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

COMPLET.

State of New Mexico **EnergyMinerals and Natural Resources** 

NM OIL CONSERVATION Form C-101

RECEIVED

ARTESIA DISTRICT Revised July 18, 2013

NOV 07 2018 AMENDED Report

1220 South St. Francis Dr.

Santa Fe, NM 87505

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

**Oil Conservation Division** 

			Operator	Name and Add	ress				OGRID Number 27755			
Lime Rock Resources II-A, L P												
				30-01								
T Pr	operty Code 3	22872			<sup>3</sup> Property Nar				۳w	ell No		
	345992				Choate-Dav	is 13 State				#3		
					<sup>7</sup> Surface	Locatio	n					
UL - Lot	Section	Township	Kango		ot Idn Feet Fr	om N	/S Line	Feet From	E/W Line	County		
D	13	18S	27E		660	)	N	600	W	Eddy		
				<sup>8</sup> Pr	oposed Botto	m Hole I	location					
UL - Loi	Section	lownship	Kange		ot Idn Feet Fr	iam N	//S Line	Feet From	E/W Line	County		
D	13	185	27E		660	)	N	600	W	Eddy		
					9 Pool In	formatio	n					
				•						97967		
Wolfcamp/Cis	sco									9/96/		
					dditional We			Lease Type		Ground Level Elevation		
' Work Type '' Well Type				9	"Cable/Ro	Lary	S			3556.7		
	N		Proposed De	ath	R Permate	0.0	* Contractor		+	<sup>18</sup> Spud Date		
	N	87	00' MD / 870		ABO/Wolfcam		United Drilling, Inc			After 1/1/2019		
Depth to Group					nearest fresh water w	1501 N	Dictance from nearest surface water					
X We will	be using a c	losed loop (	system in lieu	of lined nits	<u> </u>							
A we will	i be using a c	liosed-loop s	system in neu	or miles pro								
				<sup>19</sup> Prop	osed Casing a	and Cem	ent Prog	ram				
Туре	Hole	e Size			Casing Weight/ft		g Depth	Sacks of C	ement	Estimated TOC		
Conductor	r 2	6"	20"		91.5	1	40	40		Surface		
Surface		-1/2	13-3/8		48		800	350		Surface		
Intermediat		-1/4	9-5/8"		36		2800 845			Surface		
Production		3/4"	7"		26			1250		Surface		
11010000	<u> </u>	<u> </u>		sing/Ca	ement Program			mments	<b>.</b>			
		···· ·· =- =-			8 3/4" Open H			mments	<u> </u>			
			<u> </u>	Duent								
				r ropo:	sed Blowout P	reventio	i r rogra	311				

Test Pressure Manufacturer Туре Working Pressure XLT 11\* 5000 2000 National Varco

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC and/or	OIL CONSERVATION DIVISION		
19.15.14.9 (B) NMAC 0, if applicable.	Approved By: Raymond Declary Title: Approved Date: 11-15-18 Expiration Date: 11-15-20		
Printed Name: Eric McClusky	Title: Geologist,		
Title: Operations Engineer	Approved Date: 11-15-18 Expiration Date: 11-15-20		
E-mail Address: emcclusky@limerockresources.com			
Date: 11/5/2018 Phone: 713-360-5714	Conditions of Approval Attached Approvaled C108		

NM OIL CONSERVATION

ARTESIA DISTRICT

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (375) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District II</u> 1000 Rio Bruzes Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

P

State of New Mexico NOV 0 7 2018 Energy, Minerals & Natural Resources Department F OIL CONSERVATION DIVISION RECEIVED 1220 South St. Francis Dr. Santa Fe, NM 87505

