Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos 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 APPLICATION FOR PERMIT ¹ Obserator Name and Constant Co			T TO and Address	EnergyMinerals Oil Conse 1220 Sout Santa DRILL, RE ess -A, L.P. uston, Texas 77002 ³ Property Nar Terry	ervation Div th St. Franc Fe, NM 875 -ENTER, -ENTER, 14E	al Resourc NM vision is Dr. 05	ARTESIA DIS AUG 6 RECEIV N, PLUGBA	TRICT 2015 ED CK, O 20GRID Numb 277 3API Number	R ADD A ZONE	
UL-Lot I	Section	Township	Range		Surface	Location	S Line	Feet From	E/W Line	County
E	14	18S	27626	$\mathcal{E}^{}$	251		N ·	605	W	Eddy
					oposed Botto					27
UL - Lot E	Section 14	Township 18S	Range 27K 2		ot Idn Feet Fr 231		S Liné N	Feet From 330	E/W Line W	County Eddy
 		,		E	9 Pool In		<u> </u>			
Atoka; Glorieta	Atoka; Glorieta-Yeso									3250
<u> </u>				A	dditional We					
? Work			⁰ Well Type		¹¹ Cable/Rot R	tarv	, ¹² Le	ease Type P		
¹⁴ Mu			Proposed Depth	75	¹⁶ Formatio	¹⁷ Contractor United Drilling, Inc.			¹⁸ Soud Date	
N Depth to Groun		500 Ft.	AD / 4660' TV Distance		Yeso Unite nearest fresh water well: 1.88255814 1			Distance from	n nearest sur	After 8/1/2015 face water: 1.53 Miles
Type Conductor Surface	Hole S 26" 12-1/	/4"	sing Size 20" 8-5/8"		asing Weight/ft 91.5 24	Setting 8 - 4	Depth 0 25	Sacks of Co 80 350	ement	Estimated TOC Surface Surface
Production	7-7/8	8"	5-1/2" Casin	g/Cei	¹⁷ ment Program		⁹⁴ onal Com	920 1ments	1	Surface
				8		· · · · ·				
			P	ropos	ed Blowout P	revention	Program	l		
	Туре		V	Vorking	Pressure		Test Pressure			Manufacturer
	XLT 11"			50	00		2000			National Varco
I hereby certify of my knowledg I further certify 19.15.14.9 (B) M Signature:	e and belief. y that I have o	complied with		-	and/or	Approved By:	OIL COI	nservati	ION DIV	VISION
Printed Name:	Spencer Co	x	, ,		·	Title: Dr	$T \mathcal{R}^{\circ}$	Dewiss	$\overline{)}$	
Title: Product	tion Engineer				·	Approved Date	8/14/1	5 Expi	iration Date	8/14/2017
The Trouber						Approved Date: 9/14/15 Expiration Date: 8/14/2017				
	E-mail Address: scox@limerockresources.com									
			es.com hone: 713-29	2-9528		Conditions of	Approval Atta	ched		· · · · · · · · · · · · · · · · · · ·

District 1 1625 N. French Dr., Hobbs, NM \$8240 Phone; (575) 393-6161 Fax; (575) 393-0720 District II S11 S. Fürst S1., Artesia, NM 88210 Phone; (575) 748-1283 Fax; (575) 748-9720 District,III 1000 Rio Brazos Road, Aztee, NM 87410 Phone; (505) 334-6178 Fax; (505) 334-6170 District IV 1220 S. St. Francis Dt., Santa Fe, NM 87505 Phone; (505) 476-3460 Fax; (505) 476-3462

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

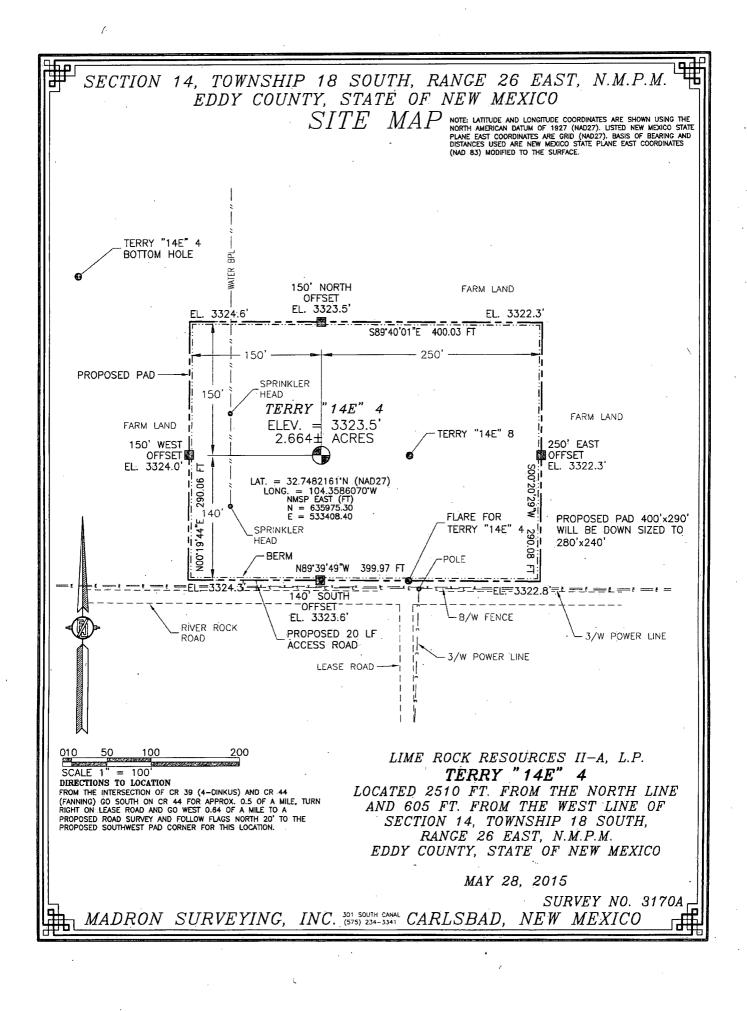
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

