Form C-101 May 27, 2004

ailed closure plan must be filed before closure may commence.

As a condition of approval, if during construction water is encountered or if water seeps in pits after construction the OCD MUST BE CONTACTED IMMEDIATELY:

VITNESS CEMENTING OF
SURFACE & INTERMEDIATE
CASING RECEIVED

APPL	<u>ICATI</u>	<u>ON FOI</u>	R PERMIT			RE-ENTI	ER, DI	EEPEN	N, PI			APR 1 % 2005
			Operator Name Pure Resource	es, L. P.	SS				150628		$-\alpha$ c	
			500 W. Ill Midland, Tex	linois as 79701					30-015	API N	univer	9-ANTESIA
3 Prope	rty Code	T			Prop	perty Name			100 013	1	We	ll No.
32	891				M	1EAD_				<u> </u>		7
Carlsbad;	Morrow,		Proposed Pool 1 Pro Gas) 73966)			ł .	-	-	•		nsil Dam; Atoka
					⁷ Surfa	ace Locat	ion					
UL or lot no.	Section 8	Township 22S	Range 27E	Lot I		Feet from the	North/S	outh line	Feet from the 1,980	East/Wes		County EDDY
			8 Propo	sed Botto	om Hole L	ocation If	Differer	nt From	Surface	'		
UL or lot no.	Section	Township	Range	Lot I		Feet from the		outh line	Feet from the	East/Wes	st line	County
			1	Ad	ditional	Well Infe	ormati	on				
	Type Code N		12 Well Type Cod G	de	13	Cable/Rotary R		14	Lease Type Code P			und Level Elevation 3,106'
	Iultiple No		¹⁷ Proposed Dep 12,000'	th		¹⁸ Formation Morrow			19 Contractor Nabors			²⁰ Spud Date hen Approved
Depth to Grou	~23' a	vg (in S/2 of				est fresh water	>1,0		Distance fro	m nearest su	ırface w	vater >1,000'
_	: Synthetic		nils thick Clay	☐ Pit V	olume: 2000	bbls		rillin <u>g Me</u> resh Water	thod: Brine 🔯 D	iesel/Oil-bas	sed 🗆	Gas/Air 🗍
30	Poin	-	21	Propos	ed Casii	ng and Co						
Hole S	Size	Cas	sing Size	Casing	g weight/foo	ot	Setting D	epth	Sacks of C	ement		Estimated TOC
17-1/	2"	1:	3-3/8"	48	# H-40		375'		400			Surface
12-1/	/4"	9)-5/8"	36	6# J-55		1,850) '	1,20	0		Surface
8-3/4	4"		7"	23#	P-110 HC		8,900) '	880			1,700'
6-1/8	8"	4-1/	2" Liner	11.6	P-110 HC		12,00	0'	315	<u></u>	Lin	er fully cemented.
22 De	escribe the	proposed pro	l	olication is	to DEEPEN	N or PLUG B	ACK, giv	e the data	on the present pro	ductive zone	e and p	roposed new
Pure Resou we plan to 1) Drill a 1' 2) Drill a 12 3) Drill a 3 4) Drill a 6 5) Perforat	oductive zo trces, L. P dedicate a 7-1/2" hol 2-1/4" hol 8-3/4" hol 6-1/8" hol e & treat	ne. Describ respectfu standup 3 e to 375', e to 1,850' e to 8,900' e to 12,000 well in Mo	the blowout presently submits this 320 acre (E/2 Serun & set 13-3/2, run & set 9-5/2, run & set 4-prrow zone. If	s applica ec. 8) pro 8" 48# H /8" 36# J 23# P-110 1/2" line this zone	ogram, if an tion to dril ration uni -40 csg. w. -55 csg. w. 0 csg. w/88 r from 8,70 is not vial	y. Use additi II & comple it to this we /400 sx Cla /580sx Class 80sx Class ' 00'-12,000' ble, then at	onal shee te a 12, II. Prop ss "C" c ss "C" c th" cmt w/315s; tempt up	on the cest of the	sary. rrow gas well. ' Illing plan as fol ditives, circ. to s ditives, circ. to s ives, circ. cmt. t H" cmt. + addit -completions in	This well's lows: surface. surface. to +/- 1,700 tives. Fully Strawn &	s locat 0'. y ceme	ion is standard & ent liner. a and Wolfcamp.
plats/maps/	water we	li maps &	info as availab	le from S	tate Engin	ieers web si	d drilli e. Con	ng site la tingency	yout plat. Also & Emergency	see attach Response	red C- Plans	102 attached.
best of my kn	owledge an	nd belief. I f	on given above is to urther certify the guidelines \boxtimes , a	at the drill	ing pit will	be be	1 0	OIL C	CONSERVA	TION D	IVIS	ION
			proved plan .	general p	~	Appro	oved by:			1 W. G		
Printed name	: Alan W.	Bohling /	leanto B	ollm	g	Title:			DISTRICT	II SUF	PER'	
Title: Regula	tory Agent				<u>'</u>	Appro	val Date	APR 1	. 8 2005 1	Expiration I	Date:	APR 1 8 2006
E-mail Addre	ess: abohlir	ng@purereso	ources.com					<u>-</u>	. ~ 2003			
Date: 04/08/2	2005		Phone: (432)	498-8662		Condi	tions of A	pproval A	ttached			

Racrgy, Minerals and Natural Resources Department

ISTRICT II

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410 Santa Fe, New Mexico 87505

DISTRICT IV 1220 S. St. FRANCE DR., SANTA PR. HM 87505	WELL LOCATION AND	AMENDED REPORT	
API Number	73960	o Gas)	
Property Code 32891	Pr	Well Number	
OCRID No. 150628		erator Name ESOURCES, L.P.	Elevation 3106'

Surface Location

UL or lot No. Section	n Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Vest line	County
B 8	22-S	27-E	,	1080	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County
	Dedicated Acres	Joint or	Infill Co	nsolidation (Code On	der No.		_		•
1	320			•						

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

OR A NON-STANI	DARD UNIT HAS BEI	EN APPROVED BY TH	B DIVISION
	1080,	1980'	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Manh Bolling Signature
			Alan W. Bohling Printed Name Regulatory Agent Title 12/29/2004 Date SURVEYOR CERTIFICATION
 GEODETIC CC NAD 27 Y=51349 X=5383	' NME 97.7 N		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 supervison, and that the same is true and correct to the best of my belief.
£AT.=32°24 LONG.=104°1			SEPTEMBER 2, 2004 Date Surprise JR Signature & Sept 2004 Date Surprise JR Signature & Sept 2004 Date Surprise JR Professional MEXICO DATE SURPRISE JOY Certain Sept 2004 12641

DISTRICT H 1301 V. GRAND AVENUR, ARTESIA, HY 88210

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Bio Brazos Rd., Axtec, NM 87410

OIL	CON	SEI	KVA.	LION .	DIVISION	4.
	1220	SOUT	TH ST	. FRANC	CIS DR.	
				Mexico		

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA PR., HE S750	well location and	WELL LOCATION AND ACREAGE DEDICATION PLAT					
API Number	Pool Code	·	Pool Name				
	74120	Carlsbad; Strawn,	South (Gas)				
Property Code 32891		erty Name (EAD		Well Number 7			
9CRID No. 150628		ator Name SOURCES, L.P.		Elevation 3106			

.	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	В	8	22 - S	27-E		1080	NORTH	1980	EAST	EDDY
				Bottom	Hole Loc	ation If Diffe	erent From Sur	face		
.4	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rost/Vest line	County

Surface Location

Dedicated Acres Joint or Infill Consolidation Code Order No.	UL or lot No.	Section 1	ľo vnshi p	Range	Lot ldn	Feet from the	North/South line	Feet from the	Bast/West line	County
Dedicated Acres Joint or Infill Consolidation Code Order No.			44							
320	Dedicated Acres	Joint or	Infill Co	noitabiloe	Code Or	der No.	<u> </u>		•	-
	.320					•				

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

	1080′	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and betief.
	1980'	Aland Bohling
		Alan W. Bohling Printed Name
		Regulatory Agent nue 12/29/2004
		SURVEYOR CERTIFICATION
NAD 2	OORDINATES 7 NME	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 supervison, and that the same is true and
X=538. EAT.=322	375.3 E 4'41.97" N	correct to the best of my belief.
LONG.=104*	12'32.33" W	Date Surgestion JR Signature & See OS Profesional Surveyor Barry & See OS Party See OS 11116
		Certain So. CARY EDGA 12841

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. CRAND AVENUR, ARTESIA, NIK 58210

DISTRICT III

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NH 87410

DIDIRICI IV 1220 S. ST. FRANCES DR., SANTA FE, NR. 8750	WELL LOCATION AND	ACREAGE DEDICATION PLAT	☐ AMENDED REPORT
API Number	Pool Code	Pool Name	
·	85900	Tansil Dam; Atoka (Gas)	
Property Code	Pro	operty Name	Vell Number
32891		MEAD	7
OGRID No.		erator Name	Elevation
150628	PURE RE	SOURCES, L.P.	3106'

Surface Location

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County
	В	8	22-S	27-E		1080	NORTH	1980	EAST	EDDY
•										

Bottom Hole Location If Different From Surface

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County
	Dedicated Acres	Joint o	er Infill C	onsolidation	Code Or	der No.				
-	320	<u> </u>								

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

OR A NON-STANDARD UNIT HAS BEEN APPROVED E	BY THE DIVISION
THE RESIDENCE OF THE PARTY OF T	anna
1080,	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
1980'	Oland Bohling
	Alan W. Bohling Printed Name Regulatory Agent Title 12/29/2004 Date
GEODETIC COORDINATES NAD 27 NME	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of
Y=513497.7 N X=538375.3 E	actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.
EAT.=32"24'41.97" N LONG.=104"12'32.33" W	SEPTEMBER 2, 2004 Date Surgery January JR Signatura & Sept Of Surgery January Januar

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 2003 Submit to Appropriate District Office

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Axtec, NN 87410

DISTRICT II

Santa Fe, New Mexico 87505 DISTRICT III

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. PRANCES DR., SANTA PR. IRI 87505 Pool Code API Number Wildcat; Wolfcamp Well Number Property Code Property Name MEAD 32891 OGRID No. Operator Name Elevation PURE RESOURCES, L.P. 150628 3106

Surface Location

. 1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	В	8	22-S	27-E		1080	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

	UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	Rest/West line	County
-	Dedicated Acres	Joint o	r Infill Co		ode Ore	ler No.				
-	320			antigas Ligaresa (h. 1				•		

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

OR A NON-STAN	DARD UNIT HAS BEEN APPROVED BY	THE DIVISION
	1980	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and bettef. Alank. Bohlma
		Alan W. Bohling Printed Name Regulatory Agent Title 12/29/2004 Date
GEODETIC CC NAD 27 Y=5134 X=5383 ŁAT.=32*24 LONG.=104*1	7 NME 97.7 N 75.3 E '41.97" N	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 supervison and that the same is true and correct to the best of my belief. SEPTEMBER 2, 2004 Date Surveys Hilling JR
		Professional Surveyor May 04 Professional Surveyor May 04 ALV 11160 Certain So. CARY ROSSION 12841

Supplemental Information Operational Procedures 04/08/2005

Well: MEAD #7

Section 8 - T22S - R27E 1,080' FNL & 1,980' FEL Eddy County, New Mexico

1. Drilling Contractor: Nabors Drilling USA, Rig #715

2. Well Control Equipment: (Attachment "B" – BOPE Schematic)

- 2.1. The equipment represented by the attached schematic, a 135/8" 10,000 psi WP BOP stack, will be installed prior to drilling out the 133/8" surface casing shoe and will be the BOPE utilized throughout the remainder of the drilling operations.
- 2.2. The accumulator system controlling BOPE functions will be capable of closing each ram type preventer and the annular preventer within 30 seconds.
- 2.3. Upon installation of the BOPE to the 133/8" casing set at 375', the casing and BOP will be pressure tested to 500 psi, using rig pumps, before drilling the casing shoe. Upper and lower kelly cocks and safety valves with subs to fit all drill string connections in use will be available on the rig floor and will also undergo pressure testing. A Rotating Head will be in-place but the rubber will not be installed until well conditions dictate its use.
- 2.4. Upon installation of the BOPE to the 95/8" intermediate casing set @ 1850', the BOP, HCR valve, choke manifold, upper and lower kelly cocks, and safety valves will be pressure tested by a third party contractor to 3000 psi (high) and 250 psi (low). The annular preventer will be tested to 1500 psi. The third party contractor will also test the accumulator system performance to assure that it is functioning within specifications. The 95/8" casing will be tested, using rig pumps, to 1500 psi prior to drilling the shoe.
- 2.5. The open-ended vent line from the choke manifold will be constructed of 4½" drill pipe and connections will be strap-welded to prevent separation. The mud-gas separator will be installed after setting the surface casing and will be fully operable prior to drilling below the 95/8" intermediate casing. The flare line from the separator will be constructed of 8" flanged pipe and the vent and flare lines will be secured in place with drilled anchors and steel cabling.
- 2.6. Upon installation of the BOPE to the 7" intermediate/production casing set at approximately 8900' md (±200' below the top of Wolfcamp), the BOP, HCR valve, choke manifold, upper and lower kelly cocks and safety valves will be pressure tested by a third party contractor to 5000 psi (high) and 250 psi (low). The annular preventer will be tested to 1500 psi. Prior to drilling the 7" shoe, the casing will be tested to 3000 psi. The third party contractor will also test the accumulator system performance to assure that it is functioning within specifications.

- 2.7. Subsequent pressure testing of the BOPE after setting the 7" casing will be done at two week intervals; test procedures will be the same as those listed in Paragraph 2.6 above.
- 2.8. In addition to the aforementioned testing, functional tests of all equipment will be performed as follows:
 - 2.8.1. Operator's supervisor will conduct daily BOP drills with rig crews; during these drills, the accumulator system, pipe rams, HCR valve and the remote adjustable and manual chokes will be operated to assure proper mechanical functioning. Any problems will be immediately resolved and drilling operations will not proceed until equipment is in proper working order.
 - 2.8.2. The annular preventer will be functionally tested on a weekly basis and the blind rams will be functionally tested after each trip out of the hole during drilling operations.
- 2.9. A wireline lubricator and/or "pack-off" system of sufficient length to pull all tools from the hole and allow the well to be safely shut-in will be utilized during open hole logging operations.

