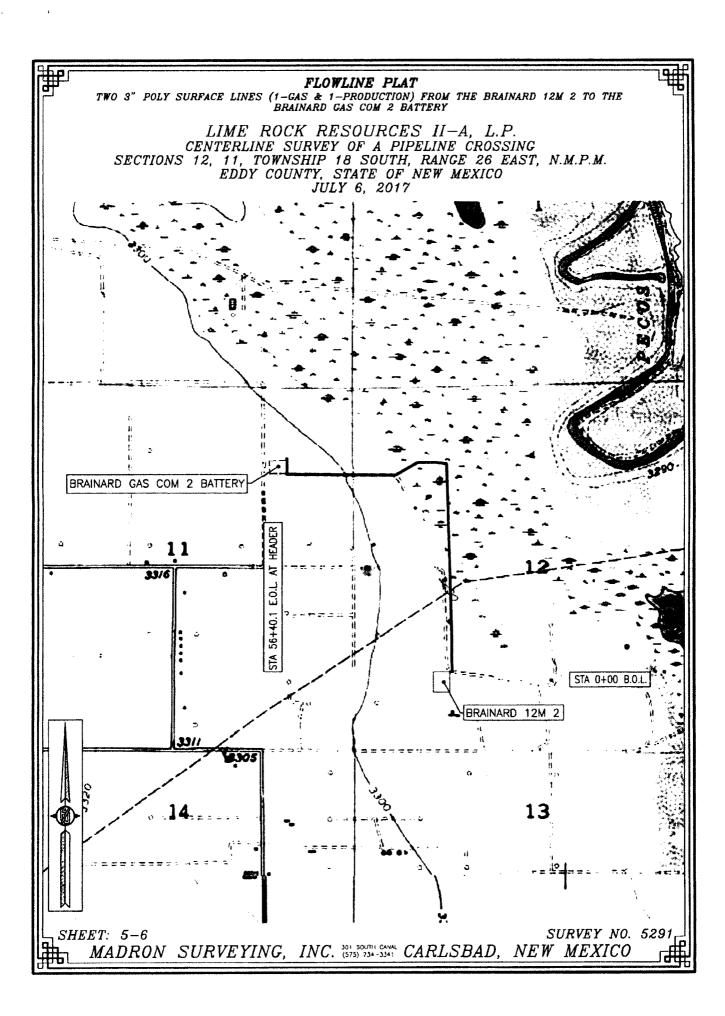
DAY DE WHEY 2017 NEW MEXICO/ THIS

GRON SURVEYING, INC. 101 SOUTH CANAL PARLSBAR, NEW MEXICO 88220

none (575) 234-3341

SURVEY NO. 5291

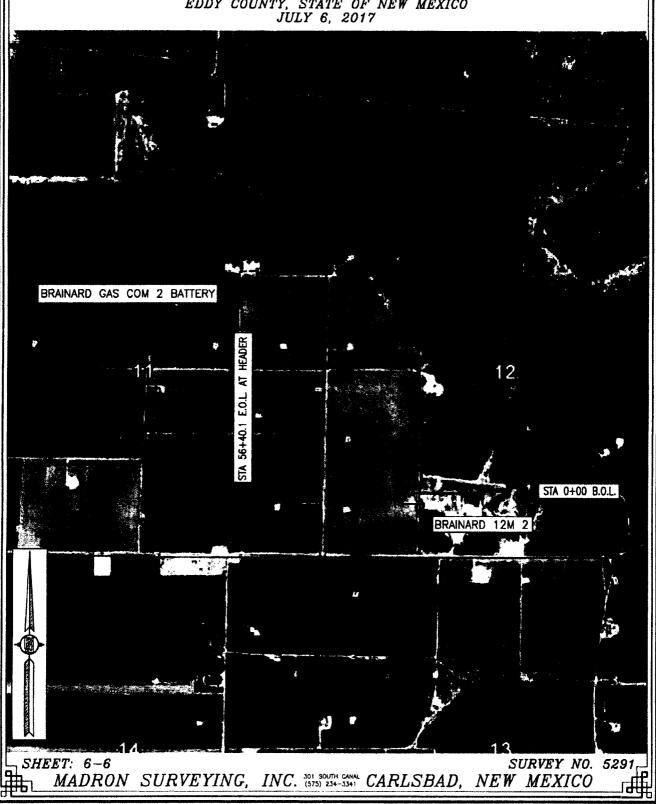
CARLSBAD *NEW MEXICO*



FLOWLINE PLAT

TWO 3" POLY SURFACE LINES (1-GAS & 1-PRODUCTION) FROM THE BRAINARD 12M 2 TO THE BRAINARD GAS COM 2 BATTERY

LIME ROCK RESOURCES II-A, L.P.
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTIONS 12, 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JULY 6, 2017



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

Brainard 12M #2 990' FSL 1295' FWL (M) 12-18S-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 Alluviu
- 3. A rotary rig will be utilized to drill the well to 4600' and run casing. This equipment will be rigge down and the well will be completed with a workover rig
- 4. Well will be drilled to a total proposed depth of 4600' MD.
- 5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates		NA
7 Rivers		NA
Queen		316
Grayburg		742
Premier		938
San Andres		992
Glorieta		2325
Yeso		2410
Tubb		3838
TD		4600