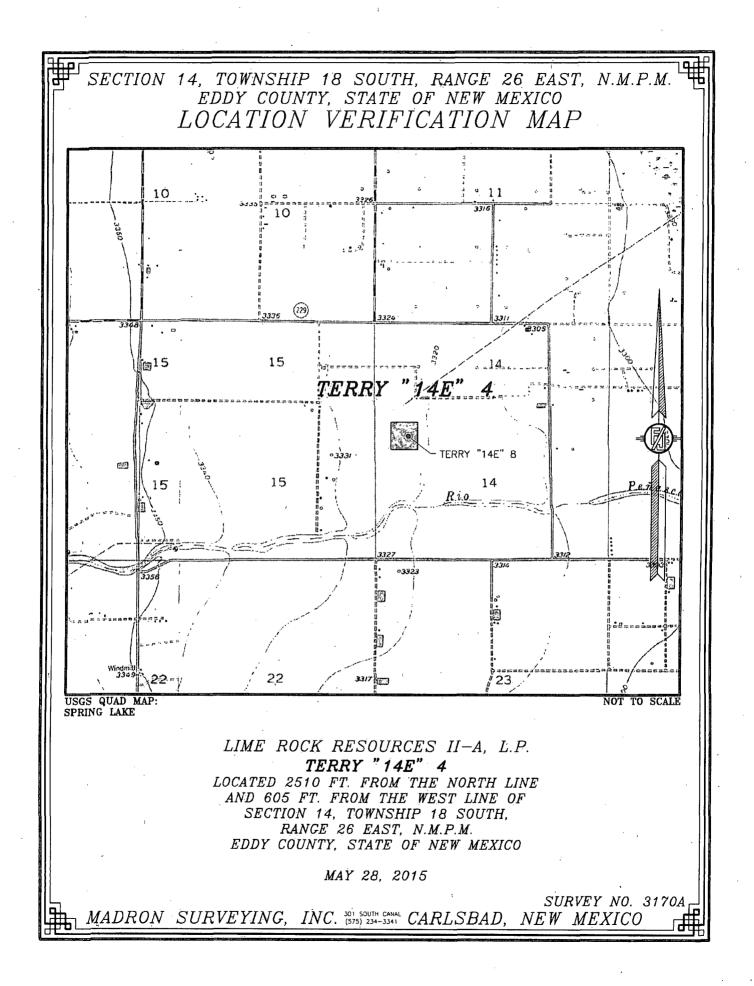
AMENDED REPORT

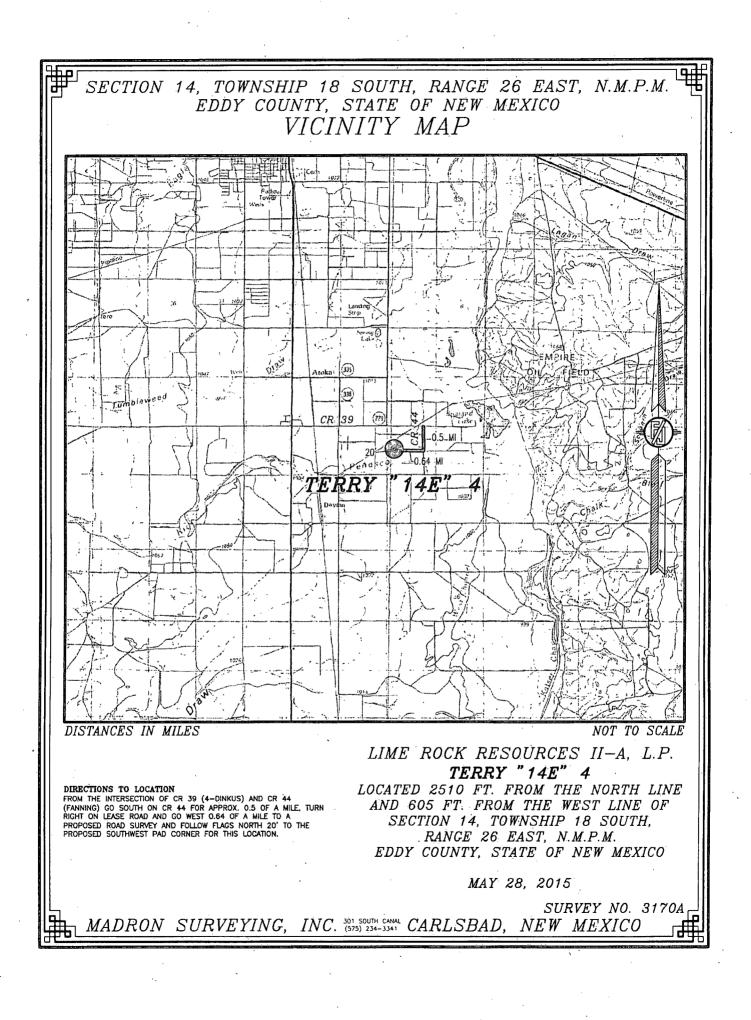
				CATIOI	N AND ACR	EAGE DEDI	CATION PL.	AT		
30-01	API Numbe	3291	!	² Pool Code 3250	° A	Hoka -61	Pool Na	Veso		
⁴ Property					⁵ Property 1	Name			6	Well Number
31509	70				TERRY	14E			r	4
'OGRID	No.				⁸ Operator	Name			•	⁹ Elevation
27755	8			LIME I	ROCK RESOL	JRCES II-A, L.I	P.			3323.5
•					[™] Surface]	Location		,		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Ŵ	est line	County
E	14	18 S	26 E		2510	NORTH	605	WE	ST	EDDY
		· · · · · · · · · · · · · · · · · · ·	۳B	ottom Ho	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/We	est line	County
E	14	18 S	26 E		2310	NORTH	330	WE	ST	EDDY
¹² Dedicated Acro	s ¹⁰ Joint	or Infili " (Consolidatio	n Code			¹⁵ Order No.			- <u> </u>
L	1									

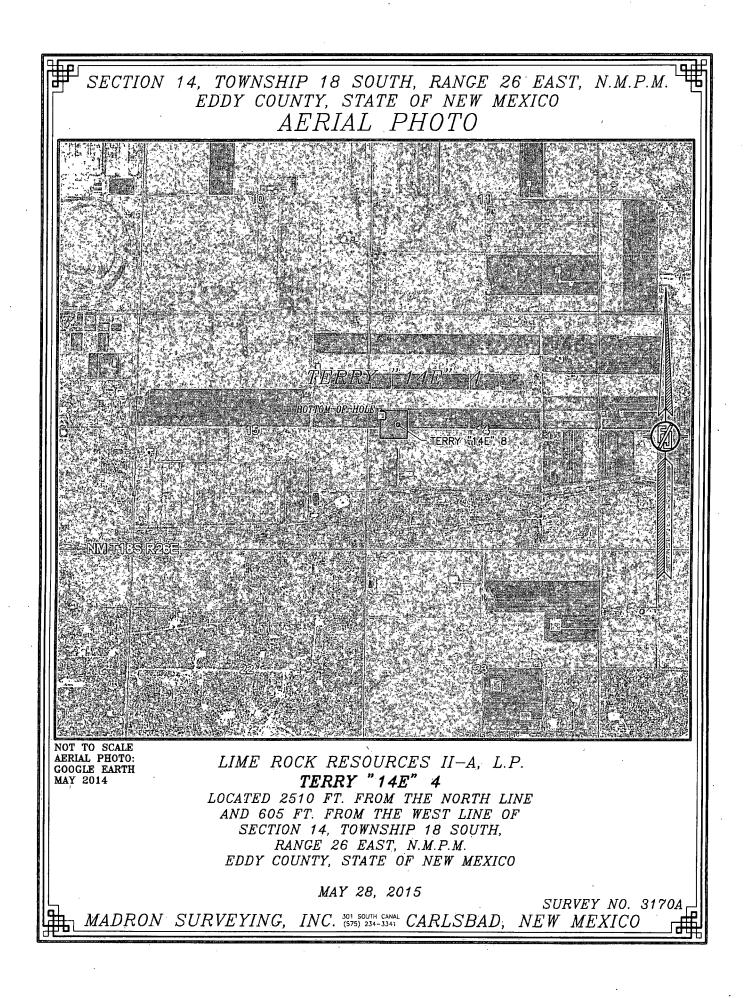
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