3. Well Monitoring:

- 3.1. The PVT, Flow Indicator, Pump Stroke Counter and H₂S sensor equipment will be installed and operational prior to spudding the well. The PVT will be utilized when circulation is maintained in the steel pits, which will be the case when prospective hydrocarbon bearing zones are penetrated below the 7" casing depth. Any malfunctioning equipment will be repaired or replaced ASAP.
- 3.2. A Mud Logging Unit will be operational prior to drilling the 95/8" casing shoe at 1800'. The Mud Logger will provide the Operator and Rig supervisors with data regarding formation tops and porosity / permeability of penetrated zones and cuttings analysis, which may forewarn of potential problems. The Mud Logger will record and report relative gas influx ("background gas") into the mud stream while drilling ahead and also "connection gas" and "trip gas". This data will aid supervisors in making decisions regarding mud weight increases.
- 3.3. Trip tanks shall be used each time that trips are made after setting surface casing. Displacement volumes shall be accurately recorded on a *Trip Sheet* and compared to theoretical volumes to timely warn of potential problems due to influx of formation fluids or gas into the wellbore.
- 3.4. When the drill string is out of the hole for open hole logging, a rig crew member will be assigned to visually monitor the mud pits and flow line for indications of influx of formations fluids / gas into the wellbore; the PVT will remain in service and this visual monitoring is an added precaution.

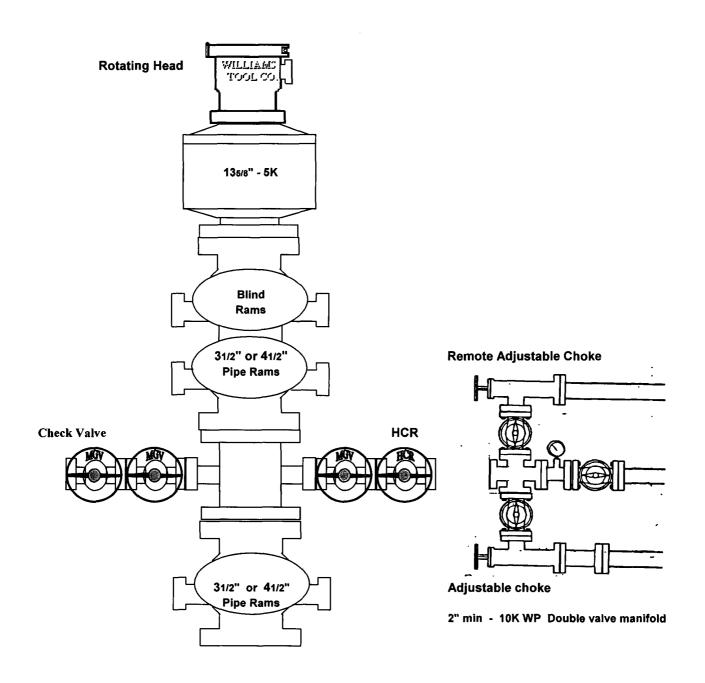
4. Contingency Planning / Safety

- 4.1. An Emergency Response Plan (Attachment "C") and a H₂S Contingency Plan (Attachment "D") will be in place upon commencement of operations. All Operator and Rig personnel will be trained in the plans' objectives and their specific responsibilities should the plans be implemented.
- 4.2. Safety meetings will be held on a regular basis and prior to any non-routine activities or prior to a significant operation, such as running casing, nippling-up BOPE, open hole logging, etc.
- 4.3. Local law enforcement and emergency response personnel will be apprised of upcoming operations and will be involved in coordinating any emergency response involving the public.

5. Nearest Resident:

The distance from this well to the nearest residence is approximately 3,100'.

1,080' FNL and 1,980' FEL Section 18 - T22S - R27E Eddy County, New Mexico



Casing/Cement and Mud Program Sheet

MEAD #7 API No.

1,080' FNL & 1,980' FEL UL B, Sec. 8, T-22-S, R-27-E Eddy County, New Mexico

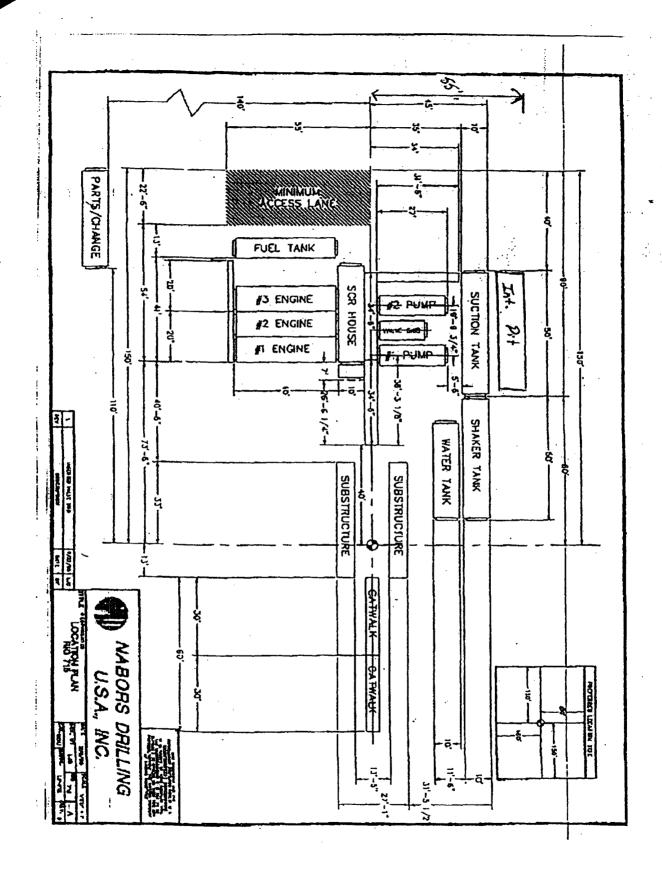
Proposed Casing and Cement Program:

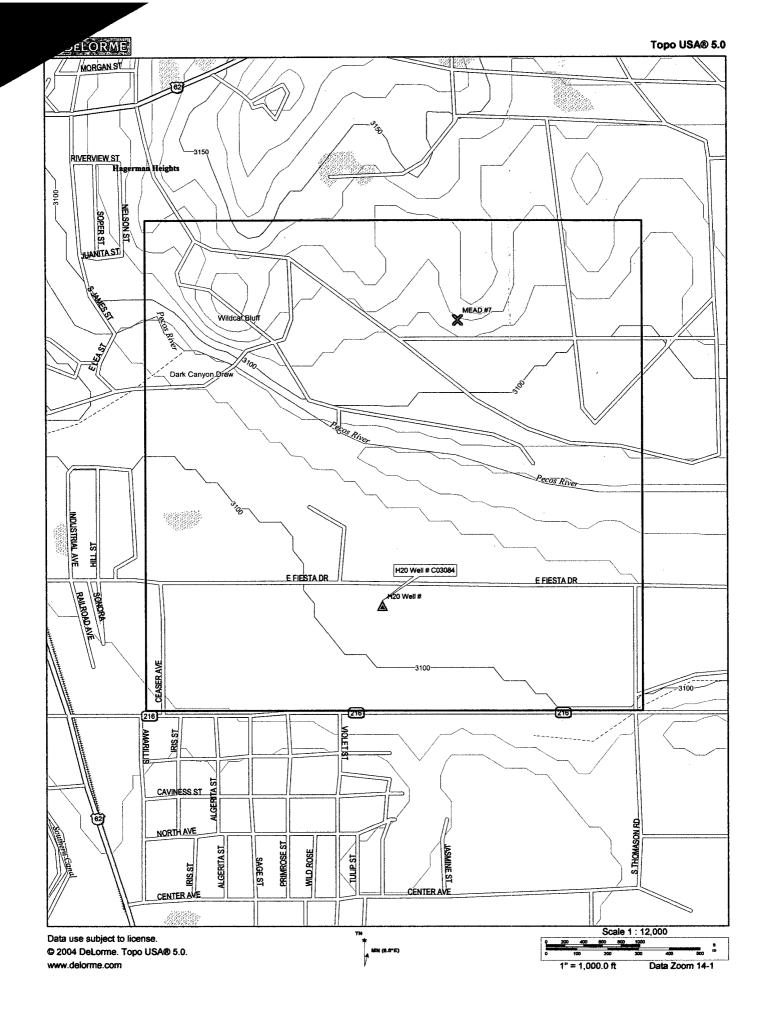
Hole Size	Casing Size	Wt #/ft	Grade	Connect	Setting Depth	Cement Volume	Estimated TOC
17-1/2"	13-3/8"	48	H-40	STC	375'	400 sx	Surface
			100 444		. 213		
12-1/4"	9-5/8"	36	J-55	STC	1,850'	580 sx	Surface
			7.75				
8-3//4"	7"	23	P110HC	LTC	8,900'	880 sx	1,700'
$-\mathbf{A}_{e}$		1000 W		大寶 海			
6-1/8"	4-1/2" Liner	11.6	P110HC	LTC	8,700'-12,000'	315 sx	Linner will be fully cemented with cmt. across lap into 7" Csg.
4.4		XVIII TO THE REPORT OF THE PERSON OF THE PER	gardina di			1000	

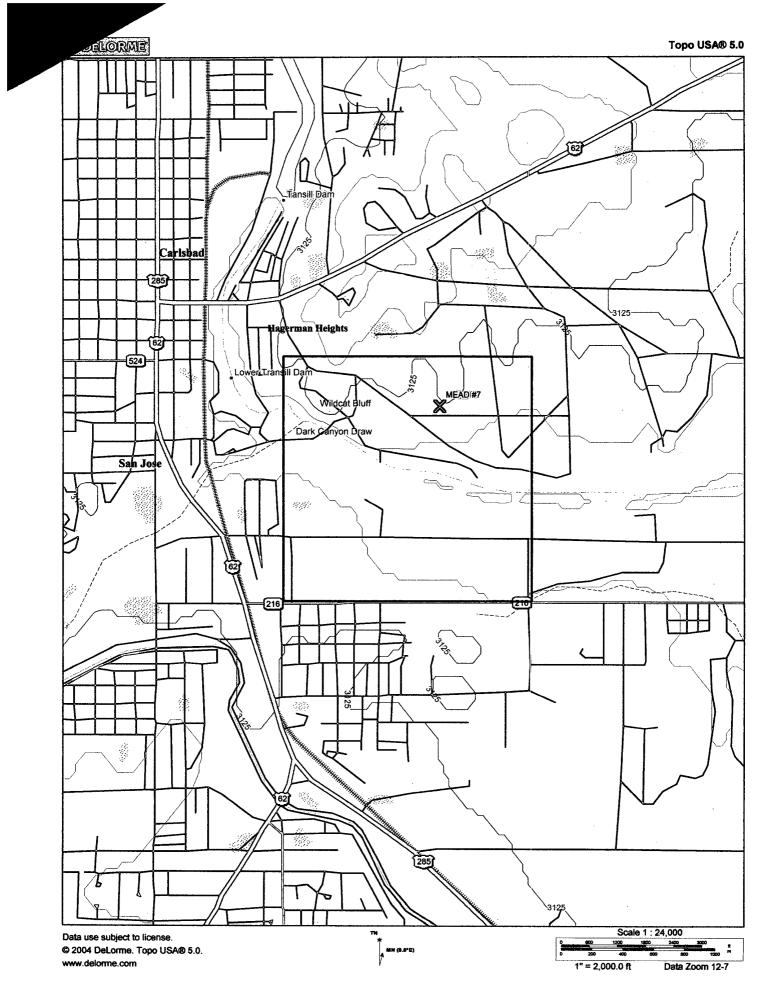
Note: 7" Intermediat Casing depth may be adjusted per drilling results-intent is to set at the top of the Wolfcamp zone, which will be determined by mud logging as drilling progresses.

Propose Mud Program

Interval	Туре	Weight
0' - 400'	FW / Spud Mud	8.4 - 9.0
1246		
400' - 1,800'	FW w/ LCM as needed	8.4 - 9.0
1,800' - 8,900'	FW w/ LCM as needed	8.4 - 9.2
A Paris Communication of the C	TO STANLE ST	
8,900' - 12,000'	Brine	9.8 - 11.0
	35+ vis, FL 6-8 across zones of interest	

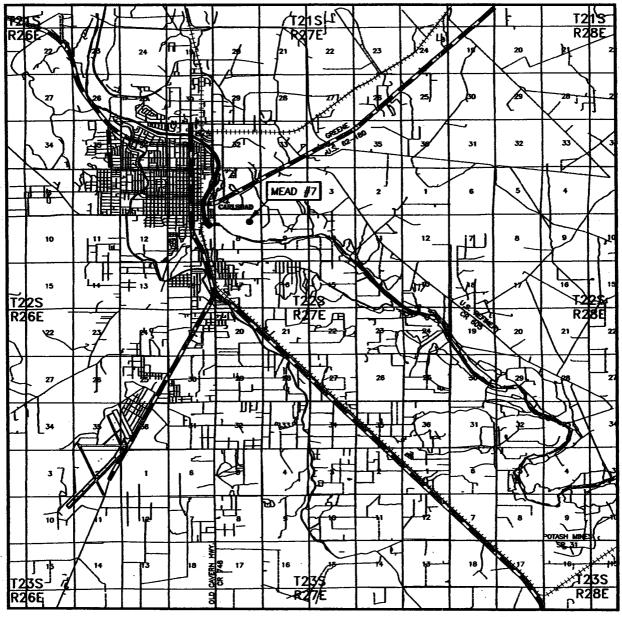






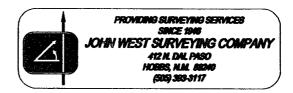
EDDY C	OUNTY,	<i>22 SOU</i>	JTH, R	PANC	GE 27	'EA.		M.P.M., MEXICO
		60	ю,					
		150' N OFF 311	IORTH SET 7.4'					norm
,009	150' WEST OFFSET □ 3104.5'	MEAL ELEV. LAT.=32°2- LONG.=104°) 3105.5' 4'41. 97" N		□ 0	O' ÉAST FFSET 109.0'		,009
		150° : OFF 310	SOUTH					
DIRECTIONS TO	O LOCATION				<u> </u>	<u></u>		
AND CO. RD. ON U.S. HWY. TO A CALICHE (SOUTH) AND TURN RIGHT (MILES. TURN	TERSECTION OF U.S. HWY. (#605 (U.S. REFINERY RD.) 62-180 FOR APPROX. 0.7 ROAD ON THE LEFT. TURN GO SE FOR APPROX. 0.3 (SOUTH) AND GO APPROX OF RIGHT (WEST) AND GO APP	GO SW 75 MILES I LEFT MILES. 0.15 ROX. 0.1	100 H H	вн	0 H Scale:	1 = 100	100	200 Feet
MILES. TURN TURN LEFT (S	LEFT (SOUTH) AND GO APP RIGHT (WEST) AND GO APP SOUTH) ON P/L ROAD AND	ROX. 62'. GO		PUR	PE RES	SOUI	RCES,	L.P.
	MILES. PROPOSED LOCATION MILES WEST. PROVIDING SURVEYING SERVICE SINCE 1998	3	AND:	1980 F WNSHIP) 1080 FEET EET FROM 1	HE EAST RANGE	THE NORTH I LINE OF SE 27 EAST, N.I	ECTION 8,
	JOHN WEST SURVEYING COM 412 N. DNL PNSO		Survey Date		/2/04	Shee		
	HOBBS, M.M. 88240 (505) 383-3117		W.O. Numb Date: 09/3			or By:	<i>J.R.</i> 14111116	Rev 1:N/A Scale:1"=100'
			Date: 09/3	/ 04	Disk: CD#1	UU	4111110	Scale: 1 = 100