RECENTED one copy to appropriate District Office

AMENDED REPORT

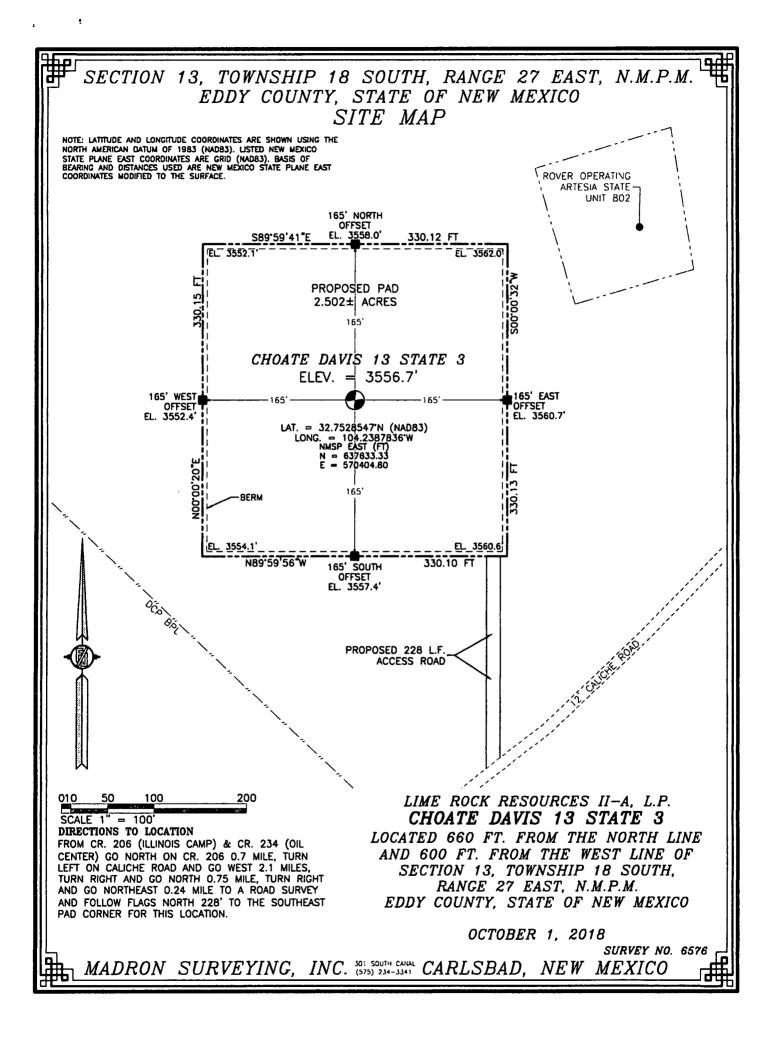
Revised August 1, 2011

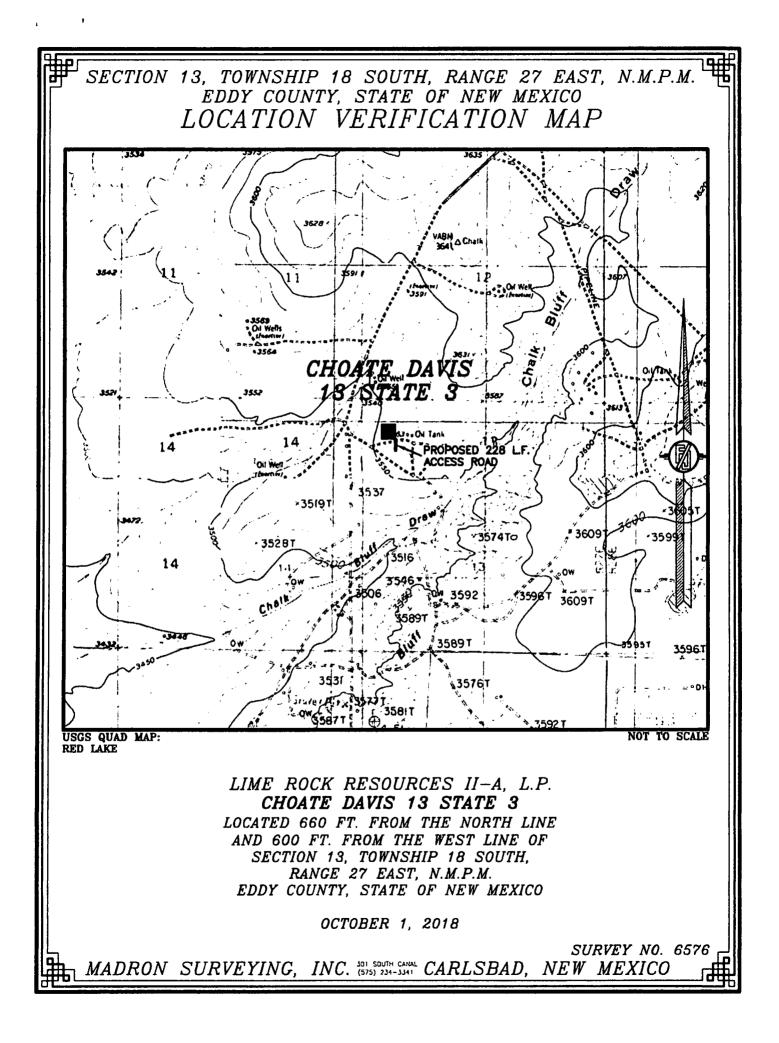
Form C-102

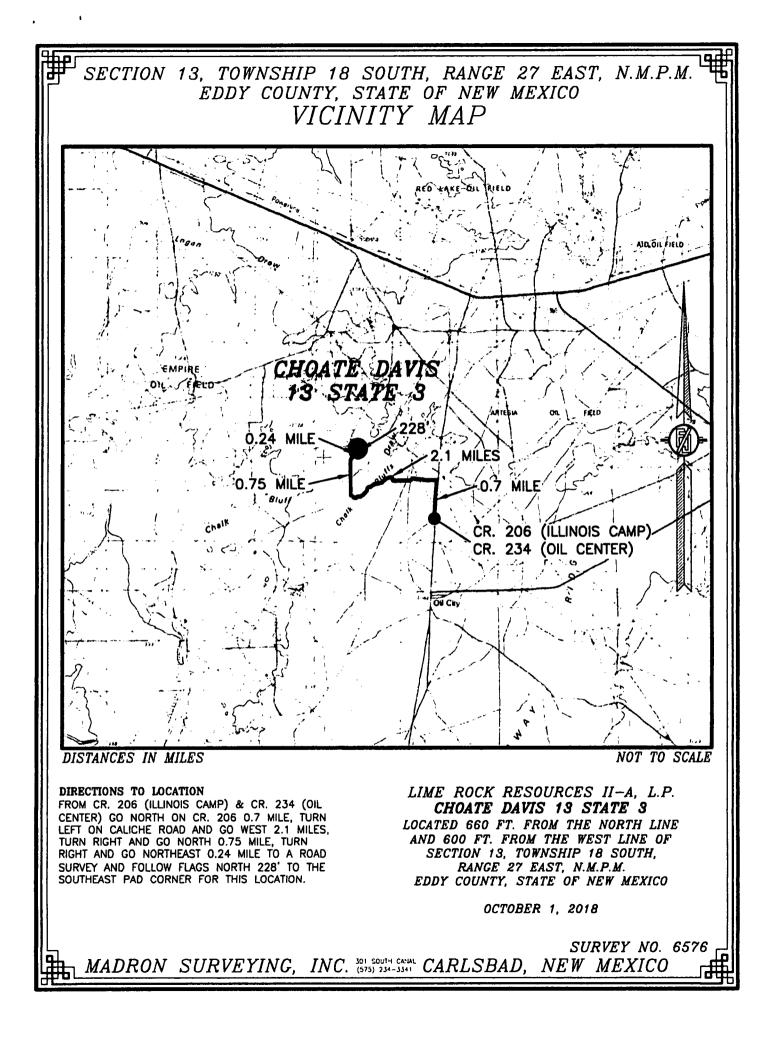
		W	<u>ELL LC</u>	<b>)CATIO</b>	N AND ACE	REAGE DEDI	CATION PL	AT		
30-015-45444 91967 SWD; Abo -Wolf Camp - Cisco										
Property	Code				* Property				<sup>4</sup> Well Number	
34599	£ 323	1873		С	HOATE DAVI	S 13 STATE			3	
