District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico **Energy Minerals and Natural Resources**

Form C-101 May 27, 2004

Oil Conservation Division

Submit to appropriate District Office

1220 South St. Francis Dr. MAY - 5 2008

☐ AMENDED REPORT

District IV 1220 S. St. Fr	ancis Dr., S	Santa l	Fe, NM	87505	•	1220 Sa	South anta Fe,	St. Franc , NM 875	UD .	1AY - 5 2008			MENDED REPORT mit renewal request
				•	/ TO DI				0	CD-ARTES N, PLUGBA	ČK, OI		•
			1	Operator Name	and Addres	ss:					RID Numb		
Western Re	serves O	il Co	., Inc.,	Box 993	, Midl	and, TX	7970	9702 30-015 - 76 72 0					>
' Prope	'Property Code Proper						erty Name	e					l No.
36	36339 Lake McM					cMillan '	"21"		10.0		2		
		Fou		oposed Pool 1: Draw; Morrov	v (Gas)					=	osed Pool 2 /ildcat		
						⁷ Surfa	ace Loc	cation					
UL or lot no.	Section 21	l .	ruship 9S	Range 26E	Lot Idn		eet from the 1980		outh line orth	Feet from the 1980	East/Wes Eas	1	County Eddy
		<u> </u>	'	⁸ Propo	sed Botte	om Hole L	ocation	If Differer	t From	Surface		•	· · · · · · · · · · · · · · · · · · ·
UL or lot no	Section	Tow	nship	Range	Lot 1		eet from the		outh line	Feet from the	East/Wes	st line	County
		I			Ad	ditional	Well In	nformation	on		- 		
	Type Code Well			12 Well Type Co	de	13	Cable/Rota R	ary	14	Lease Type Code Fee			nd Level Elevation 3332' GR
	ultiple			17 Proposed Dep	th		18 Formation	n		19 Contractor			Spud Date
N	<u>lo</u>			9800'	т	L	Morrow		W Drilling, Inc.	Inc. 06/01/08			
Depth to Grou	ndwater: 9	0'			1	e from neare: an 1000'	st fresh wa	vater well: Distance from nearest surface water: More than 1000'					iter:
Pit: Liner:	Synthetic	-X - 2	0_mils th	nick Clay	Pit Volu	me:3800_	bbls	Dril	ling Metho	<u>od:</u>			7
Close	d-Loop Sys	tem		21			_		Water X		Oil-based	Ga	s/Air 🗌
		1	,	21	Propos	sed Casir	ng and	Cement	Progra	m I		· · · · · ·	
Hole S		_		g Size	Casing	g weight/foor	t	Setting D		Sacks of Ce			Estimated TOC
17.5		_	-	3/8"	**	48#		350			Surface		
12 1/4			95	5/8"	36#			1400	,	650 s			Surface
8 3/4	,,	<u> </u>	51	/2"	17#			9800'		1450 s	SX .	1200'	
		L			·····			·		<u>. </u>			
Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. Mud Program: 0-350', MW 8.4-9 ppg, fresh water native spud mud. 350-7500' — MW 8.4-8.6 ppg fresh water. 7500-9800' MW 8.3-9.4, cut brine, KCD Polymer. A 3000 psi hydraulic BOP will be utilized. Standard BOP diagram attached. H2S — Will have minimum compliance package set up prior to drill out of 9 5/8" casing. H2S plan attached. Approximately 14-18 days drilling. If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.													
²³ I hereby cer	tify that th	e info	mation	given above is	rue and co	mplete to the	e	· , · · ·	OII C	ONGEDVÄT	ים ואסןי	ivici	ON -
best of my kn	owledge an	id beli to NM	ef. I fur IOCD g	ther certify the uidelines X, a	it the drill	ing pit will	be -	Approved by:					
Printed name:	Ann E. R	ıtchie			Cold	theky	Titl	le:	J.	American Contract of the Contr	Miles.		1
Title: Regula	tory Agent						Ap	proval Date:	re	7-4	May 24	low.	Leon)
E-mail Addre	ss: ann.rite	hie@	wtor.net		···············			116/	9	5/1	5/10)	
Date: 04/24/2008 Phone: 432 684-6381/770-0913					Con	Conditions of Approval Attached							

