1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S First S₃, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District Jil 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S St Francis Dr., Santa Fc, NM 87505

District JV

EnergyMinerals and Natural Resources OIL CONSERVATION Revised July 18, 2013

☐ AMENDED Report

Oil Conservation Division 1220 South St. Francis Dr. NOV 07 2018

Santa Fe, NM 87505

RECEIVED

			OR PERMIT	Address			•	OGRID Numb	
		1111 Ba	Lime Rock Resour gby Street, Suite 460	•	77002			API Numbe	سرا در در کار
	perty Code	2287	 	•	nerty Name		1		015- <i>43 443</i> Well No
	ل <u>دوده ا</u>	66101) 		te-Davis 23 State				#4
				⁷ Sur	face Locat	ion			
UL - Lot D	Section 23	Township 18S	Range 27E	Lot Idn	Feel From 570	N/S Line N	Feet From 750	E/W Line	1
		163		Proposed B		<u></u>	130		Eddy
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	23	18S	27E		570	N	750	w	Eddy
				9 Poo	l Informat	tion		e r resea de se.	
Volfcamp/Cisc	o								97967
				Additional		rmation			
Work			Well Type S	"C	able/Rotary R		Lease Type S	<u> </u>	Ground Level Elevation
	tiple		" Propused Depth		Formation	- 	Contractor	 	3459 5 Spud Date
N Depth to Groun			00' MD / 8700' TVD	ABO/Wo	olfcamp / Cisco	United	Drilling, Inc.	-corect cur	After 1/1/2019
		40	Ft Distance 1	Ulli nonest nos	ALC: WEIL.	1501 M	iles	Hearest sur	face water: 92 4 Miles
X We will I	oc using a cl	losed-loop s	ystem in lieu of lined	pits					
			¹⁹ Pr	oposed Casi	ing and Ce	ment Progi	am		
Туре	Hole	Size	Casing Size	Casing Weight/		tting Depth	Sacks of Cer	ment	Estimated TOC
Conductor	26		20"	91 5		40	40		Surface
Surface	17-	1/2	13-3/8	48		300	350		Surface
Intermediate	12-	1/4	9-5/8"	36		2800	845		Surface
Production	8 3.	/4"	T^{*}	26		7530	1250		Surface
			Casing/	Cement Pro	gram: Add	litional Co	mments		-
				8 3/4" Op	en Hole 7530	' - 8700'	· · · · · · · · · · · · · · · · · · ·		
			Pro	osed Blowo	ut Preventi	i on P rogra	n		
	Type		Wor	king Pressure		Test Pressu	re		Manufacturer
	XLT 11"			5000		2000		1	National Varco
	*								
hereby certify t f my knowledge		nation given	above is true and com	plete to the best		OII CC	NSERVATION	או או	/ISION
		complied w	ith 19.15.14.9 (A) NA	IAC and/o	r	OIL CC		יום אוט	VISION
9.15.14.9 (B) N	MAC 0, if :	ipplicable.	X		Approved	By:	···		
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ignature.	pa!	gel.	may			mond	m. Toda	my	
Printed Name:	Eric McCli	usky	/		Title:	reolog:	3t.		
Title: Operation	ns Enginee	r			Approved I	Date: 1-1-15	Expir	ation Date:	11-15-20
-mail Address	emcclusi	kv@limerov	ckresources com			11 10	, ,		,, ,,
	 	кушинско	1	. 			4.0	0	1 0 1000
Date: 11/6/20	8		Phone: 713-360-5	714	Conditions	s of Approval Att	ached /	nde	d C 108.

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

Revised August 1, 2011

NOV 07 2018 State of New Mexico Energy, Minerals & Natural Resources Department RECEIVED ---Dan all 101 A. Gust 80 J. Acto M. NAC 92 J. P. Grei (372) 748 (12. 7. 244 (1375) 748 572 Turkeye (37 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. in a bar bit blade jidt, etet Santa Fe, NM 87505 Die JUN 1220 S. St. France Hell, Santa Fel XM 8750 :

District Office AMENDED REPORT Phone (595) 476-3460 Fax: (505) 475-3461 WELL LOCATION AND ACREAGE DEDICATION PLAT 30-019 wolf camp Well Number Property Code Property Name **CHOATE DAVIS 23 STATE** 4 * Operator Name * Elevation OGRID No. 3459.5 LIME ROCK RESOURCES II-A, L.P. 277558 Surface Location East/West line County Feet from the North/South line UL or lot no. Section Township Range Lot Idn Feet from the **EDDY** 750 WEST 570 NORTH D 23 18 S 27 E "Bottom Hole Location If Different From Surface East/West line County Lot fun Feet from the North/South line Feet from the UL or lot no. Section Township Range 6 Order No. 14 Consolidation Code 11 Dedicated Acres ¹³ Joint or Infill