'OGRID					<sup>4</sup> Operator	Name			'Elevation	
27755	8			LIME	ROCK RESOU	JRCES II-A, L.I	P.		3556.7	
					Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	13	18 S	27 E		660	NORTH	600	WEST	EDDY	
			" B	ottom H	ole Location	If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acres <sup>12</sup> Joint or Infill <sup>14</sup> Consolidation Code							" Order No.			

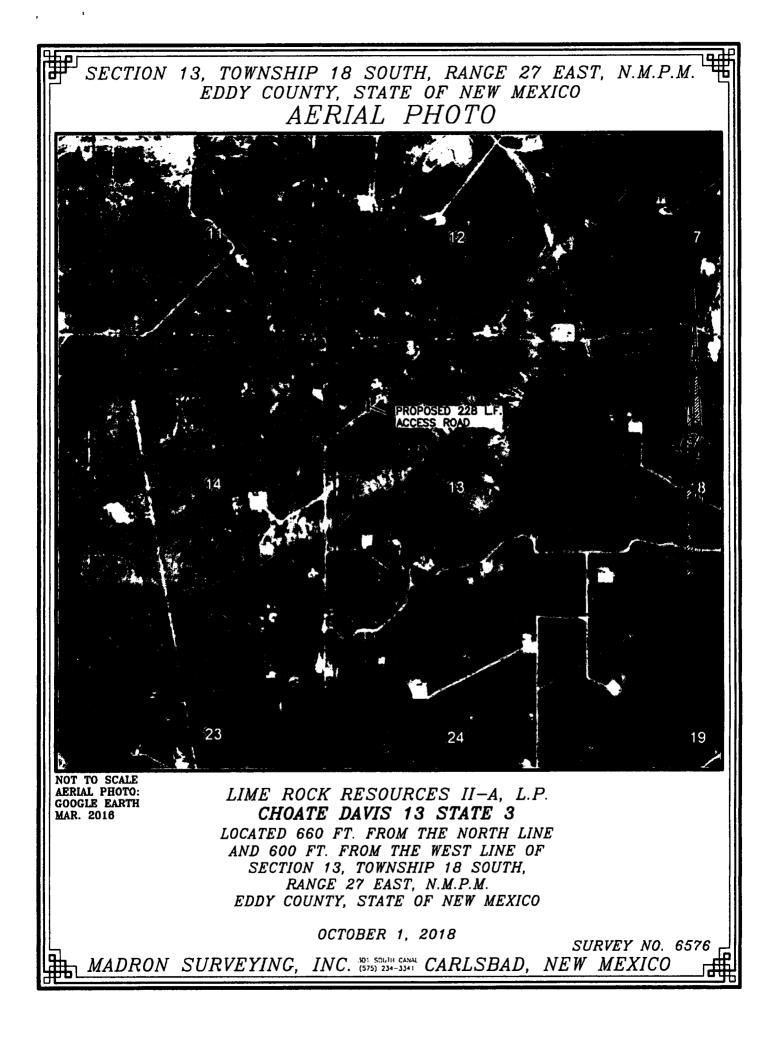
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