VICINITY MAP



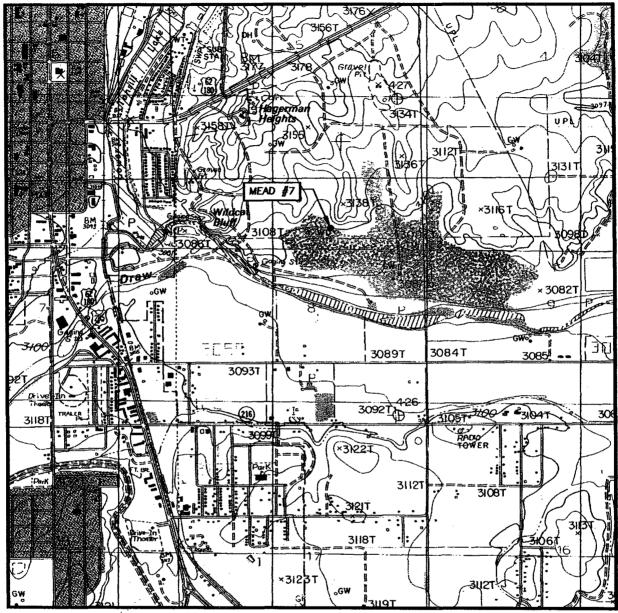
SCALE: 1" = 2 MILES

SEC. 8T	VP. <u>22-S</u> RGE. <u>27-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1080' FNL & 1980' FEL
	3106'
	PURE RESOURCES, L.P.
I FASE	MFAD





LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: CARLSBAD EAST, N.M. - 10'

SEC. 8 TV	WP. <u>22-S</u> RGE. <u>27-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1080' FNL & 1980' FEL
ELEVATION	3106'
OPERATOR	PURE RESOURCES, L.P.
LEASE	MEAD
	OGRAPHIC MAP
CARLSBAD E	AST, N.M.





Pure Resources, L. P.
Mead Well No. 7
1,080' FNL & 1,980' FEL
UL B, Sec. 8, T-22-S, R-27-E
Eddy County, New Mexico

H2S and Safety Statement

Although Pure Resources, L. P. is not aware of any known presence of H2S in the area of this well and does not anticipate encountering any H2S during the drilling of this well, we are taking precautions to ensure the safety of all workers and personnel on this location and its immediately surrounding area.

Attached to this APD is a copy of Pure Resources, L. P. "Contingency Plan - Drilling Operations" and "Emergency Response Plan", both standard to our drilling operations and operating policies in SENM and relevant to this well.



CONTINGENCY PLAN DRILLING OPERATIONS

MEAD #7
SECTION 8, TRACT T22S, RANGE 27E
MEAD FIELD
EDDY COUNTY, NEW MEXICO
12/7/04

CONTINGENCY PLAN

INDEX

- 1. Scope & Objective
- 2. Location Information / Map
- 3. Emergency Notification / Evacuation Plan
- 4. Emergency Procedures and Responsibilities
- 5. Igniting Well Instructions
- 6. Training Procedures and Materials
- 7. Well Location Layout and Equipment

SCOPE & OBJECTIVE

SCOPE

This contingency plan establishes guidelines for the public, all company employees, and contract employees whose work activities may involve exposure to Hydrogen Sulfide gas (H2S).

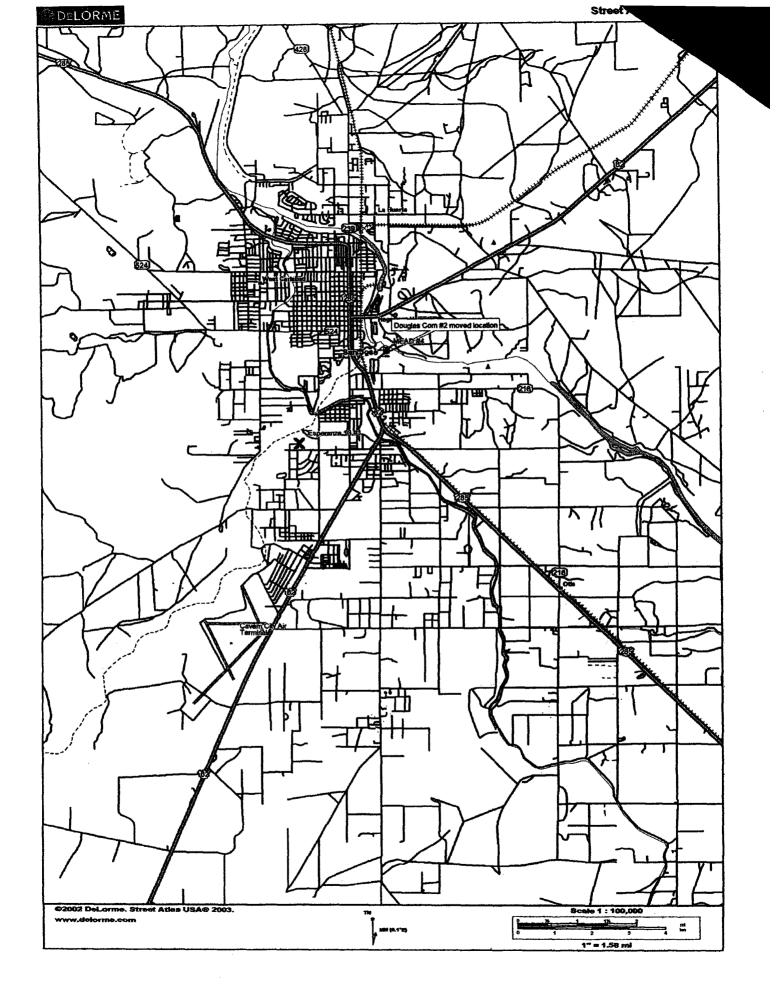
OBJECTIVE

- 1. Prevent any and all accidents, and prevent the uncontrolled release of Hydrogen Sulfide into the atmosphere.
- 2. Provide proper evacuation procedures.
- 3. Provide immediate and adequate medical attention should an injury occur.

DIRECTIONS TO LOCATION

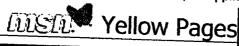
From the intersection of US Hwy 62/180 and county road #605 go SW on US 62/180 for approximately .75 miles to a caliche road on the left. Turn left and go SE for approximately 0.3 miles. Turn south and go approximately .15 miles. Turn right and go west 62 feet turn left on P/L road and go approximately 0.3 miles.

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Covenant Surgical Center of Carlsbad 2323 W. Pierce, Carlsbad, NM 88220 (505) 234-1343

business profile | map | driving directions

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Appears in the Categories:

Clinics & Medical Centers, Cosmetic & Reconstructive Surgeons, General Surgeons, Gynecology & Obstetrics

Map Size: Small Medium Print-Friendly Version Covenant Surgical Center o Western Way S2004 Michsoft Com S2003 NAVEO, and propt his

> Click map to recenter. Click compass directions to move map. Use Subject to License / Copyright

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It is the PURE RESOURCES policy in all operations to do everything possible to insure the safety of its employees and the contractor's employees on the job site; additionally, to provide for the safety and comfort of persons near the operations by protecting the environment to the fullest degree possible.

The primary purpose of the procedures outlined herein is to guide the personnel on location in the event that Hydrogen Sulfide (H2S) reaches the surface.

TO PROTECT THEIR OWN SAFETY AND THE SAFETY OF OTHERS, ALL PERSONNEL ON THE JOB SITE WILL RIGIDLY ADHERE TO THIS PLAN.

Initial Suspected Problem Zone: Abo Shale and Wolfcamp

Expected Concentration: ±5 ppm

ROE @ 100 ppm = 2 feet **ROE** @ 500 ppm = 1 foot

The plan should be implemented before drilling into the Abo Shale.

The cementing, casing and mud program are contained in the PURE RESOURCES Drilling Program.

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EVACUATION PLAN

The following general plan has been developed in the event that any public evacuation becomes necessary.

- PURE RESOURCES has requested and has been assured the support of the various public safety entities in the area.
- 2. Any evacuation will be conducted by the Eddy county Sheriff's Department and supported by the State Police Department, Highway Patrol Division.
- 3. Assistance from other public safety entities may be requested if required.
- 4. The included maps detail the area of the well site including the inventory or the public within the radius of exposure of the well.
- 5. In the event that there is any suspected problem on the well, the well site supervisor will notify the Eddy County Sheriff's office 505-887-7551 for ALERT STATUS.
- 6. ALERT STATUS will require that available public support personnel will proceed to the Eddy County Sheriff's office in Carlsbad, NM and standby for instructions.
- 7. If isolation and evacuation are necessary, then units will be dispatched to points marked on the map with instructions to maintain road blocks.
- 8. Evacuation teams will then proceed to sectors to be evacuated. Evacuation procedure will follow appropriate consideration for wind conditions.
- 9. Personnel from on site will establish safe perimeters using H2S detectors.
- 10. The New Mexico Oil Conservation Division and other authorities will be notified as soon as possible.
- 11. Other supplemental contractors will be contacted and called in as needed.

PURE RESOURCES EMERGENCY COMMUNICATION LIST

satisfactory communication is accomplished. Please give a reasonable amount of time for response before the next contact is called. In the event of communication failure, personnel contacted for well control incidents may be called in order as listed below until

	Name	Title	Office Number	Home Number	Cell Phone	Pager
≓	1. Ray Matthew	Engineer	432-498-8672	432-697-0201	432-557-0623	
7	2. Jerry Orndorff	Superintendent	432-498-8664	432-550-5407	432-631-4295	432-620-2898
3.	3. Jim Harrison	Manager	432-620-5661	432-699-4476	432-553-7414	
4.	Les Sinclair	Engineer	432-620-5603	432-685-3254	432-664-7650	
5.	5. Steve Munsell	Engineer	432-620-5671	432-550-7437	432-557-2674	
9.	6. Jay Waldrop	HES	432-498-2654	432-523-9778	432-556-3547	
7.			·			

MIDLAND WORKOVER/CONCENTRIC DEPARTMENT

Home/Cellular/Pager Numbers

<u>NAME</u>	<u>HOME</u>	<u>CELL</u>	<u>PAGER</u>
Russ Gianni Donny Leek	432-684-4712 432-399-4489	432-425-5744 or 664-4603 432-634-4862 or 634-4823	
	CONTRACT DŘ	ILLING FOREMEN	
Simon Barrera Doug Bulman Billy Gaches Larry Elvick Danny Kiser David Law Jerry Morgan Mike Pellessier Kenneth Poole	325-728-9024 432-520-5256 505-564-2679 432-336-2337 806-788-0960 337-261-0332 432-943-2860	325-242-1369 432-664-0009 505-320-1856 or 330-6530 432-631-9971 806-632-0759 832-752-7259 432-661-5061 580-513-4858 432-634-9431	<u>580-515-0530</u> <u>432-499-4947</u>
Mike Tarpley Tony Vickery	432-263-6731 432-367-6130	432-556-2227 432-634-6077	432-498-3757

EMERGENCY CALL LIST

Medical Support

Agency <u>Location</u> <u>Telephone Number</u>

AXIOM Medical Houston 281-419-7063

Surgical Center of Carlsbad Carlsbad 505-234-1343

EMERGENCY CALL LIST

Public Support

Agency	<u>Location</u>	<u>Telephone Number</u>
Surgical Center of Carlsbad	Carlsbad	505-234-1343
Ambulance	Carlsbad	505-885-3124
Fire Department	Carlsbad	505-885-2111

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EMERGENCY CALL LIST

Supplemental Equipment

MUD COMPANY

Buckeye 432-682-7422 Midland
Baroid 432-682-4305 Midland

SAFETY COMPANY

Safety International 432-580-3770 Odessa
Callaway Safety 505-392-2973 Hobbs

CEMENTING COMPANY

BJ Services 432-683-2781 Midland
BJ Services 505-392-6711 Hobbs
Halliburton 505-392-7062 Hobbs

PUMP TRUCKS / WATER HAULERS

Basic Energy 505-392-6498 Hobbs
Pool Carlsbad
Key 505-885-2053 Carlsbad

EMERGENCY CONDITIONS

Operating Conditions

- A. Emergency Procedures and Definition of Warning Flags.
 - 1. Condition:

YELLOW ---- NORMAL OPERATION

2. Condition:

ORANAGE -- POTENTIAL DANGER----CAUTION

- a. Cause for condition:
 - Circulating up drilling breaks
 - Trip gas after trip
 - Circulating out gas on choke
 - Poisonous gas present, but below threshold concentrations
- b. Safety actions:
 - Check safety equipment and keep it with you
 - Be alert for a change in conditions
 - Follow instructions
- 3. Conditions

RED----- EXTREME DANGER

- a. Cause for conditions
 - Uncontrolled flow from the well with lethal concentrations of H2S
- b. Safety Actions
 - Masks On. All personnel will have protective breathing equipment with them.
 All personnel will stay in safe briefing area unless instructed to do otherwise.
 - The decision to ignite the well is the responsibility of the company representative and should be made only as a last resort, when it is clear that:
 - i Human life is endangered
 - ii There is no hope of controlling the well under prevailing conditions.
 - Order evacuation of local people within the danger zone.

DRILLING CREW ACTIONS

- 1. All personnel will don their protective breathing apparatus. The drilling crew will take necessary precaution as indicated in OPERATING PROCEDURES.
- 2. The Buddy System will be implemented. All personnel will act upon direction from the Operator's Representative.
- 3. If there are nonessential personnel on location, they will move off location.
- 4. Entrance to the location will be patrolled, and the proper condition flag will be displayed at the entrance to the location.