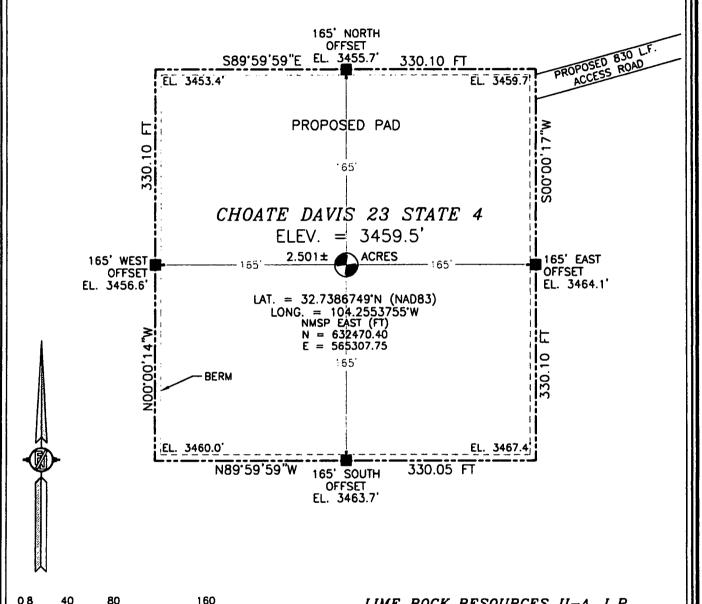
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

\$ ceo;20's	1°F 2647 (C FT S89'29'43'	E 2643.22 FT	OPERATOR CERTIFICATION
1 303 23 3	N /4 CORNER GEC 23	NE COPNER SEC. 23	Producing such effects, accountered intervals explain to
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With Control and and		E/4 DORNER SEC. 23	E mail Address
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WSP EAST (F)		104 040639374 1059 EAST (FILE	CVIDIUS CERTIFICATION
N = 630426.60 F = 564587.05		12 = 630367.14	"SURVEYOR CERTIFICATION
= 3/250		T 57484 87	I hereby certify that the well location thown on this plat was
<u> </u>	THE COURT OF THE COURT OF COCCESSIONS AND THE	L	planed from field noies of actual surveys made by me or under
4 5 F	MOTE: LATITUDE AME LONGITUDE COORDINATES ARE SHOWN USING THE MORTH AMERICAN DATUM OF 188	E 55	my supervision, and that the same is true and correct to the
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N = 627776.53	S, 4 CORNER SEC 1/3	NMSP EAST (FT) / N = 607733.49 /	
£ • 564569.77	SCALED	E = 569843.52	Centionae Spiniser ALIBRAN L. DAR NAM LO. PLS 12797
NB9131145"W	2637.65 FT N89'31'45"	w 2637.65 FT	SURVEY NO 6577

Rw /1-15-18

SECTION 23, 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.



SCALE 1" = 80'
DIRECTIONS TO LOCATION
FROM CR. 206 (ILLINOIS CAMP) & CR. 234 (OIL
CENTER), GO NORTH ON CR. 206 0.7 MILE, TURN
LEFT ON CALICHE ROAD AND GO WEST 2.1 MILES,
TURN RIGHT AND GO NORTH 0.52 MILE, TURN
LEFT AND GO SOUTHWEST 0.31 MILE, STAY RIGHT
AND GO WEST-NORTHWEST 0.44 MILE, TURN LEFT
AND GO SOUTH 0.44 MILE, TO ROAD SURVEY AND

FOLLOW FLAGS WEST-SOUTHWEST 830' TO THE

NORTHEAST PAD CORNER FOR THIS LOCATION.

