

District I
1625 N. Freilich Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

Submit to appropriate District Office

FEB 23 2005

☐ AMENDED REPORT

OCD-ARTESIA

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

¹ Operator Name and Address Pure Resources, L. P. 500 W. Illinois Midland, Texas 79701		² OGRID Number 150628
³ Property Code	⁴ Property Name ESPERANZA "13"	⁵ API Number 30 - 015 - 33968
⁹ Proposed Pool 1 Carlsbad; Morrow, South (Pro Gas) (73960)		⁶ Well No. 2
⁹ Proposed Pool 1		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	13	22S	26E		621	South	2,287	East	EDDY

⁸ Proposed 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	East/West line	County
I	13	22S	26E		1,980	South	660	East	EDDY

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3,151'
¹⁶ Multiple No	¹⁷ Proposed Depth 12,031' MD 11,700' TVD	¹⁸ Formation Morrow	¹⁹ Contractor Nabors	²⁰ Spud Date When Approved
Depth to Groundwater Avg. Depth per State Engineer's Site is 58'		Distance from nearest fresh water well Per the State Engineer's Site it is 1,099'.		Distance from nearest surface water Dark Canyon Draw is approx. 950'.
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12_mils thick Clay <input type="checkbox"/> Pit Volume: 2,000 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48# H-40	400'	440sx	Surface
12-1/4"	9-5/8"	36# J-55	1,800'	580sx	Surface
8-3/4"	7"	23# P-110 HC	9,300' MD 9,011' TVD	880sx	1,700'
6-1/8"	4-1/2" Liner	11.6# P-110 HC	9,100' MD-12,031' MD	315sx	Liner fully cmt'd.

22 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.

Pure Resources, L. P. respectfully submits this application to Directionally Drill & Complete this 12,031' MD well in the Carlsbad; Morrow, South (Pro Gas) Pool (73960). The 7" intermediate casing depth may vary -intent is to set at the top of the Wolfcamp zone as determined by mud logging. The pit contents will be handled according to NMOCD guidelines.. Please see the attached—Casing/Cement and Mud Program sheet, BOP Schematic (13-5/8" 10K Stack), site layout plat, C-102 Plats, Directional Planning Report, Contingency Plan(s) and additional maps and plats.

As a condition of approval a
detailed closure plan must be
filed before closure may
commence.

23. I complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Alan W. Bohling

Title: Regulatory Agent

E-mail Address: abohling@pureresources.com

Date: 02/18/2005

Phone: (432) 498-8662

OIL CONSERVATION DIVISION

Approved by:

TIM W. GUM

DISTRICT II SUPERVISOR

Title:

Approval Date: FEB 27 2005

Expiration Date:

7 2006

Conditions:

NOTIFY OCD OF SPUD & TIME TO
WITNESS CEMENTING OF
SURFACE & INTERMEDIATE
CASING

DISTRICT I

1625 N. FRENCH DR., BOBBS, NM 86246

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 73960	Pool Name Carlsbad; Morrow, South (Pro Gas)
Property Code 34231	Property Name ESPARANZA 13	Well Number 2
OGRID No. 150628	Operator Name PURE RESOURCES	Elevation 3151'

Surface Location

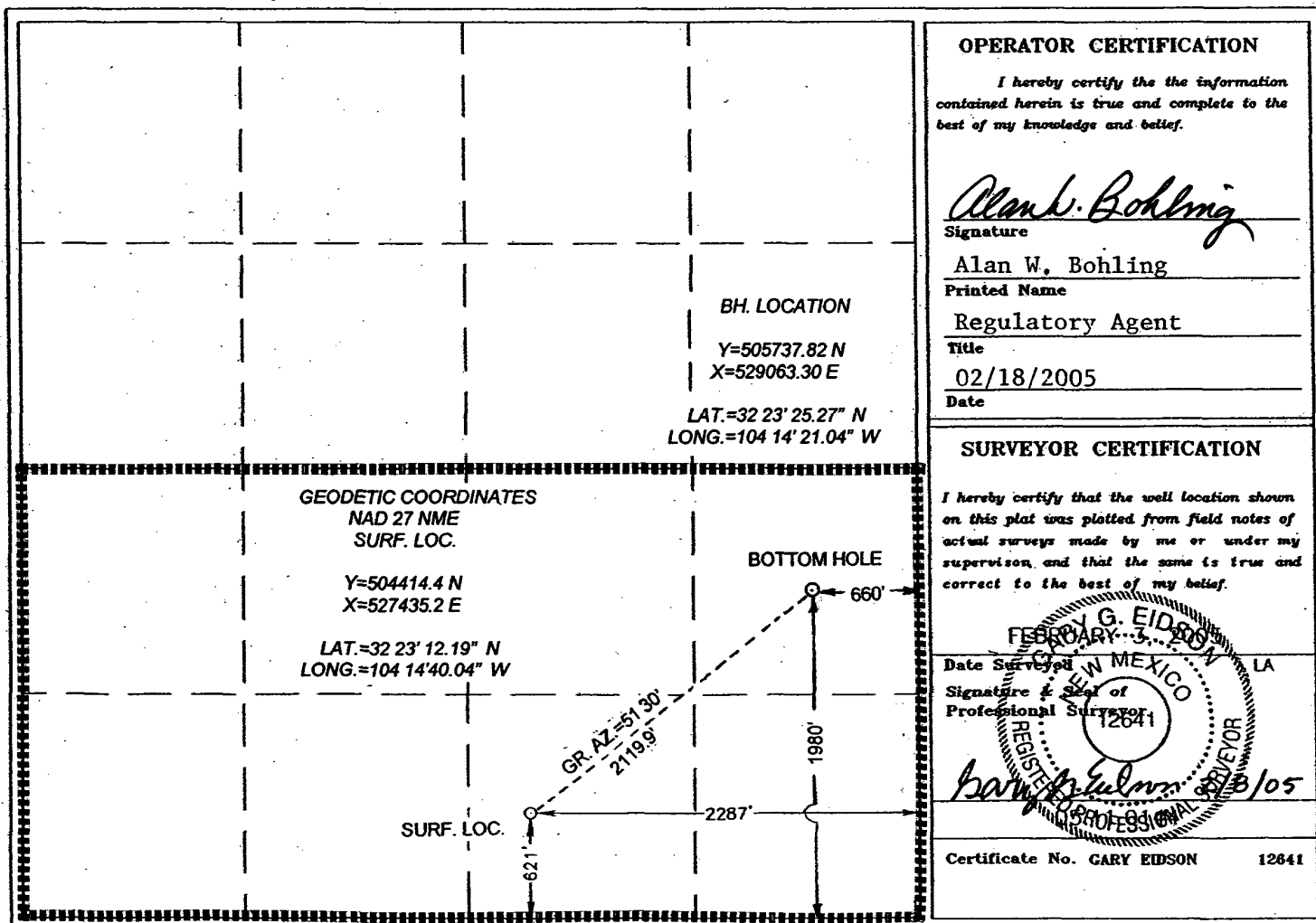
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	13	22-S	26-E		621	SOUTH	2287	EAST	EDDY

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	East/West line	County
I	13	22-S	26-E		1980	South	660	East	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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



OPERATOR CERTIFICATION

I hereby certify the the information
contained herein is true and complete to the
best of my knowledge and belief.

Alan W. Bohling
Signature

Alan W. Bohling
Printed Name

Regulatory Agent
Title

02/18/2005
Date

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.

GARY G. EIDSON
Date Surveyed
Signature & Seal of
Professional Surveyor
12641

2/18/05
Certificate No. GARY EIDSON 12641

DISTRICT I
1025 N. FRANCES DR., HOBBBS, NM 86240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 86210

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 73960	Pool Name Carlsbad; Morrow, South (Pro Gas)
Property Code 34231	Property Name ESPARANZA 13	Well Number 2
OGRID No. 150628	Operator Name PURE RESOURCES	Elevation 3151'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	13	22-S	26-E		621	SOUTH	2287	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	East/West line	County
I	13	22-S	26-E		1980	South	660	East	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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

<p>Project Area = 320 acres</p> <p>GEODETIC COORDINATES NAD 27 NME SURF. LOC.</p> <p>Y=504414.4 N X=527435.2 E</p> <p>LAT.=32° 23' 12.19" N LONG.=104° 14' 40.04" W</p> <p>BH. LOCATION Y=505737.82 N X=529063.30 E</p> <p>LAT.=32° 23' 25.27" N LONG.=104° 14' 21.04" W</p> <p>Standard Producing Area</p> <p>Non-Standard Producing Area</p> <p>~BH Loc. #1</p> <p>SURF. LOC.</p> <p>GR. AZ.=51° 30' 21" 19.9</p> <p>621'</p> <p>2287'</p> <p>1980'</p> <p>660'</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Alan W. Bohling</i> Signature</p> <p>Alan W. Bohling Printed Name</p> <p>Regulatory Agent Title</p> <p>02/18/2005 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>FEBRUARY 18, 2005 Date Surveyed</p> <p>GARY EIDSON Signature & Seal of Professional Surveyor</p> <p>12641 Certificate No.</p> <p>GARY EIDSON 12641</p>
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Casing/Cement and Mud Program Sheet

Esperanza "13" #2

API No. _____

621' FSL & 2,287' FEL

UL O, Sec. 13, T-22-S, R-26-E

Eddy County, New Mexico

Proposed Casing and Cement Program:

Hole Size	Casing Size	Wt #/ft	Grade	Connect	Setting Depth	Cement Volume	Estimated TOC
25"	20"	N/A	N/A	N/A	40'	Redi-mix	Surface
17-1/2"	13-3/8"	48	H40	STC	400'	440 sx	Surface
12-1/4"	9-5/8"	36	J55	STC	1,800'	580 sx	Surface
8-3/4"	7"	23	P110HC	LTC	9,300' MD 9,011' TVD	880 sx	1,700'
6-1/8"	4-1/2" Liner	11.6	P110HC	LTC	9,100' MD 12,031' MD	315 sx	Linner will be fully cemented with cmt. across lap into 7" Csg.

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

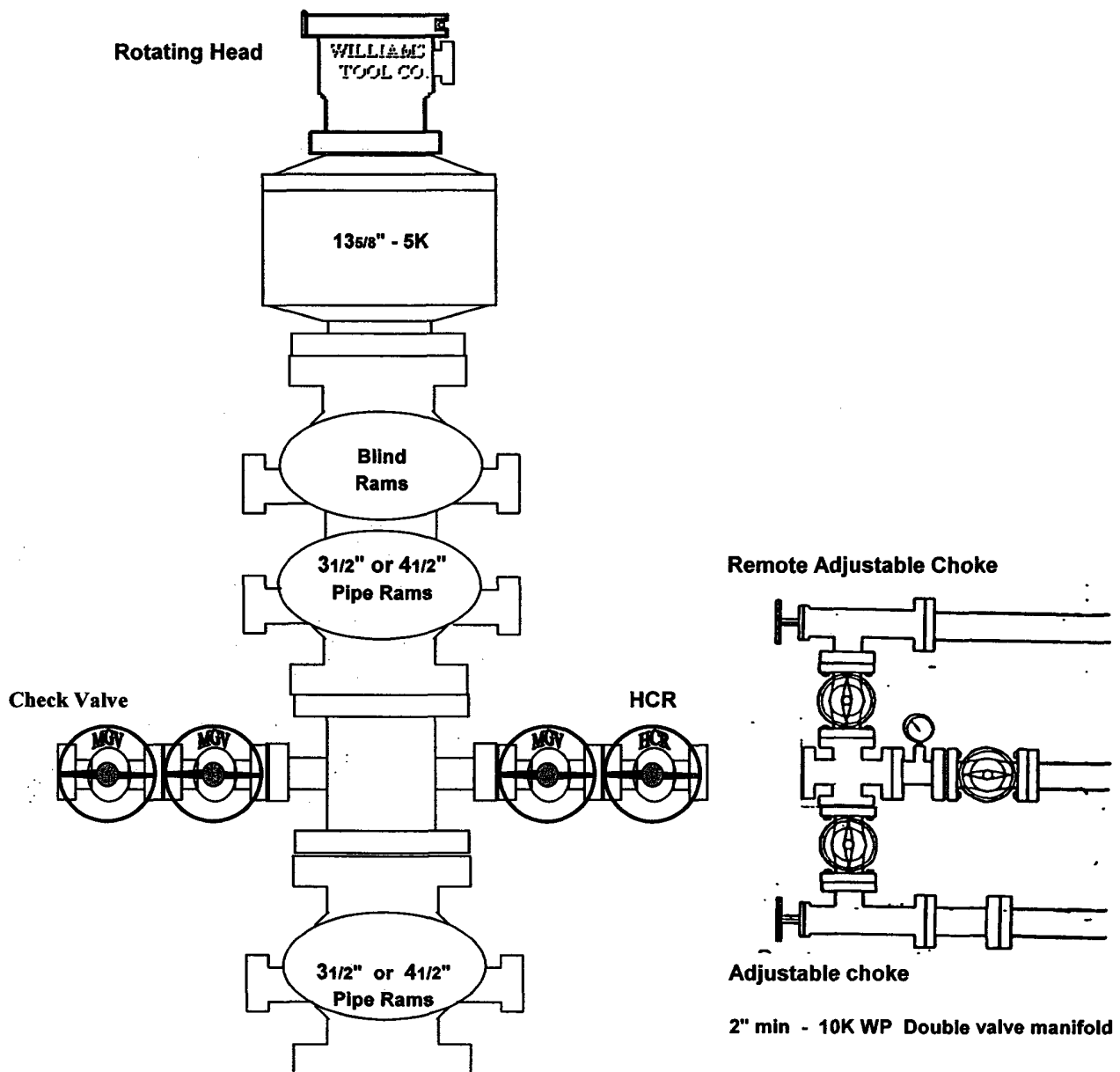
Interval	Type	Weight
0' - 400'	FW / Spud Mud	8.4 - 9.0
400' - 1,800'	FW w/ LCM as needed	8.4 - 9.0
1,800' - 9,300' MD	FW w/ LCM as needed	8.4 - 9.2
9,300' MD - 12,031' MD	Brine 35+ vis, FL 6-8 across zones of interest	9.8 - 11.0