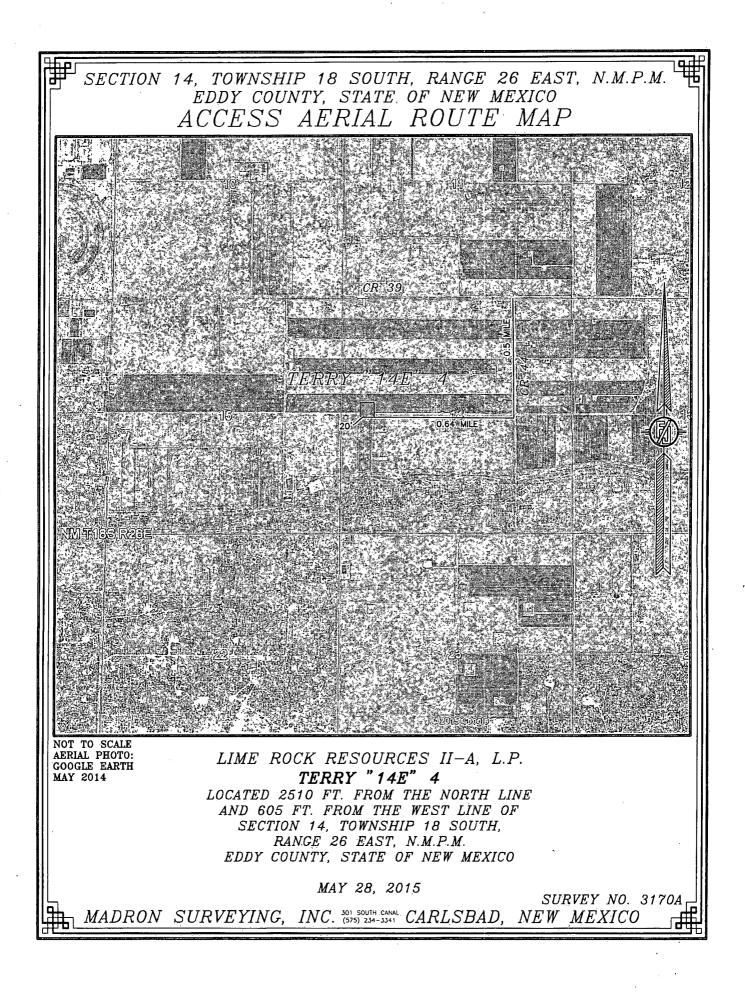
	S89 39 50"E 2636.00		2636.00 FT	¹⁷ OPERATOR CERTIFICATION 1 hereby certify that the information contained herein is true and complete to the
	NW CORNER SEC. 14 LAT. = 32.7551234'N		NE CORNER SEC. 14 LAT. = 32.7550409 N	here of my knowledge and belief, and that this organization either owns o
	LONG. = 104.3606067	W I	LONG. = 104.3434626 W	working interest or unleased mineral interest in the land including the proposed
	NMSP EAST (FT) N = 638488.38	1	NMSP EAST (FT) N = 638457.46	bottom hole location or hus a right to drill this well at this location pursuant to
N00'12	E = 532794.24	l	E = .538064.84 S	a contract with an owner of such a mineral or working interest, or to d
12	ΒΟΤΤΟ	M OF HOLE	18	voluntary pooling agreement or a compilsory pooling order heretofore entered
43 W	LAT =	32.7487701'N	34"E	by the division.
	NMSP E			Apower Ger 8-915
2659.1	N = 636		2651.16	Signature Date
.83 FI			16 FT	Sponson Gr 8-61-15 Signature Sponson 'Con Printed Name Scored merrer resorres com E-mail Address
	OF HO		. 1-1	Printed Name
	2701			Supplement of a rest can
	330'	I	•	E-mail Address
	- 605'	<u>TERRY</u> 4	<u>DNF_</u>	
	DNF V	ELEV. = 3323.5' LAT. = 32.7482161'N (NAD27)	1	SURVEYOR CERTIFICATION
	SURFAC			I hereby certify that the well location shown on this plat was
	LOCATIO	N = 635975.30	1	plotted from field notes of actual surveys made by me or under
g		E = 533408.40	l So	my supervision, and that the same is true and correct to the
N00'12'43	NOTE: 1	ATITUDE AND LONGITUDE COORDINATES ARE	S00'18'34	best of my belief
13"W	SHOWN	USING THE NORTH AMERICAN DATUM OF 1927 LISTED NEW MEXICO STATE PLANE EAST	34 E	MAY 28 2015
2	COORDIN	ATES ARE GRID (NAD27). BASIS OF BEARING		Date of Survey
2659.83	EAST (N	TANCES USED ARE NEW MEXICO STATE PLANE ADB3) COORDINATES MODIFIED TO THE	2651.1	Date of Survey (12737)
83 FT	SURFACE		6	the light block
	SW CORNER SEC. 14 LAT. = 32.7405050'N	S/4 CORNER SEC. 14 LAT. = 32:7404628'N	SE CORNER SEC. 14 □ LAT. = 32.7404702'N	-XXXXXX MMAD
	LÓNG. = 104.3605383'W	LONG. = 104.3520255 W	LONG. = 104.3433680'W	Signative and cell of Protocoma Strives of
	NMSP EAST (FT) N = 633170.07	NMSP EÅST (FT) N = 63B154.17	NMSP EAST (FT) N = 633156.53	- WAYES
	E = 532813.91	E = 535431.45	E = 538093.48	Certificate Number: FILINOS . JARAMILLO, PLS 12797
	N89 39 07"W 2618.23	FT S89'56'57"W	2662.69 FT	SURVEY NO. 3170A