IN THE EVENT OF AN ACCIDENTAL RELEASE OF PTENTIALLY HAZARDOUSS VOLUME OF H2S, THE FOLLOWING PROCEDURES WILL BE TAKEN.

- 1. All personnel on location will be accounted for and emergency search should begin for any missing.
- 2. All search missions will be conducted under fresh air masks in teams of two. Should the search team need to approach the well, safety harness and rope should be used.
- All individual companies and agencies should be contacted according to the EMERGENCY CALL LIST.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. The Operator's Representative will remain on location and attempt to regain control of the well.
- 6. The Company's designated representatives will begin evacuation of those persons in immediate danger.

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NOTE

When Hydrogen Sulfide might be encountered, NO personnel on location will be permitted to sleep in vehicles.

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RESPONSIBILITY

In the event of a release of potentially hazardous amounts of H2S, all personnel will immediately proceed upwind to the nearest designated safe area and don their protective breathing equipment. The PURE RESOURCES representative will immediately, upon assessing the situation, set this plan into action by taking the proper procedures to contain the gas and notify the appropriate people and agencies.

If the PURE RESOURCES representative is incapacitated or not on location, this responsibility will fall to the drilling toolpusher.

PURE RESOURCES

- 1. In an emergency situation, the Drill Site Supervisor on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.
- 2. Advise the Superintendent when procedures as specified herein have been met, will inform of emergencies and deviation from the plan, and see that procedures are observed at all times.
- 3. Advise each contractor, service company, and all others entering the site that Hydrogen Sulfide may be encountered and the potential hazards that may exist.
- 4. Authorize the evacuation of local residents if Hydrogen Sulfide threatens their safety.
- 5. Keep the number of persons on location to minimum during hazardous operations.
- 6. Assess the situation when alarm sounds, and issue work orders. When conditions warrant, order all personnel to "Safe Briefing Areas".
- 7. Direct corrective actions to control flow of gas.
- 8. Has full responsibility for the decision to ignite the well. The decision will be made only as a last resort.

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DRILLING COMPANY

- 1. The Toolpusher will assume all responsibilities of the Drill Site Supervisor in an emergency situation in the event that the Drill Site Supervisor becomes incapacitated.
- 2. The Toolpusher will order the Driller to secure the rig if time permits.

EMERGENCY PROCEDURES AND RESPONSIBILITIES

EQUIPMENT TO BE PROVIDED BY SAFETY COMPANY

- 1. One safety trailer containing an 8 bottle air cascade system
- 2. 750 feet of air line hose
- 3. Four breathing air manifolds
- 4. Four 30 minute rescue units
- 5. Five work/escape units
- 6. One filler hose for the work/escape and rescue units
- 7. One location sign with flags
- 8. Two briefing area signs
- 9. Two windsocks
- 10. One electronic monitor with three sensor heads, warning light and siren.

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EMERGENCY PROCEDURES AND RESPONSIBILITIES

TEMPORARY SERVICE PERSONNEL

All service personnel, such as cementing crews, logging crews, specialists, mechanics and welders will furnish their own safety equipment as required to comply with OSHA and PURE RESOURCES.

VISITORS

Visitors and nonessential personnel will be prohibited from remaining in, or entering a contaminated area where Hydrogen Sulfide concentration in the atmosphere exceeds 15 ppm.

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IGNITING WELL INSTRUCTIONS

THE DECISION TO IGNITE THE WELL IS THE RESPONSIBILITY OF THE PURE RESOURCES REPRESENTATIVE. In the event he is incapacitated or unavailable, it becomes the responsibility of the drilling rig superintendent.

The decision to ignite the well should be made only as a last resort and in the situation where it is clear that:

- 1. Human life is in danger
- 2. There is no hope of controlling the well under current conditions.

The PURE RESOURCES Drilling Manager should be notified as soon as possible. The first phase of evacuation should be initiated immediately.

Once the decision has been made the following procedures should be followed:

- 1. Four people, wearing self-contained breathing apparatus will be needed for the actual lighting of the well. They must first establish the flammable parameter by using an explosion meter. This should be established at 30% to 40% of the lower flammable limits.
- 2. After the flammable perimeter has been established and everyone removed from the area, the ignition team should select a site upwind of the well, from which to ignite. The site should offer the maximum protection and have a clear path for retreat from the area.
- 3. The ignition team should have safety belts and lanyards attached and manned before attempting ignition. If the leak is not ignited on the first attempt, move in 20 to 30 feet and fire again. Continue to monitor with the explosion meter and never fire from an area with over 75% of the lower explosive limit (LEL). If having trouble igniting the well, try firing 40 degrees to 90 degrees on either side of the well.
- 4. After ignition or attempted ignition, the toxic perimeter must be established and evacuation continued until the well is contained.
- 5. All personnel will act only as directed by the person in charge of the operations.

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SAFETY TRAINING

- 1. Hydrogen Sulfide Safety Training will be provided to all personnel at 1,000 feet above the expected H2S formation. The training sessions will cover, but will not be limited to the following.
 - a. General information on H2S and SO2 gas
 - b. Hazards of H2S and SO2 gas
 - c. Safety equipment on location
 - d. Proper use and care of personal protective equipment
 - e. Operational procedures in dealing with H2S gas
 - f. Evacuation procedures
 - g. Chemicals to be used in mud to control H2S
 - h. First aid, reviving and H2S victim, toxicity, etc.
 - i. Designated Safe Briefing Areas (S.B.A.)
 - j. Metallurgical considerations

NOTE: Once H2S Safety Procedures are established on location, no beards or facial hair which will interfere with face seal or mask will be allowed on location

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- 2. When H2S alarm is activated:
 - a. Mask up
 - b. Raise tool joints above the rotary table and shut down pump
 - c. Close in hydrill
 - d. Go to Safe Briefing Area

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PHYSICAL EFFECTS OF HYDROGEN SULFIDE POISONING

The Principal Hazard Is Death by Inhalation

When the amount of gas absorbed into the bloodstream exceeds that which is readily oxidized, systemic poisoning results, with a general action on the nervous system. Labored respiration occurs shortly and respiratory paralysis may follow immediately at concentrations of 700 ppm and above. This condition may be reached almost without warning as the originally detected odor of H2S may have disappeared due to olfactory paralysis. Death then occurs from asphyxiation unless the exposed person is removed immediately to fresh air and breathing is stimulated by artificial respiration. Other levels of exposure may cause the following symptoms individually or in combination:

- 1. Headache
- 2. Dizziness
- 3. Excitement
- 4. Nausea or gastro-intestinal disturbances
- 5. Dryness and sensation of pain in nose, throat, and chest
- 6. Coughing
- 7. Drowsiness

All personnel should be alerted to the fact that detection of H2S solely by sense of smell is highly dangerous, as the sense of smell is rapidly paralyzed by the gas. 10 ppm of H2S detected should be treated as if it were 700 ppm.

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REMEMBER:

After the well is ignited, burning Hydrogen Sulfide (H2S) will convert to Sulfur Dioxide (SO2), which is also a highly toxic gas.

DO NOT ASSUME THE AREA IS SAFE AFTER THE WILL IS IGNITED.

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THE USE OF SELF CONTAINED BREATHING EQUIPMENT

- 1. Respirators shall be inspected frequently at random, to insure that they are properly used, cleaned and maintained.
- 2. Anyone who may use the respirators shall be trained in how to insure proper face piece to face seal. They shall wear respirators in normal air and then wear it in a test atmosphere. (Note: such items as facial hair beard or sideburns and eyeglass temple pieces will not allow a proper seal.) Anyone who may be reasonably expected to wear respirators should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eye glasses. Contact lenses should not be allowed.
- 3. Maintenance and care of respirators:
 - a. A program for maintenance and care of respirators shall include the following:
 - Inspection for defects, including leaks checks
 - Cleaning and disinfecting
 - Repair
 - Storage
 - b. Inspection: Self contained breathing apparatus for emergency use shall be inspected monthly for the following and a permanent record kept of these inspections.
 - Fully charged cylinders
 - Regulator and warning devise operations
 - Condition of face piece and connections
 - Elastic or rubber parts shall be stretched or massaged to keep them pliable and prevent deterioration.
 - c. Routinely used respirators shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 4. A person assigned a task that requires use of self contained breathing equipment should be certified, physically fit for breathing equipment usage by the local physician at least annually.
- 5. Respirators should be worn:
 - a. When breaking out any line where H2S can reasonably be expected.
 - b. When sampling air in areas to determine if toxic concentrations of H2S exist.
 - c. When working in areas where over 15 ppm H2S has been detected.
 - d. At any time there is a doubt as to the H2S concentration in the zone to be entered.

TRAINING

Every person working in any capacity on the lease will be required to review the emergency procedures and will participate in the training program.

PURE RESOURCES will provide personnel to direct the training program and indoctrinate all authorized persons on the lease in the proper use of the safety equipment.

The training personnel will work individually with each member until they are satisfied that the crew member is familiar with the emergency procedures and the training program. This should be accomplished prior to an individual's work operation.

Training will include hands on use of all equipment in order to familiarize the trainees with the safety equipment.

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TREATMENT OF HYDROGEN SULFIDE POISONING

Inhalation

As Hydrogen Sulfide in the blood oxidizes rapidly, symptoms of acute poisoning pass off when inhalation of the gas ceases. It is important, therefore, to get the victim of poisoning to fresh air as quickly as possible. He should be kept at rest and chilling should be prevented. If respiration is slow, labored or impaired, artificial respiration may be necessary.

Most persons overcome by Hydrogen Sulfide may be revived if artificial respiration is applied before heart action ceases. Victims of poisoning should be under the care of a physician as soon as possible. Irritation due to sub acute poisoning may lead to serious complications such as pneumonia. Under those conditions, treatment by the physician necessarily would be symptomatic. The patient should be kept in fresh air.

Contact with Eyes

Eye contact with liquid and / or gas containing Hydrogen Sulfide will cause painful irritation (conjunctivitis). Keep patient in a darkened room, apply ice compresses to eyes, put ice on forehead, and send for a physician. The irritation caused by exposure to Hydrogen Sulfide requires treatment by a physician, preferably an eye specialist. The prognosis for recovery in these cases is usually good.

Contact with Skin

Skin absorption is very low. Skin discoloration is possible after contact with liquids containing Hydrogen Sulfide. If such skin contact is suspected, the area should be thoroughly washed.

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EFFECTS OF HYDROGEN SULFIDE ON METAL

Hydrogen Sulfide dissolves in water to form a weak acid that can cause some pitting, particularly in the presence of oxygen and/or carbon dioxide. However, the most significant action of H2S is its contribution to a form of Hydrogen embrittlement known as Sulfide Stress Cracking. Sulfide Stress Cracking is a result of metals being subjected to high stress levels in a corrosive environment where H2S is present. The metal will often fail in a brittle manner. Sulfide Stress Cracking of steel is dependent upon and determined by:

- 1. Strength (hardness) of the steel the higher the strength, the greater the susceptibility to sulfide stress cracking. Steels having yield strengths up to 95,000 psi and hardness up to Rc22 are generally resistant to sulfide stress cracking. These limitations can be extended slightly higher for properly quenched and tempered materials.
- 2. Total member stress (load) higher the stress level (load) the greater the susceptibility to sulfide stress cracking.
- 3. Corrosive environment corrosive reactions, acids, bacterial action, thermal degradation of low Ph fluid environment.

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DRILLSITE LOCATION

- 1. The drilling rig should be situated on location such that the prevailing winds blow across the rig toward the reserve pit or at right angles to a line from the rig to the reserve pit.
- 2. The entrance to the location should be designed so that it can be barricaded if Hydrogen Sulfide emergency conditions arise. An auxiliary exit (or entrance) should be available in case of a catastrophe, a shift in the wind direction would not preclude escape from the location. Appropriate warning signs and flags should be placed at all location entrances.
- 3. Once H2S safety procedures are established on location, no beards or facial hair which will interfere with face seal or mask will be allowed on location.
- 4. A minimum of two Briefing Areas will be established, not less than 250 feet from the wellhead and in such location that at least one area will be up-wind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated briefing areas for instructions.
- 5. A safety equipment trailer will be stationed at one of the briefing areas.
- 6. Windsocks will be installed and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windsocks shall be illuminated for night time operations. Personnel should develop wind direction consciousness.
- 7. The mud logging trailer will be located so as to minimize the danger from gas that breaks out of the drilling fluid.
- 8. Shale shaker mud tanks will be located so as to minimize the danger from gas that breaks out of the drilling fluid.
- 9. Electric power plants will be located as far from the well bore as practical so that it may be used under condition where it otherwise would have to be shut down.
- 10. When approaching depth where Hydrogen Sulfide may be encountered, appropriate warning signs will be posted on all access roads to the location and at the floor of all stairways to the derrick floor.
- 11. Appropriate smoking areas will be designated and smoking will be prohibited elsewhere.

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WELL LOCATION LAYOUT AND EQUIPMENT

SPECIAL EQUIPMENT

- 1. Flare lines should be as long as practical, securely staked.
- 2. An electronic Hydrogen Sulfide monitor will be installed with a combination visual and audible alarm system located where it can be seen and/or heard throughout the drilling area.
- 3. The electronic Hydrogen Sulfide monitoring system will be calibrated to activate the low alarm (visual alarm) at a concentration of 10 ppm Hydrogen Sulfide in the atmosphere and the high alarm at a concentration of 15 ppm Hydrogen Sulfide in the atmosphere.
- 4. Extra equipment will be available if required to provide adequate respiratory protection for all personnel on location.