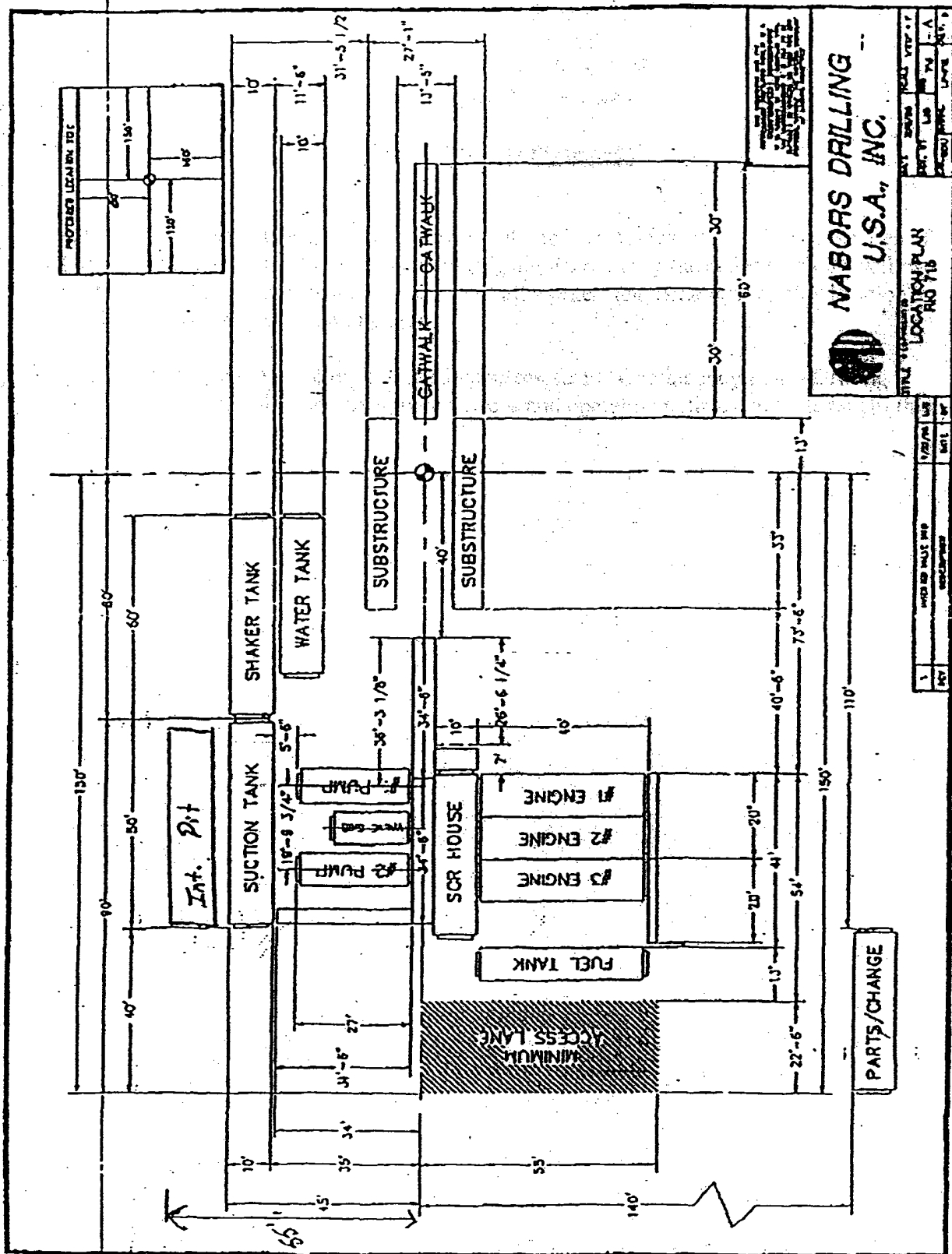
BOPE Schematic

Esperanza "13" #2

13 5/8" - 10K PSI

**621' FSL and 2,287' FEL
Section 13 - T22S - R26E
Eddy County, New Mexico**

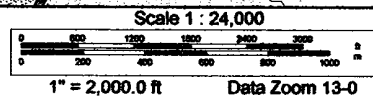
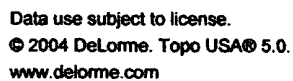




**NABORS DRILLING
U.S.A., INC.**

LOCATION PLAN			
NO. 1	NO. 2	NO. 3	NO. 4
NO. 5	NO. 6	NO. 7	NO. 8
NO. 9	NO. 10	NO. 11	NO. 12
NO. 13	NO. 14	NO. 15	NO. 16
NO. 17	NO. 18	NO. 19	NO. 20
NO. 21	NO. 22	NO. 23	NO. 24
NO. 25	NO. 26	NO. 27	NO. 28
NO. 29	NO. 30	NO. 31	NO. 32
NO. 33	NO. 34	NO. 35	NO. 36
NO. 37	NO. 38	NO. 39	NO. 40
NO. 41	NO. 42	NO. 43	NO. 44
NO. 45	NO. 46	NO. 47	NO. 48
NO. 49	NO. 50	NO. 51	NO. 52
NO. 53	NO. 54	NO. 55	NO. 56
NO. 57	NO. 58	NO. 59	NO. 60
NO. 61	NO. 62	NO. 63	NO. 64
NO. 65	NO. 66	NO. 67	NO. 68
NO. 69	NO. 70	NO. 71	NO. 72
NO. 73	NO. 74	NO. 75	NO. 76
NO. 77	NO. 78	NO. 79	NO. 80
NO. 81	NO. 82	NO. 83	NO. 84
NO. 85	NO. 86	NO. 87	NO. 88
NO. 89	NO. 90	NO. 91	NO. 92
NO. 93	NO. 94	NO. 95	NO. 96
NO. 97	NO. 98	NO. 99	NO. 100

PARTS/CHANGE			
NO. 1	NO. 2	NO. 3	NO. 4
NO. 5	NO. 6	NO. 7	NO. 8
NO. 9	NO. 10	NO. 11	NO. 12
NO. 13	NO. 14	NO. 15	NO. 16
NO. 17	NO. 18	NO. 19	NO. 20
NO. 21	NO. 22	NO. 23	NO. 24
NO. 25	NO. 26	NO. 27	NO. 28
NO. 29	NO. 30	NO. 31	NO. 32
NO. 33	NO. 34	NO. 35	NO. 36
NO. 37	NO. 38	NO. 39	NO. 40
NO. 41	NO. 42	NO. 43	NO. 44
NO. 45	NO. 46	NO. 47	NO. 48
NO. 49	NO. 50	NO. 51	NO. 52
NO. 53	NO. 54	NO. 55	NO. 56
NO. 57	NO. 58	NO. 59	NO. 60
NO. 61	NO. 62	NO. 63	NO. 64
NO. 65	NO. 66	NO. 67	NO. 68
NO. 69	NO. 70	NO. 71	NO. 72
NO. 73	NO. 74	NO. 75	NO. 76
NO. 77	NO. 78	NO. 79	NO. 80
NO. 81	NO. 82	NO. 83	NO. 84
NO. 85	NO. 86	NO. 87	NO. 88
NO. 89	NO. 90	NO. 91	NO. 92
NO. 93	NO. 94	NO. 95	NO. 96
NO. 97	NO. 98	NO. 99	NO. 100

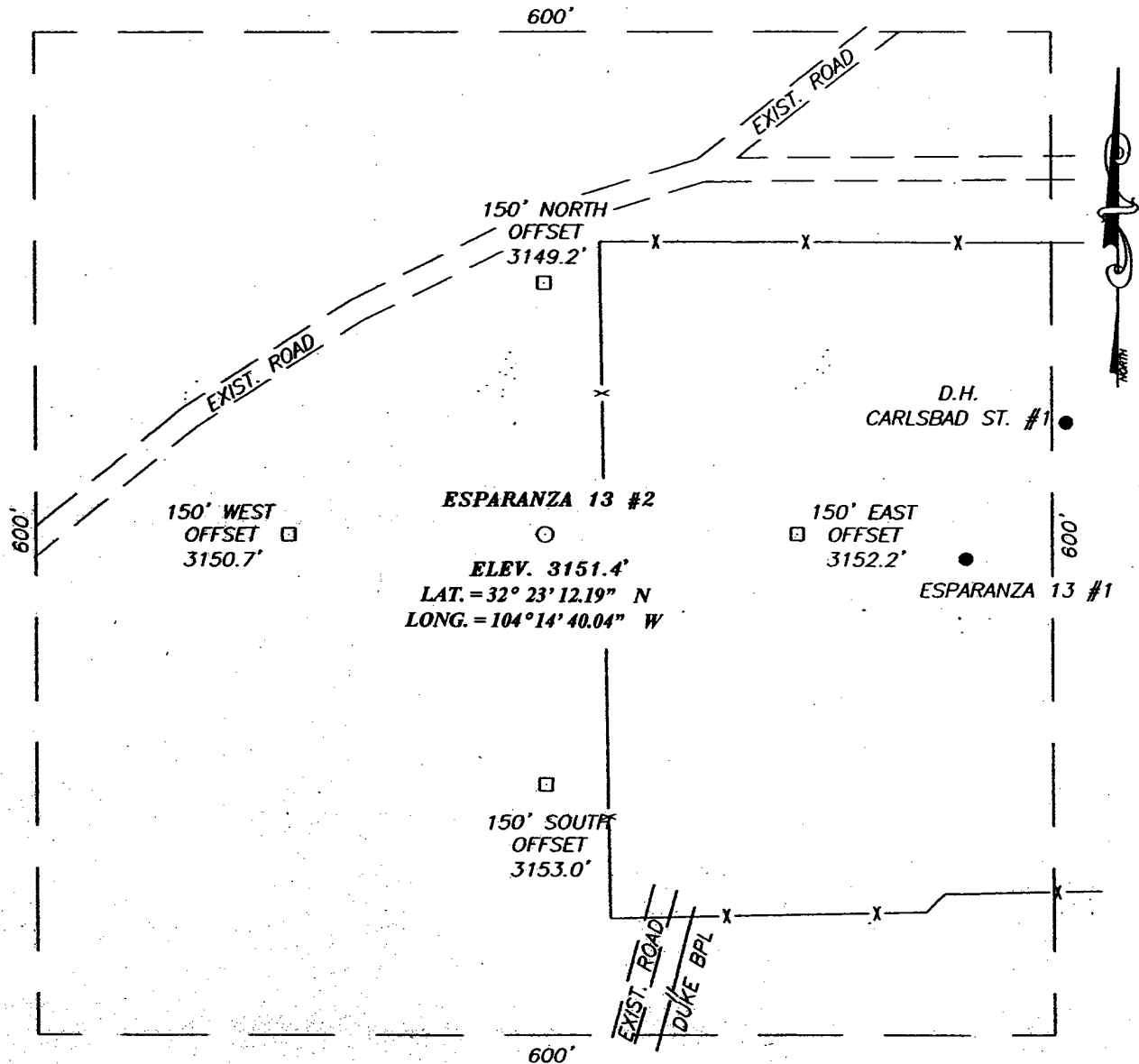


TN

MN (2.6°E)

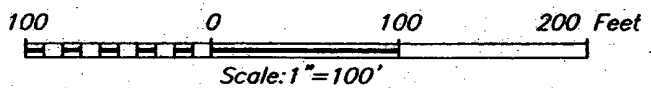
1" = 1,200.0 ft Data Zoom 13-0

SECTION 13, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF BOYD ST. & ROSE ST. ON THE SOUTHWEST SIDE OF CARLSBAD. GO WEST ON LEASE ROAD 0.4 MILES. TURN RIGHT AND GO 0.2 MILES NORTHEAST TO THE ESPARANZA 13 #1 WELL. THIS LOCATION IS ON THE WEST SIDE OF WELL PAD.



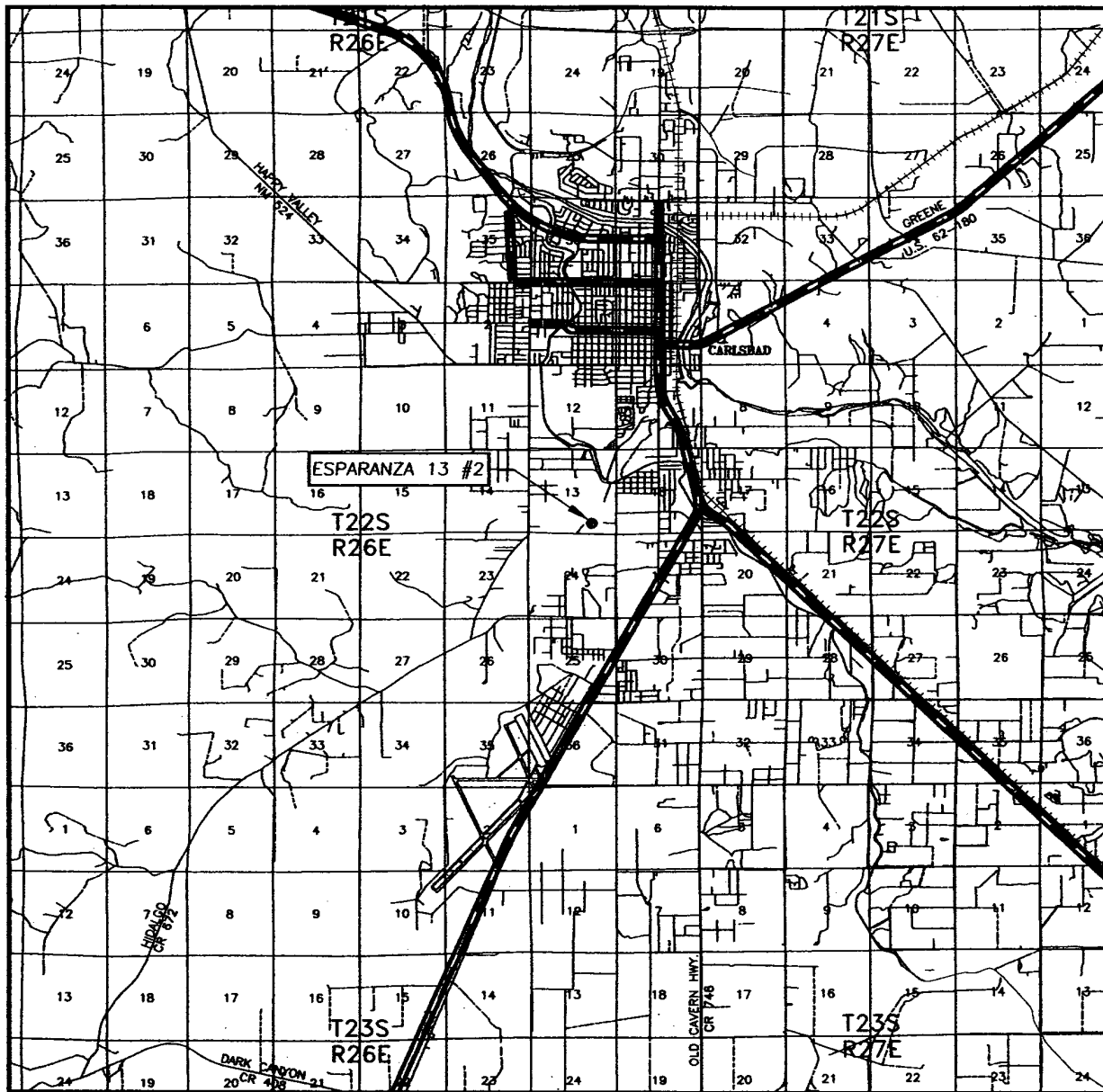
PURE RESOURCES

ESPARANZA 13 #2 WELL
 LOCATED 621 FEET FROM THE SOUTH LINE
 AND 2287 FEET FROM THE EAST LINE OF SECTION 13,
 TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 2/03/05	Sheet 1 of 1 Sheets
W.O. Number: 05.11.0144	Dr By: LA
Date: 2/07/05	Disk: CD#4
05110144	Scale: 1"=100'

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

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 13 TWP. 22-S RGE. 26-E

SURVEY N.M.P.M.