LIME ROCK RESOURCES II-A, L.P.
CHOATE DAVIS 23 STATE 4

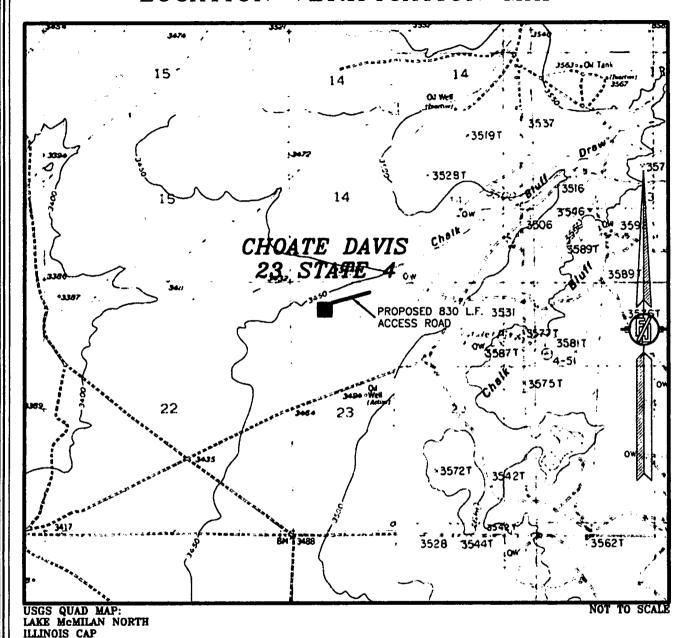
LOCATED 570 FT. FROM THE NORTH LINE
AND 750 FT. FROM THE WEST LINE OF
SECTION 23, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 2, 2018

SURVEY NO. 6577

MADRON SURVEYING, INC. (575) 234-334: CARLSBAD, NEW MEXICO

SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



LIME ROCK RESOURCES II—A, L.P.

CHOATE DAVIS 23 STATE 4

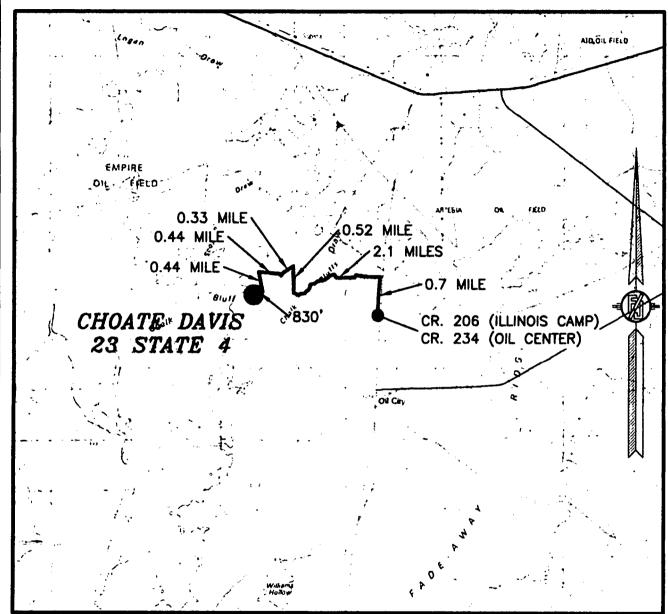
LOCATED 570 FT. FROM THE NORTH LINE
AND 750 FT. FROM THE WEST LINE OF
SECTION 23, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 2, 2018

SURVEY NO. 6577 JFW MFXICO —

MADRON SURVEYING, INC. STST 214-334" CARLSBAD, NEW MEXICO

SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 (ILLINOIS CAMP) & CR. 234 (OIL CENTER), GO NORTH ON CR. 206 0.7 MILE, TURN LEFT ON CALICHE ROAD AND GO WEST 2.1 MILES, TURN RIGHT AND GO NORTH 0.52 MILE, TURN LEFT AND GO SOUTHWEST 0.31 MILE, STAY RIGHT AND GO WEST-NORTHWEST 0.44 MILE, TURN LEFT AND GO SOUTH 0.44 MILE, TO ROAD SURVEY AND FOLLOW FLAGS WEST-SOUTHWEST 830' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

LIME ROCK RESOURCES II—A, L.P.
CHOATE DAVIS 23 STATE 4

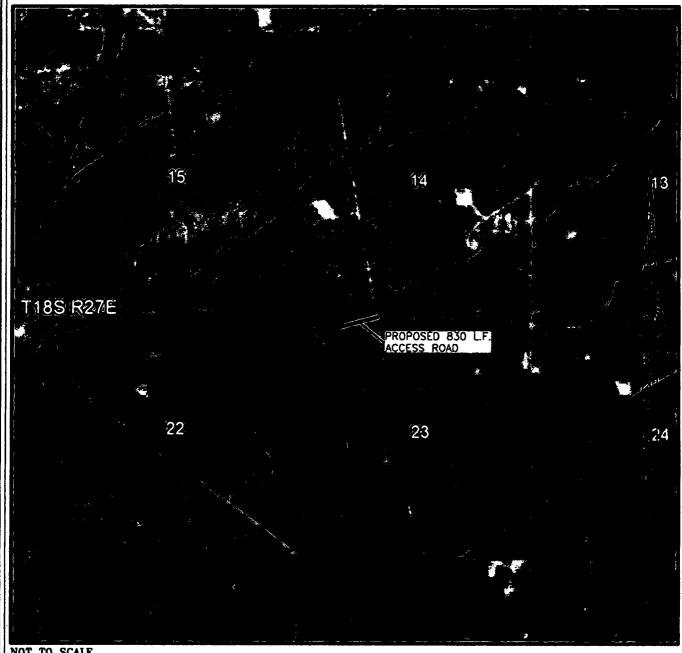
LOCATED 570 FT. FROM THE NORTH LINE
AND 750 FT. FROM THE WEST LINE OF
SECTION 23, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 2, 2018