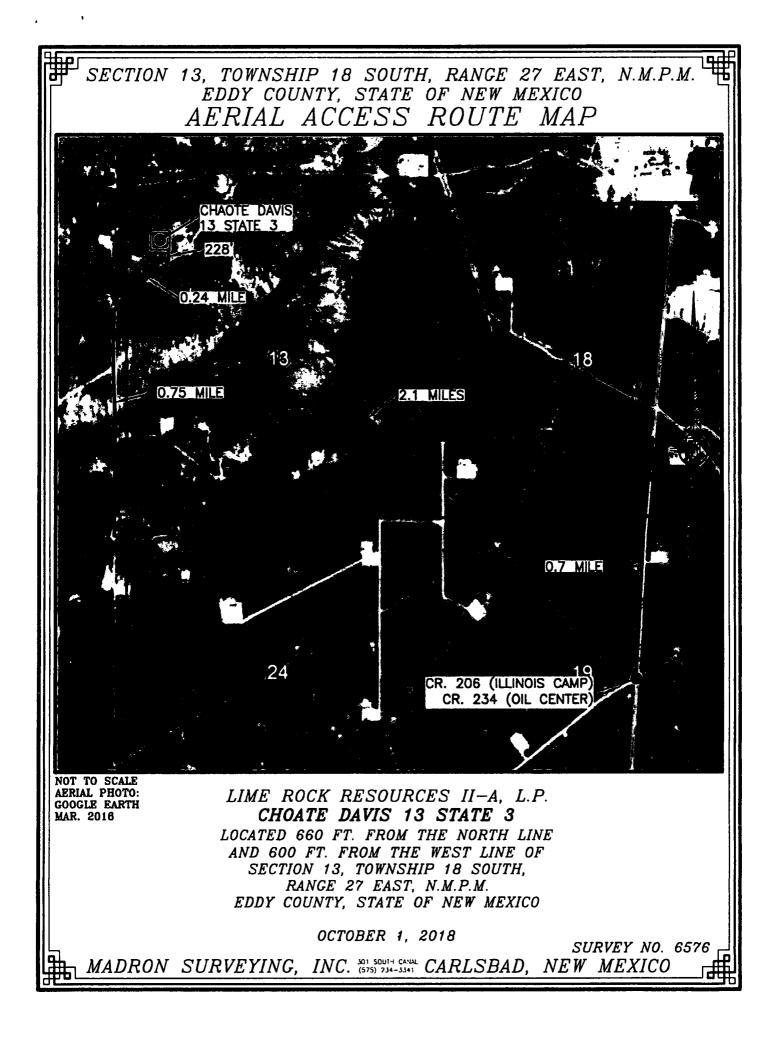
	\$89'05'57"E	2644.96 FT	S89'09'08"E	2644 -			" OPERATOR CERTIFICATION	
	4	N/4 CORNER			CORNER SEC. 13	٦	I beneby certify that the information consulted herein is true and complete to the	
	ò	LAT. = 32175			= 32.7544604'N		best of my knowledge and belief, and that this organization either owns a	
	99	LONG. = 104.		LONG.	= 104.2235488'W		working interest or unitased mineral laterest in the land including the proposed	
	- 600' - SURFAI			,	NMSP EAST (FT)		botime hale location or has a right to drill this well at this location pursuant to	
5	- 000 - 200	E = 5724			N = 638222.04 E = 575087.78		a contract with an owner of such a scineral or working interest, or to a	
2.2	NW CORNER SEC. 13				2 - 575607.70	ទ្រ	volumary pooling agreement or a computerry pooling order heretafore extend	
65;	LAT. = 32.7546961'N	' <i>CHOATE DAVIS 13 51</i>   ELEV. = 3556.7'	ATE J			640.	by the division.	
~	LONG. = 104.2407488W	LAT. = 32,7528547'N	(NAD83)	!		56	Sina clark , Inlia	
2	NMSP EAST (FT)	LONG. = 104.2387836	W			լո	994 . ne ray 11/9/18	
	E = 569800.03	NMSP EAST (FT)				26	Signature Date	
22		E = 570404.80	1			500'03'26"E	Elic 1. An Charley 11/5/18 Signame Eric Mcllusky	
<u> </u>			1			8	Printed Name	
		!				٣ I	Emallusky (merocharson Cos,	
	W/4 CORNER SEC. 13			E /4	CORNER SEC. 13			rom
	LAT. = 32.7474080'N LONG. = 104.2406934'W	1			= 32.7472044'N		E-mail Address	
	NMSP EAST (FT)	┝ <b>╼</b> ╼╼ <u>-</u> +		LONG.	=_10 <u>4.</u> 22 <u>35</u> 4 <u>92</u> .w	-1		
	N = 635651.27	· · ·	i		NMSP EAST (FT) N = 635582.23		<b>"SURVEYOR CERTIFICATION</b>	
1	E = 569819.40	ł			E = 575030.41		I hereby certify that the well location shown on this plat was	
							plotted from field notes of actual surveys made by me or under	
		NOTE: LATITUDE AND LONGITU	DE COORDINATES ARE					
65		(NAD83). LISTED NEW MEXICO	) STATE PLANE EAST			4	iny supervision, and that the same is true and correct to the	
2651		COORDINATES ARE GRID (NAD AND DISTANCES USED AREI N	183). BASIS OF BEARING EW WEXICO STATE PLANE			5	best of my belief	
i .		EAST COORDINATES MODIFIED				26	OCTOBER 1.2018 JARAMI	
2		· · · · · · · ·		·		≥	Date of Signer A MICAIC	
			ł			6		
2.5			i			[5	1 m h st liber all the	
ğ	SW CORNER SEC. 13	S/4 CORNER		SE	CORNER SEC. 13	ġ		
-	LONG. = 104.2406352'W	LAT. = 32:74 LONG. = 104.2		LAT.	= 32.7399513'N	2	SALLAR AND PROSIDENT SUPPORTS	
	NMSP EAST (FT)	NMSP EAS	1	LUNG.	= 104.2235609'W	{		
•	N = 633000.45	N = 6329	72.18		N = 632943.47		Cenificate Nation - A FURDERN . JARAMILLO. PLS 12797	
	E = 569839.61 NB9'22'59'W	<u>E = 5724</u>			E = 575089.58	1		
	ND3 22 39 W	2023.37 11	NB9'22'24'W	2626.0	भ हा 👘 👘		SURVEY NO. 6576	