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WELL LOCATION LAYOUT AND EQUIPMENT

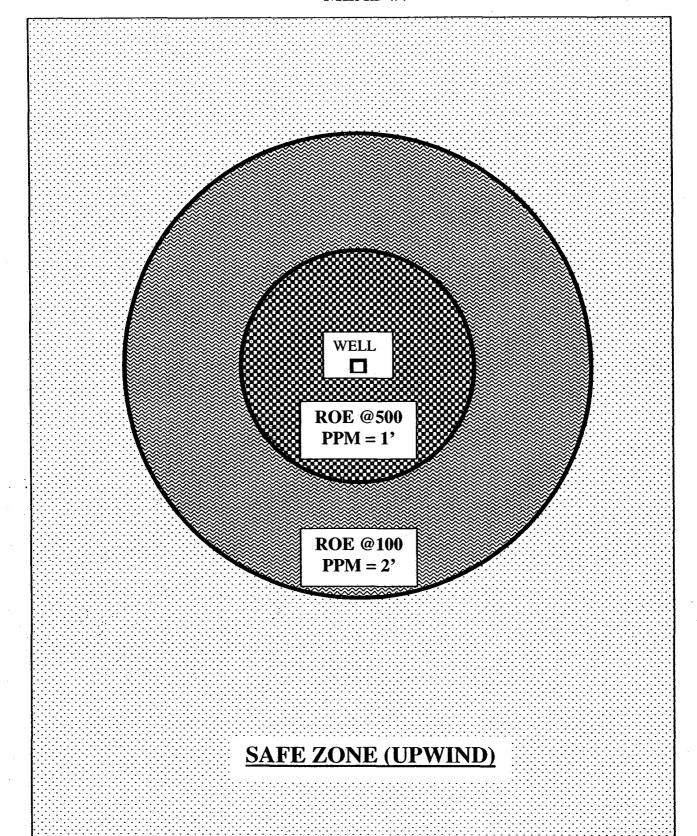
BLOWOUT PREVENTION EQUIPMENT

- 1. A kill line of ample strength and length will be laid to safe point to allow pumping into the well in an emergency situation.
- 2. The closing unit should be located a safe distance from the well bore and positioned for maximum utilization based on the prevailing wind direction.
- 3. BOP equipment will be tested in accordance with standard company practice.

WELL LOCATION LAYOUT AND EQUIPMENT

DRILL STEM TEST

- 1. A drill stem tests of Hydrogen Sulfide zones will be approved by the New Mexico Oil Conservation Division.
- 2. Drill stem testing of Hydrogen Sulfide zones will be permitted only during daylight hours.
- 3. All nonessential personnel will be moved to "Safe Briefing Areas".
- 4. Put on air masks before formation fluids are expected at the surface and continue "Masks On" until flare are ignited and work areas test no more than 10 ppm Hydrogen Sulfide and the area has been declared safe.



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PURE RESOURCES

EMERGENCY RESPONSE PLAN

SOUTHEAST NEW MEXICO

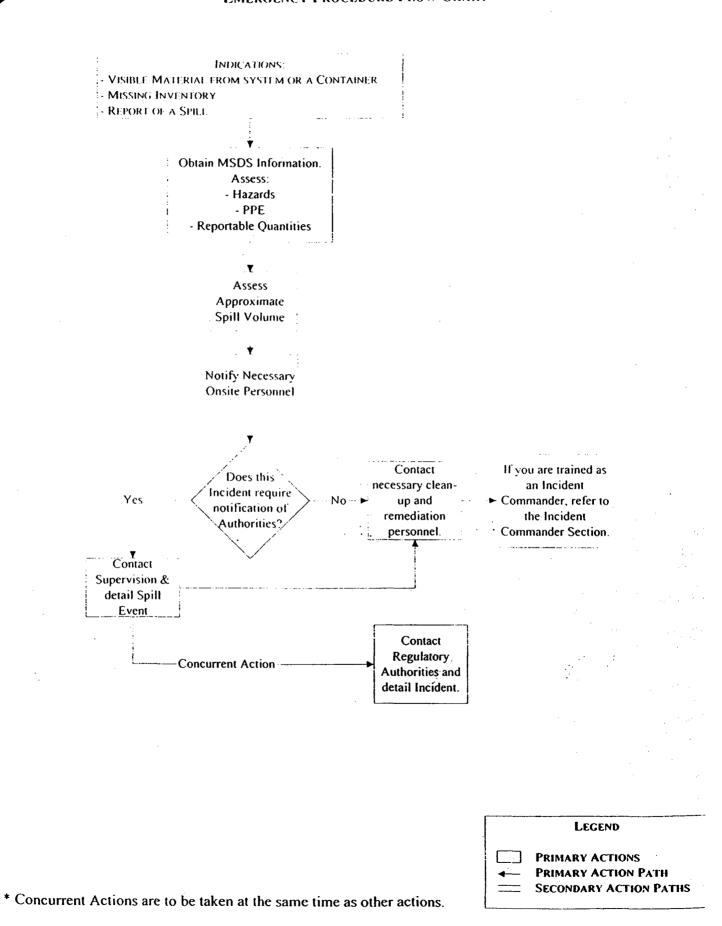
		Mobile No.	Home	Personal	
.e Northcutt	Area Foreman	390-1090		Cell Numbers	
Darryl Ruthardt	Asst. Foreman	390-8418	393-5856		
Larry Williams	Route 1	390-8432	806-592-2808 806-891-1282		
Bill Jarret	Route 2	390-8427	392-6860 631-303		
Gregg Darr	Route 3	390-8425	806-592-2573 806-215-2034		
Dee Tate	Relief / Dyno	390-8431	392-1306	390-3341	
Kyle Rowland	Relief	390-8950	390-1701		
Sandy Jones	Carlsbad	390-8428	505-885-6148		
Clarence Fite	Eunice	390-9084	394-4707		
Spare/Relief Truck		390-8406			
CHAIN OF COMMAND					
Mike Northcutt	390-1090	Area Foreman			
Pete Wilkinson	432-498-8642	432-556-3881	432-682-0600		
Jay Ottoson	432-498-2690	432-425-5860	432-694-0861		
Ron Lechwar	432-498-8625	432-664-2920	432-697-1549		
Tony Best	432-498-8678	432-557-7979	979-690-1064		
Lovington Office	Main Line	396-7503	Eunice Office		394-0061
Lovington Office	Line 2	396-6259	Eunice Office Fax		394-9061
Lovington Office	Line 3	396-6344			
Lovington Office	Line 4	396-6814	Eunice Combination		7541
Lovington Office	Fax	396-5950	Loving Combination		1953
Answering Service	Answering Service		Lovington Combination		9156
LOVINGTON PHONE I	NUMBERS				
Lovington Police/Fire/Ambulance		911	Lovington City Manager		396-2884
Lovington Police Department		396-2811	Lovington Water Farm Pumper		704-9170
Lovington Fire Department		396-2359	NMOCD		393-6161
Lovington Ambulance		396-2359	State Police		392-5588
Lovington Sheriff Office		396-3611	Lovington Hospital	396-6611	

AERO CARE - flight for life

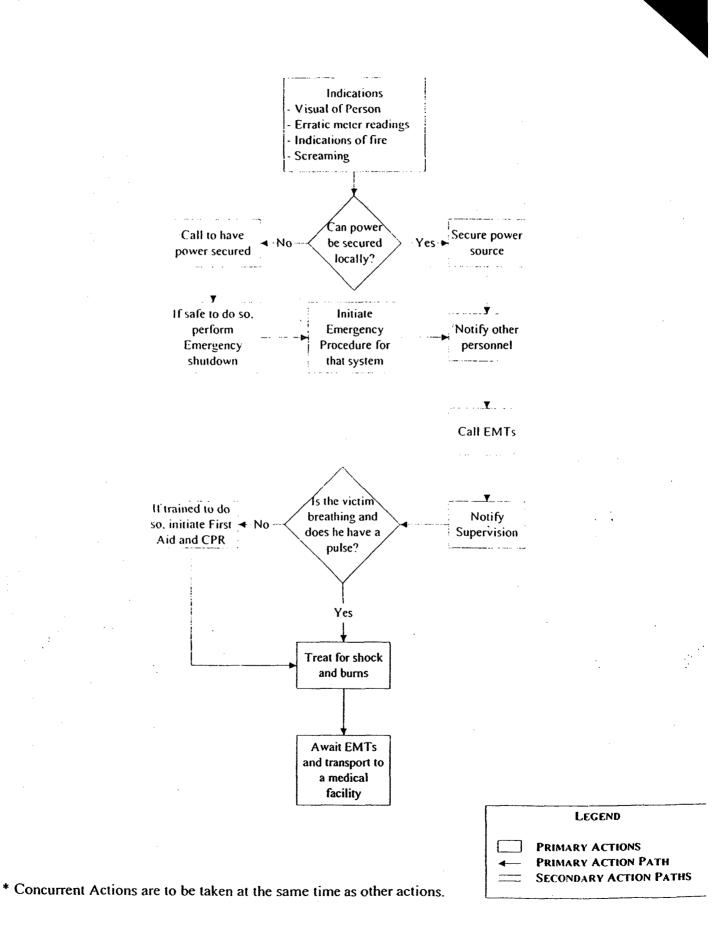
800-627-2376

FUNICE PHONE NUMBERS			
Eunice Police Department	394-2112	Eunice Sheriff Office	394-2020
Eunice Fire Department	394-2111	Eunice State Police	392-5588
Environmental Plus	394-3481	Spill Response in Eunice	
Environmental Plus Pat	390-7864	Spill Response in Eunice	
HOBBS PHONE NUMBERS			
Hobbs Police/Fire/Ambulance	911	Hobbs City Manager	397-9206
Hobbs Police Department	397-9265	Hobbs Hospital	492-5000
Hobbs Fire Department	397-9308	NMOCD	393-6161
Hobbs Sheriff Office	393-2515	State Police	392-5588
JAL PHONE NUMBERS			
Jal Police/Fire/Ambulance	911		
Jal Police Department	395-2501		
Jal Fire Department	395-2221	NMOCD	393-6161
al Sheriff Office	395-2121	State Police	392-5588
CARLSBAD PHONE NUMBERS			
Carlsbad Police/Fire/Ambulance	911	Carlsbad City Manager	887-3798
Carlsbad Police Department	885-2111	Carlsbad Hospital	887-4100
Carlsbad Fire Department	885-3125	NMOCD	393-6161
Carlsbad Sheriff Office	887-7551	State Police	885-3137
Bureau of Land Management	234-5972		
•			
OSHA	800-321-6742		
UNOCAL COUNSEL Mark Jones	281-491-7600	.•	:
HUMAN RESOURCES Martha Cavitt	432-498-8608	<u> </u>	•

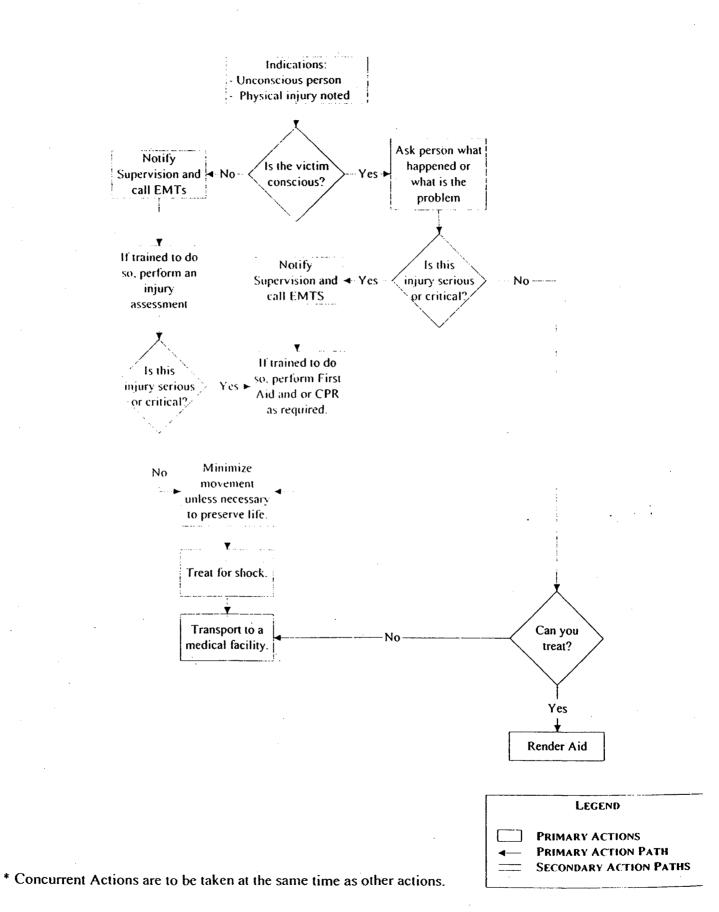
OIL SPILL OR LEAK EMERGENCY PROCEDURE FLOW CHART



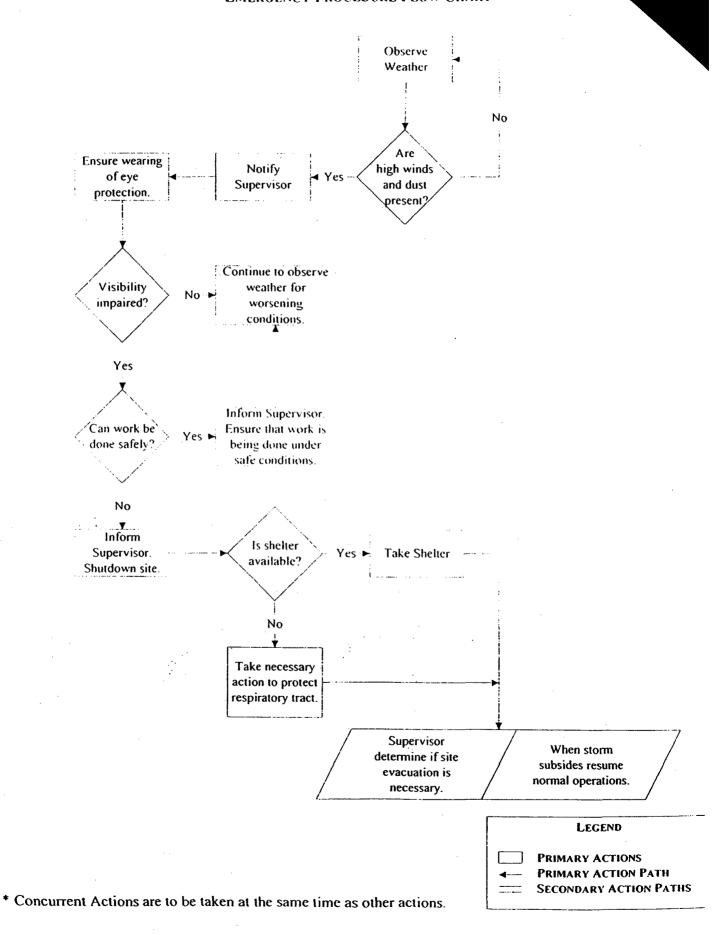
ELECTRICAL SHOCK EMERGENCY PROCEDURE FLOW CHART