Western Reserves Oil Company, Inc., Box 993, Midland, TX 79702

Lake McMillan "21", Well #2, Section 21, T19S, R26E, Eddy County, NM Casing details:

13 3/8", 48#, J55 STC @ 350' w/390 sx PP, 10 pps, calseal, Class C, 2% CaCl

9 5/8", 36# J55, STC @ 1400', w/1400 sx Interfill PP and PP w/ I/2# polyflake, 1% CaCl

5 l/2", 17# LTC cement 9800-6000' w/ 300+ sx lite premium w/.6% halad R9, 5# salt, l/8# polyflake + 500+ sx. Cement 6000-1200' 900 sx PP lite w/5% salt .6% halad 9, 1/8# polyflake _ 100 sx PP cement; plug down and tool close w/3000 psi.

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 S. St. Francis dr., Santa Fe, NM 87505	WELL LOCATION AND	ACREAGE DEDICATION PLAT	☐ AMENDED REPORT
API Number 30-615-	Pool Code 76960	Four Mile Draw, Morrow	(Gas)
Property Code 36339		operty Name CMILLAN 21	Well Number
OGRID No. 024987	•	erator Name ES OIL COMPANY, INC.	Elevation 3332'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	21	19-S	26-E		1980	NORTH	1980	EAST	EDDY	

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	1	r Infill	Consolidation	Code Or	der No.	1	<u> </u>	<u> </u>	

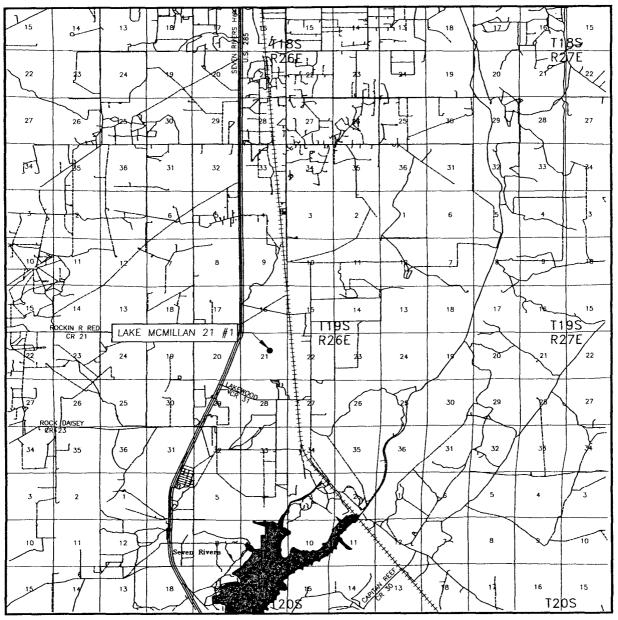
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE	IE DIVISION
GEODETIC COORDINATES NAD 27 NME Y=599331.5 N X=484373.6 E LAT.=32.647654* N LONG.=104.384102* W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Light A. Signature SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. APRIL 4, 2008 Date Surveyed AR Signature & Seal of Professional Surveyor APRIL 4, 2008 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239

SECTION 21, TOWNSHIP 19 S	OUTH, RANG	E 26 EAS	T, N.M.P.M.,
	600'		
0	o' NORTH DFFSET 332.2' □		можн
OFFSET 3332.6' ELEV LAT.=32	MILLAN 21 #2 C. 3331.9' 2.647654° N 04.384102° W	150' EAST OFFSET 3331.4'	,009
3.	' SOUTH IFFSET 332.0'		
DIRECTIONS TO LOCATION FROM THE INTERSECTION OF U.S. HWY. #285 AND CO. RD. #31 (LAKE WOOD), GO NORTHEAST ON U.S. HWY. #285 APPROX. 1.0 MILE. TURN RIGHT AND GO EAST APPROX. 200 FEET TO LOCKED GATE (COMB. 5533). CONTINUE EAST APPROX. 0.4 MILES TO LAKE MCMILLAN "21" #1 WELL. THIS LOCATION IS APPROX. 1866 FEET SOUTHEAST.		0 100 Scale:1"=100' SERVES OIL E MCMILLAN 21 #2	COMPANY, INC.
PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117	LOCATED 19 AND 1980 FEET TOWNSHIP 19	180 FEET FROM THE FROM THE EAST LINE SOUTH, RANGE 26 LOY COUNTY, NEW ME) 108 Sheet 10492 Dr By: AR	NORTH LINE E OF SECTION 21, EAST, NMPM.,

