District I 1625 N, French Dr., Hobbs, NM 88240					of New Mexi	Form C-101				
					rals and Natural Resources RECEIVED Revised December 16, 20					
811 S. First St., Arte	esia, NM 88210 283 Fax: (575) 748-97	20		Oil Cor	onservation Division				1	
	ad, Aztec, NM 87410			1220, So	O South St. Francis Dr.				d.state.nm.us d.state.nm.us oms are available on our oms are available on our oms are available on our oms are available on our	
Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> San					a Fe, NM 875	d.state.nm.us d.state.nm.us oms are available on our oms are available on our oms are available on our oms are available on our our of the our our of the our our our of the our our our of the our				
	1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462									
A DD	T I C A TOTAL	N EOD DEDM	T TO DD	11 I D			N DITIOE	website a	v docume	
APP	LICATIO	N FOR PERMI Operator Name		ILL, K	E-ENTER,	DEEPE	N, PLUGE	regulace	, JANE	
	1111 B	Lime Rock Res	ources II-A	n 77	0.40			277558		
	IIII Bag	by Street, Suite 460	0 Houston,	Texas //	042		317-11	API Numb	679	
Proper	×595	<u> </u>		Property	Name		12		Well No. #3	
_3710_	57			Fanning	<u> </u>				#3	
<del></del>		·	1	T	ce Location		/ 		<del></del>	
UL - Lot		nship Range 3S 26E	Lot Idn			Line S	Feet From 330	E/W Line E	County Eddy	
		202	<u> </u>		Information		350		·	
PBO LAK Atoka, Glorieta-Y	. <del></del>					·			57/20	
-intoku, cioniku i			Addi	tional V	Well Inform	ation				
<sup>9</sup> Work N	Туре	<sup>10</sup> Well Type O		11 Cable/ R	-	12 L	ease Type	13 G	round Level Elevation 3306.1	
14 Mul	tiple	15 Proposed Depth		<sup>16</sup> Form		17 (	Contractor ,	<del></del>	18 Spud Date	
N	1	4650	<b>C</b>	Yes	er well: 0.31 Miles	United	Drilling, Inc.	ing, Inc. After 2/15/2013  Distance to nearest surface water: 0.77 Miles		
Depth to Groun	u water. 30 Feet								e water: 0.77 Miles	
			Proposed	Casing	g and Ceme	nt Progr	am			
Туре	Hole Size	Casing Size	Casing W	/eight/ft	Setting	Depth	Sacks of C	ement	Estimated TOC	
Conductor	26"	20"	91.	.5	40		Ready Mix		Surface	
Surface	12-1/4"	8-5/8"	24	1	425		300		Surface	
Production	7-7/8"	5-1/2"	17	7	4650		910		Surface	
		<del> </del>								
	<u> </u>	Cosir	a/Comon	t Dungu	om. Additic	mal Can	nm onto			
		Caşır	ig/Cemen	t Progr	am: Additio	onai Con	nments			
	<del></del>		Proposed 1	 Blowou	t Prevention	n Progra		<del></del>		
•	Туре		Vorking Pressur			Test Pressur			1anufacturer	
	XLT II"		5000	<del></del> -	2000				National Varco	
				····						
	<u> </u>			.1 1 .	<u> </u>					
of my knowled		ation given above is true	and complete t	o the best		OIL CO	NSERVAT	ION DIVI	SION	
	I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an (attached) alternative									
OCD-approve		iciai permit , or an (		панче	Approved By:	10	O	/		
Signature:	100	~?-		1 / Managed						
	ZEDWO	rex		T. 1		2+ 21	,			
Printed name: S	spencer Cox			Title: Sostafist						
Title: Producti	on Engineer			Approved Date: 1/15/2015   Expiration Date: 1/15-2015				1/15/2015		
E-mail Address	: scox@limeroo	kresources.com				///				
Date: 1-1	1-13	Phone: 713-29	92-9528		Conditions of A	pproval Attac	ched			
		<del></del>			<del></del>	<del></del>				