COUNTY EDDY

DESCRIPTION 621' FSL & 2287' FEL

ELEVATION 3151'

OPERATOR PURE RESOURCES

LEASE ESPARANZA 13 #2

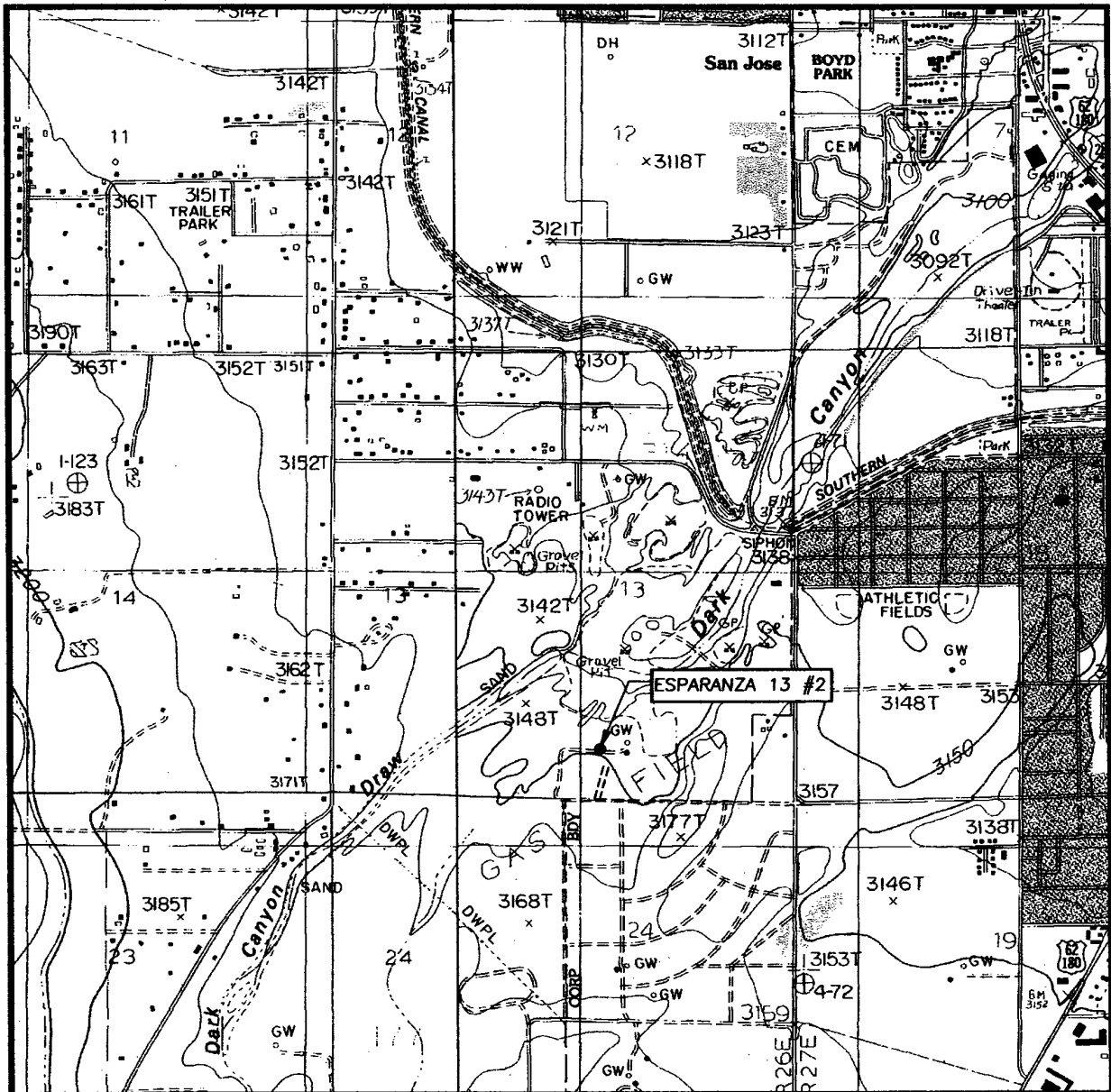


PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 13 TWP. 22-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 621' FSL & 2287' FEL

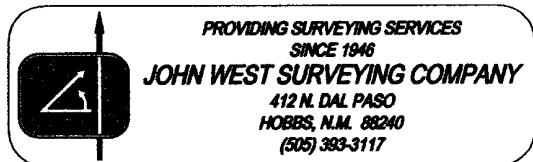
ELEVATION 3151'

OPERATOR PURE RESOURCES

LEASE ESPARANZA 13

U.S.G.S. TOPOGRAPHIC MAP
CARLSBAD WEST, CARLSBAD EAST, N.M.

CONTOUR INTERVAL:
CARLSBAD WEST, N.M. - 20'
CARLSBAD EAST, N.M. - 10'



Company: PURE Resources				Date: 2/22/2005		Time: 11:03:35		Page: 1	
Field: Esperanza				Co-ordinate(NE) Reference:		Well: Esperanza 13 #2, Grid North			
Site: Esperanza 13 #2				Vertical (TVD) Reference:		SITE 0.0			
Well: Esperanza 13 #2				Section (VS) Reference:		Well (0.00N,0.00E,50.89Azi)			
Wellpath: Original Hole				Plan:		Plan #1 022105			

Field: Esperanza				Eddy County, New Mexico					
Map System: US State Plane Coordinate System 1927				Map Zone:		New Mexico, Eastern Zone			
Geo Datum: NAD27 (Clarke 1866)				Coordinate System:		Well Centre			
Sys Datum: Mean Sea Level				Geomagnetic Model:		igrf2005			

Site: Esperanza 13 #2					
Site Position:		Northing: 504414.40 ft		Latitude: 32 23 12.187 N	
From: Map		Easting: 527435.20 ft		Longitude: 104 14 40.042 W	
Position Uncertainty: 0.00 ft				North Reference: Grid	
Ground Level: 3151.00 ft				Grid Convergence: -0.02 deg	

Well: Esperanza 13 #2				Slot Name:			
Well Position: +N/-S 0.00 ft		Northing: 504414.40 ft		Latitude: 32 23 12.187 N			
+E/-W 0.00 ft		Easting: 527435.20 ft		Longitude: 104 14 40.042 W			
Position Uncertainty: 0.00 ft							

Wellpath: Original Hole				Drilled From: Surface	
Current Datum: SITE		Height 0.00 ft		Tie-on Depth: 0.00 ft	
Magnetic Data: 2/22/2005				Above System Datum: Mean Sea Level	
Field Strength: 49287 nT				Declination: 8.70 deg	
Vertical Section: Depth From (TVD)		+N/-S ft		Mag Dip Angle: 60.34 deg	
ft		ft		+E/-W ft	
0.00		0.00		0.00	
				50.89	
				Direction deg	

Plan: Plan #1 022105				Date Composed: 2/21/2005	
Principal: No				Version: 1	
				Tied-to: From Surface	

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TPO deg	Target
0.00	0.00	50.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	50.89	3400.00	0.00	0.00	0.00	0.00	0.00	50.89	
4352.10	19.04	50.89	4334.67	98.88	121.65	2.00	2.00	0.00	50.89	
9661.75	19.04	50.89	9353.77	1191.56	1465.91	0.00	0.00	0.00	0.00	
10931.22	0.00	50.89	10600.00	1323.40	1628.10	1.50	-1.50	0.00	180.00	Esperanza 13-2 Vertical 1
11423.22	0.00	50.89	11092.00	1323.40	1628.10	0.00	0.00	0.00	0.00	Top of Morrow Sand
12031.22	0.00	50.89	11700.00	1323.40	1628.10	0.00	0.00	0.00	0.00	Esperanza 13 #2 PBHL

Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	50.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	50.89	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	50.89	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	50.89	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	50.89	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	50.89	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	50.89	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	50.89	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	50.89	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	50.89	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	50.89	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	50.								

PathFinder

Planning Report

Company: PURE Resources	Date: 2/22/2005	Time: 11:03:35	Page: 2
Field: Esperanza	Co-ordinate(NE) Reference:	Well: Esperanza 13 #2, Grid North	
Site: Esperanza 13 #2	Vertical (TVD) Reference:	SITE 0.0	
Well: Esperanza 13 #2	Section (VS) Reference:	Well (0.00N,0.00E,50.89Azi)	
Wellpath: Original Hole	Plan:	Plan #1 022105	

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1500.00	0.00	50.89	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	50.89	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	50.89	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	50.89	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	50.89	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	50.89	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	50.89	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	50.89	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	50.89	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	50.89	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	50.89	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	50.89	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	50.89	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	50.89	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	50.89	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	50.89	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	50.89	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	50.89	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	50.89	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	50.89	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP w/2° Build Rates
3500.00	2.00	50.89	3499.98	1.10	1.35	1.75	2.00	2.00	0.00	
3600.00	4.00	50.89	3599.84	4.40	5.42	6.98	2.00	2.00	0.00	
3700.00	6.00	50.89	3699.45	9.90	12.18	15.69	2.00	2.00	0.00	
3800.00	8.00	50.89	3798.70	17.59	21.63	27.88	2.00	2.00	0.00	
3900.00	10.00	50.89	3897.47	27.45	33.77	43.52	2.00	2.00	0.00	
4000.00	12.00	50.89	3995.62	39.49	48.58	62.60	2.00	2.00	0.00	
4100.00	14.00	50.89	4093.06	53.68	66.03	85.10	2.00	2.00	0.00	
4200.00	16.00	50.89	4189.64	70.00	86.12	110.98	2.00	2.00	0.00	
4300.00	18.00	50.89	4285.27	88.44	108.80	140.21	2.00	2.00	0.00	
4352.10	19.04	50.89	4334.67	98.88	121.65	156.76	2.00	2.00	0.00	End of Build @ 19° Incln
4400.00	19.04	50.89	4379.95	108.74	133.77	172.39	0.00	0.00	0.00	
4500.00	19.04	50.89	4474.48	129.32	159.09	205.02	0.00	0.00	0.00	
4600.00	19.04	50.89	4569.00	149.89	184.41	237.64	0.00	0.00	0.00	
4700.00	19.04	50.89	4663.53	170.47	209.72	270.27	0.00	0.00	0.00	
4800.00	19.04	50.89	4758.06	191.05	235.04	302.90	0.00	0.00	0.00	
4900.00	19.04	50.89	4852.59	211.63	260.36	335.52	0.00	0.00	0.00	
5000.00	19.04	50.89	4947.12	232.21	285.68	368.15	0.00	0.00	0.00	
5100.00	19.04	50.89	5041.64	252.79	310.99	400.77	0.00	0.00	0.00	
5200.00	19.04	50.89	5136.17	273.37	336.31	433.40	0.00	0.00	0.00	
5300.00	19.04	50.89	5230.70	293.95	361.63	466.03	0.00	0.00	0.00	
5400.00	19.04	50.89	5325.23	314.53	386.94	498.65	0.00	0.00	0.00	
5500.00	19.04	50.89	5419.76	335.11	412.26	531.28	0.00	0.00	0.00	
5600.00	19.04	50.89	5514.28	355.69	437.58	563.90	0.00	0.00	0.00	
5700.00	19.04	50.89	5608.81	376.27	462.90	596.53	0.00	0.00	0.00	
5800.00	19.04	50.89	5703.34	396.84	488.21	629.16	0.00	0.00	0.00	
5900.00	19.04	50.89	5797.87	417.42	513.53	661.78	0.00	0.00	0.00	
6000.00	19.04	50.89	5892.40	438.00	538.85	694.41	0.00	0.00	0.00	
6100.00	19.04	50.89	5986.92	458.58	564.17	727.04	0.00	0.00	0.00	
6200.00	19.04	50.89	6081.45	479.16	589.48	759.66	0.00	0.00	0.00	
6300.00	19.04	50.89	6175.98	499.74	614.80	792.29	0.00	0.00	0.00	
6400.00	19.04	50.89	6270.51	520.32	640.12	824.91	0.00	0.00	0.00	
6500.00	19.04	50.89	6365.03	540.90	665.44	857.54	0.00	0.00	0.00	
6600.00	19.04	50.89	6459.56	561.48	690.75	890.17	0.00	0.00	0.00	

PathFinder

Planning Report

Company: PURE Resources
 Field: Esperanza
 Site: Esperanza 13 #2
 Well: Esperanza 13 #2
 Wellpath: Original Hole

Date: 2/22/2005 Time: 11:03:35 Page: 3
 Co-ordinate(NE) Reference: Well: Esperanza 13 #2, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,50.89Azi)
 Plan: Plan #1 022105