VICINITY MAP



SCALE: 1" = 2 MILES

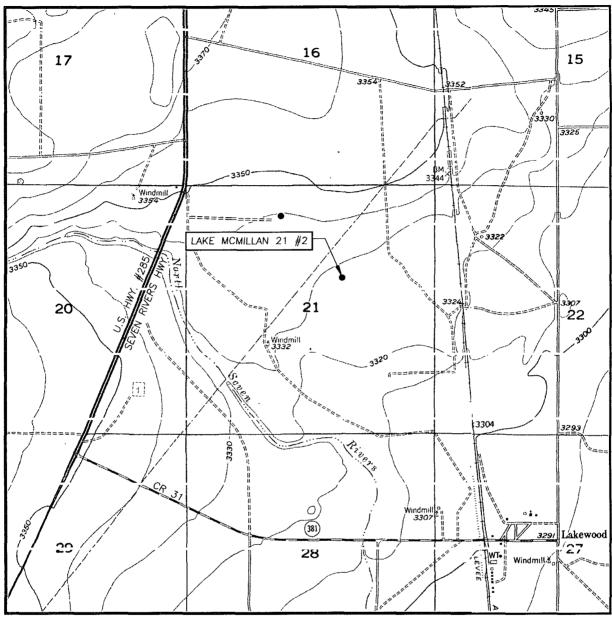
SEC. 21	ГWP. <u>19</u>	<u>–S</u> RGE	. <u>26-</u>	·E
SURVEY	N	<u> І.М.Р.М.</u>		
COUNTYE	DDY :	STATE_ <u>N</u>	EW M	EXICO
DESCRIPTION	1 <u>1980'</u>	FNL &	1980	' FEL
ELEVATION_		3332'		
OPERATOR_	WEST OIL	ERN RE COMPAN	SERVE Y, INC	S
I FASE	AKE M	ICMILL AN	21	



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

DAYTON, N.M.

CONTOUR INTERVAL: DAYTON, N.M. - 10'

SEC. 21 TWP. 19—S RGE. 26—E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 1980' FEL

ELEVATION 3332'

WESTERN RESERVES
OPERATOR OIL COMPANY, INC.

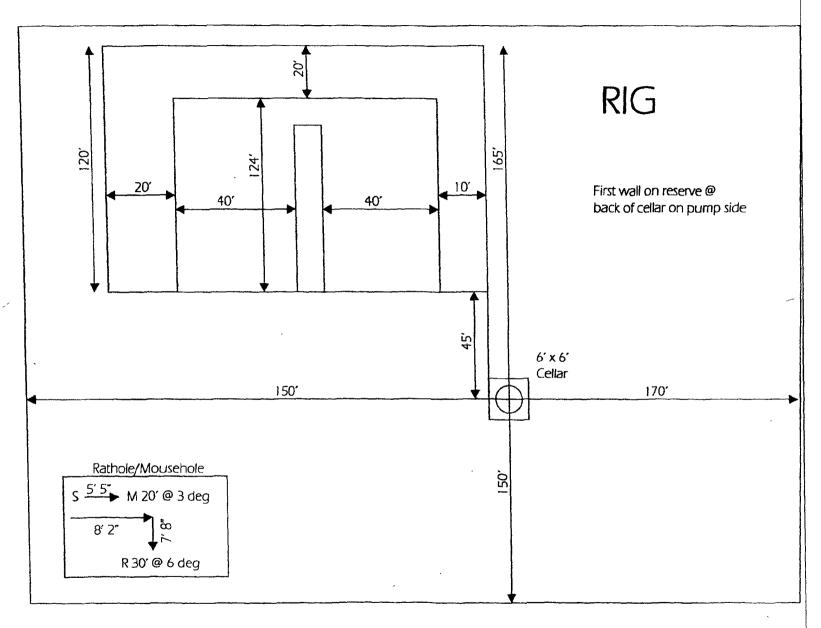
LEASE LAKE MCMILLAN 21

U.S.G.S. TOPOGRAPHIC MAP



PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



Western Reserves Oil Company, Inc.