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II \$11 S. First St., Artesia, NM \$8210 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

S00'10'43"W

SW CORNER SEC. 11

LAT. = 32.7551232'N LONG. = 104.3606069'W

S89'39'53"E 2636.03 FT

#### 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

JARAMILLO, PLS 12797

SURVEY NO. 1096

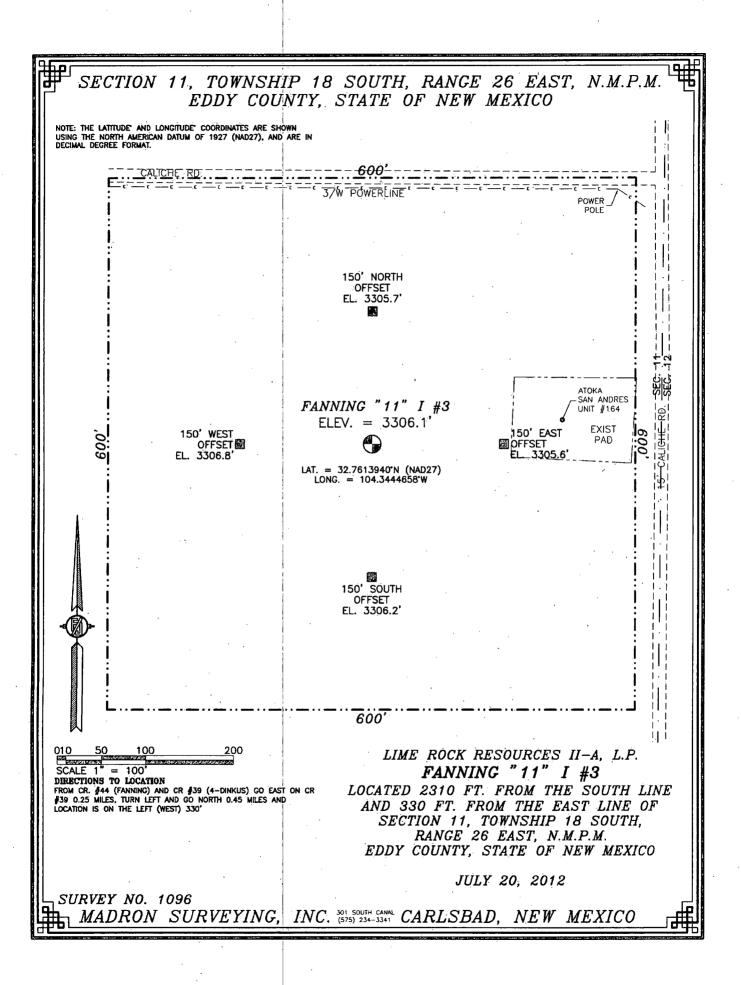
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30-01	API Numbe	9179	5	112C	RE	DLAKE	. )	Pool Na	Jme Yo	50	
Property Code 5 Property Name					Name				6	Well Number	
57100	5'/	FANNING "11" I									3
OGRID	No.			ì	* Operator						9 Elevation
27755	8			LIME	ROCK RESO	URCES II A, L	.Р.				3306.1
				İ	™ Surface	Location				-	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fee	t from the	East/We		County
I I	11	18 S	26 E		2310	SOUTH		330	EAS	ST	EDDY
			" B	Bottom H	ole Location	If Different F	rom S	urface-			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fee	t from the	East/We	st line	County
		_		i							
12 Dedicated Acre	s 3 Joint o	r Infill	onsolidation	Code 15 Q	rder No.						
40				1-							
division.	·	•		;	·	been consolidate				· 11-11-12-12-1	·-
NW CORNE		W 2652.58		OMPUTED :	N89'40'15"W		_				TIFICATION  ed herein is true and complete
LAT. = 32.	7696820'N	1 .		OMPOILD .	ĺ	NE CORNER SEC. LAT. = 32,769600	7'N	11			that this organization either
LONG. = 10	)4.3605564'W	<b>/</b>		1 [	1	LONG. = $104.343301$	7°W		-	-	interest in the land including
E		!		! :	1		E	the proposed t	bouom hole locat	ion or has a i	right to drill this well at this
20		İ			!		24	l '			er of such a mineral or working
2657		<b>!</b>					49.2	H			t or a compulsory pooling
ļ- <del>-</del>		+		- +			2649.	oraer neretojo	ore entered by the	avision.	
w.21,			ND LONGITUD				26"E	-po	nes a	5/	1-11-13 Date
1.1		USING THE		) '	1		32,2	Signature			Date
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		DECIMAL DE	GREE FORMA	d.			Z	Printed Name			
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W/4 CORNE	R SEC. 11	1			į		red	E-mail Addre	ess		
LÁT. = 32.7 LONG. = 104	623791'N	T		+		SURFACE _		BCLIDA	/EVOP	CEDT	IFICATION
		† 			_ (	LOCATION -3:	30'				IFICATION ation shown on this
		i			FANNINĠ FLEY	" <i>1" I #3</i> ≠ 3306.1'					of actual surveys
Œ	•	ì		LAT	. = 32.7613940		1	piai was p	Guen Jeoniali	entinoies A	an weys