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6700.00	19.04	50.89	6554.09	582.06	716.07	922.79	0.00	0.00	0.00	
6800.00	19.04	50.89	6648.62	602.64	741.39	955.42	0.00	0.00	0.00	
6900.00	19.04	50.89	6743.15	623.22	766.71	988.05	0.00	0.00	0.00	
7000.00	19.04	50.89	6837.67	643.79	792.02	1020.67	0.00	0.00	0.00	
7100.00	19.04	50.89	6932.20	664.37	817.34	1053.30	0.00	0.00	0.00	
7200.00	19.04	50.89	7026.73	684.95	842.66	1085.92	0.00	0.00	0.00	
7300.00	19.04	50.89	7121.26	705.53	867.97	1118.55	0.00	0.00	0.00	
7400.00	19.04	50.89	7215.79	726.11	893.29	1151.18	0.00	0.00	0.00	
7500.00	19.04	50.89	7310.31	746.69	918.61	1183.80	0.00	0.00	0.00	
7600.00	19.04	50.89	7404.84	767.27	943.93	1216.43	0.00	0.00	0.00	
7700.00	19.04	50.89	7499.37	787.85	969.24	1249.06	0.00	0.00	0.00	
7800.00	19.04	50.89	7593.90	808.43	994.56	1281.68	0.00	0.00	0.00	
7900.00	19.04	50.89	7688.43	829.01	1019.88	1314.31	0.00	0.00	0.00	
8000.00	19.04	50.89	7782.95	849.59	1045.20	1346.93	0.00	0.00	0.00	
8100.00	19.04	50.89	7877.48	870.17	1070.51	1379.56	0.00	0.00	0.00	
8200.00	19.04	50.89	7972.01	890.75	1095.83	1412.19	0.00	0.00	0.00	
8300.00	19.04	50.89	8066.54	911.32	1121.15	1444.81	0.00	0.00	0.00	
8400.00	19.04	50.89	8161.07	931.90	1146.47	1477.44	0.00	0.00	0.00	
8500.00	19.04	50.89	8255.59	952.48	1171.78	1510.07	0.00	0.00	0.00	
8600.00	19.04	50.89	8350.12	973.06	1197.10	1542.69	0.00	0.00	0.00	
8700.00	19.04	50.89	8444.65	993.64	1222.42	1575.32	0.00	0.00	0.00	
8800.00	19.04	50.89	8539.18	1014.22	1247.73	1607.94	0.00	0.00	0.00	
8900.00	19.04	50.89	8633.71	1034.80	1273.05	1640.57	0.00	0.00	0.00	
9000.00	19.04	50.89	8728.23	1055.38	1298.37	1673.20	0.00	0.00	0.00	
9100.00	19.04	50.89	8822.76	1075.96	1323.69	1705.82	0.00	0.00	0.00	
9200.00	19.04	50.89	8917.29	1096.54	1349.00	1738.45	0.00	0.00	0.00	
9300.00	19.04	50.89	9011.82	1117.12	1374.32	1771.08	0.00	0.00	0.00	
9400.00	19.04	50.89	9106.34	1137.70	1399.64	1803.70	0.00	0.00	0.00	
9500.00	19.04	50.89	9200.87	1158.27	1424.96	1836.33	0.00	0.00	0.00	
9600.00	19.04	50.89	9295.40	1178.85	1450.27	1868.95	0.00	0.00	0.00	
9661.75	19.04	50.89	9353.77	1191.56	1465.81	1889.10	0.00	0.00	0.00	
9700.00	18.47	50.89	9389.99	1199.32	1475.45	1901.40	1.50	-1.50	0.00	End of Hold/Begin Drop to
9800.00	16.97	50.89	9485.24	1218.51	1499.07	1931.83	1.50	-1.50	0.00	
9900.00	15.47	50.89	9581.26	1238.13	1520.74	1959.76	1.50	-1.50	0.00	
10000.00	13.97	50.89	9677.98	1252.16	1540.45	1985.17	1.50	-1.50	0.00	
10100.00	12.47	50.89	9775.33	1266.58	1558.20	2008.03	1.50	-1.50	0.00	
10200.00	10.97	50.89	9873.24	1279.39	1573.95	2028.34	1.50	-1.50	0.00	
10300.00	9.47	50.89	9971.65	1290.58	1587.72	2046.08	1.50	-1.50	0.00	
10400.00	7.97	50.89	10070.49	1300.14	1599.48	2061.24	1.50	-1.50	0.00	
10500.00	6.47	50.89	10169.70	1308.06	1609.23	2073.80	1.50	-1.50	0.00	
10600.00	4.97	50.89	10269.20	1314.35	1616.96	2083.77	1.50	-1.50	0.00	
10700.00	3.47	50.89	10368.92	1318.99	1622.67	2091.12	1.50	-1.50	0.00	
10800.00	1.97	50.89	10468.81	1321.98	1626.35	2095.86	1.50	-1.50	0.00	
10900.00	0.47	50.89	10568.78	1323.32	1628.00	2097.99	1.50	-1.50	0.00	
10831.22	0.00	50.89	10600.00	1323.40	1628.10	2098.12	1.50	-1.50	0.00	Esperanza 13-2 Vertical 1
11000.00	0.00	50.89	10668.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11100.00	0.00	50.89	10768.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11200.00	0.00	50.89	10868.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11300.00	0.00	50.89	10968.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11400.00	0.00	50.89	11068.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11423.22	0.00	50.89	11092.00	1323.40	1628.10	2098.12	0.00	0.00	0.00	Top of Morrow Sand
11500.00	0.00	50.89	11168.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11600.00	0.00	50.89	11268.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	

PathFinder

Planning Report

Company: PURE Resources
 Field: Esperanza
 Site: Esperanza 13 #2
 Well: Esperanza 13 #2
 Wellpath: Original Hole

Date: 2/22/2005 Time: 11:03:35 Page: 4
 Co-ordinate(NE) Reference: Well: Esperanza 13 #2, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,50.88Azi)
 Plan: Plan #1 022105

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
11700.00	0.00	50.89	11368.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11800.00	0.00	50.89	11468.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
11900.00	0.00	50.89	11568.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
12000.00	0.00	50.89	11668.78	1323.40	1628.10	2098.12	0.00	0.00	0.00	
12031.22	0.00	50.89	11700.00	1323.40	1628.10	2098.12	0.00	0.00	0.00	Esperanza 13 #2 PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Carlsbad 13 Com #1 -Circle (Radius: 210)		0.00	1050.40	239.40	505464.71	527674.58	32 23 22.579 N	104 14 37.240 W
Carlsbad State #1 -Circle (Radius: 100)		0.00	66.50	308.10	504480.89	527743.27	32 23 12.842 N	104 14 36.449 W
Esperanza 13-2 Vertical 10600' -Plan hit target		10600.00	1323.40	1628.10	505737.68	529063.15	32 23 25.268 N	104 14 21.043 W
Top of Morrow Sand -Plan hit target		11092.00	1323.40	1628.10	505737.68	529063.15	32 23 25.268 N	104 14 21.043 W
Esperanza 13 #2 PBHL -Plan hit target		11700.00	1323.40	1628.10	505737.68	529063.15	32 23 25.268 N	104 14 21.043 W

Annotation

MD ft	TVD ft	
3400.00	3400.00	KOP w/2" Build Rates
4352.10	4334.67	End of Build @ 19" Inclination
9661.75	9353.77	End of Hold/Begin Drop to Vertical

Esperanza 13-2
Section 13, T22-S, R26-E
Eddy County, New Mexico

PURE Resources
500 W. Illinois Avenue
Midland, TX 79701

PATHFINDER

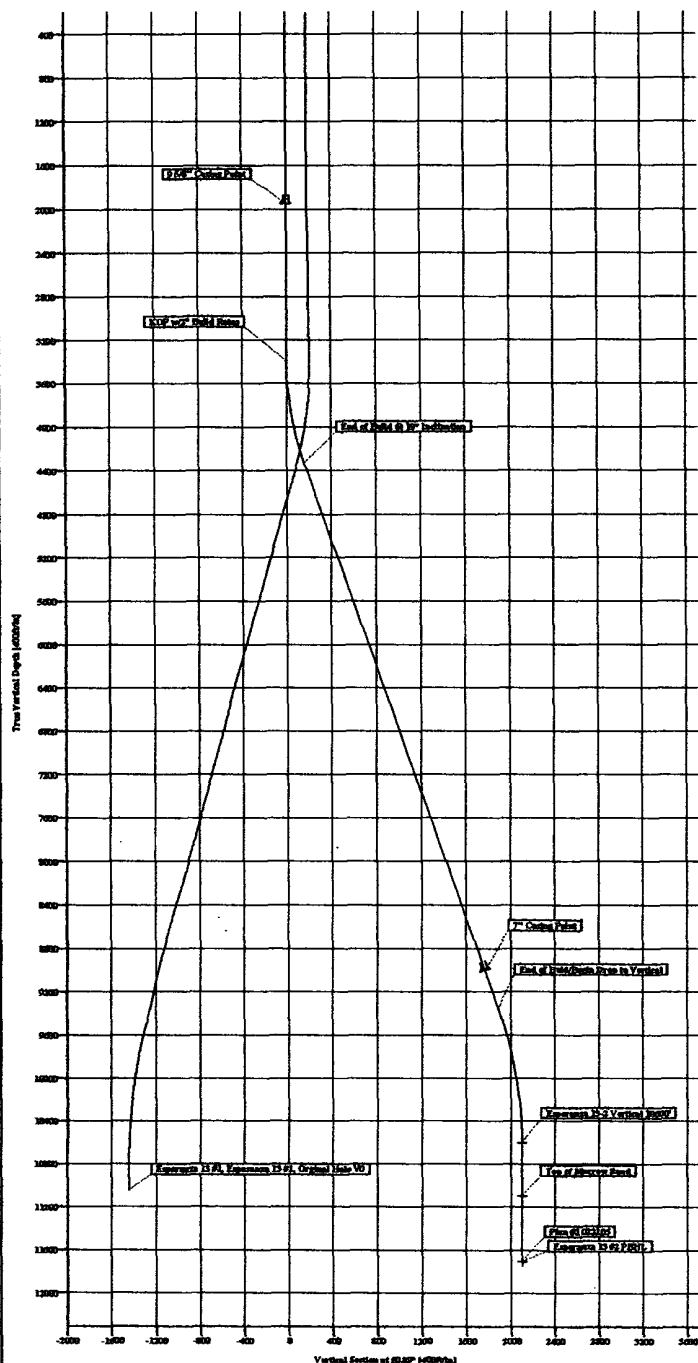
ENERGY SERVICES

FIELD DETAILS

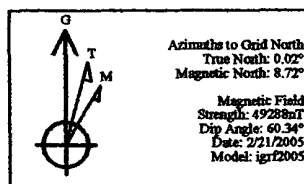
Esperanza
Eddy County, New Mexico

Geodetic System: US State Plane Coordinate System 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico, Eastern Zone
 Magnetic Model: igr2003

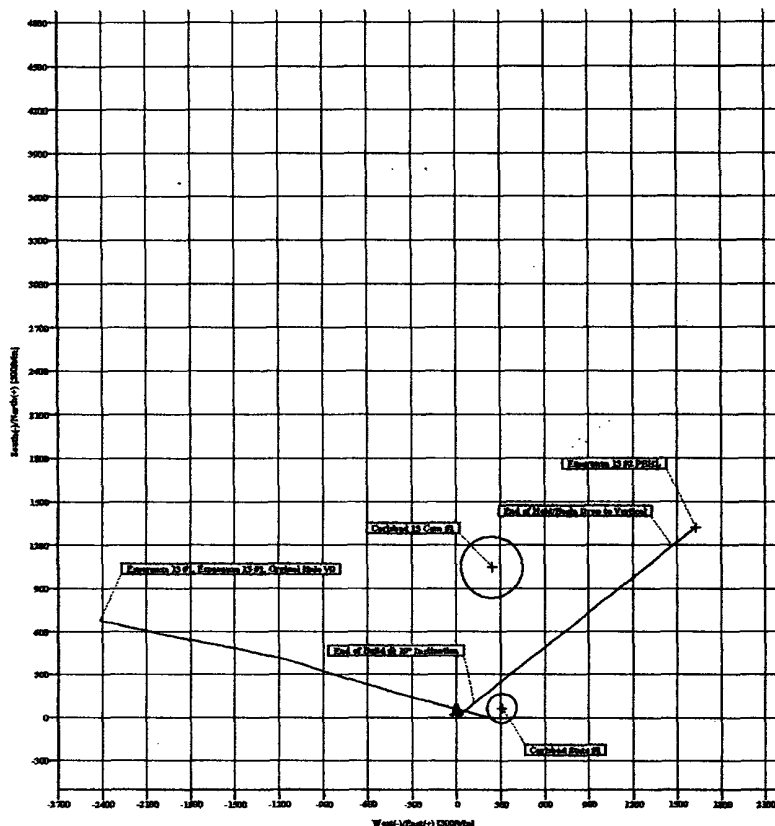
System Datum: Mean Sea Level
 Local North: Grid North



WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shot
Emersanz 13 #2	0.00	0.00	504414.40	527435.20	32°23'12.895N	104°22'42.149W	N/A



SITE DETAILS
Esperanza 13 #2
 Site Centre Northing: 504414.40
 Easting: 527435.20
 Water Depth: 0.00
 Positional Uncertainty: 0.00
 Convergence: -0.02



Print: Page 61 of 62125 (Signature:) (Original:)

Pure Resources, L. P.
Esperanza "13" Well No. 2
621' FSL & 2,287' FEL
UL O, Sec. 13, T-22-S, R-26-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 it's 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**

**ESPERANZA 13 #2
SECTION 13, TRACT T22S, RANGE 26E
CARLSBAD MORROW SOUTH FIELD
EDDY COUNTY, NEW MEXICO
2/17/05**

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

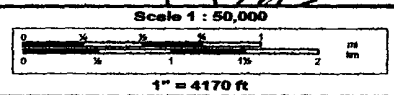
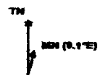
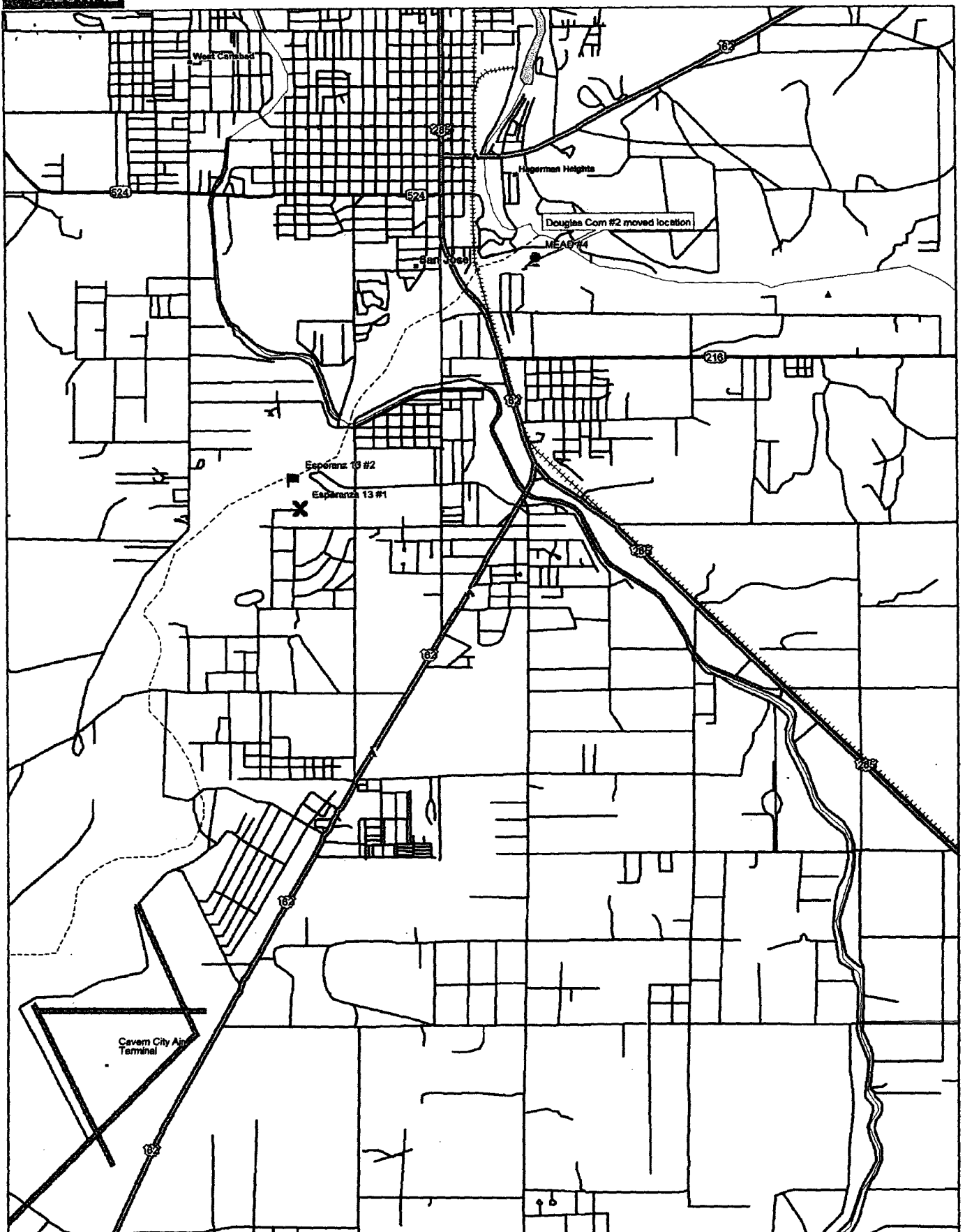
This contingency plan establishes guidelines for the public, all company employees, and contract employees whose work activities may involve exposure to Hydrogen Sulfide gas (H₂S).