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		316
Grayburg		742
Premier		938
San Andres		992
Glorieta		2325
Yeso		2410
Tubb		3838
TD		4600

7. Proposed Casing and Cement program is as follows

Туре	Hole	Casing	Wt	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	В	Welded	80	80			Ready Mix
Surface	11"	8-5/8"	24	J-55	ST&C	1230	450	14 8	1 35	CLC Cmt + 0.25 ihs/sk Celio Flake + 2% CaCl2
Intermediate										
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4600	300	12.8	1 903	(35.65; Poz/CLC Cmt + 5% NaCl + 0.25 lbs/sk Ceto Flake + 5 lbs/sk LCM-1 +0.2% R-3 +6% Get
							600	14.8	1 33	Critiw/ 6.6% Ros, 9.125% Celio Hake 1% Get

8. Proposed Mud Program is as follows

Depth	0-1230	1230-4450	4450-4600	
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	
pН	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 4600 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 H2S in this H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. personnel will be familiar with all aspects of safe operation of equipment being used to drill this well Estimated BHP 2024 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 it complet 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 H2S service.
- b. All elastomers used for packing and seals shall be H2S 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

Company Offices Lime Rock Houston Office

Answering Service (After Hours)

Artesia, NM Office

Roswell, NM

713-292-9510

713-292-9555

575-748-9724

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 McCelland	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 Oilfirld 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	Alburquerque	505-842-4433	Same				
Artesia General Hospital	Emergency Medical Care	Artesia	575-748-3333	702 North 13th Street				

Pressure Control

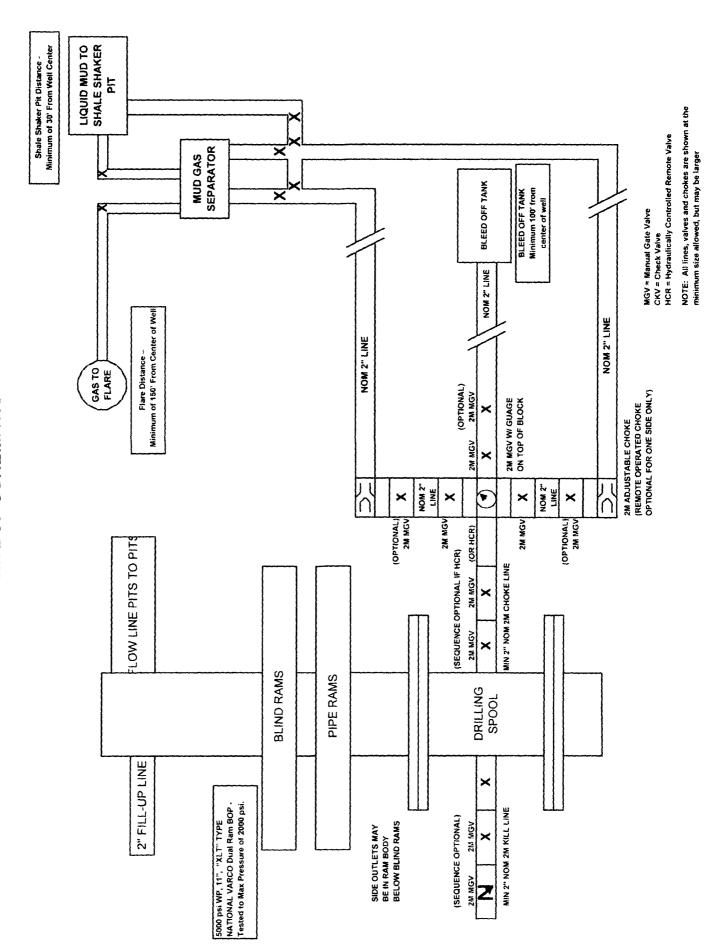
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams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



Lime Rock Resources II-A, L.P.

Brainard 12M #2

Unit M, S12-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 Recollect). The disposal site permit is DFP = #R916

2- (250 bbl) tanks to hold fluid 2-CRI bins with track system

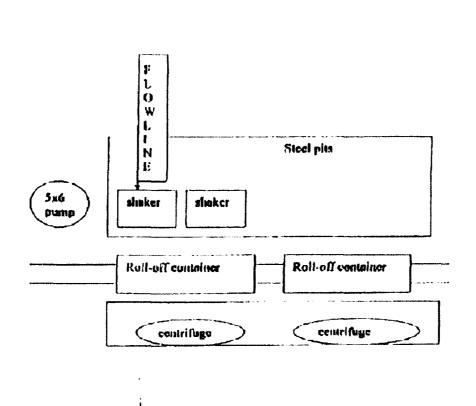
2-500 bbl frac tanks with fresh water 2-500 bbl frac tanks for brine water

Operations:

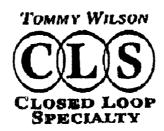
Closed Loop System equipment will be inspected daily by each tour and any necessary maintenance perfor leak in system will be repaired and/or contained immediately. OCD will be notified within 48 hours of ar Remediation process will start immediately.

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.



Office: 575,746,1689

Calls \$78,748,4367