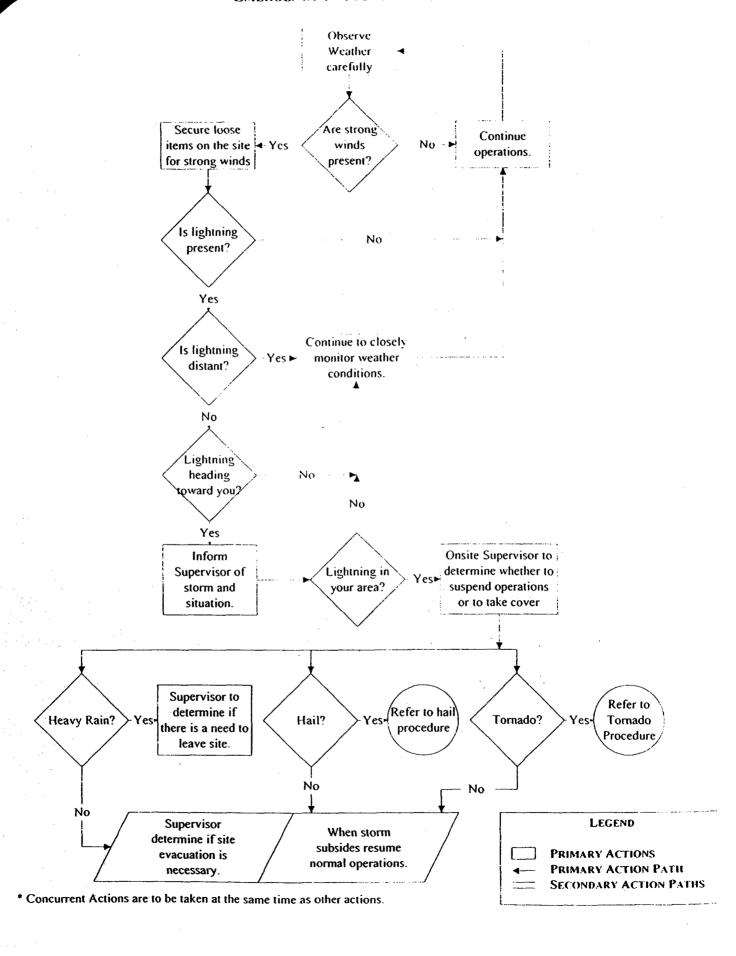
INJURED PERSON EMERGENCY PROCEDURE FLOW CHART

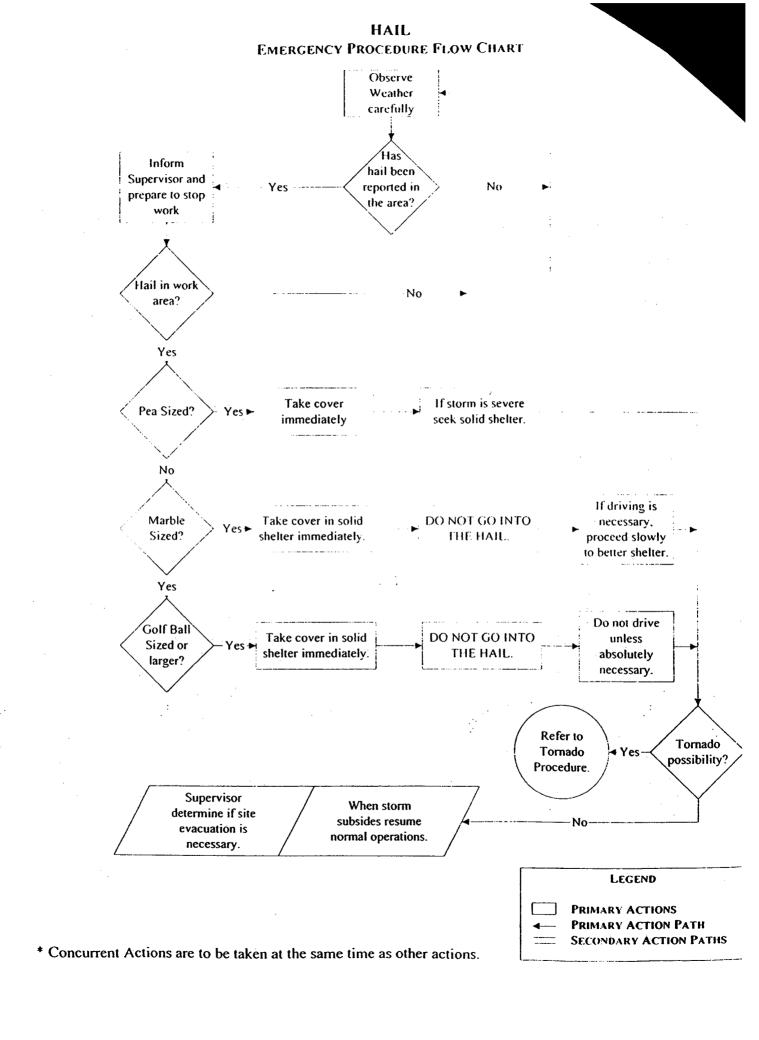


DUST STORMS EMERGENCY PROCEDURE FLOW CHART



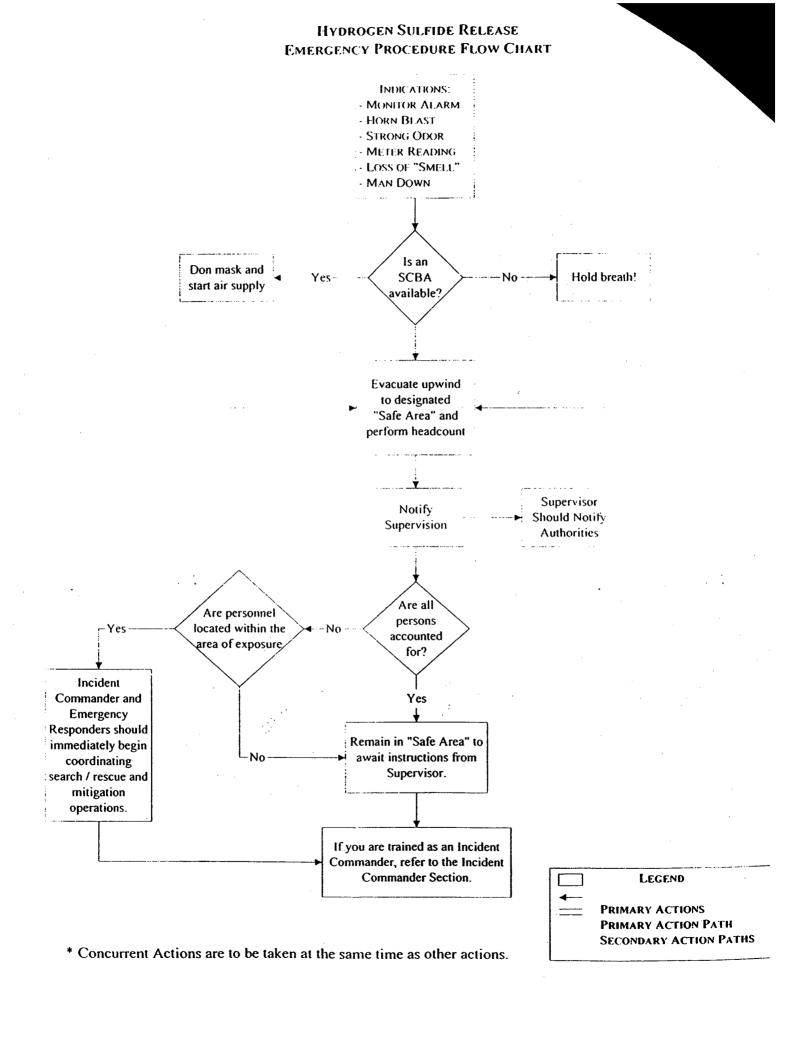
THUNDERSTORMS EMERGENCY PROCEDURE FLOW CHART



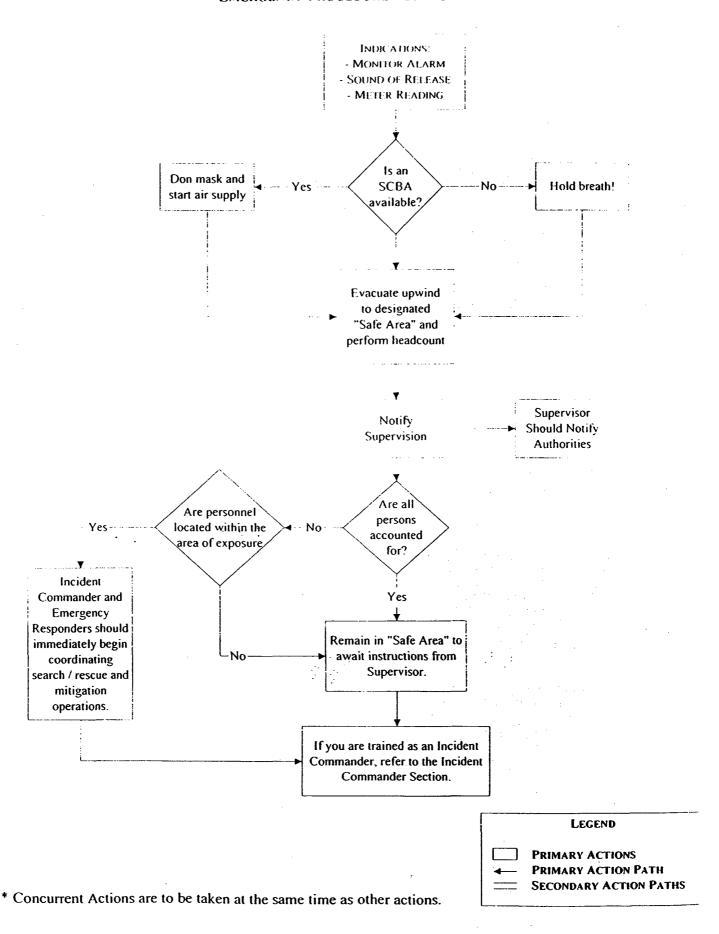


COMPRESSOR GAS LEAK / FIRE **EMERGENCY PROCEDURE FLOW CHART** INDICATIONS: - VISIBLE FIRE I- SMOKE - SOUNDS OF FIRE **Notify Fire** Department If possible shutdown Notify compressor compressor and other personnel shutdown? close gas supply valves Can fire be Send someone Safely put out with Notify to meet Fire a fire Supervision Department extinguisher? All personnel meet Yes at the designated Concurrent Action "Safe Area" and perform headcount Áre trained personnel & equipment available? Are personnel persons located within the Yes accounted area of exposure for? Incident Notify Commander and Supervision Yes Emergency Responders should Remain in "Safe Area" to immediately begin Extinguish await instructions from coordinating Fire search / rescue and Supervisor. and station a mitigation re-flash watch operations. If you are trained as an Incident Commander, refer to the Incident Commander Section. LEGEND **PRIMARY ACTIONS** PRIMARY ACTION PATH **SECONDARY ACTION PATHS**

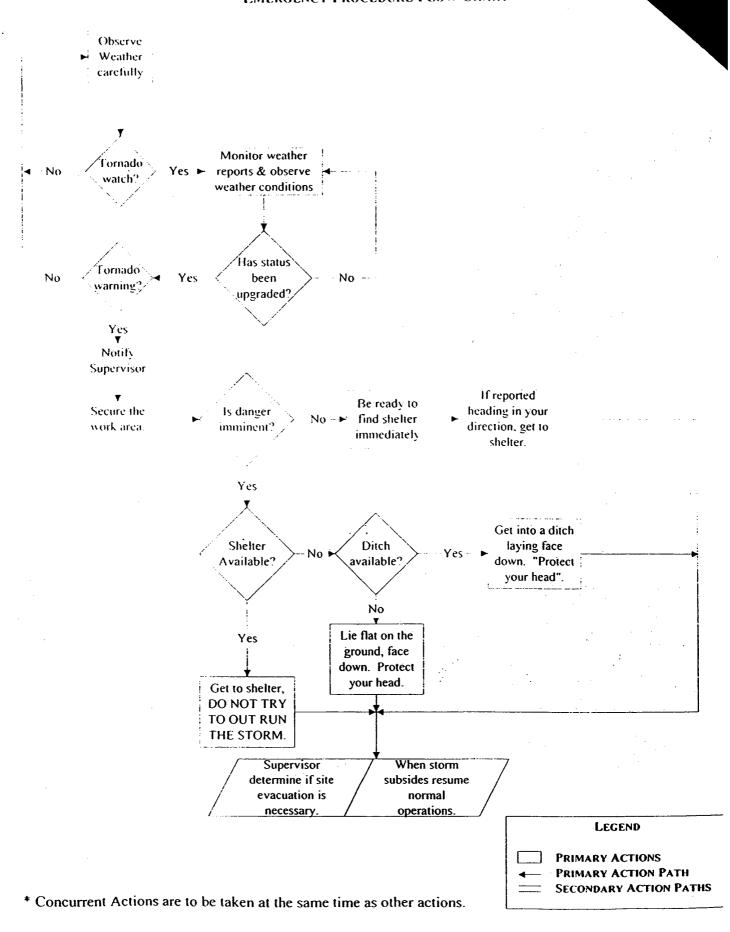
* Concurrent Actions are to be taken at the same time as other actions.