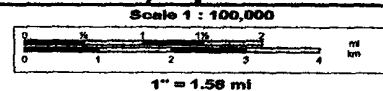
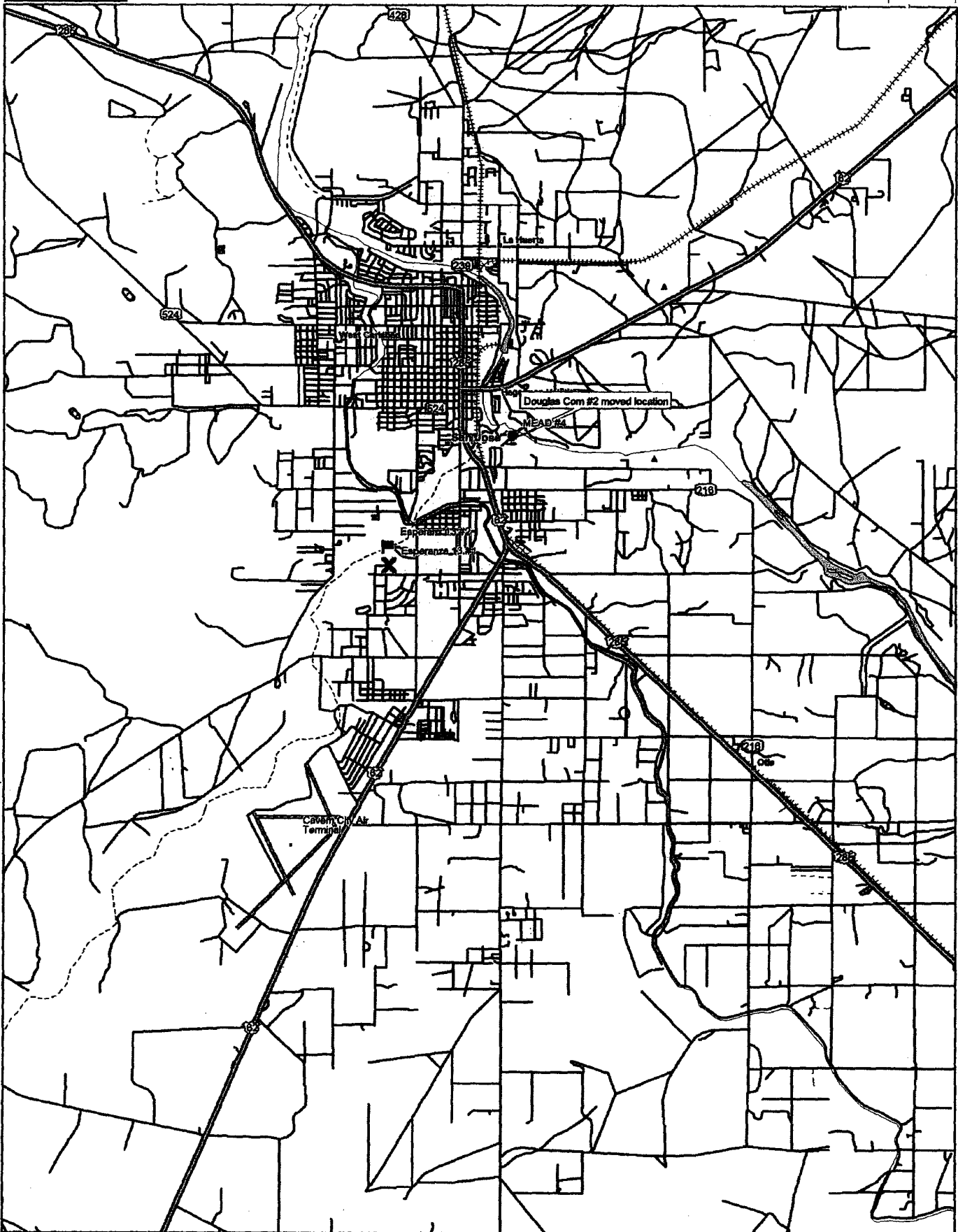
OBJECTIVE

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 Carlsbad, NM at the intersection of Rose and Boyd Street (Approximately 2 miles South and 0.5 miles West of Carlsbad). Go West 0.4 miles on calich road (West side of Boyd Street). Turn right go 0.2 miles to the 13 #1 location. This location is on the west side of the pad.





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Maps

Carlsbad Medical Center

2430 W Pierce, Carlsbad, NM 88220

(505) 887-4100

(505) 887-4256 (fax)

[business profile](#) | [map](#) | [driving directions](#)

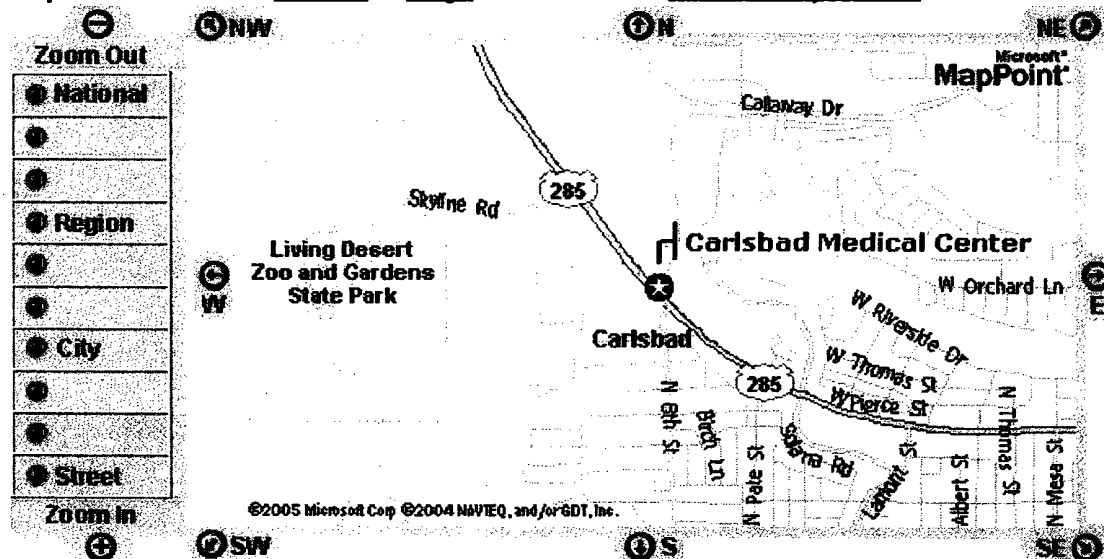
<http://www.carlsbadmedicalcenter.verizonsupersite.com>

Appears in the Categories:

[Health & Wellness Programs](#), [Hospitals](#), [Physicians & Surgeons](#), [Rehabilitation Services](#), [Surgical Centers](#)

Map Size: [Small](#) [Medium](#) [Large](#)

[Print-Friendly Version](#)



Click map to recenter.

Click compass directions to move map.

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EMERGENCY PROCEDURES AND RESPONSIBILITIES

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.

EMERGENCY NOTIFICATION / EVACUATION PLAN

EVACUATION PLAN

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

1. 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.

EMERGENCY NOTIFICATION / EVACUATION PLAN

PURE RESOURCES EMERGENCY COMMUNICATION LIST

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

	Name	Title	Office Number	Home Number	Cell Phone	Pager
1.	Ray Matthew	Engineer	432-498-8672	432-697-0201	432-557-0623	
2.	Jerry Orndorff	Superintendent	432-498-8664	432-550-5407	432-631-4295	432-620-2898
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.	Jay Waldrop	HES	432-498-2654	432-523-9778	432-556-3547	
6.	Steve Munsell	Engineer	432-620-5671	432-550-7437	432-5572674	

7.

EMERGENCY NOTIFICATION / EVACUATION PLAN

MIDLAND WORKOVER/CONCENTRIC DEPARTMENT

Home/Cellular/Pager Numbers

<u>NAME</u>	<u>HOME</u>	<u>CELL</u>	<u>PAGER</u>
<u>Donny Leek</u>	<u>432-399-4489</u>	<u>432-634-4862 or 634-4823</u>	

CONTRACT DRILLING FOREMEN

<u>Simon Barrera</u>	<u>325-728-9024</u>	<u>325-242-1369</u>	
<u>Doug Bulman</u>	<u>432-520-5256</u>	<u>432-664-0009</u>	
<u>Larry Elvick</u>	<u>432-336-2337</u>	<u>432-631-9971</u>	<u>580-515-0530</u>
<u>Danny Kiser</u>	<u>806-788-0960</u>	<u>806-632-0759</u>	
<u>David Law</u>		<u>832-752-7259</u>	
<u>Jerry Morgan</u>	<u>432-943-2860</u>	<u>432-661-5061</u>	
<u>Mike Pellessier</u>		<u>580-513-4858</u>	
<u>Kenneth Poole</u>		<u>432-634-9431</u>	<u>432-499-4947</u>
<u>Roy Reeser</u>	<u>505-396-7601</u>	<u>505-631-9417</u>	
<u>Tony Vickery</u>	<u>432-367-6130</u>	<u>432-634-6077</u>	

EMERGENCY NOTIFICATION / EVACUATION PLAN

EMERGENCY CALL LIST

Medical Support

<u>Agency</u>	<u>Location</u>	<u>Telephone Number</u>
AXIOM Medical	Houston	281-419-7063
Carlsbad Medical Center	Carlsbad	505-887-4100

EMERGENCY NOTIFICATION / EVACUATION PLAN

EMERGENCY CALL LIST

Public Support

<u>Agency</u>	<u>Location</u>	<u>Telephone Number</u>
Carlsbad Medical Center	Carlsbad	505-887-4100
Ambulance	Carlsbad	505-885-3124
Fire Department	Carlsbad	505-885-2111

EMERGENCY NOTIFICATION / EVACUATION PLAN

EMERGENCY CALL LIST

Supplemental Equipment

MUD COMPANY

Buckeye	432-682-7422	Midland
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SAFETY COMPANY

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

BJ Services	432-683-2781	Midland
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BJ Services	505-392-6711	Hobbs
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Halliburton	505-392-7062	Hobbs
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PUMP TRUCKS / WATER HAULERS

Basic Energy	505-392-6498	Hobbs
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Pool		Carlsbad
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Key	505-885-2053	Carlsbad
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EMERGENCY NOTIFICATION / EVACUATION PLAN

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.

EMERGENCY PROCEDURES AND RESPONSIBILITIES

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.
3. 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.

EMERGENCY PROCEDURES AND RESPONSIBILITIES

NOTE

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

EMERGENCY PROCEDURES AND RESPONSIBILITIES

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.

EMERGENCY PROCEDURES AND RESPONSIBILITIES

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.

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.

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.

TRAINING PROCEDURES AND MATERIALS

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

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

TRAINING PROCEDURES AND MATERIALS

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.

TRAINING PROCEDURES AND MATERIALS

REMEMBER:

After the well is ignited, burning Hydrogen Sulfide (H_2S) will convert to Sulfur Dioxide (SO_2), which is also a highly toxic gas.

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

TRAINING PROCEDURES AND MATERIALS

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 device 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 PROCEDURES AND MATERIALS

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.

TRAINING PROCEDURES AND MATERIALS

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.

TRAINING PROCEDURES AND MATERIALS

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.

TRAINING PROCEDURES AND MATERIALS

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. Windssocks will be installed and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windssocks 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.

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.