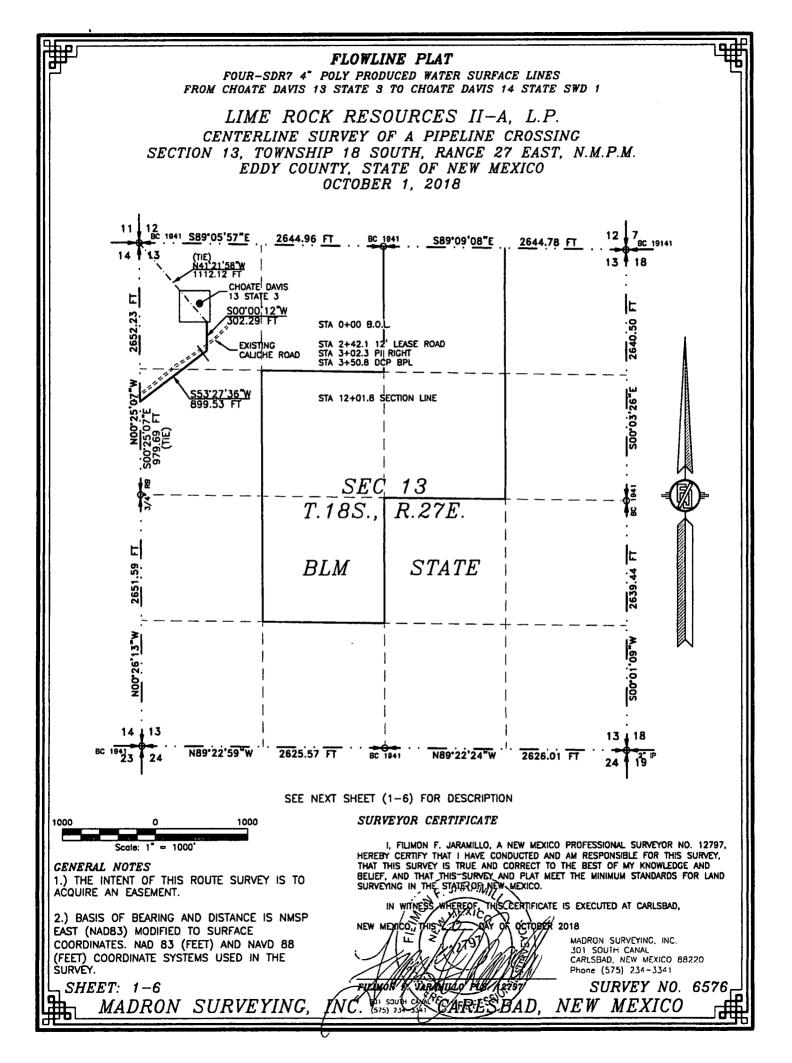












### FLOWLINE PLAT

FOUR-SDR7 4" POLY PRODUCED WATER SURFACE LINES FROM CHOATE DAVIS 13 STATE 3 TO CHOATE DAVIS 14 STATE SWD 1

LIME ROCK RESOURCES II-A, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 13, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO OCTOBER 1, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 13, 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 13, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 13, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N41'21'58"W. A DISTANCE OF 1112.12 FEET; THENCE SOO'00'12"W A DISTANCE OF 302.29 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