Kill Line Adjustable Choke Adjustable Choke Flow Line 2" Line to Pit 2" Line to Pit 4" Line to Pit

3000 psi Working Pressure BOPE Configuration And Choke Manifold

Exhibit "___"

Hydrogen Sulfide Drilling Operations Plan

For

Western Reserves Oil Co., Inc. Eddy County, New Mexico

ONE: Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted or employed on an unscheduled basis has or will receive training from qualified instructors in the following areas prior to working on the drilling operations on this well:

The hazards & characteristics of H2S

The proper use & maintenance of personal protective equipment and Life support systems;

The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures & prevailing winds; and,

The proper techniques of first aid and rescue contact procedures

In addition, the supervisory personnel will be trained in the following areas:

The effects of H2S on metel components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.

Corrective action an shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.

The contents and requirements of the H2S Drilling Operations Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500') and periodic H2S and well control drills for all personnel in each crew. The initial training session should include a review of the site specific Drilling Operations Plan. This plan is to be available at the well site.

TWO: H2S Safety Equipment and Systems

NOTE: All H2S safety equipment and systems will be installed, tested and operational when drilling reaches a depth of 500 feet above, or three days prior to penetration of a known zone containing or reasonably expected to contain H2S.

1. Well Control Equipment:

Flare line with flare igniter;

Choke manifold with one remote hydraulic choke installed; Blind rams & pipe rams to accommodate all pipe sizes with properly sized closing unit;

Auxiliary equipment to include an Annular Preventer.

Western Reserves Oil Co., Inc. P.O. Box 993, Midland, TX 79702

Hydrogen Sulfide (H2S) Contingency Plan

For

Lake McMillan "21", Well #2
Section 21, T95, R26E
1980' FNL and 1980' FEL (G)

Eddy County, New Mexico

Items: Preface Location Map Rig Sketch Emergency Response Activation and General Responsibilities Specific Emergency Guidance: H2S Release and Well Control Public Relations Phone Contacts for emergency personnel Phone Contacts for Western Reserves Oil Company, Inc.

Preface:

An effective and viable Contingency Plan is intended to provide prior planning and guidance in responding to emergency incidents. The primary considerations in its development is the protection of personnel, the public, company and public property, and the environment.

Although the plan addresses varied emergency situations which may occur, it recognizes that flexibility and the use of the operator, contractors and public service knowledge and experience is critical to safe resolution of emergency incidents. Response actions outlined in the plan provide a framework, which may be placed into operation without confusion. These actions should promote quick and decisive actions during the critical initial period and immediately following an emergency. As the response progresses, additional guidelines and procedures will occur to properly implement and address the emergency situation. All emergency incidents must be properly reported by Western Reserves Oil Company, Inc., policy, abiding by all state and federal agency requirements.

This Contingency Plan is intended for use on the Western Reserves Oil Company, Inc. drilling, downhole and surface projects associated with the drilling and production of oil and/or gas, and the operations within their area of responsibility.

A copy of this Contingency Plan is to be maintained in the drilling dog house, rig managers trailer, and with the company representative at all times.

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBLITIES

Activation of the Emergency Action Plan:

In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections as specified under "Well Control" within this document for further responsibilities:

- 1. Notify the senior ranking contract representative on site.
- 2. Notify Western Reserves Oil Company, Inc. (Western Reserves) representative in charge.
- 3. Notify civil authorities if the Western Reserves representative cannot be contacted and the situation dictates.
- 4. Perform rescue and first aid as required, without harm to additional personnel.

General Responsibilities:

Operations Specialist: The Western Reserves drilling/well servicing supervisor or contract supervisory personnel will serve as Operations Chief Officer for all emergency incidents. The Operations Chief Officer is responsible for:

- 1. Notification to the downhole/drilling supervisor for the company and rig of the incident occurrence.
- 2. Notification to the onsite Western Reserves representative to lead the emergency response notification to area emergency responders and establish situational control and restore operations to a non-emergency state.
- 3. The Incident Commander shall be the Western Reserves drilling supervisor on site, who will serve s the overall Incident Commander for the drilling, downhole or critical well servicing emergency incident. He/she is responsible for:
 - a. Coordinating with downhole service personnel for notification to all Western Reserves personnel and their representatives.
 - b. Establishing and managing the overall incident command structure and response from inception through restoration of normal activities on location and in the area.