WELL LOCATION LAYOUT AND EQUIPMENT

BLOWOUT PREVENTION EQUIPMENT

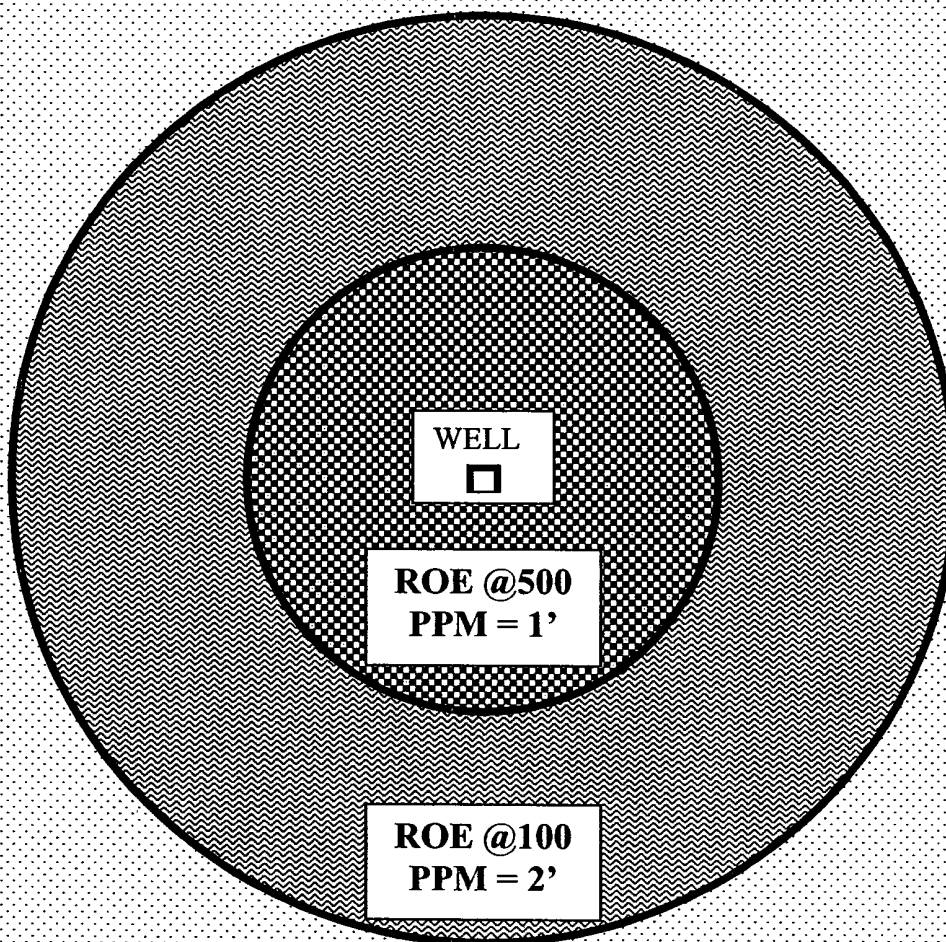
1. A kill line of ample strength and length will be laid to safe point to allow pumping into the well in an emergency situation.
2. The closing unit should be located a safe distance from the well bore and positioned for maximum utilization based on the prevailing wind direction.
3. BOP equipment will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

ESPERANZA 13 #2



SAFE ZONE (UPWIND)

PURE RESOURCES

EMERGENCY RESPONSE PLAN

SOUTHEAST NEW MEXICO

September 2, 2003

		Mobile No.	Home	Personal Cell Numbers
Mike Northcutt	Area Foreman	390-1090		
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	631-3030
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		396-9030	Lovington Combination	9156

LOVINGTON PHONE 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

EUNICE 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

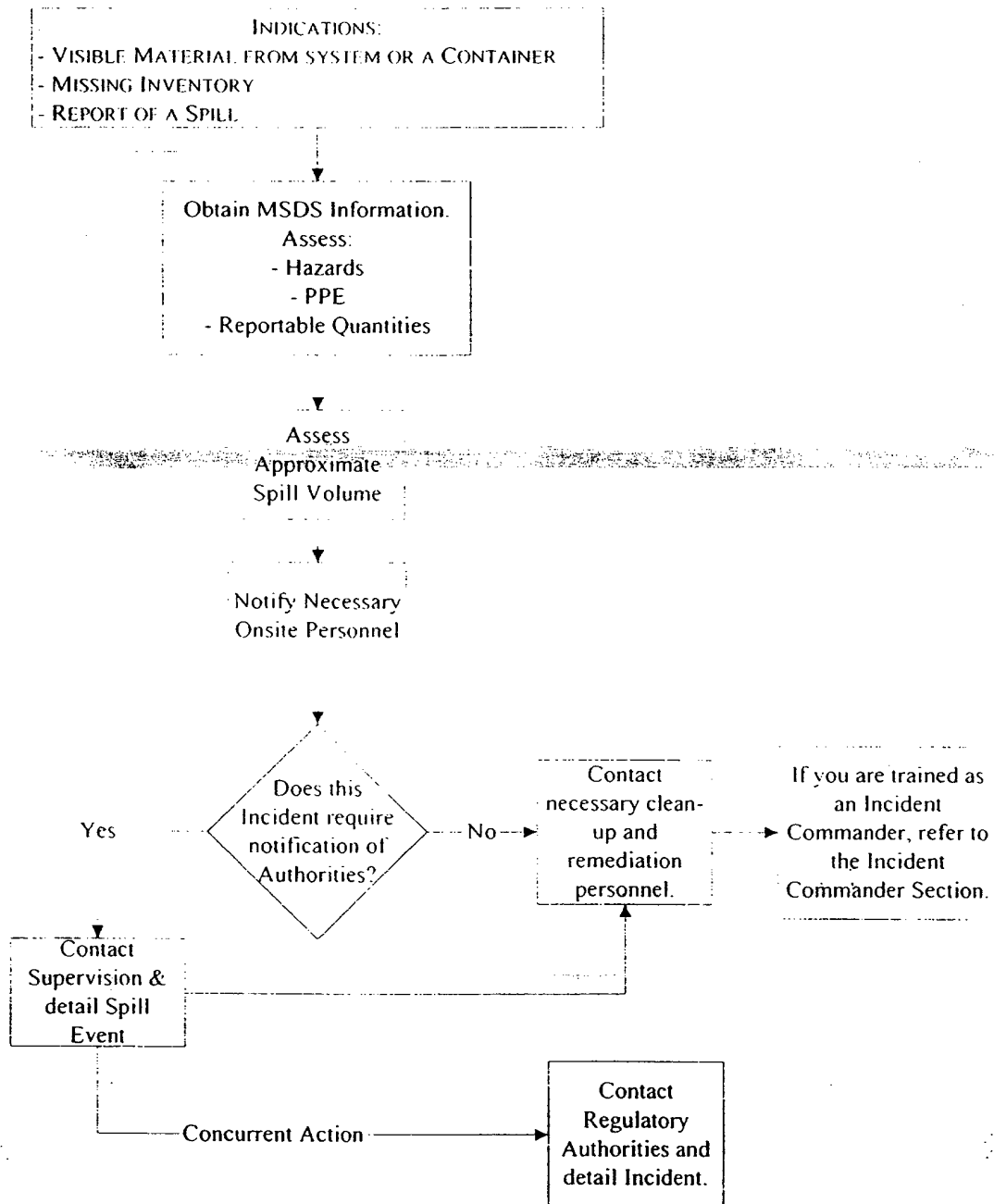
Jal Police/Fire/Ambulance	911		
Jal Police Department	395-2501		
Jal Fire Department	395-2221	NMOCD	393-6161
Jal Sheriff Office	395-2121	State Police	392-5588

CARLSBAD PHONE NUMBERS

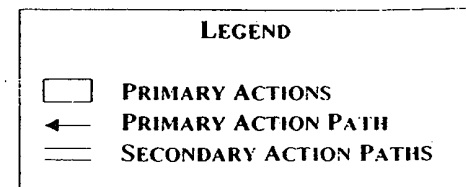
Carlsbad Police/Fire/Ambulance	911	Carlsbad City Manager	887-3798
Carlsbad Police Department	885-2111	Carlsbad Hospital	887-4100
Carlsbad Fire Department	885-3125	NMOCD	393-6161
Carlsbad Sheriff Office	887-7551	State Police	885-3137
Bureau of Land Management	234-5972		

OSHA		800-321-6742
UNOCAL COUNSEL	Mark Jones	281-491-7600
HUMAN RESOURCES	Martha Cavitt	432-498-8608

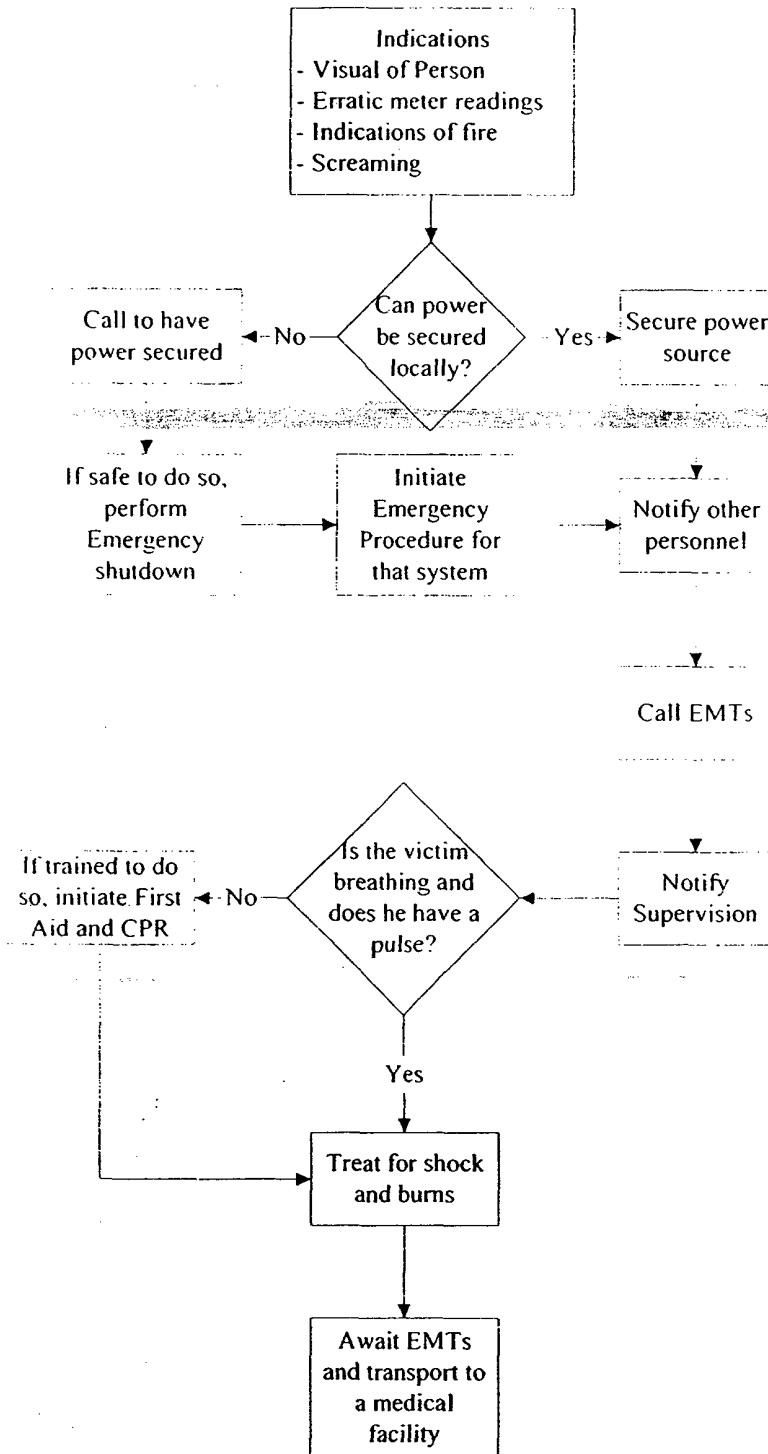
OIL SPILL OR LEAK EMERGENCY PROCEDURE FLOW CHART