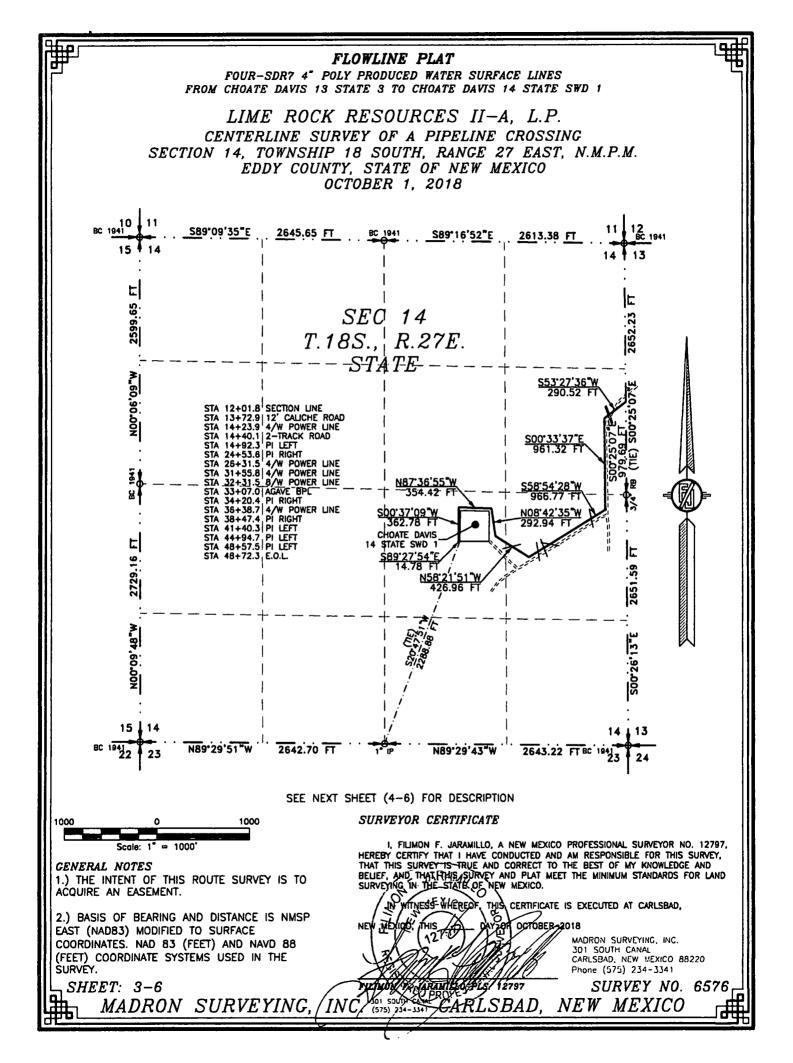
THENCE S00'00'12"W A DISTANCE OF 302.29 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S53'27'36"W A DISTANCE OF 899.53 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S00'25'07"E, A DISTANCE OF 979.69 FEET;

SAID STRIP OF LAND BEING 1201.82 FEET OR 72.84 RODS IN LENGTH, CONTAINING 0.828 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4	630.96 L.F.	38.24 RODS	0.435 ACRES
SW/4 NW/4	570.86 L.F.	34.60 RODS	0.393 ACRES

#### SURVEYOR CERTIFICATE

GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY ACQUIRE AN EASEMENT.	SURVETING IN THE STATE OF THEM THEST OF
2.) BASIS OF BEARING AND DISTANCE IS EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD (FEET) COORDINATE SYSTEMS USED IN TI SURVEY.	NEW MEXICO THIS 4 1-001 OF OCTOBER 2018 MADRON SURVEYING, INC.
SHEET: 2-6	ING, INC. (375) 234-3341 CARLSBAD, NEW MEXICO



### FLOWLINE PLAT

FOUR-SDR7 4" POLY PRODUCED WATER SURFACE LINES FROM CHOATE DAVIS 13 STATE 3 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 1, 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:

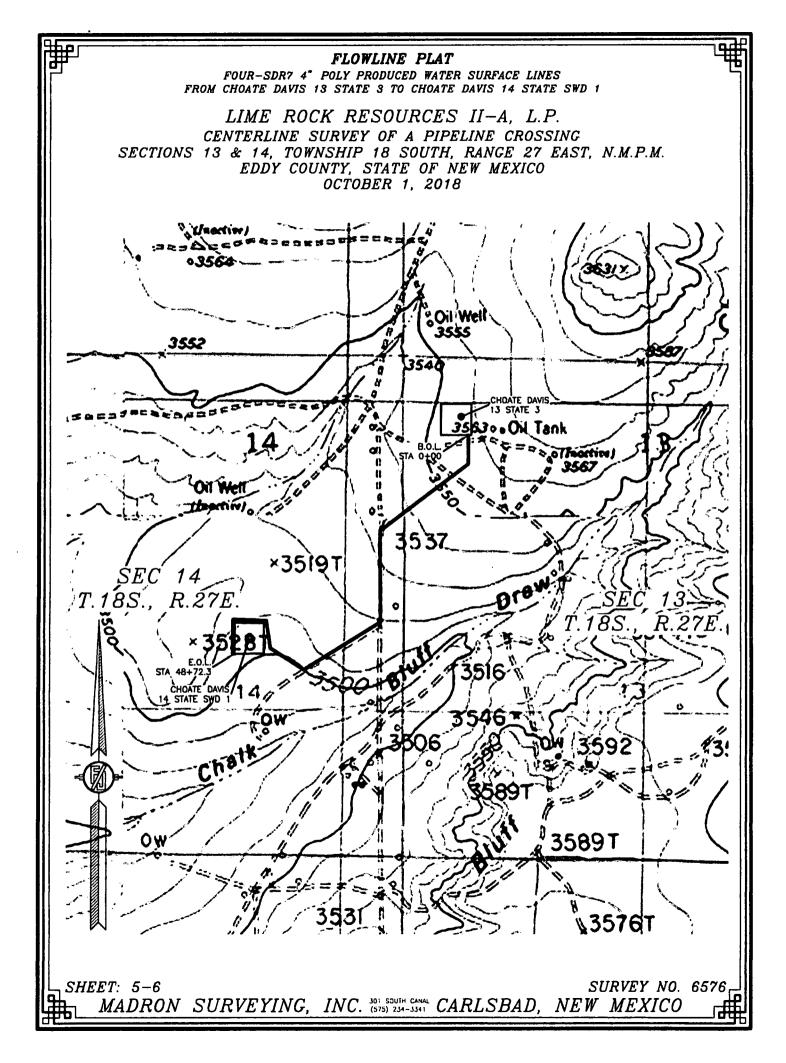
BEGINNING AT A POINT WITHIN THE SE/4 NE/4 OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S00'25'07"E, A DISTANCE OF 979.69 FEET; THENCE S53'27'36"W A DISTANCE OF 290.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S00'33'37"E A DISTANCE OF 961.32 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S58'54'28"W A DISTANCE OF 966.77 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N58'21'51"W A DISTANCE OF 426.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N08'42'35"W A DISTANCE OF 292.94 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N87'36'55"W A DISTANCE OF 354.42 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S00'37'09"W A DISTANCE OF 362.78 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'27'54"E A DISTANCE OF 14.78 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'27'54"E A DISTANCE OF 14.78 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S20'47'51"W, A DISTANCE OF 2288.88 FEET;