400.32,26"E

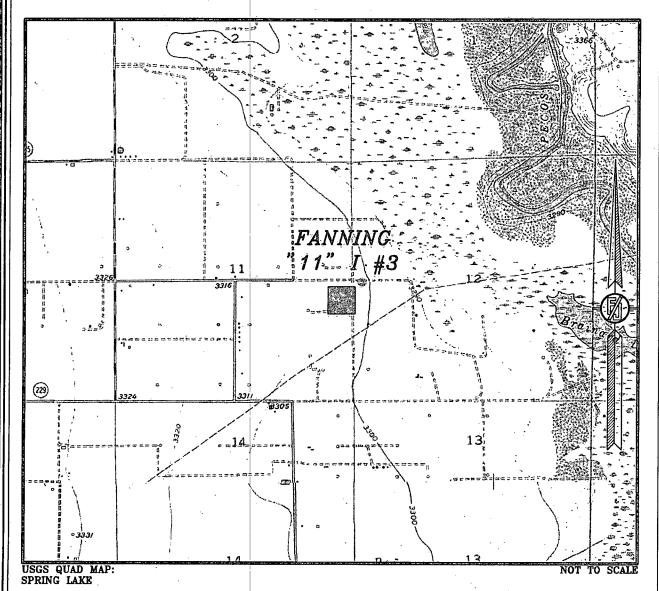
SE CORNER SEC. 11

LAT. = 32.7550409'N LONG. = 104.3434626'W

S89'39'53"E 2636.03 FT



# SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



LIME ROCK RESOURCES II—A, L.P.

FANNING "11" I #3

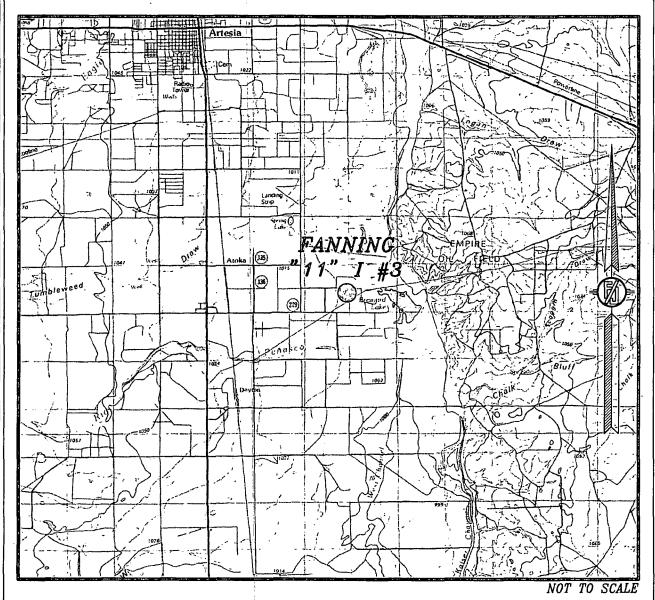
LOCATED 2310 FT. FROM THE SOUTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JULY 20, 2012