Contract Drilling Personnel will immediately report to their assigned stations and perform their duties as outlined in the appropriate *Specific Emergency Guidance* section within this report.

Other Contractor Personnel will report to the safe briefing area to assist Western Reserves personnel and civil authorities as requested when it is safe to so do and if they have been adequately trained in their assigned duties.

Civil Authorities: Law Enforcement, Fire and EMS will be responsible for:

- 1. Establishing membership in the unified incident command.
- 2. As directed by the site supervisor and as directed by civil procedure, control site access, re-route traffic, and provide escort services for response personnel.
- 3. Perform all fire control activities in coordination with the site command.
- 4. Initiate public evacuation plans as instructed by the site command.

- 5. Perform rescue or recovery activities with coordination from the site command.
- 6. Provide medical assistance as dictated by the situation at hand.

H2S Release:

The following procedures and responsibilities will be implemented on activation of the H2S siren and lights.

All Personnel:

1. On alarm, put on escape unit (as available) and report to upwind briefing area.

Rig Manager/Tool Pusher:

- 1. Check that all personnel are accounted for and their condition.
- 2. Administer or arrange for first aid treatment and/or call EMTs as needed.
- 3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
- 4. Notify Contractor management and the Western Reserves representative(s).
- 5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

Two People Responsible for Shut-in and Rescue:

- 1. Put on SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
- 2. Utilize the buddy system to secure well and perform rescue(s).
- 3. Return to the briefing area and stand by for further instructions.

All Other Personnel:

1. Isolate the area and prevent entry by other persons into the 100 ppm radius of exposure (ROE). Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

Rubicon Representative(s):

- Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
- 2. Notify all operations representatives, H2S response representatives, police, fire department and other local emergency services, as required.

Training:

There will be an initial training session prior to encountering a known or Probable H2S zone (within 3 days or 500 ft.) and weekly H2S and well

Control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Contingency Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received proper training.

Ignition of Gas Source:

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO2). Intentional ignition must be coordinated with the New Mexico Oil Conservation Division (NMOCD) and local officials. Additionally the New Mexico State Police shall be the Incident Command of any major release. Ignition of the well will be with the concurrence of the drilling supervisor and the Western Reserves supervisor as time allows.

Characteristics of H2S and SO2:

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydorgen Sulfide	H2S	1.189 Air=1	10 ppm	100 ppm	600 ppm
Sulfur Dioxide	S02	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities:

Western Reserves personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the NMOCD 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. The following call list of essential and potential responders has been prepared for use during a release. This response plan must be in coordination with the State of New Mexico's Hazardous Materials Emergency Response Plan (HMER).

Rick Graham: (432) 553-0176 will be the 24 contact and onsite operations manager.

Chris Renaud: (432) 682-4782 – company representative/operator

Emergency Notification Numbers

New Mexico State Police	Artesia	505/746-2704
New Mexico State Police	Carlsbad	505/88 5-3137
New Mexico State Police	Hobbs	505/392-5588
Eddy County Sheriff's Office	Artesia	505/746-2704
Eddy County Sheriff's Office	Carlsbad	505/887-7551
Lea County Sheriff's Office	Hobbs	505/393-2515
Local Emergency Planning Center	Eddy County	505/887-9511
Local Emergency Planning Center	Lea County	505/397-9231
New Mexico Oil & Gas Commission	Artesia	505/748-1283
New Mexico Oil & Gas Commission	Hobbs	505/393-6161
NM Emergency Response Center	Hobbs	505/827-9222
Fire Fighting, Rescue, Ambulance,	Artesia	911
Police		
Fire Fighting, Rescue, Ambulance, Police	Carlsbad	911
Fire Fighting, Rescue, Ambulance,	Hobbs	911
Police	Lubbock	806/743-9911
Flight For Life		806/7478923
Aerocare	Lubbock	
Med Flight Air Ambulance	Albuquerque	505/842-4433