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



ELECTRICAL SHOCK EMERGENCY PROCEDURE FLOW CHART

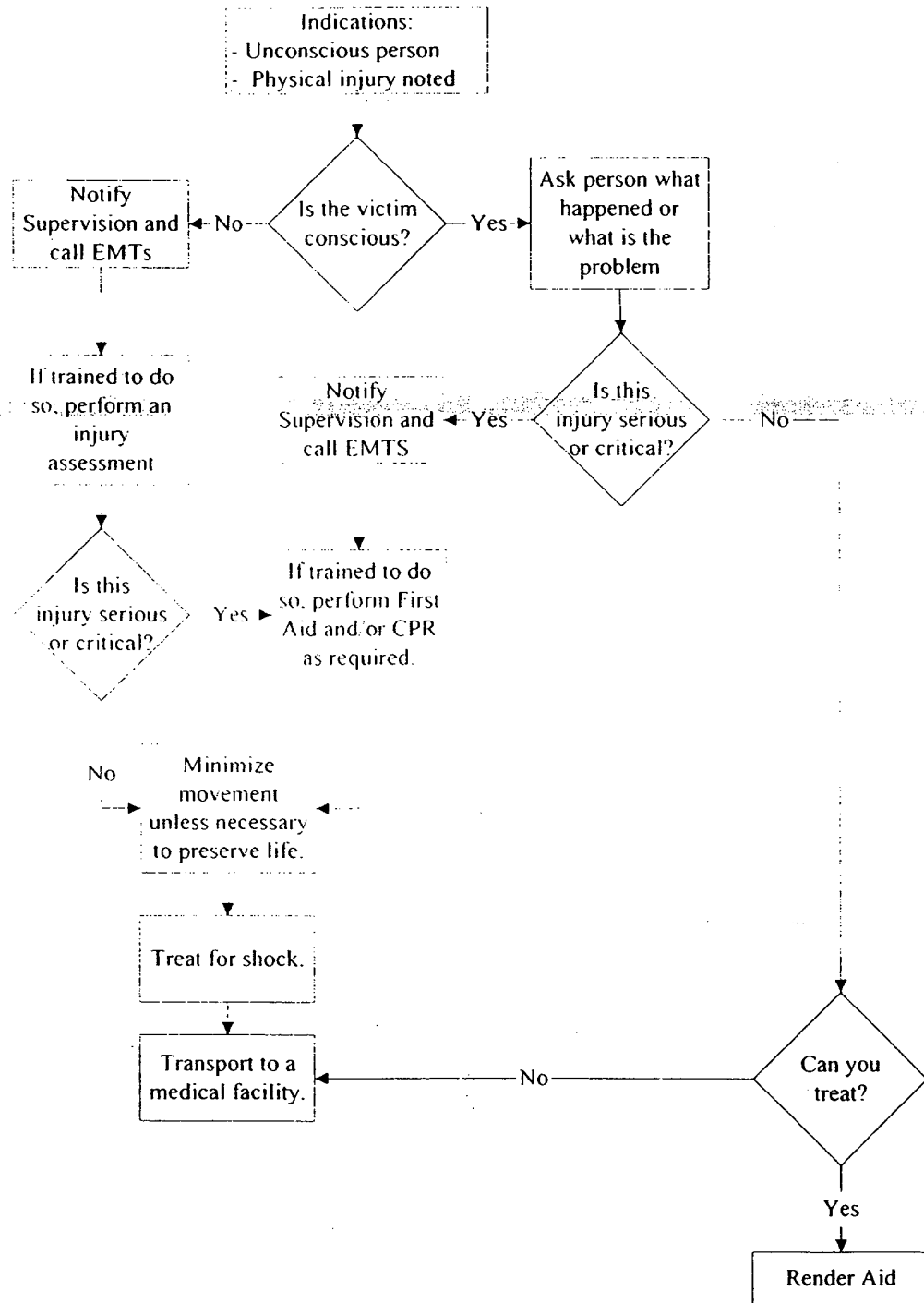


LEGEND

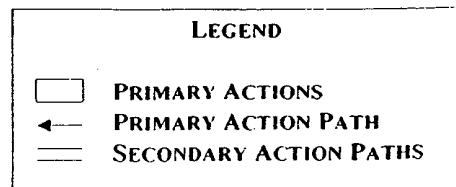
- PRIMARY ACTIONS
- PRIMARY ACTION PATH
- SECONDARY ACTION PATHS

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

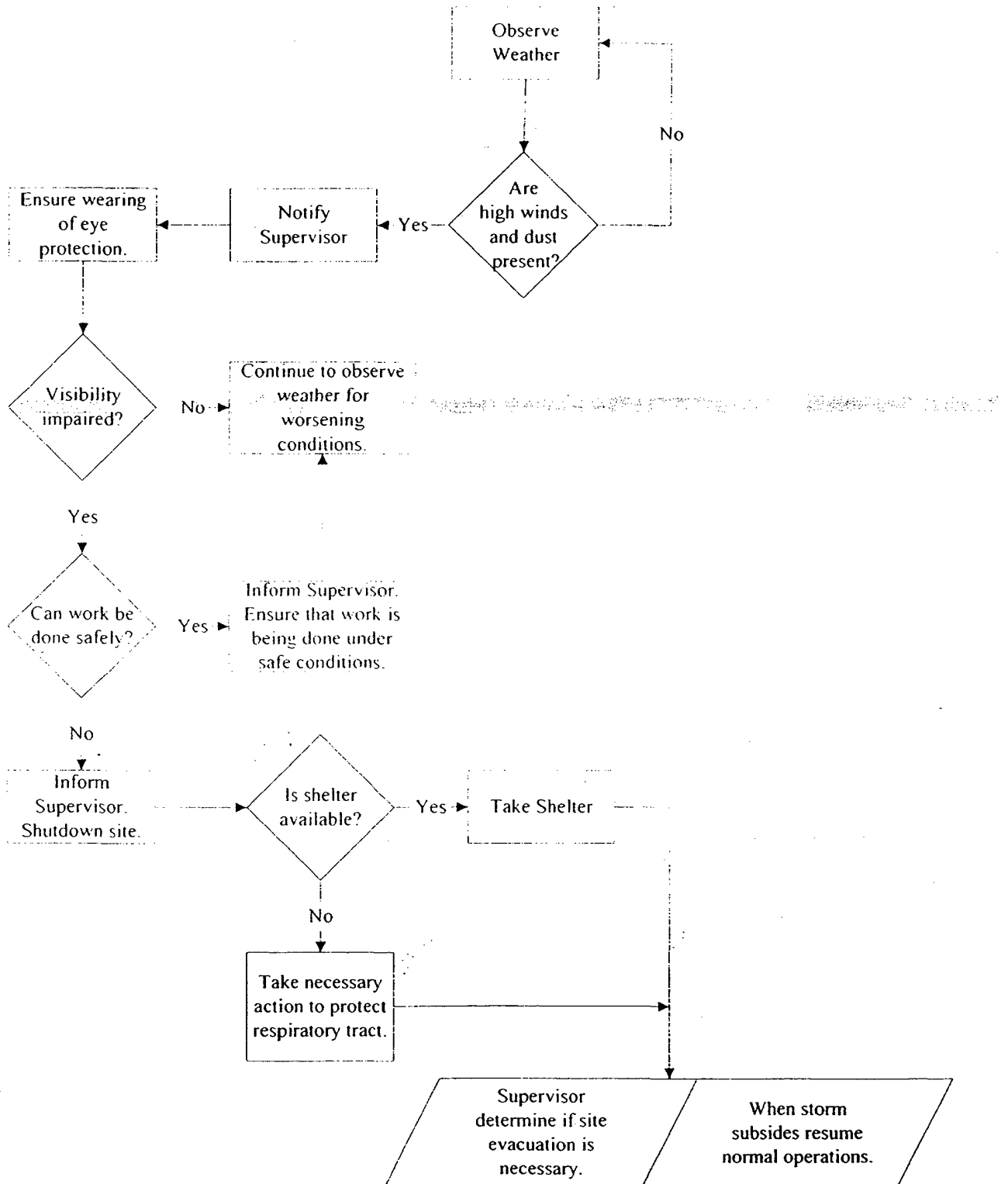
INJURED PERSON EMERGENCY PROCEDURE FLOW CHART



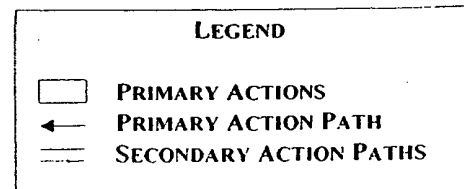
* Concurrent Actions are to be taken at the same time as other actions.



DUST STORMS EMERGENCY PROCEDURE FLOW CHART

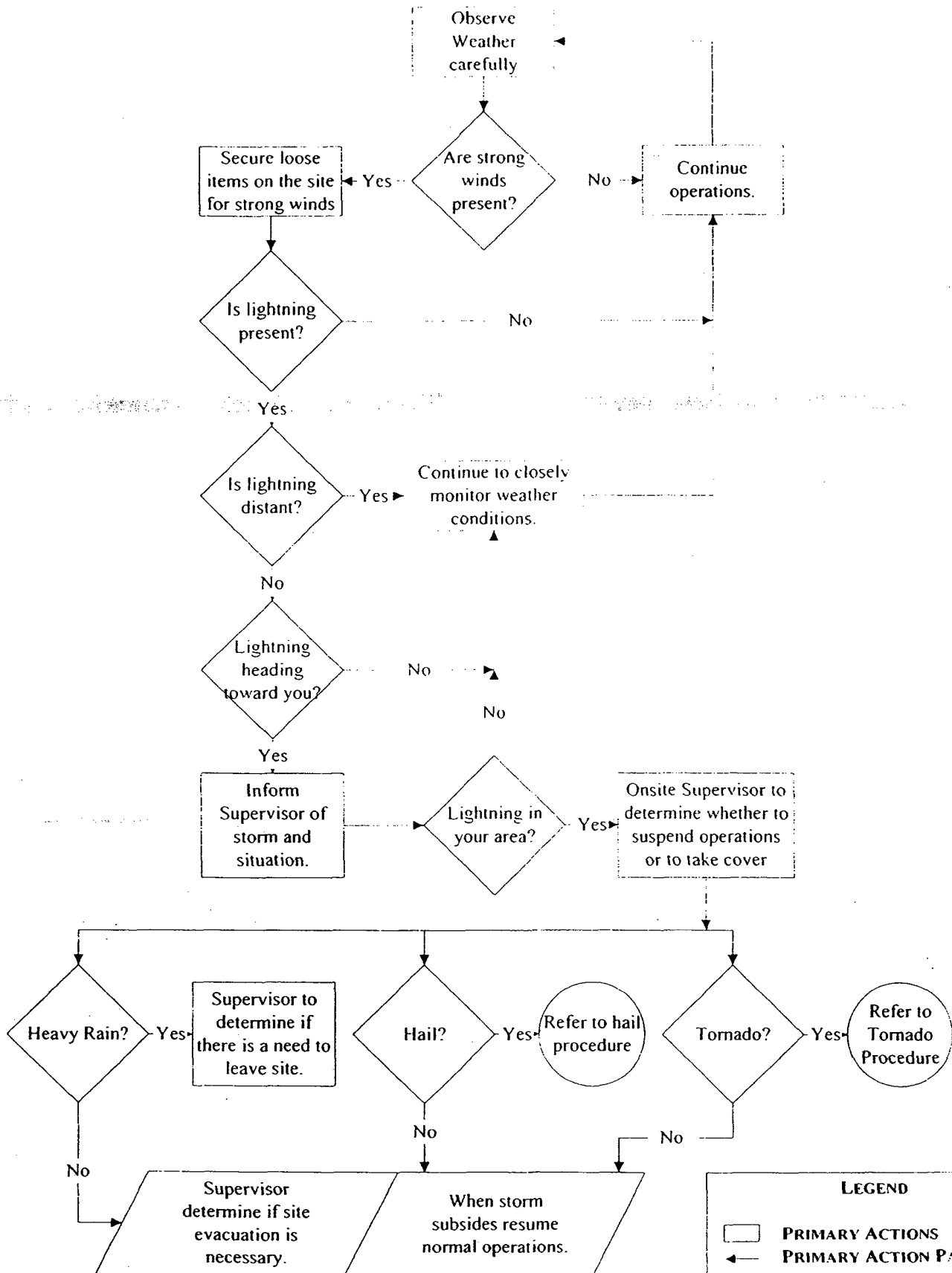


* Concurrent Actions are to be taken at the same time as other actions.

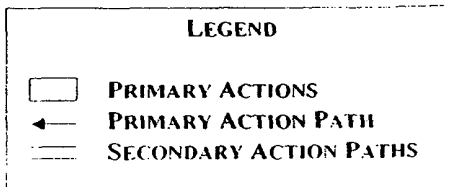


THUNDERSTORMS

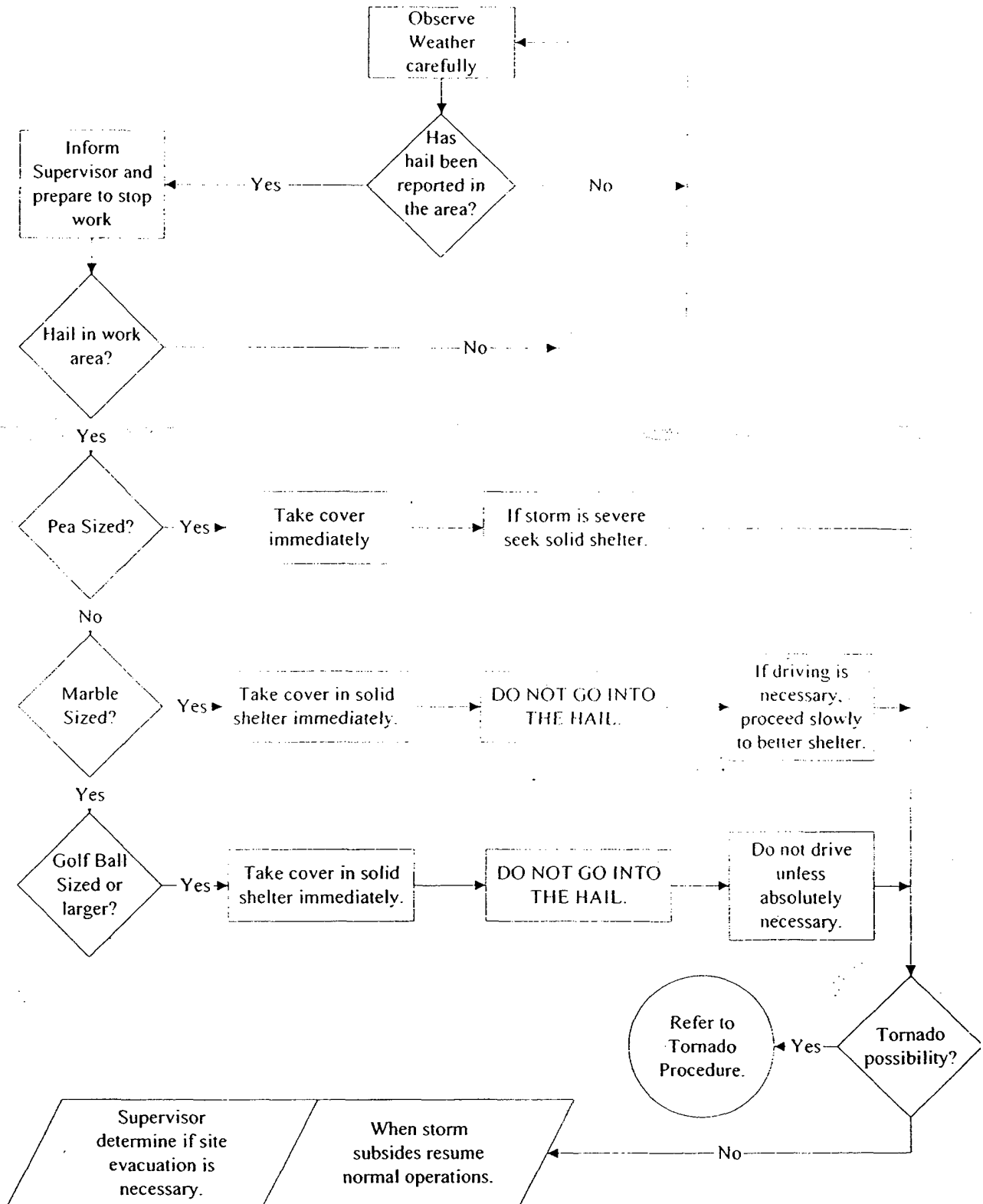
EMERGENCY PROCEDURE FLOW CHART



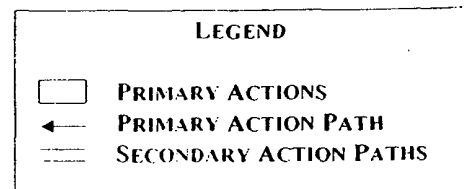
* Concurrent Actions are to be taken at the same time as other actions.