SURVEY NO. 6577

MADRON SURVEYING, INC. 575 SA-584 CARLSBAD, NEW MEXICO

SECTION 23, 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 MAR. 2016

LIME ROCK RESOURCES II—A, L.P.

CHOATE DAVIS 23 STATE 4

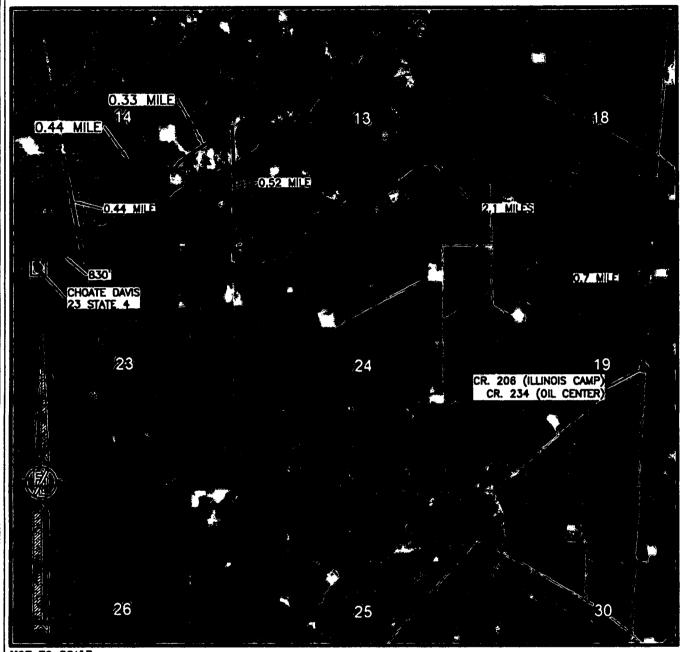
LOCATED 570 FT. FROM THE NORTH LINE
AND 750 FT. FROM THE WEST LINE OF
SECTION 23, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 2, 2018

SURVEY NO. 6577

MADRON SURVEYING, INC. Signific CARLSBAD, NEW MEXICO

SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH MAR. 2016

LIME ROCK RESOURCES II—A, L.P.

CHOATE DAVIS 23 STATE 4

LOCATED 570 FT. FROM THE NORTH LINE
AND 750 FT. FROM THE WEST LINE OF
SECTION 23, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 2, 2018

SURVEY NO. 6577

MADRON SURVEYING, INC. Str. STATE CARLSBAD, NEW MEXICO

FOUR-4" SDR 7 POLY SURFACE PRODUCED WATERLINES FROM CHOATE DAVIS 23 STATE 4 TO CHOATE DAVIS 14 STATE SWD 1

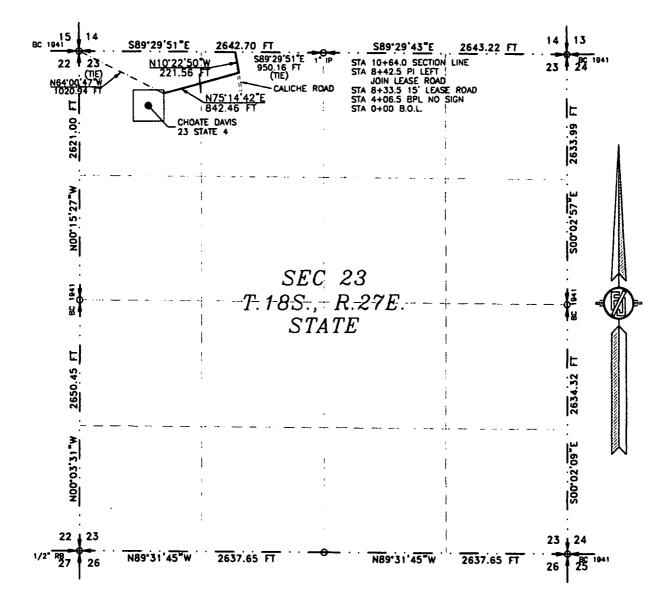
LIME ROCK RESOURCES II-A, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING

SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 18, 2018



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

SHEET: 1-6

MADRON SURVEYING,

SURVEYOR CERTIFICATE

INC. (575) 734-331 CARLSBAD,

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.