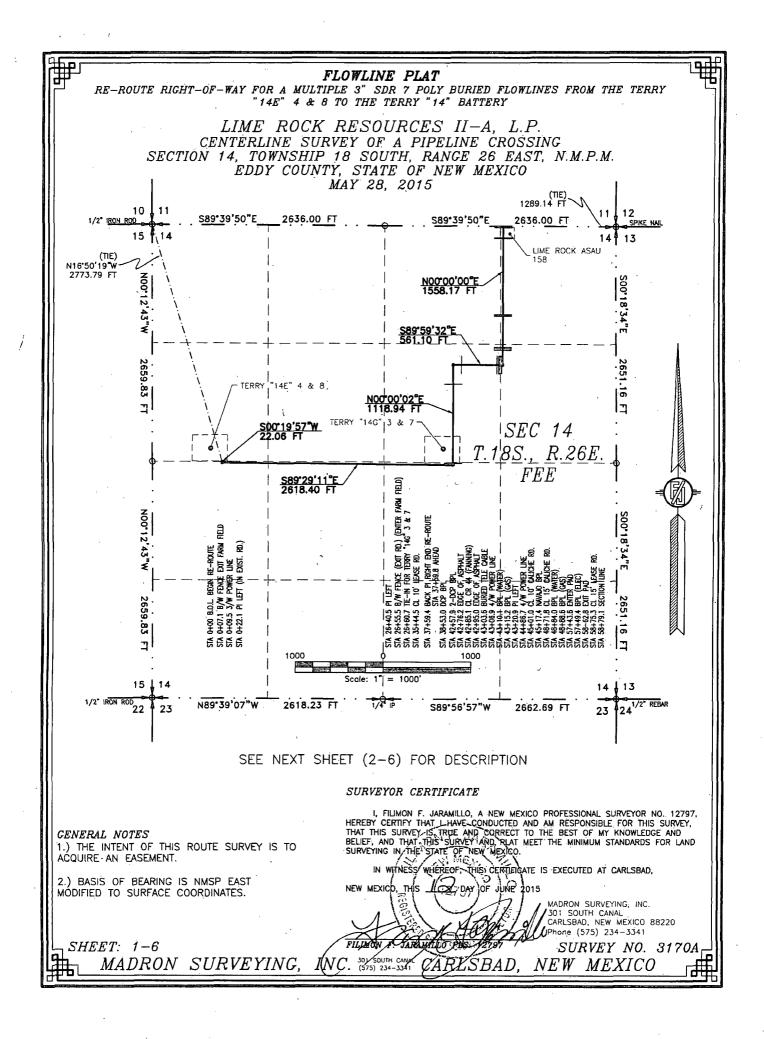




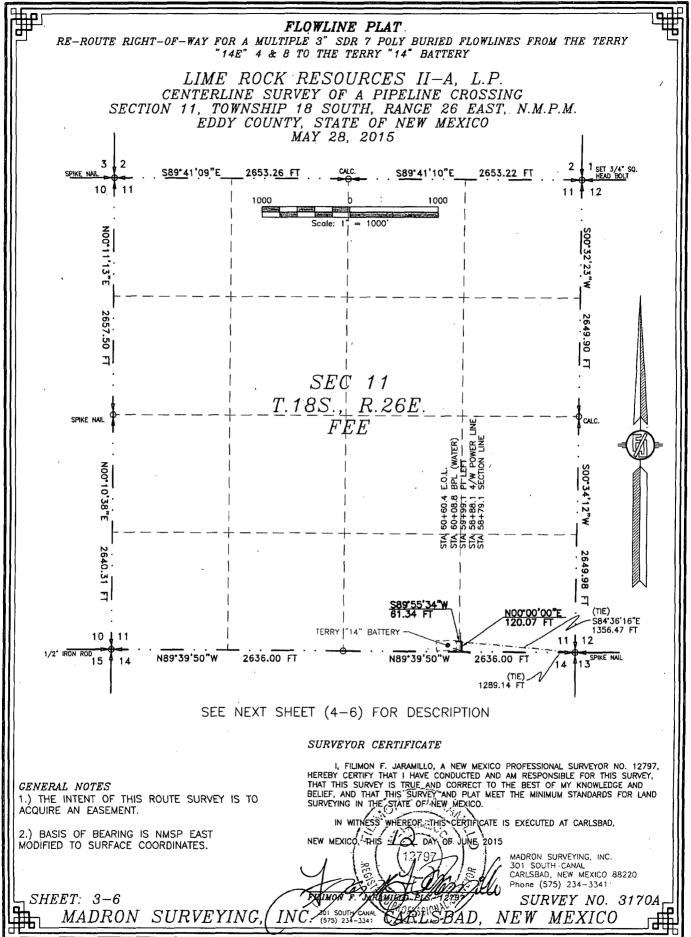




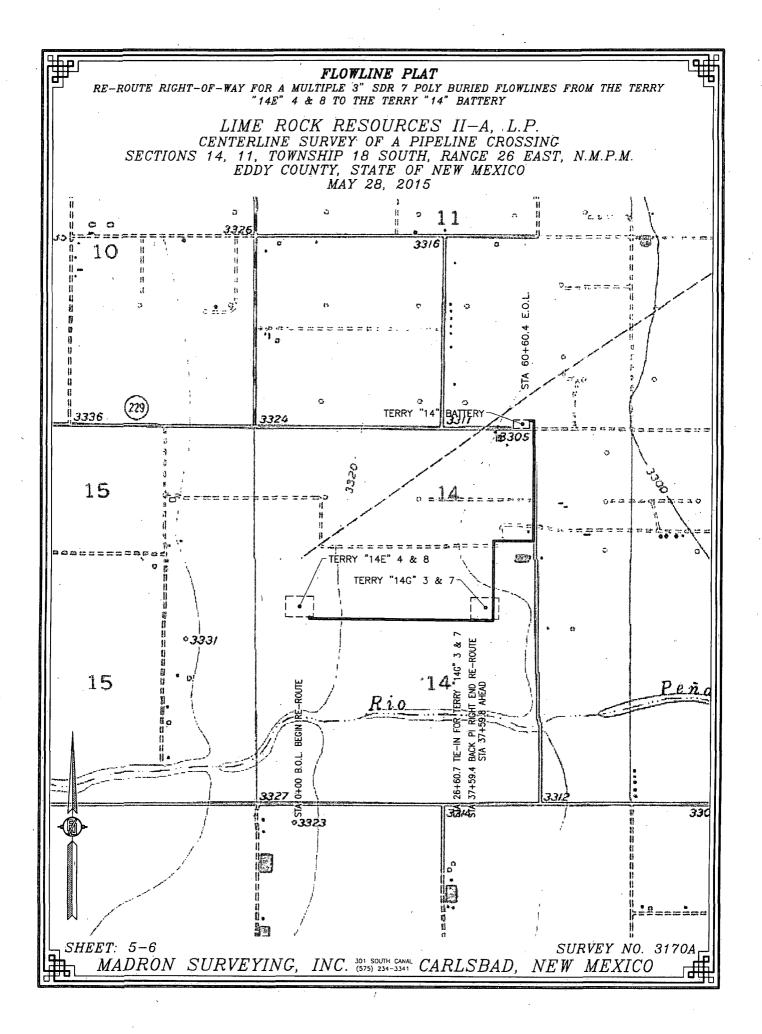


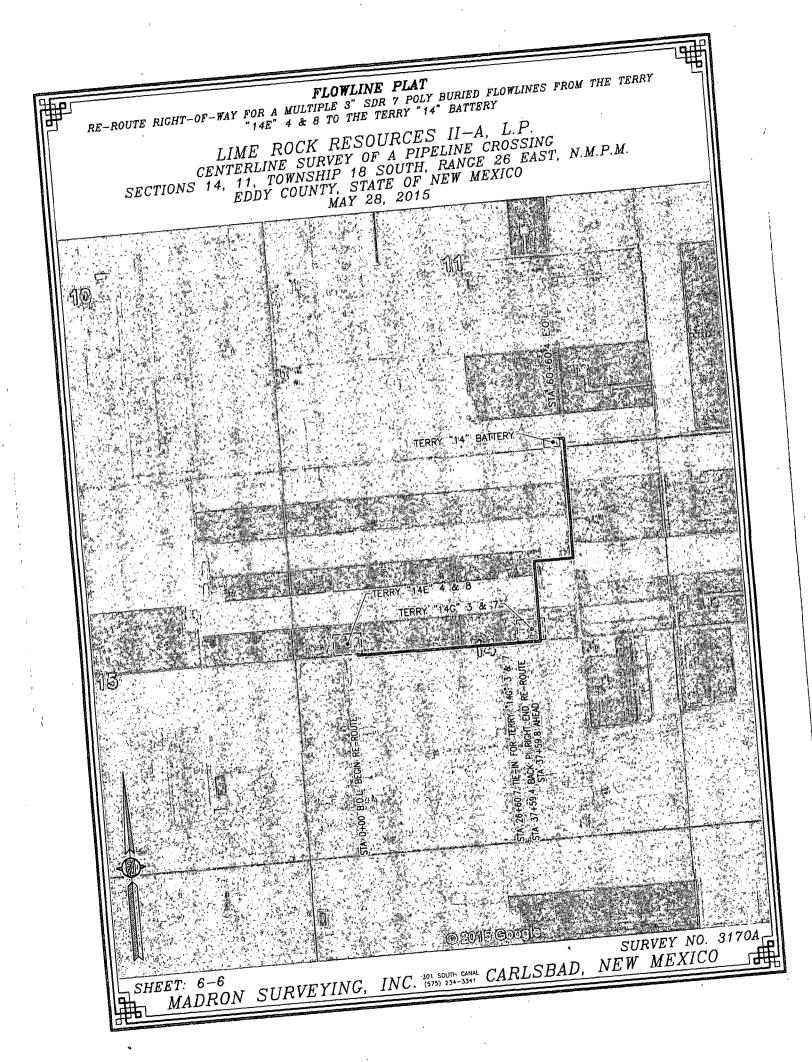


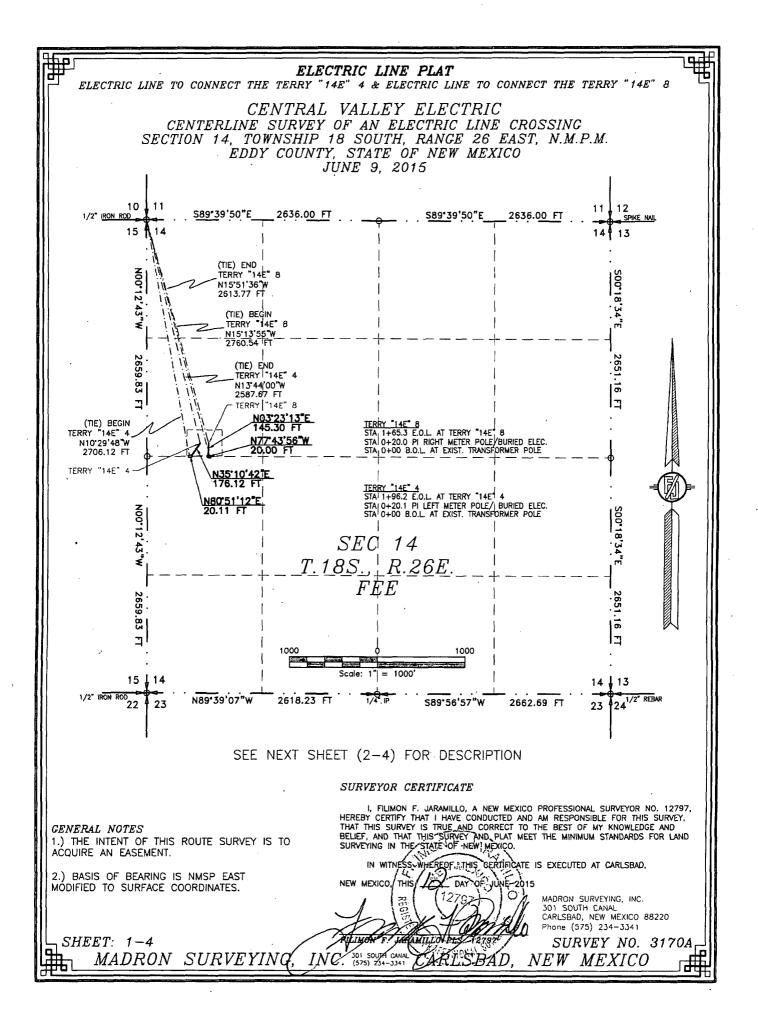
Inc		
	FLOWLINE PLAT RE-ROUTE RIGHT-OF-WAY FOR A MULTIPLE 3" SDR 7 POLY BURIED FLOWLINES FROM THE TERRY "14E" 4 & 8 TO THE TERRY "14" BATTERY	
	LIME ROCK RESOURCES II—A, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 14, TOWNSHIP 18 SOUTH, RANCE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 28, 2015	
	DESCRIPTION A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:	
	BEGINNING AT A POINT WITHIN THE SW/4 NW/4 OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N16'50'19"W, A DISTANCE OF	
	2773.79 FEET; THENCE S00'19'57"W A DISTANCE OF 22.06 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'29'11"E A DISTANCE OF 2618.40 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N00'00'02"E A DISTANCE OF 1118.94 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'59'32"E A DISTANCE OF 561.10 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N00'00'02"E A DISTANCE OF 561.10 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N00'00'00"E A DISTANCE OF 1558.17 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S89'39'50"E, A DISTANCE OF 1289.14 FEET;	
	SAID STRIP OF LAND BEING 5878.67 FEET OR 356.30 RODS IN LENGTH, CONTAINING 4.050 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:	
	SW/4 NW/4 8.19 L.F. 0.50 RODS 0.006 ACRES NW/4 SW/4 533.92 L.F. 32.36 RODS 0.368 ACRES NE/4 SW/4 1313.56 L.F. 79.61 RODS 0.905 ACRES NW/4 SE/4 811.40 L.F. 49.18 RODS 0.559 ACRES SW/4 NE/4 1628.86 L.F. 98.72 RODS 1.122 ACRES SE/4 NE/4 256.38 L.F. 15.54 RODS 0.177 ACRES	
	NE/4 NE/4 1326.36 L.F. 80.39 RODS 0.913 ACRES	
	· ·	
	SURVEYOR CERTIFICATE	
1	I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 127 HEREBY CERTIFY THAT J HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVE THAT THIS SURVEY IS TO CQUIRE AN EASEMENT.	γ.
	.) BASIS OF BEARING IS NMSP EAST ODIFIED TO SURFACE COORDINATES.	,
	SHEET: 2-6 MADRON SURVEYING, INC. 301 SOUTH CAMAL CARLSBAD, NEW MEXICO	