SURVEY NO. 1096

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

# SECTION 11, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



LIME ROCK RESOURCES II-A, L.P.

FANNING "11" I #3

LOCATED 2310 FT. FROM THE SOUTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 18 SOUTH,

RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

JULY 20, 2012

SURVEY NO. 1096

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

### Lime Rock Resources II-A Drilling Plan

Fanning 11 I #3 2310' FSL 330' FEL I-S11-T18S-R26E Eddy County, NM

- 1. The elevation of the unprepared ground is 3306.1' 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 4650' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
- 4. Proposed total depth is 4650'.
- 5. Estimated tops of geologic markers:

Quaternary – Alluvium	Surface
Queen	307
Grayburg	727
San Andres	1020
Glorieta	2389
Yeso	2458
Tubb	3950
TD	4650'

6. Estimated depths at which anticipated oil, gas, or other mineral bearing formations are expected to be encountered:

Queen	307
Grayburg	727
San Andres	1020
Glorieta	2389
Yeso	2458
Tubb	3950
,	
TD	4650'

7. Proposed Casing and Cement program is as follows:

Туре	Hole Size	Casing Size	Wt	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	В	Welded	40				Ready Mix
			-							
Surface	12-1/4"	8-5/8"	24	J-55	ST&C	425	300	14.8	1.35	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4650	200	12.8	1.903	35:65 Poz/Cl H w/ 6% Gel, 0.125 lbs/sk Cello Flake, 5 pps LCM-1 and retarder
							710	14.8	1.330	Cl H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel

#### 8. Proposed Mud Program is as follows

Depth	0-425	425-4500	4500-4650
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties			
MW	8.5-9.3	9.8-10-1	9.9-10.2
рН	11	10-11.5	11/12/2012
WL	NC	NC	20-30
Vis	28-35	29-32	32-35
МС	NC	NC	<2
Solids	NC	<1	<3
Pump Rate	300-351	375-425	400-451
Special		Use Poymers sticks and MF-55 Hi-Vis Sweeps as necessary	Hi Vis Sweeps, add acid and starch as req. Raise Vis to 35 for log.

### 9. Pressure Control Equipment: See Attached Description and diagram of Pressure Control Equipment.

#### 10. Testing, Logging and Coring Program

Testing Program: No drill stem tests are anticipated

Electric Logging Program: SGR-DLL-CDL-CNL Quad Combo from 4650 to surf. Csg. SGR-CNL to Surf.

Coring Program: No full or sidewall cores are anticipated.

#### 11. Potential Hazards:

No abnormal temperatures or pressures are expected. There is no known presence of H2S in this 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 2046 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.