CO2 RELEASE EMERGENCY PROCEDURE FLOW CHART



TORNADOS EMERGENCY PROCEDURE FLOW CHART

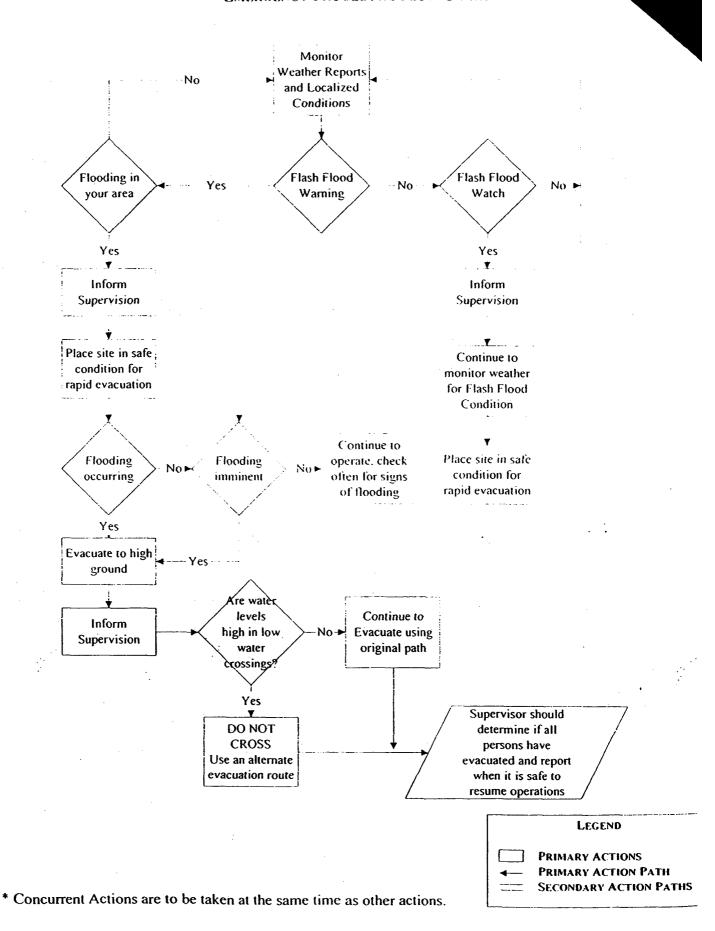


EMERGENCY PROCEDURE FLOW CHART INDICATIONS: VISIBLE FIRE SMOKE SOUNDS OF FIRE Notify Fire Extinguish Fire Department and station a re-flash watch Can fire be Are trained safely put out personnel and Notify Notify Supervision with a fire equipment Supervision extinguisher? available? No Send someone Bring Fire Dept. to meet Fire to "Safe Area" for briefing Department All personnel meet at the designated Concurrent Action "Safe Area" and perform headcount Incident Commander and Are all **Emergency Responders** Remain in "Safe Area" to persons should immediately begin Yes await instructions from accounted coordinating search / rescue Incident Commander. for? and mitigation operations. If you are trained as an Incident If you are trained as an Incident Commander, refer to the Incident Commander, refer to the Incident Commander Section. Commander Section. Begin mitigation and abatement operations. LEGEND **PRIMARY ACTIONS** PRIMARY ACTION PATH **SECONDARY ACTION PATHS**

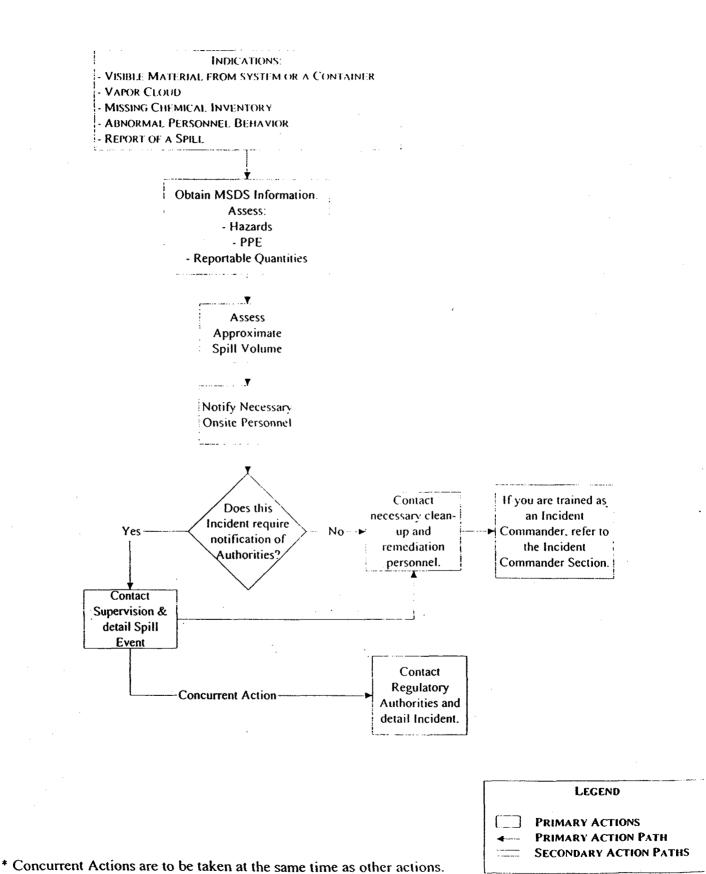
* Concurrent Actions are to be taken at the same time as other actions.

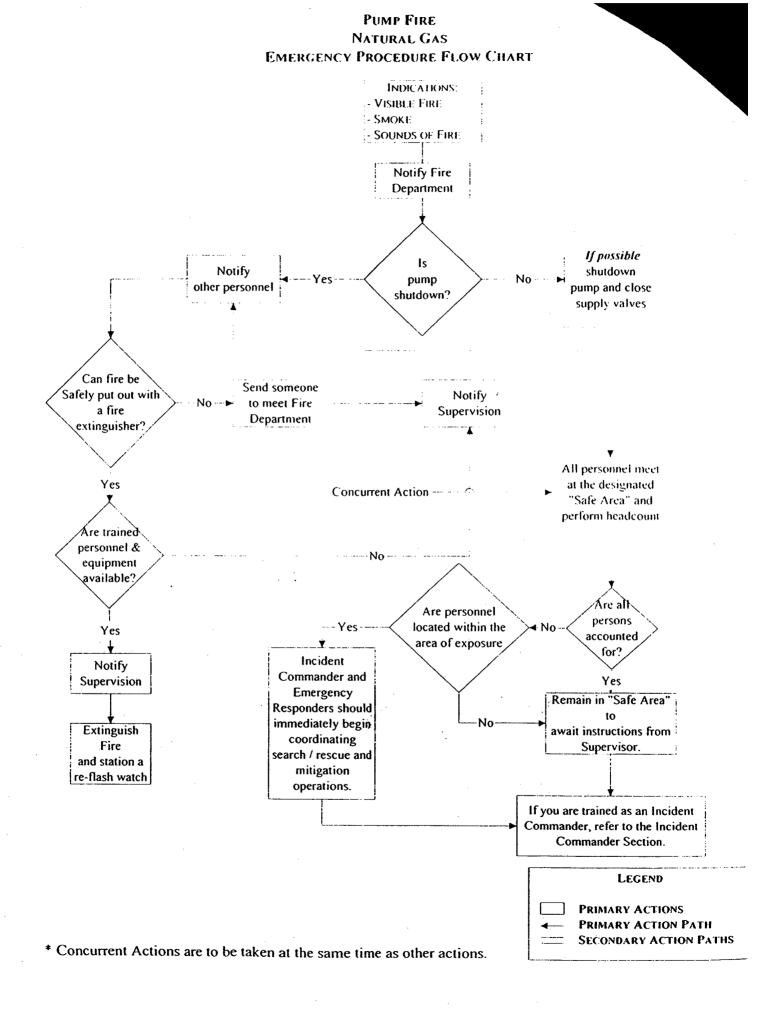
TANK BATTERYFIRE

FLOODING EMERGENCY PROCEDURE FLOW CHART

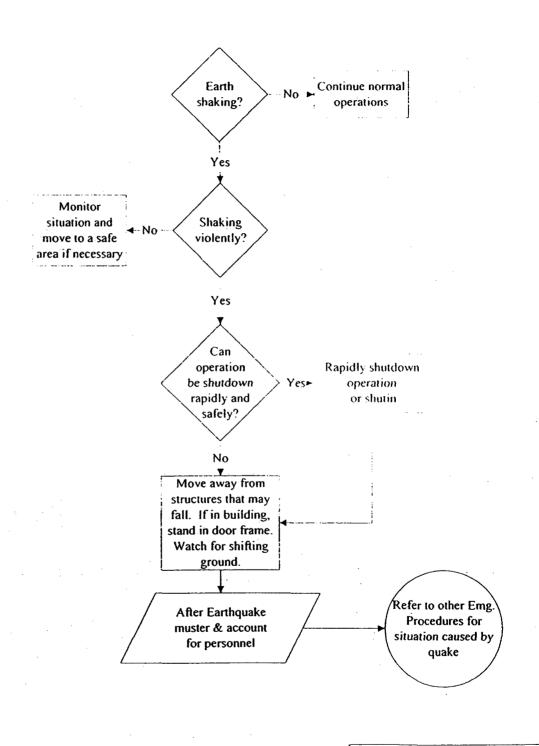


CHEMICAL SPILL OR LEAK EMERGENCY PROCEDURE FLOW CHART





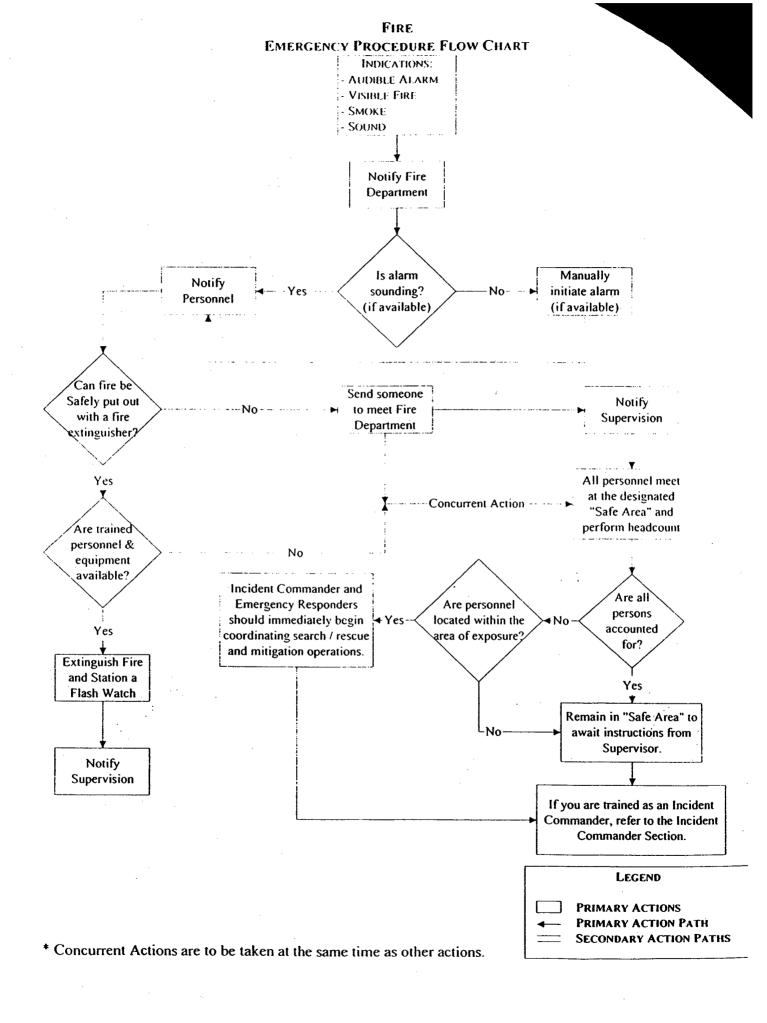
EARTHQUAKE EMERGENCY PROCEDURE FLOW CHART



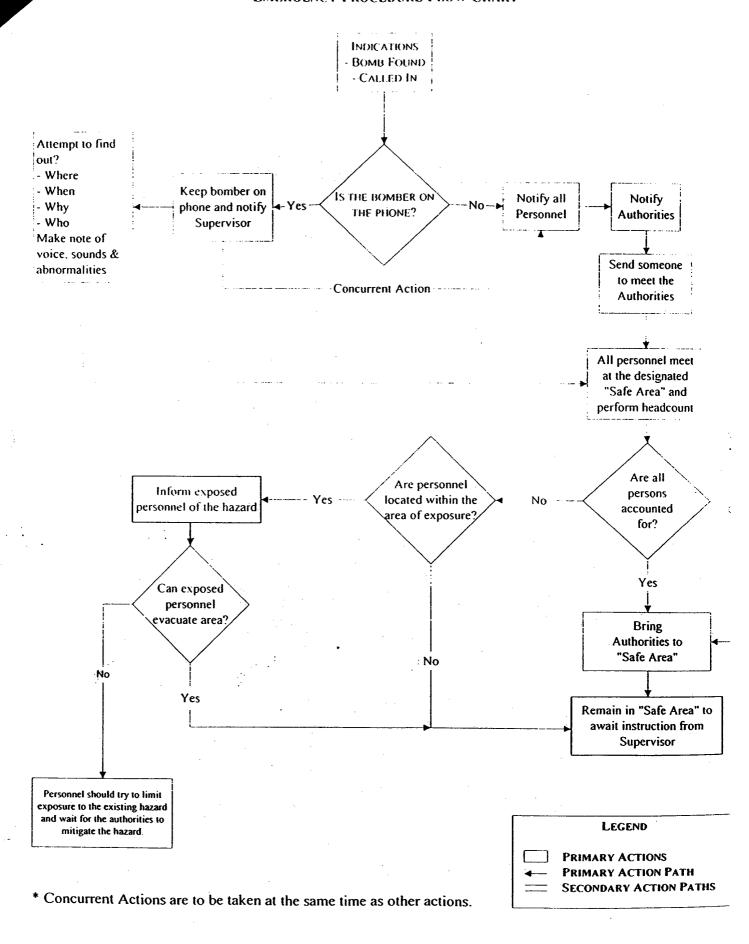
LEGEND

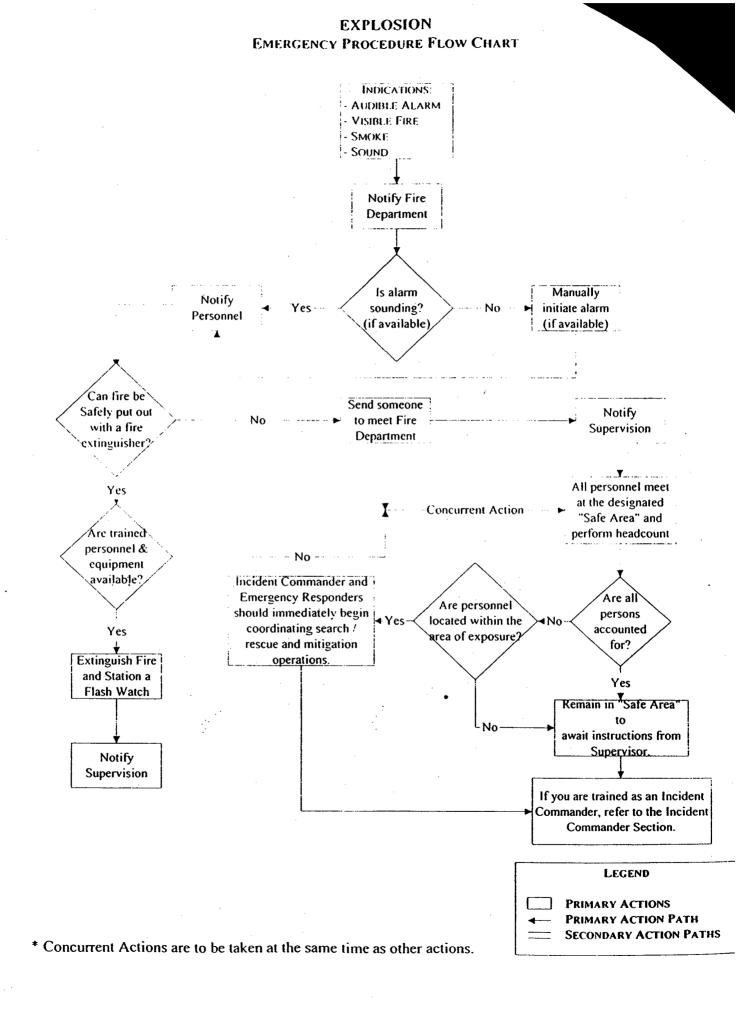
PRIMARY ACTIONS
PRIMARY ACTION PATH
SECONDARY ACTION PATHS

^{*} Concurrent Actions are to be taken at the same time as other actions.