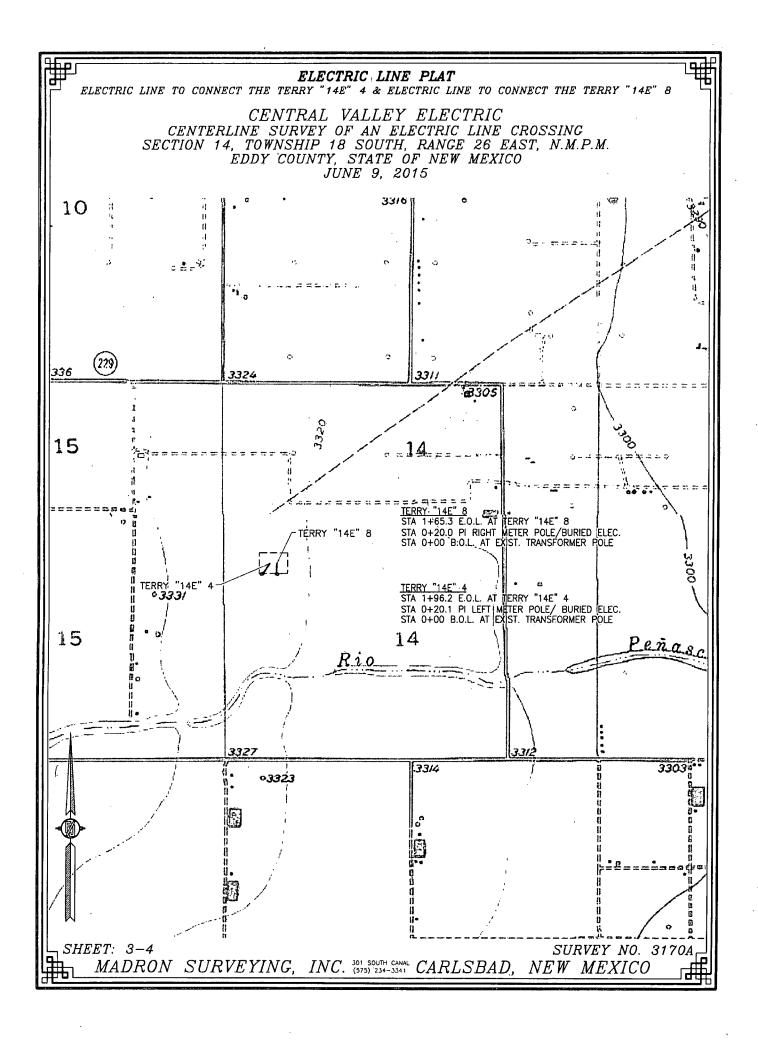
96 n		
	FLOWLINE PLAT A MULTIPLE 3" SDR 7 POLY BURIED FLOWLINES FROM THE TERRY ' 4 & 8 TO THE TERRY "14" BATTERY	
CENTERLIN SECTION 11, TOWN	ROCK RESOURCES II—A, L.P. E SURVEY OF A PIPELINE CROSSING NSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. COUNTY, STATE OF NEW MEXICO MAY 28, 2015	
A STRIP OF LAND 30 FEET WIDE CROSSING FI STATE OF NEW MEXICO AND BEING 15 FEET E	DESCRIPTION EE LAND IN SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, FACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:	,
BEGINNING AT A POINT WITHIN THE SE/4 SE/- SOUTHEAST CORNER OF SAID SECTION 11, TO	4 OF SAID SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE WNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S89'39'50"E, A DISTANCE OF	
THENCE S89'55'34"W A DISTANCE OF 61.34 F	FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; EET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SE 26 EAST, N.M.P.M. BEARS S84'36'16"E, A DISTANCE OF 1356.47 FEET;	
SAID STRIP OF LAND BEING 181.41 FEET OR ALLOCATED BY FORTIES AS FOLLOWS:	11.00 RODS IN LENGTH, CONTAINING 0.125 ACRES MORE OR LESS AND BEING	
SE/4 SE/4 147.95 L.F. 8.97 RODS 0.102 SW/4 SE/4 33.46 L.F. 2.03 RODS 0.023		
	· · · · · · · · · · · · · · · · · · ·	
	٢	
;		
	SURVEYOR CERTIFICATE	
	I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 127 HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVE	
GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS ACQUIRE AN EASEMENT.	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 LA SURVEYING IN THE STATE-OF NEW MEXICO.	
2.) BASIS OF BEARING IS NMSP EAST . MODIFIED TO SURFACE COORDINATES.	IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS (127) DAY OF JUNE 2015	.
	MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 DPhone (575) 234-3341	
SHEET: 4-6 MADRON SURVEYIN	G, INC. (575) 234-3341 CAPLSBAD, NEW MEXICO	
		<u>╷╺</u> ╺╋╬