W WITHERS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD.

NEW MEXICO, THIS DAY OF OCTOBER 2018

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

Phone (575) 234-3341 SURVEY NO 651

SURVEY NO. 6577

NEW MEXICO

FOUR-4" SDR 7 POLY SURFACE PRODUCED WATERLINES FROM CHOATE DAVIS 23 STATE 4 TO CHOATE DAVIS 14 STATE SWD 1

LIME ROCK RESOURCES II-A, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO OCTOBER 18, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 23, 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 NW/4 NW/4 OF SAID SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N64'00'47"W, A DISTANCE OF 1020.94 FEET;

THENCE N75"14'42"E A DISTANCE OF 842.46 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N10°22'50"W A DISTANCE OF 221.56 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 23, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S89"29"51"E, A DISTANCE OF 950.16 FEET;

SAID STRIP OF LAND BEING 1064.02 FEET OR 64.49 RODS IN LENGTH, CONTAINING 0.733 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 418.12 L.F. 25.34 RODS **0.288 ACRES** NE/4 NW/4 645.90 L.F. 39.15 RODS 0.445 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

FILIMON PO VARAMILLO PLS. *MADRON SURVEYING.*

I, FILIMON E 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/WHEREOE, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

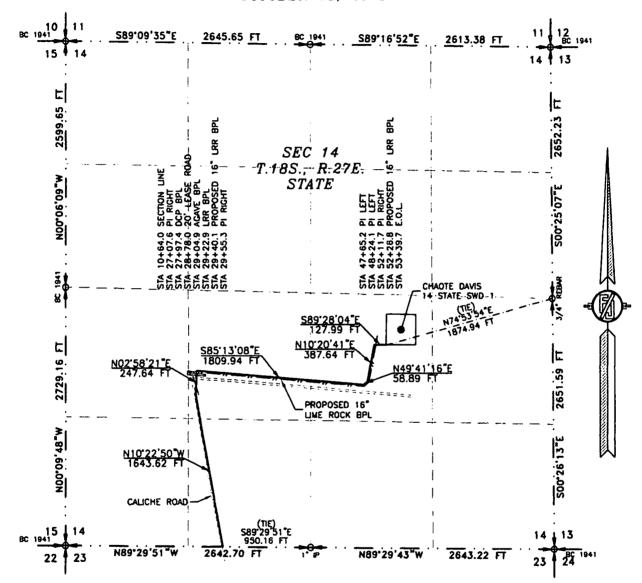
VADRON SURVEYING, INC JOT SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234 3341

SURVEY NO. 6577

INC. (575) 35 CARLSBAD, NEW MEXICO

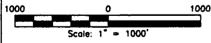
FOUR-4" SDR 7 POLY SURFACE PRODUCED WATERLINES FROM CHOATE DAVIS 23 STATE 4 TO CHOATE DAVIS 14 STATE SWD 1

LIME ROCK RESOURCES II-A, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 14. TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO OCTOBER 18. 2018



SEE NEXT SHEET (4-6) FOR DESCRIPTION

INC/V575



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: 3-6

MADRON SURVEYING.

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.

WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

GARLSBAD.

MADRON SURVEYING, NO 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220

SURVEY NO. 6577

Phone (5/5) 234-3341

NEW MEXICO

FOUR-4" SDR 7 POLY SURFACE PRODUCED WATERLINES FROM CHOATE DAVIS 23 STATE 4 TO CHOATE DAVIS 14 STATE SWD 1

LIME ROCK RESOURCES II-A, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO OCTOBER 18. 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 14, 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 14, TOWNSHIP 18 SOUTH. RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS \$89'29'51"E, A DISTANCE OF 950.16 FEET;

THENCE N10°22'50"W A DISTANCE OF 1643.62 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO2'58'21"E A DISTANCE OF 247.64 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S85"13"08"E A DISTANCE OF 1809.94 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N49'41'16"E A DISTANCE OF 58.89 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N10'20'41"E A DISTANCE OF 387.64 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'28'04"E A DISTANCE OF 127.99 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N74'53'54"E, A DISTANCE OF 1874.94 FEET;

SAID STRIP OF LAND BEING 4275.72 FEET OR 259.13 RODS IN LENGTH, CONTAINING 2.945 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