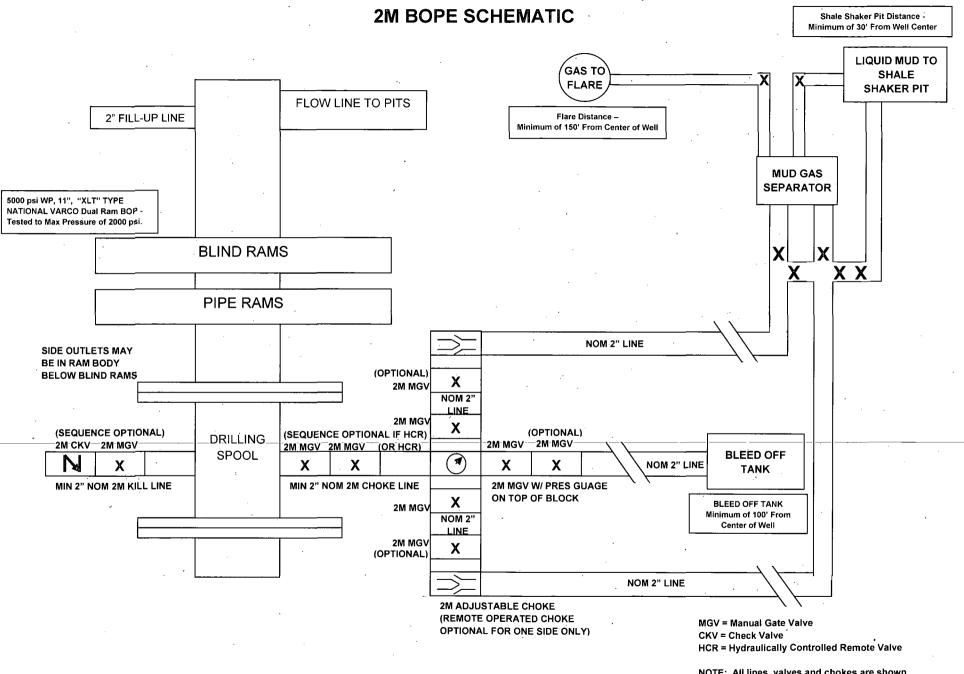
#### **Pressure Control Equipment**

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.



NOTE: All lines, valves and chokes are shown at the minimum size allowed, but may be larger.

#### HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

## Assumed 100 ppm ROE = 3000' 100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

#### **Emergency Procedures**

In the event of a release of gas containing H2S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - o Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

#### Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

#### **Contacting Authorities**

Lime Rock Resources personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Lime Rock Resources response must be in coordination with the State of New México's "Hazardous Materials Emergency Response Plan" (HMER).

#### H<sub>2</sub>S CONTINGENCY PLAN EMERGENCY CONTACTS

713-292-9510

Company Office -Lime Rock Resources

Answering Service	(During Non-Office Hours)	713-292-9555
Key Personnel		
	Title	Phone Number 713-345-2136 Cell: 218-507-038
Richard Ghiselin.	Title Production Engineer	713-345-2136 Cell: 218-507-038
Mike Barrett	Production Supervisor	575-623-8424 Cell: 505-353-264
Ambulance		911
State Police		575-746-2703
City Police		575-746-2703
Sheriff's Office		575-746-9888
Fire Department		5/5-/46-2/01
Local Emergency Pl	anning Committee	575-746-2122
New Mexico Oli Con	servation Division	575-748-1283
Carlsbad		
Ambulance	· · · · · · · · · · · · · · · · · · ·	911
State Police		575-8885-3137
City Police		575-885-2111
Sheritt's Office	· · · · · · · · · · · · · · · · · · ·	
Fire Department	anning Committee	575-887-3798
Local Emergency Pla	anning Committee	575-887-6544
US Bureau of Land N	Management	575-887-6544
New Mexico Emerge 24 Hour	ncy Response Commission (Sa	nta Fe)505-476-9600 505-827-9126
New Mexico State Er	mergency Operations Center	505-827-9126 505-476-9635
National Emergency	Response Center (Washington	, DC)800-424-8802
Other		•••
Boots & Coots IWC_		800-256-9688 or 281-931-8884
Boots & Coots IWC_ Cudd PressureContr Halliburton	OI	915-699-0139 or 915-563-3356
		575-746-2757
B. J. Services	) O4th O4 10-12	575-746-3569
	24th St. Lubbock, Texas	806-743-9911
	19F, Lubbock, Texas	806-747-8923
	- 2301 Yale Blvd SE #D3, Albuq	
S & Air Med Service	– 2505 Clark Carr Loop SE, Alb	uq., NM505-842-4949