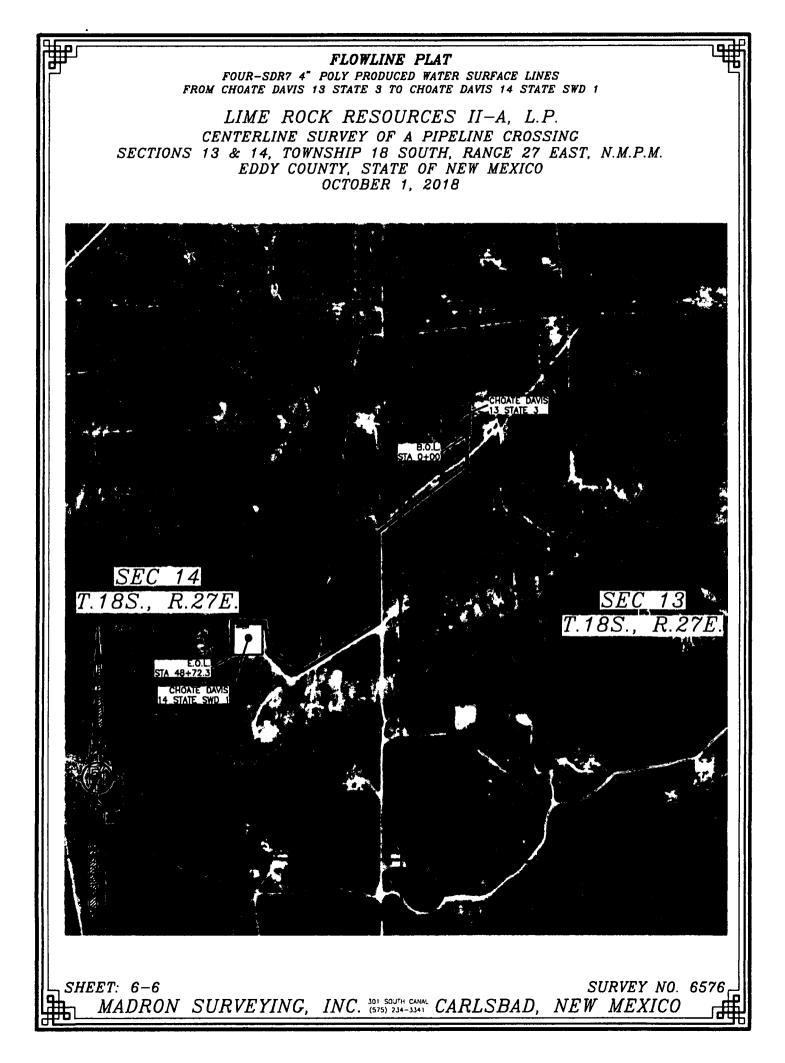
SAID STRIP OF LAND BEING 3670.51 FEET OR 222.46 RODS IN LENGTH, CONTAINING 2.528 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 NE/4	1091.77 L.F.	66.17 RODS	0.752 ACRES
NE/4 SE/4	1423.08 L.F.	86.25 RODS	0.980 ACRES
NW/4 SE/4	1155.66 L.F.	70.04 RODS	0.796 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 GENERAL NOTES BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE DEALEW MEXICO. IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. (IS-SELA 2.) BASIS OF BEARING AND DISTANCE IS NMSP 60. OCTOBER 26/18 NEW MEX COP EAST (NAD83) MODIFIED TO SURFACE MADRON SURVEYING. INC. COORDINATES. NAD 83 (FEET) AND NAVD 88 301 SOUTH CANAL (FEET) COORDINATE SYSTEMS USED IN THE CARLSBAD, NEW MEXICO 88220 SURVEY. Phone (575) 234-3341 SHEET: 4-6 SURVEY NO. 6576 (JATA) SOUTH CA INØ ARI NEW MEXICO MADRON SURVEYING BAD (575) 234-334