0.949 ACRES SE/4 SW/4 83.55 RODS 1378.59 L.F. NE/4 SW/4 NW/4 SE/4 1747.19 L.F. 105.89 RODS 1.203 ACRES 1149.94 L.F. 69.69 RODS 0.792 ACRES

SURVEYOR CERTIFICATE

INC. (575) 734-3341

GENERAL NOTES

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

SHEET: 4-6

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 THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

CTOBER 2018 NEW MEXICO, THEST

CARLSBAD

MADEON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220

SURVEY NO. 6577

NEW MEXICO

Phone (575) 234-3341

FOUR-4" SDR 7 POLY SURFACE PRODUCED WATERLINES FROM CHOATE DAVIS 23 STATE 4 TO CHOATE DAVIS 14 STATE SWD 1

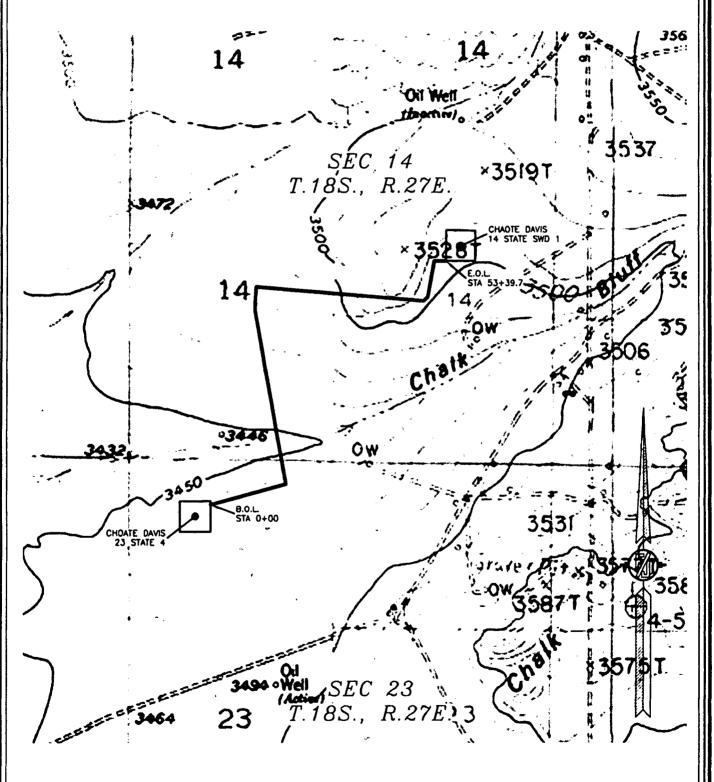
LIME ROCK RESOURCES II-A, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING

SECTIONS 23 & 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 18, 2018



SHEET: 5-6
SURVEY NO. 6577
MADRON SURVEYING, INC. Series CARLSBAD, NEW MEXICO

FOUR-4" SDR 7 POLY SURFACE PRODUCED WATERLINES FROM CHOATE DAVIS 23 STATE 4 TO CHOATE DAVIS 14 STATE SWD 1

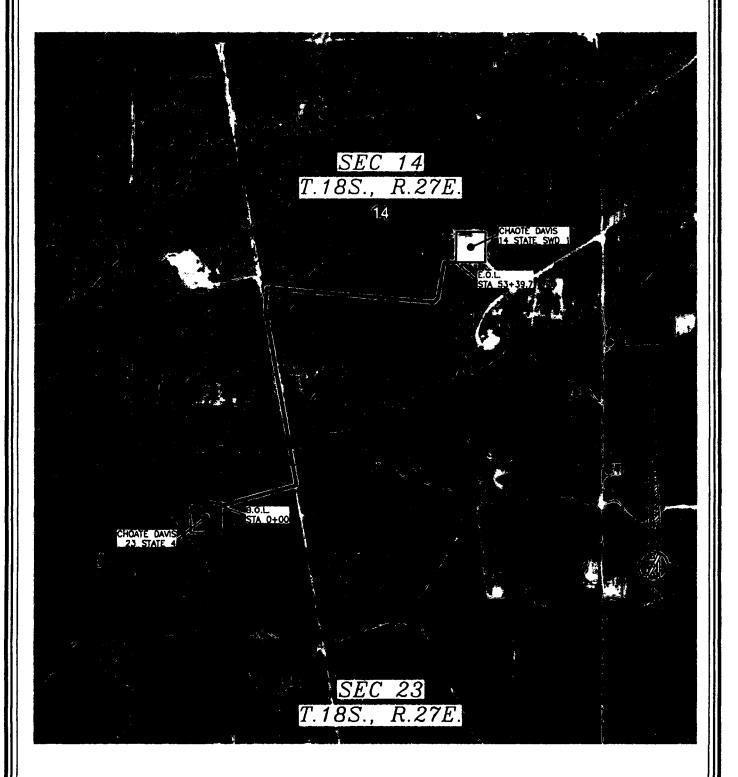
LIME ROCK RESOURCES II-A, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING