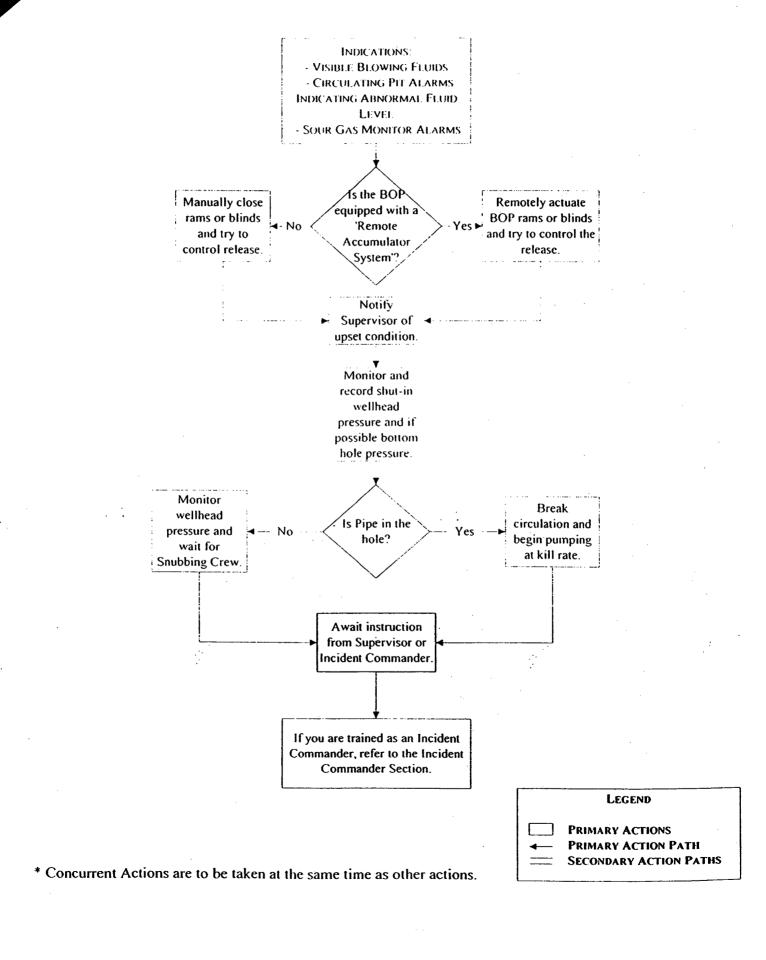


BOMB THREAT EMERGENCY PROCEDURE FLOW CHART





WELL BLOWOUT EMERGENCY PROCEDURE FLOW CHART



Pure Resources' 24 P	ir. E. argen	cy <u>Number - (432)</u> 498	-8600 or (800) 725-6612
Gary Dupriest Permian Oil Asset Manager		(432) 498-2627 Office (432) 664-7600 Cell (432) 694-1318 Home	FAX (432) 498-2607
Jim Mason Permian Oil Production Superintendent	and the second s		**************************************
Mike Oestmann Permian Gas Asset Manager	314 S. 1	(432) 498-8666 Office (432) 557-0103 Cell (432) 683-1188 Home	FAX (432) 498-2622
Tom Morrow Permian Gas Operations Superintendent	A Light of the second of the s	(432) 498-2653 Office (432) 664-7670 Cell (432) 679-7523 Home	FAX (432) 498-2622
Jay Ottoson New Mexico Asset Manager	tenderekt sid - 6 partega (d. 1	(432) 498-2690 Office (432) 425-5860 Cell (432) 694-0869 Higme	FAX (432) 498-2610 (1991-1993) (1991-1993) (1991-1993) (1991-1993) (1991-1993) (1991-1993) (1991-1993) (1991-1993)
Pete Wilkinson New Mexico Operations Superintendent	028092141 3 3	(432) 498-8642 Office (432) 556-3881 Oell (432) 682-0600 Home	15AX(432)498-2610 15Q2 (15000000000000000000000000000000000000
Don Rankin HES Manager		(432) 620-5684 Office (432)-238-2467 Cell	FAX (432) 620-5610 Ineplant 2000
Jay Waldrop Permian Gas and Drilling HES Coordinator	SECTION OF THE	(432) 498-2654 Office (432) 556-3547 Cell (432) 523-9778 Home	FAX (432) 620-5610
Ron Lechwar New Mexico HES Coordinator	The state of the s	(432) 498-8825 Office (432) 634-2239 Cell 1 (432) 664-2920 Cell 2 (432) 697-1549 Home	FAX (432) 620-5610 FAX (432) 697-1549
Mark Garner Permian Oil HES Coordinator	Section 1	(432) 620-5614 Office (432) 238-0198 Cell (432) 524-6124 Home	FAX (432) 620-5610
Steve Guidry Southeast Onshore Asset Manager		(713) 951-7878 Office (281) 216-4344 Cell (281) 376-8767 Hame	FAX (713) 951-7880
Sid Wall Southeast Onshore HES Coordinator - Houston		(713) 951-7844 Office (713) 204-9419 Cell (713) 975-7098 Home	EAX (713) 951-7840
Jim Harrison Permian Oil Drilling Manager		(432) 620-5661 Office (432) 553-7414 Cell (432) 699-4476 Home	FAX (432)-498-8656
Jerry Orndorff Permian Oil Drilling Superintendent	amai tali ama da ta ta La alama da da ta ta	(432) 498-8664 Office (432) 631-4295 Cell (432) 570-8657 Home	FAX (432) 498-8656
Martha Cavitt HR Advisor	and the service of th	(432) 498-8608 Office (432) 664-7682 Cell (432) 689-3144 Home	FAX (432) 498-8697
Tony Best President		(432) 498-8678 Office (432) 557-7979 Cell (979) 690-1064 Home	FAX (432) 498-2607 FAX (979) 690-6065
	and the street of the street o	UNOCAL NUMBERS	age and a more and a general participation of the construction of the construction of the construction of the A section of the Construction of the
Deborah Thompson HR Dept.		(281) 287-5549 Office (832) 656-0282 Cell (281) 360-2977 Home	FAX (281) 287-7339
Christine LeLaurin Media Relations Mark Jones		(281) 287-5793 Office (281) 414-3609 Cell (281) 287-7693 Office	(If Christine does not answer office phone, have her paged before calling her cell phone number).
Corporate Legal - Sugar Land	· · ·	(713) 823-5716 Cell (281) 265-3821 Home	and the first twenty to consider a first and the second second second second second second second second second
Ron Morin Corporate HES Manager – Suga		(281) 287-5092 Office (713) 882-8389 Cell	FAX (281) 287-5150
Chuck Williamson, CEO	•	(310) 726-7693	FAX (310) 726-7609
George Walker, VP HES		(310) 726-7661	FAX (310) 726-7820
Chuck Strathman Chief Legal Officer	•	(310) 726-77634 April 2005 10 10 10 10 10 10 10 10 10 10 10 10 10	a6s 6s6AX.(310):726-7845
Tony Stewart, Corp. GM HES		(281) 287-5092	FAX (281) 278-5150
Tim Ling, COO		(310) 726-7625	FAX (310) 726-7808
		(281) 287-5495	FAX (281) 287-5321



REOUIREMENTS FOR REPORTING ACCIDENTS. INCIDENTS, AND NEAR MISSES



(Some Local, State, and Federal reporting requirements are not included. Check additional requirements for your specific location.)

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					REV. 03/17/	03
INCIDENT TYPE/DESCRIPTION Begin reading down this column until you find the descriptions that match your situation. Then read across the page to find the various types of reports you need to make.	Internal Pure/Unocal Notification	PHONE NRC (800) 424-8802 Immediate Verbal	DRUG & ALCOHOL TESTING	WORKMAN'S COMP.	FEDERAL STATE OR LOCAL SPILL REPORT Witten/Verbal	DOT Pipeline Call NRC al (800) 424-881 Immediate Verbal
MAJOR Incidents - (Immediate Reporting)	00 00 0 - 12	Regard (ME)			jeranski kart	
Fatality. 3 or more Hospitalized (Employee or Contractor)	1, 6, 7, 9, 10, 11, 13	Programme Grands Transfer Tables Control	5	Employees Only	14 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8
Significant fire/explosion/spill/release, properly loss, casualty, or liability potentially greater than \$500,000	6, 7, 9, 10, 11, 13	4 - As Needed	5 · As Needed		As Needed	8
Sabotage/Terrorism/Kidnapping/Extontion or life endangering threats	6, 7, 9, 10, 11, 12, 13		5 - As Needed		11.	8 · As Needed
Land Facility Spills/Releases 25 BBLS of oil is: "major" if water may be impacted or if a chemical RQ is reached in spill	6, 7, 9, 10, 11, 13	4 - As Needed	5 - As Needed		As Needed	8 · As Needed
Significant news media coverage	3, 6, 7, 9, 10, 11, 13			Diselect in the single	As Needed	8 · As Needed
SERIOUS Incidents - (within 24 hours repo	orting)	957-USW (* 111) 3 - 110 - 111				
Lost Workday Case (LWC) including employees and contractors.	6, 9, 10, 11, 13	i di ili Mash (b ika	5	Employees Only	e la company	8
Three or more injured in one incident including employees and contractors.	7, 9, 10, 11		5 - As Needed	Employees Only		8 - If 5 or more injured
Environmental Loss, Spill, or Fire/Explosion (\$50,000 - \$500,000)	7, 9, 11	4 - As Needed	5 - As Needed		As Needed	8 - As Needed
Land Facility Spills/Releases - Any spill where water is impacted, in sensitive area, or over 100 BBLS, oil.	7, 9, 11	4 - As Needed	5 - As Needed		As Needed	8 - As Needed
Citation/Notice of Violation with potential fines >\$25,000 (Federal, State, or Local)	7, 9, 11				As Needed	, -
Theft, Vandalism or other crimes with loss potential >\$25,000	7, 9, 11, 12	2366, WA			As Needed	8 - As Needed
Non HES (equipment, property or process toss): >\$50,000	2, 7, 9, 11	(F15878) (1867)	5 - As Needed		Miller enginee Leet 1.	8
Near-Miss for any "Major" item.	9711		5 - As Needed	2004F		
MINOR Incidents - (working hours)	المراج بمراول الم	Latter Comment		yute, istoj	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Restricted Workday Case and Medical Treatment Case; employee or contractor	7, 9, 11	4972 (199)	5	Employees Only	Transation.	8
irst Aid Case, employee or contractor.	9,11	ξ 19,30 (15,2)	5 · As Needed	As Needed	French Comm	
ehicle accident (See "Serious" or "Major" loss if applicable)	7, 9, 11		5		3 - 3 - 3	
ire/explosion/spill/release/hospitalization or other events with asualty/property/liability loss potential under \$50,000	7, 9, 11	4 - As Needed	5 - As Needed	graftin a	As Needed	
and Facility Spills/Releases requiring regulatory reporting or ausing third party damage claims.	9,11	4 - As Needed	5 · As Needed	*	As Needed	8 - As Needed
Non HES (equipment, property or process loss) <\$50,000	2, 9, 11	7 (Mg) (\$134) T	5 - As Needed		देश मधीन स्थ	8
Near Miss for any "Serious" item.	9.46	V-666 (1864)	5 - As Needed		9 . 17 (2)3899 99	

- All areas must phone OSHA (Area Office or 800-321-6742) within 8 hours.
- "Non HES losses" Losses of incidents that do not involve Health, Environmental, or Safety issues, i.e., loss of well due to rig or support equipment failure loss of production due to civil unrest or weather. "Non HES losses" - Losses or inquents was to loss of production due to civil unrest or weather. Serioli 1000 OTE oktovalska tradi
- "Media event" Any time the media responds to an incident, make an oral report to the group Manager and send him a Preliminary Information Fax
- CALL NRC (National Response Center) If there is any possible impact to water or dry wash.
- Post incident alcohol and drug testing is required for all vehicle accidents and any company or contract employee who is sent from the work place for medical evaluation due to any type of injury or illness. DOT Drug testing for: Spills resulting in a fire or 50 barrels or more of a flammable liquid, or medical treatment or greater injury, or property loss exceeding \$50,000, or an event that is significant in the judgment of the supervisor. (See D.O.T. Drug Testing treatment or greater injury. C. Handbook, Section 2, page 3)
- Each level of Pure/Unocal management will report to the next level of management through the Executive Manager (Tim Ling). The Executive Manager will report immediately to the CEO. If you cannot contact the next level, you must skip management levels as necessary to insure that immediate notification is Section
- 7) Each level of Pure Resources management will report to the next level of management through the President of Pure Resources, LP.
- DOT Pipeline Report Spills resulting in a fire or 50 barrels or more of a flammable liquid, or medical treatment or greater injury, or property loss exceeding \$50,000, or an event triat is significant in the judgment of the supervisor.
- Notify Midland HES Office at 915 498-8600, Ext. 2654 or 8625
- evero ser d'ans cres i 10) FAX a copy of the Preliminary Incident Information Form within 24 Hours to your reporting office.
- 11) Fill out the Incident Investigation Form when all of the information is gathered and the investigation has been completed. Forward to Midland HES Office

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law safet from

- 12) Notify Corporate Security Director at (281) 287-7627
- 13) Notify Unocal Associate Counsel or Deputy General Counsel at (281) 491-7600, (Mark Jones)

NOTE: Additional emergency numbers can be found on the back of this form.

Market St.