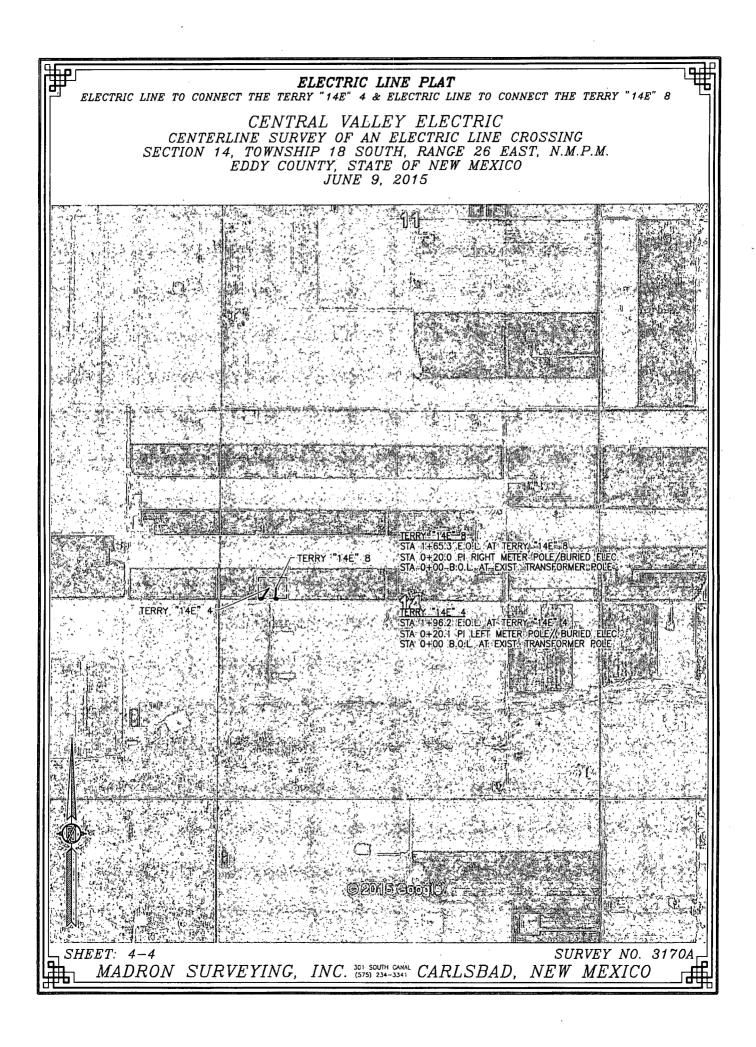






ELECTRIC LINE PLAT ELECTRIC LINE TO CONNECT THE TERRY "14E" 4 & ELECTRIC LINE TO CONNECT THE TERRY "14E" 8 CENTRAL VALLEY ELECTRIC CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO JUNE 9, 2015 DESCRIPTION A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY: TERRY "14E BEGINNING AT A POINT WITHIN THE SW/4 NW/4 OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N10'29'48'W, A DISTANCE OF 2706.12 FFFT: THENCE N80'51'12"E A DISTANCE OF 20.11 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N35'10'42"E A DISTANCE OF 176.12 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N13'44'00"W, A DISTANCE OF 2587.67 FEET; SAID STRIP OF LAND BEING 196.23 FEET OR 11.89 RODS IN LENGTH, CONTAINING 0.135 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: SW/4 NW/4 196.23 L.F. 11.89 RODS 0.135 ACRES TERRY "14E" 8 BEGINNING AT A POINT WITHIN THE NW/4 SW/4 OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N15'13'55'W, A DISTANCE OF 2760.54 FEFT: THENCE N77'43'56"W A DISTANCE OF 20.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO3'23'13"E A DISTANCE OF 145.30 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N15'51'36"W, A DISTANCE OF 2613.77 FEET; SAID STRIP OF LAND BEING 165.30 FEET OR 10.02 RODS IN LENGTH, CONTAINING 0.114 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NW/4 SW/4 3.97 L.F. 0.24 RODS 0.003 ACRES SW/4 NW/4 161.33 L.F. 9.78 RODS 0.111 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 THATCHIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO. IN WINESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, CENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. õ 2.) BASIS OF BEARING IS NMSP EAST d pay OF JUNE 2015 his NEW MEXICO. MÓDIFIED TO SURFACE COORDINATES. MADRON SURVEYING, INC. SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 UN SHEET: 2-4LLO F SURVEY NO. 3170A MADRON SURVEYING. SOUTH CANAL RLSBAD, INC. (575) 234-3341 NEW MEXICO





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

Terry 14E #4 2510' FNL 605' FWL (E) 14-18S-27E Eddy County, NM

- 1. The elevation of the unprepared ground is 3323.5 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 4660' 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 4694' MD./ 4660' TVD. inside a 30' X 30' square target inside of 40 acre spacing regulatory quarter-quarter setback distances. The KOP for directional drilling will be at 500'. See directional plan for detail.
- 5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	NA	NA
Queen	290	290
Grayburg	670	670
Premier	970	976
San Andres	978	984
Glorieta	2327	2361
Yeso	2445	2479
Tubb	3867	3901
TD	4694	4660

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	NA	NA
Queen	290	290
Grayburg	670	670
Premier	970	976
San Andres	978	984
Glorieta	2327	2361
Yeso	2445	2479
Tubb	3867	3901
TD	4694	4660

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	12-1/4"	8-5/8"	24	J-55	ST&C	425	350	14.8	1.35	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Intermediate	1									
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4694	200	12.8	1.903	(35:65) Poz/CI C Cmt + 5% NaCI + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 +0.2% R-3 + 6% Gel
							720	14.8	1.33	Cl H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel

8. Proposed Mud Program is as follows

Depth	0-425	425-4544	4544-4694
Mud Type	Fresh Water Mud	Brine	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
МС	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

Coring Program: No full or sidewall cores are anticipated.

Testing Program: No drill stem tests are anticipated **Electric Logging Program:** SGR-DLL-CDL-CNL Quad Combo from 4694 to surf. Csg. SGR-CNL to Surf.

11. Potential Hazards:

No abnormal temperatures or pressures are expected. There is no 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 2065.36 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 complete the well and to construct surface facilities.



Lime Rock Resources

Eddy County NM (NAD 27) Terry 14E #4

Original Hole

Plan: Plan #1

Standard Planning Report

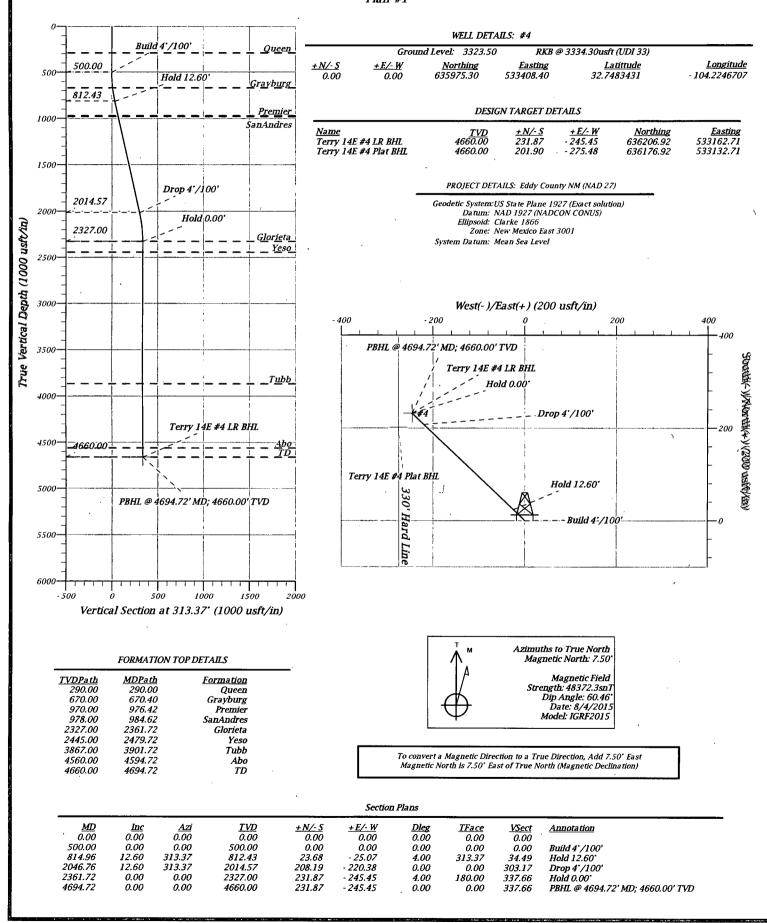
04 August, 2015





Lime Rock Resources Eddy County NM (NAD 27) Terry 14E #4 · Plan #1





DIREC	DRESS TIONAL LING		energyanistic and a statement of the statem	Planning Report	de únicko a necessión a co rregue			ME ROCK ESOURCES
Database: Company: Project: Site: Well: Well: Wellbore:	Lime Rock R	NM (NAD 27)	<u></u>	Local Co-ordinate R TVD Reference: MD Reference: North Reference: Survey Calculation	۲ ۲ ۲	Vell #4 RKB @ 3334.30ušft RKB @ 3334.30usft rue Ainimum Curvature	(UDI 33)	
Design:	Plan #1	ee Marana ah Jawa a				Training and the store store of the store store and store store and the store store at the store store at the s	activity at the state of the state state.	;
Project	Eddy County	NM (NAD 27)			анциян на на на се			
Map System: Geo Datum: Map Zone:	US State Plane NAD 1927 (NAI New Mexico Ea	DCON CONUS)		System Datum:	Me	an Sea Level	<u> </u>	
Site	Terry 14E			an a				
Site Position: From: Position Uncertainty	Map y:	0.00 usft	Northing: Easting: Slot Radius:	635,974.72 us 533,508.37 us 13.200	ft Longitude:	ence:		32.7483413 -104.2243455 0.06 °
Well	#4			· · · · · · · · · · · · · · · · · · ·		an a)
Well Position	+N/-S	0.68 usft	Northing:			tude:		32.7483431 -104.2246707
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Position Uncertainty Wellbore Magnetics	y Original Hole Model Na	0.00 usft	-		0.00 usft Gro Dip A	und Level:	Field Stren (nT)	3,323.50 usft
Wellbore Magnetics	y (Original Hole Model Na IGI	0.00 usft	Wellhead Elevat	ion: Declination (°)	0.00 usft Gro Dip A	und Level:		3,323.50 usft
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Wellbore Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Incl (usft) 0.00	y (Original Hole Model Na IG Plan #1 lination Azim (°) (° 0.00	0.00 usft me RF2015 Depth F (u 0 Vertic juth Dep) (ust 0,00	Weilhead Elevat Sample Date 8/4/2015 Phase: From (TVD) isft) .00	ion: Declination (°) 7.5 PROTOTYPE +N/-S (usft) 0.00 Dogleg +E/-W Rate (usft) (°/100usi 0.00 0	0.00 usft Gro Dip A C (° D Tie On Depth: +E/-W (usft) 0.00 Build Rate (°/100usft) .00 0.00	und Level: ngle 60.46 0.00 Directi (°) 313.3 'Turn Rate (°/100üstt) 0.00	(nT) 0 0 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3,323.50 usft gth 48,372
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Wellbore Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Incl (usft) 0.00	y (Original Hole Model Na IG Plan #1 Plan #1 lination Azim (°) (° 0.00 0.00 12.60	0.00 usft me RF2015 Depth F (u uth Dep) (ust 0.00 0.00 5 313.37 8 313.37 2,0	Weilhead Elevat Sample Date 8/4/2015 Phase: From (TVD) isft) .00	ion: Declination (°) 7.5 PROTOTYPE +N/-S (usft) 0.00 Dogleg +E/-W Rate (usft) 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0	0.00 usft Gro Dip A C (° D Tie On Depth: +E/-W (usft) 0.00 Build Rate (°/100usft) .00 0.00	und Level: ngle 60.46 0.00 Directi (°) 313.3 'Turn Rate (°/100üstt) 0.00	(nT) 0 0 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3,323.50 usft