SECTIONS 23 & 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 18, 2018



SHEET: 6-6
SURVEY NO. 6577
MADRON SURVEYING, INC. 5570 2544 SAM- CARLSBAD, NEW MEXICO

CHOATE DAVIS 23 STATE SWD #4

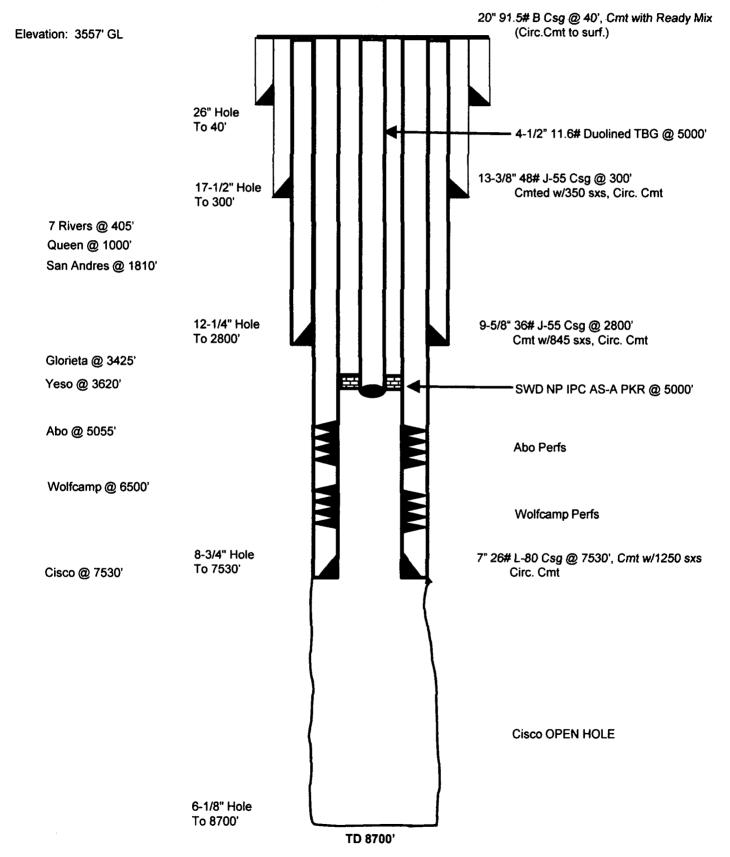
Proposed new SWD Well

Abo, Wolfcamp, & Cisco

(D) Section 23, T-18-S, R-27-E, Eddy County, NM

Today's Date: 10/19/18

Lat N 32.7528547 / Long W 104.2387836



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

Choate-Davis 23 State #4 570' FNL 750' FWL (D) 23-18S-27E Eddy County, NM

- 1. The elevation of the unprepared ground is 3459.5 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 8700'MD,TVD and run casing to 7530'. This equipment will down and the well will be completed with a workover rig.
- 4. Well will be drilled to a total proposed depth of 8700' MD, TVD.
- 5. Estimated tops of geologic markers:

	MD	TVD
Quaternary - Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	405	405
Queen	1000	1000
San Andres	1810	1810
Glorieta	3425	3425
Yeso	3620	3620
Abo	5055	5055
Wolfcamp	6500	6500
Cisco	7530	7530
TD	8700	8700

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	405	405
Queen	1000	1000
San Andres	1810	1810
Glorieta	3425	3425
Yeso	3620	3620
Abo	5055	5055
Wolfcamp	6500	6500
Cisco	7530	7530
TD	8700	8700

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	40	40			Ready Mix
Surface	17-1/2	13-3/8	48	J-55	ST&C	300	350	14.8	1.35	CI C Cmt + 0 25 lbs/sk Cello Ftake + 2% CaCl2
Intermediate	12-1/4	9-5/8"	36	J-55	LT&C	2800	320		1.903	35/65/8 Poz/CI C/Gel w/ 5% Ci, 5 pps LCM-1, 0 3% R-3 and 1/4 pps Cello Flake
							525	14.8	1.33	Ci C w/ 1/4 pps Celio Flake and 0.6% R-3
Production	Production 8-3/4"		26	L-80	LT&C	7530	480	13.2	1.84	(35.65) Poz/Cl C Cmt + 5% NeCl + 0 25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 +0 2% R-3 + 6% Gel
-							770	15.2	1.18	CI H w/ 0 6% R-3, 0 125% Cello Flake, 2% Gel

8. Proposed Mud Program is as follows

Depth	0-300	300-2800	2800-8700		
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		
рН	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 acld 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:

Coring Program: No full or sidewall cores are anticipated.