### CHOATE DAVIS 13 STATE SWD #3

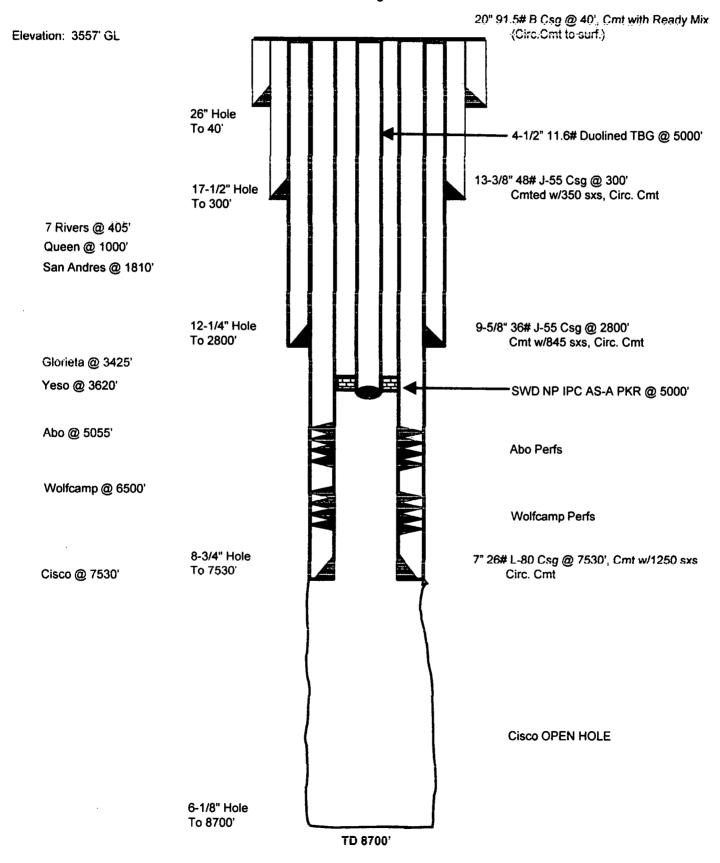
### Proposed new SWD Well

#### Abo, Wolfcamp, & Cisco

(D) Section 13, T-#8-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 13 State #3 660' FNL 600' FWL (D) 13-18S-27E Eddy County, NM

- 1. The elevation of the unprepared ground is 3556.7 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	Weided	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 ibs/sk Cello Flake + 2% CaCl2
Intermediate	12-1/4	9-5/8"	36	J-55	LT&C	2800	320		1.903,	35/65/6 Poz/CI C/GeI w/ 5% CI, 5 pps LCM-1, 0.3% R-3 and 1/4 pps Cello Fiake
							525	14.8	1.33	CI C w/ 1/4 pps Cello Flake and 0 6% R-3
Production	8-3/4"	7	26	L-80	LT&C	7530	480	13.2	1.84	(35:65) Poz/CI C Cmt + 5% NaCl + 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, Sait 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: 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	713-292-9510 713-292-9555 575-748-9724
	Roswell, NM	575-623-8424

### **KEY PERSONNEL**

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	City Agency or Office				
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				
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 Equipment**

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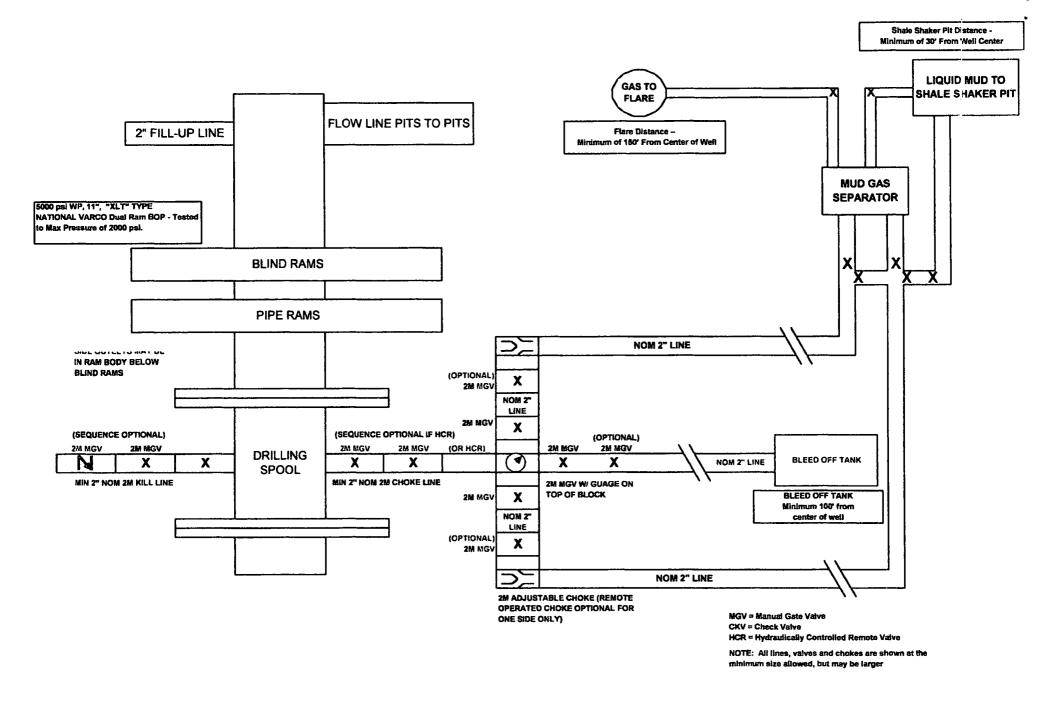
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams 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 13 State #3

# Unit D, S13-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 bbl frac tanks with fresh water 2-500 bbl frac tanks for brine water

### **Operations:**

Closed Loop System equipment will be inspected daily by each tour and any necessary maintenance performed. 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.