金	CHILDR DIRECTI DRILLI	ESS DNAL NG			Planning	Report				LIME ROO RESOURC
atabase		'EDM 5000.1 Si	ingle User Dh		l ocal C	o-ordinate Re	ference:	Well #4	2.2.1	
	,	Lime Rock Res	0					RKB @ 3334.3		
ompany		1				ference:		,	· · ·	· ·
oject:		Eddy County N	M (NAD 27)	1	MD Ref	erence:		RKB @ 3334.3	0usft (UDI 33)	
te:	· · · · · ·	Terry 14E			North R	eference:		True		
	· · · ·				1 t		a the a sta	Minimum Curva	aturo	
ell:		#4			Survey	Calculation M	ethoa.			
ellbore	•	Original Hole						1		
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	Measured			Vertical	· · · ·		Vertical	Dogleg	Build Station	Turn
	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	(usft)	2		(usft)			(usft)			°/100usft)
	(usit)	(°)	(°)	luard	(usft)	(usft)	(uait)	(1000310) (jioodan) (
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
						0.00	0.00		0.00	0.00
	200.00	0.00	0.00	200.00	0.00			0.00		
	290.00	0.00	0.00	290.00	0.00	0.00	0.00	0.00	0.00	0.00
	Queen		•							
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	Build 4°/100'	t.				•				
		4.00	212 27	500 00	2,40	-2.54	3.49	4.00	4 00	0,00
	600.00	4.00	313.37	599.92					4.00	
	670.40	6.82	313.37	670.00	6.95	-7.36	10.12	4.00	4.00	0.00
	Grayburg									
	700.00	8.00	313.37	699.35	9.57	-10.13	13.94	4.00	4.00	0.00
	800.00	12.00	313.37	797.81	21.49	-22.75	31.30	4.00	4.00	0.00
	814.96	12.60	313.37	812.43	23.68	-25.07	34.49	4.00	4.00	0.00
	Hold 12.60°									
		10.00	243.07	BOE 40	26 42	20 55	E2 04	0.00	0.00	0.00
	900.00	12.60	313.37	895.42	36.42	-38.55	53.04	0.00	0.00	
	976.42	12.60	313.37	970.00	47.87	-50.67	69.71	0.00	0.00	0.00
	Premier					•				
	984.62	12.60	313.37	978.00	49.10	-51.97	71.49	0.00	0.00	0.00
	SanAndres							100 UK	-	
					_					_
	1,000.00	12.60	313.37	993.01	51.40	-54.41	74.85	0.00	0.00	0.00
	1,100.00	12.60	313.37	1,090.61	66.38	-70.27	96.66	0.00	0.00	0.00
	1,200.00	12,60	313.37	1,188.20	81.36	-86.12	118.47	0.00	0.00	0.00
	1,300.00	12.60	313.37	1,285.79	96.33	-101.98	140.28	0.00	0.00	0.00
	1,400.00	12.60	313,37	1,383.38	111.31	-117.83	162.10	0.00	0.00	0.00
	1,400.00	12.00	515,57	1,000.00	11.31	-11.05	102.10	0.00	0.00	0.00
	1,500.00	12.60	` 313.37	1,480.97	126.29	-133.69	183.91	0.00	0.00	0.00
	1,600.00	12.60	313.37	1,578.57	141.27	-149.54	205.72	0.00	0.00	0.00
	1,700.00	12.60	313.37	1,676.16	156.25	-165.40	227.53	0.00	0.00	0.00
					171.23	-185.40	249.34	0.00	0.00	0.00
	1,800.00	12.60	313.37	1,773.75						
	1,900.00	12.60	313.37	1,871.34	186.21	-197.11	271.16	0.00	0.00	0.00
	2,000.00	12.60	313.37	1,968.93	201.18	-212.97	292.97	0.00	0.00	0.00
	2,000.00	12.60	313.37	2,014.57	208.19	-212.37	303.17	0.00 -		0.00
		12.00	313.31	2,014.57	200.19	-220.30	303.17	0.00 -	0.00	0.00
	Drop 4°/100'									
	2,100.00	10.47	313.37	2,066.73	215.50	-228.12	313.81	4.00	-4.00	0.00
	2,200.00	6.47	313.37	2,165.62	225.61	-238.82	328.54	4.00	-4.00	0.00
	2,300.00	2.47	313.37	2,265.30	230.96	-244.49	336.33	4.00	-4.00	0.00
	2,361.72	0.00	0.00	2,327.00	231.87	-245.45	337.66	4.00	-4.00	0.00
	Hold 0.00° - 0	Glorieta								
	2,400.00	0.00	0.00	2,365.28	231.87	-245.45	337.66	0.00	0.00	0.00
	2,400.00	0.00	0.00	2,305.28	231.87	-245.45	337.66	0.00	0.00	0.00
		0.00	0.00		201.07	-240.40	337.00	0.00	0.00	0.00
	Yeso			1						
	2,500.00	0.00	0.00	2,465.28	231.87	-245.45	337.66	0.00	0.00	0.00
	2,600.00	0.00	0.00	2,565.28	231.87	-245.45	337.66	0.00	0.00	0.00
					. *					
	2,700.00	0.00	0.00	2,665.28	231.87	-245.45	337.66	0.00	0.00	0.00
	2,800.00	0.00	0.00	2,765.28	231.87	-245.45	337.66	0.00	0.00	0.00
	2,900.00	0.00	0.00	2,865.28	231.87	-245.45	337.66	0.00	0.00	0.00
	3,000.00	0.00	0.00	2,965.28	231.87	-245.45	337.66	0.00	0.00	0.00
	3,100.00	0.00	0.00	3,065.28	231.87	-245,45	337.66	0.00	0.00	0.00
	0,100.00	0.00	0.00	0,000.20	201.07		•	0.00	0.00	
	3,200.00	0.00	0.00	3,165.28	231.87	-245.45	337.66	0.00	0.00	0.00
	3,300.00	0.00	0.00	3,265.28	231.87	-245.45	337.66	0.00	0.00	0.00
	3,400.00	0.00	0.00	3,365.28	231.87	-245.45	337.66	0.00	0.00	0.00
								0.00		
	3,500.00	0.00	0.00	3,465.28	231.87	-245.45	337,66	0,00	0.00	0,00