11. Potential Hazards:

No abnormal temperatures or pressures are expected. There is known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 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 15 days. An additional 14 days will be needed it complete the 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				
Carisbad	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 281-931-8884			
Boots & Coots International Well Control	Well Control	Houston / Odessa	1-800-256-9688				
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 -44 1-1370			
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 Equipment

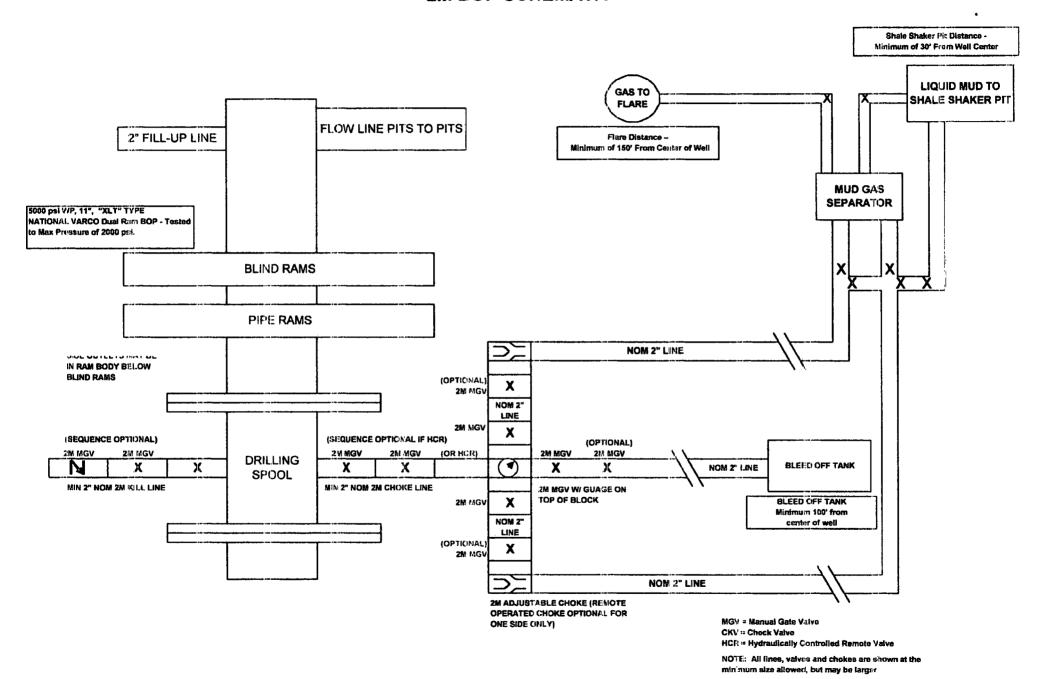
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams on bottom. The 2M BOP will be installed on the 9 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 drilling logs.

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.

Choate-Davis 23 State #4

Unit D, S23-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 attached.

Cuttings and associated liquids will be hauled to a State regulated third party disposal site (CRI or Controlled Recovery, Inc.). The disposal site permit is DFP = #R9166.

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

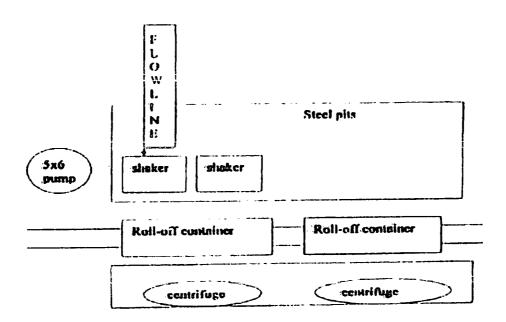
2-500 bbi frac tanks with fresh water 2-500 bbl frac tanks for brine water

Operations:

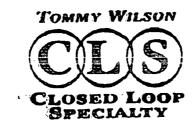
Closed Loop System equipment will be inspected daily by each tour and any necessary maintenance performed. leak in system will be repaired and/or contained immediately. OCD will be notified within 48 hours of any spill. Remediation process will start immediately.

Closure:

During drilling operations all liquids, drilling fluids and cuttings will be hauled off via CRI equipment to DFP #R9166.



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



(Miles: \$19.746.1689

Cem .575.148.6361