COMPASS 5000.1 Build 74

	ONAL			Planning F	Report	-			LIME ROCK
Database: Company: Project: Site:	EDM 5000.1 Sin Lime Rock Reso Eddy County NM Terry 14E	ources		TVD Ref MD Refe	• •	ference:	Well #4 RKB @ 3334.3 RKB @ 3334.3 True		
Well: Wellbore: Design:	, #4 Original Hole Plan #1				Calculation M	ethod:	Minimum Curva	ature	
Planned Survey			and and a second and a second and a second and a second a						
Measured Depth (usft)		Azimuth	Vertical Depth (usft)	+N/-S	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft) (°	Turn Rate /100usft)
3,600.00	(°) 0.00	(°) 0.00	3,565.28	(usft) 231.87	-245,45	337,66	0.00	0.00	0.00
3,700.00 3,800.00	0.00	0.00	3,665.28 3,765.28	231.87 231.87	-245.45 -245.45	337.66 337.66	0.00	0.00 0.00	0.00
3,900.00 3,901.72 Tubb	0.00 0.00	0.00	3,865.28 3,867.00	231.87 231.87	-245.45 -245.45	337.66 337.66	0.00	0.00	0.00
4,000.00	0.00	0.00	3,965.28	231.87	-245.45	337.66	0.00	0.00	0.00
4,100.00 4,200.00 4,300.00 4,400.00 4,500.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4,065.28 4,165.28 4,265.28 4,365.28 4,465.28	231.87 231.87 231.87 231.87 231.87 231.87	-245.45 -245.45 -245.45 -245.45 -245.45	337.66 337.66 337.66 337.66 337.66 337.66	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4,594.72	0.00	0.00	4,560.00	231.87	-245.45	337.66	0.00	0.00	0.00
Abo 4,600.00 4,694.72	0.00 0.00	0.00 0.00	4,565.28 4,660.00	231.87 231.87	-245.45 -245.45	⁾ 337.66 337.66	0.00 0.00	0.00 0.00	0.00 0.00
Design Targets Target Name - hit/miss:target	4.72' MD; 4660.00' Dip Angle	Ďip Dir. T	VD +N/-S	+E/-W	Northir				
- Shape Terry 14E #4 Plat BHL - plan misses targe	(°) 0.00	0.00 4,6	sft) (usft) 660.00 201			·	ift) 3,132.71	Latitude. 32.7488981	Longitude -104.225566
- Point Terry 14E #4 LR BHL - plan hits target ce	0.00			.87 -245.4	• •	206.92 53	3,162.71	32.7489805	-104.225469
- Point									
- Point Formations		oth 🦾	Name			Lithology	Dip	Dip Direction	
- Point Formations [Meas Den (us	pth Dep sft) (ust 290.00 2 670.40 6	oth 🦾	n burg			Lithology		Direction	
- Point Formations Dep (us 2, 2,	pth Dep 290.00 2 670.40 6 976.42 9 984.62 9 361.72 2,3 479.72 2,4	oth ft) 290.00 Queen 570.00 Grayb	n purg er ndres			Lithology		Direction	

COMPASS 5000.1 Build 74

	HILDRESS RECTIONAL DRILLING		rysantina. I nati kaya aya panai ya usia	Planning Re	eport	
Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1 Single User Db Lime Rock Resources Eddy County NM (NAD 27) Terry 14E #4 Original Hole Plan #1		TVD Refer MD Refere North Refe	ence: erence: True	3334.30usft (UDI 33) 3334.30usft (UDI 33) m Curvature	
Plan Annotat	tions Measured Depth (usft)	Vertical Depth (usft)	Local Coordina +N/-S (usft)	ates +E/-W (usft)	Comment	
	500.00 814.96 2,046.76 2,361.72 4,694.72	500.00 812.43 2,014.57 2,327.00 4,660.00	0.00 23.68 208.19 231.87 231.87	0.00 -25.07 -220.38 -245.45 -245.45	Build 4°/100' Hold 12.60° Drop 4°/100' Hold 0.00° PBHL @ 4694.72' MD; 4660.00' T\	/D

Lime Rock

SCOX

Printed: 8/4/2015 1:36:45 PM Job number: 109

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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 #
Mike Loudermilk	Operations Manager	Houston	713-292-9526	832-331-7367	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	405-821-0534	832-491-3079
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	

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Pressure Control Equipment

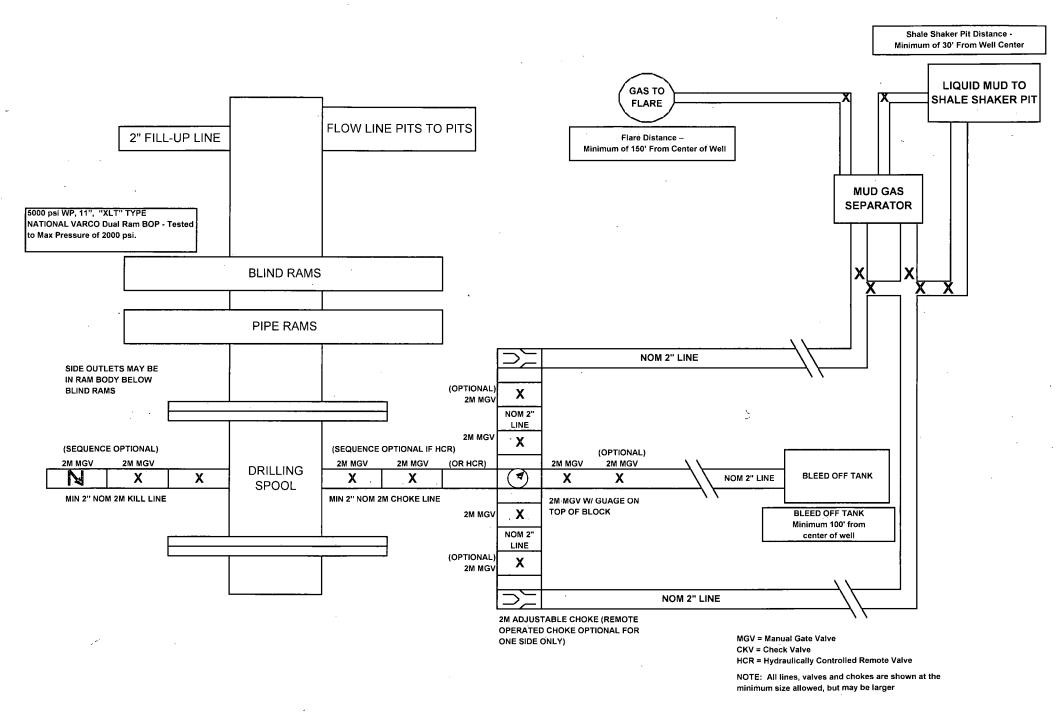
The blowout preventer equipment (BOP) will consist of a 5000 psi rated, "XLT" type, National VARCO double ram preventer that will be tested to a maximum pressure of 2000 psi. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams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

Terry 14E #4

Unit E, S14-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.

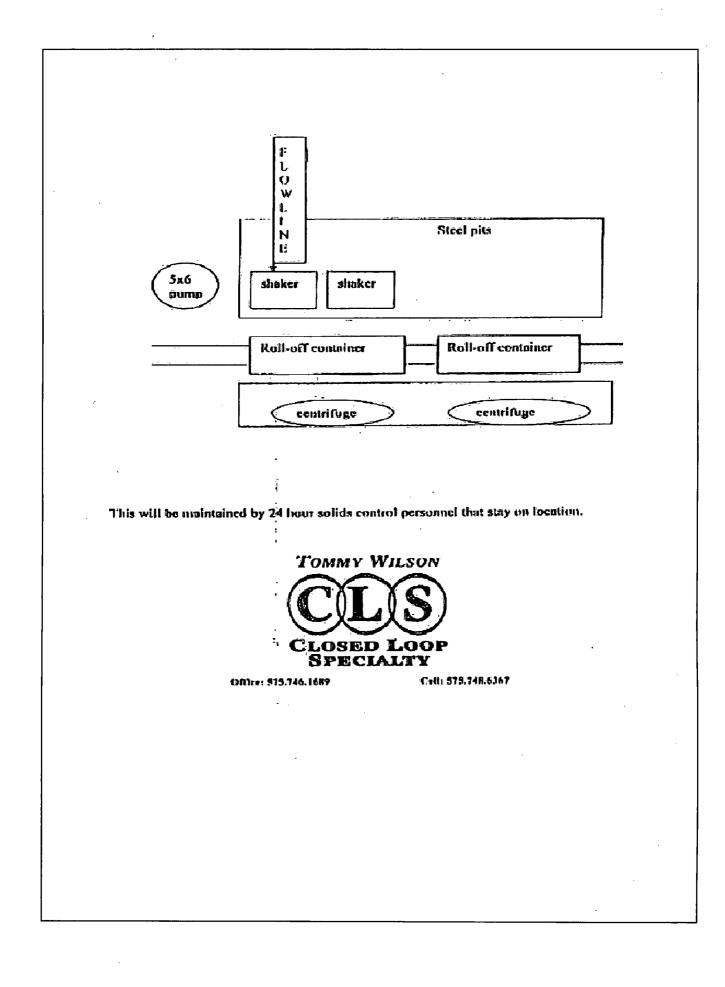
2- (250 bbl) tanks to hold fluid2-CRI bins with track system2-500 bbl frac tanks with fresh water2-500 bbl frac tanks for brine water

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.

Closure:

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



Permit Conditions of Approval

API: 30-0/5-43297

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OCD Reviewer	Condition
RD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in comment the water protection string.