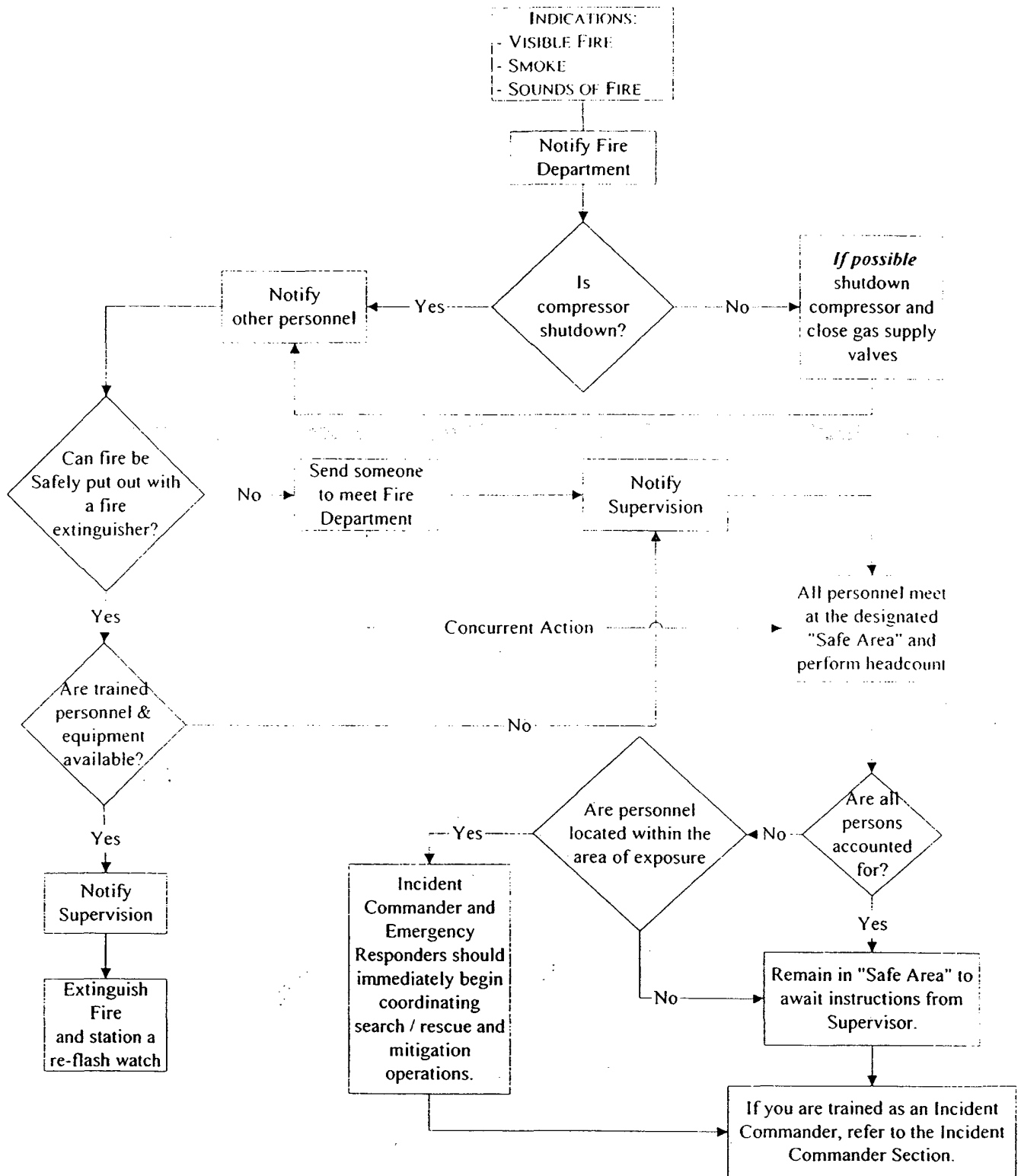
HAIL EMERGENCY PROCEDURE FLOW CHART



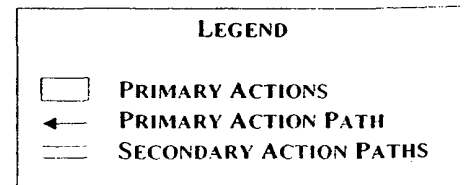
* Concurrent Actions are to be taken at the same time as other actions.



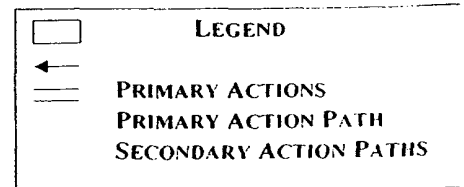
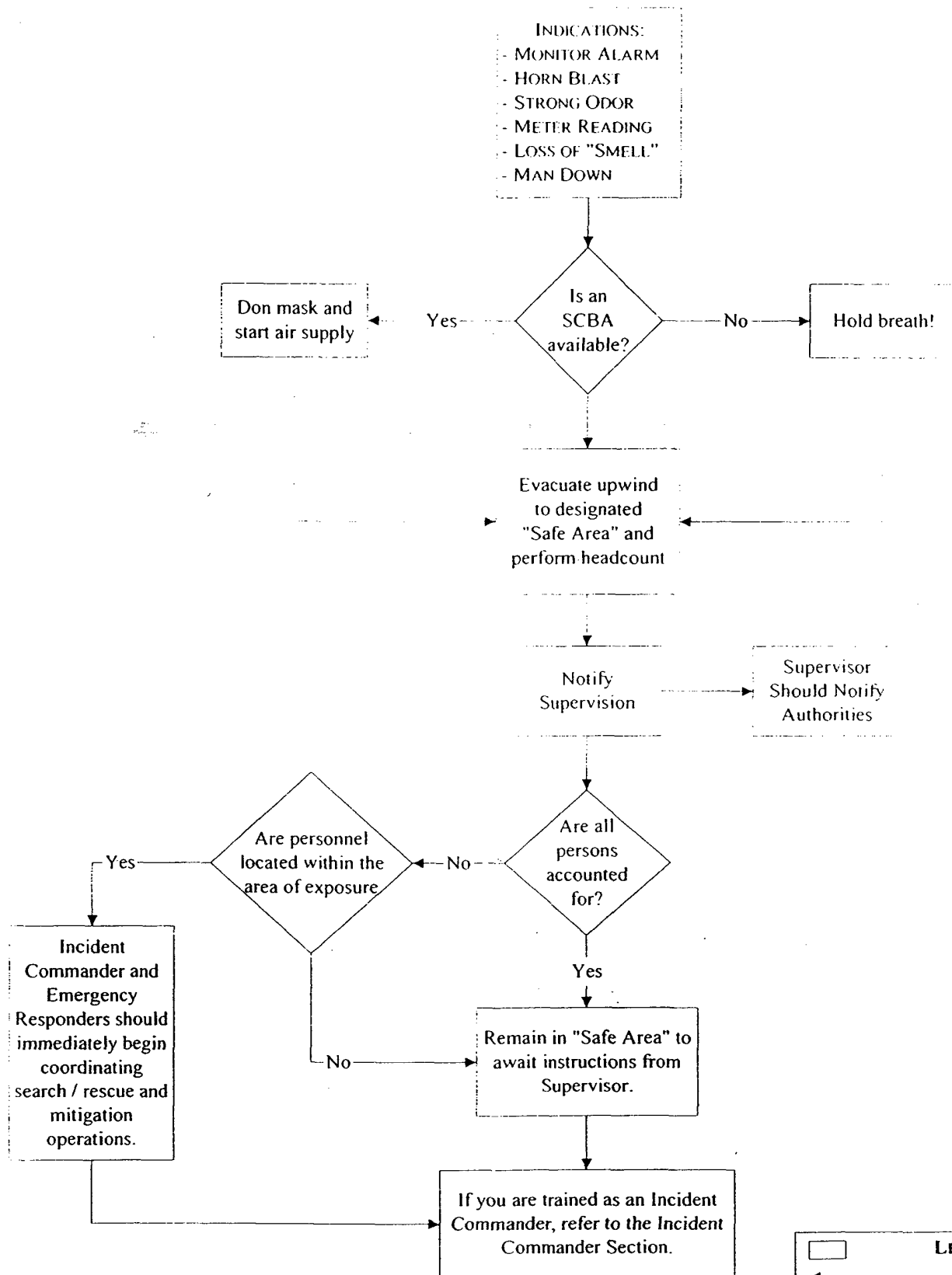
COMPRESSOR GAS LEAK / FIRE EMERGENCY PROCEDURE FLOW CHART



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

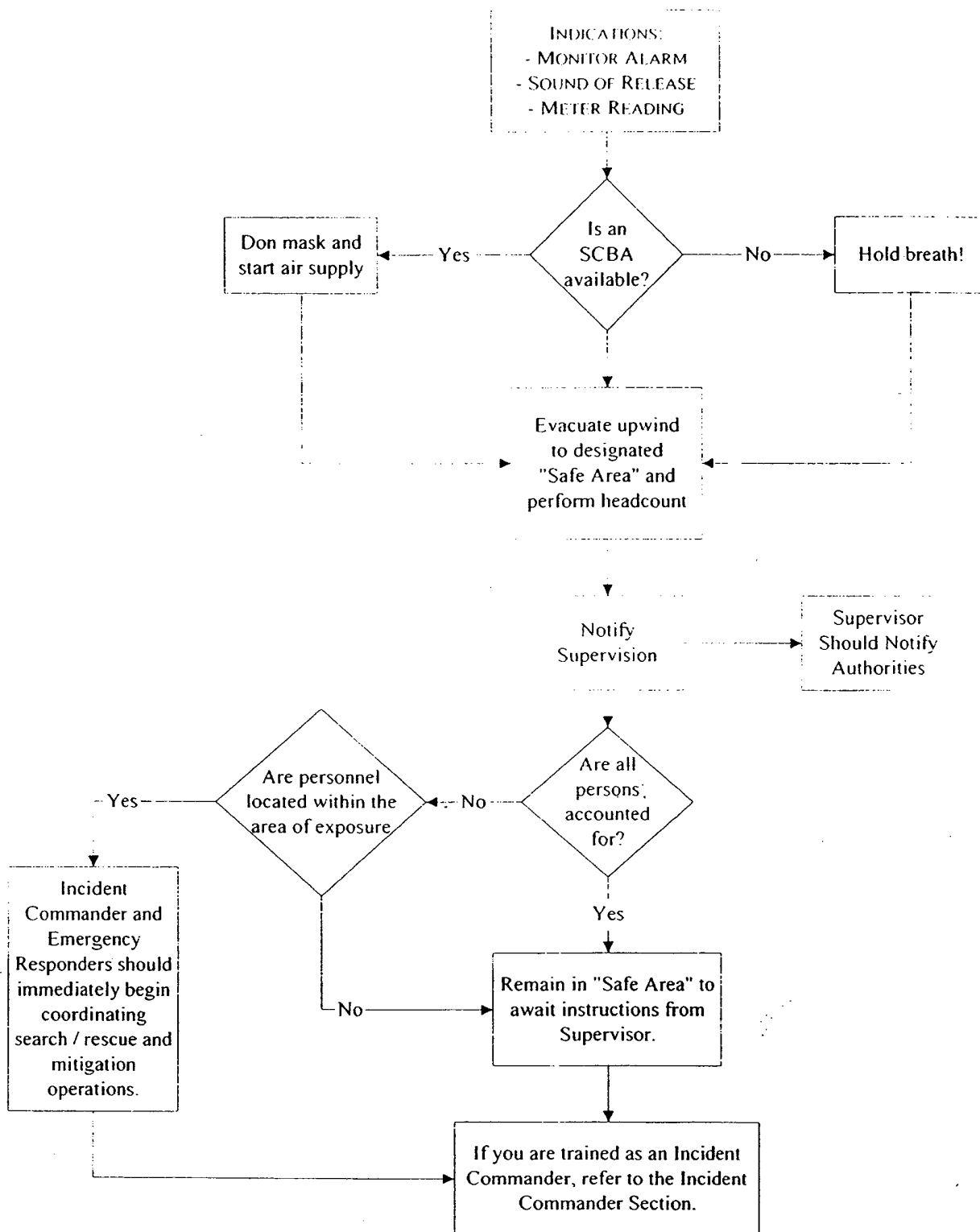


HYDROGEN SULFIDE RELEASE EMERGENCY PROCEDURE FLOW CHART

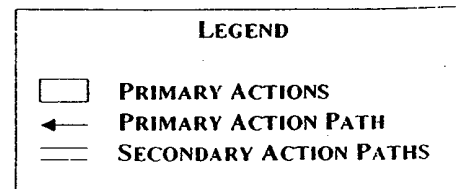


* Concurrent Actions are to be taken at the same time as other actions.

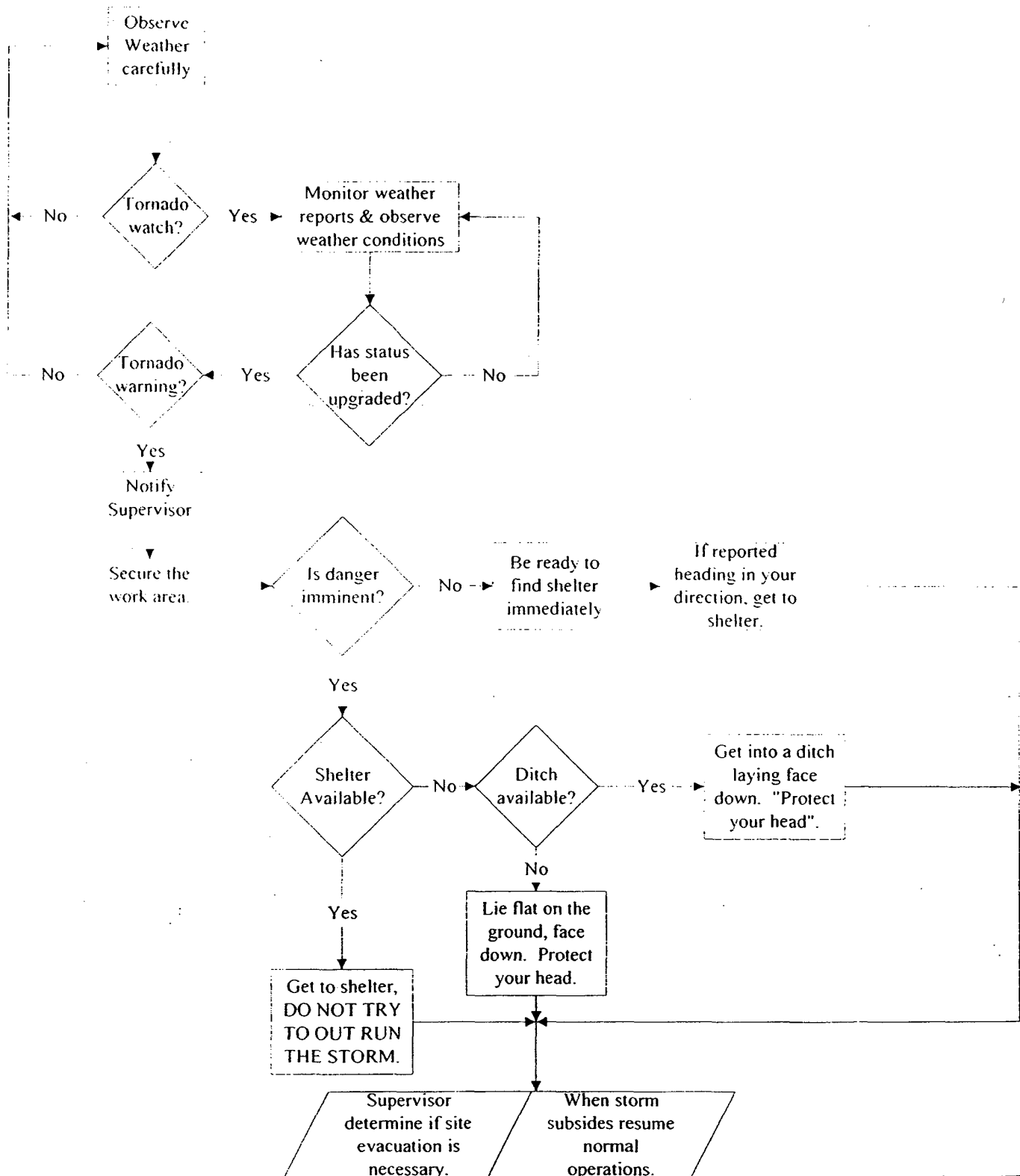
CO2 RELEASE EMERGENCY PROCEDURE FLOW CHART



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



TORNADOS EMERGENCY PROCEDURE FLOW CHART

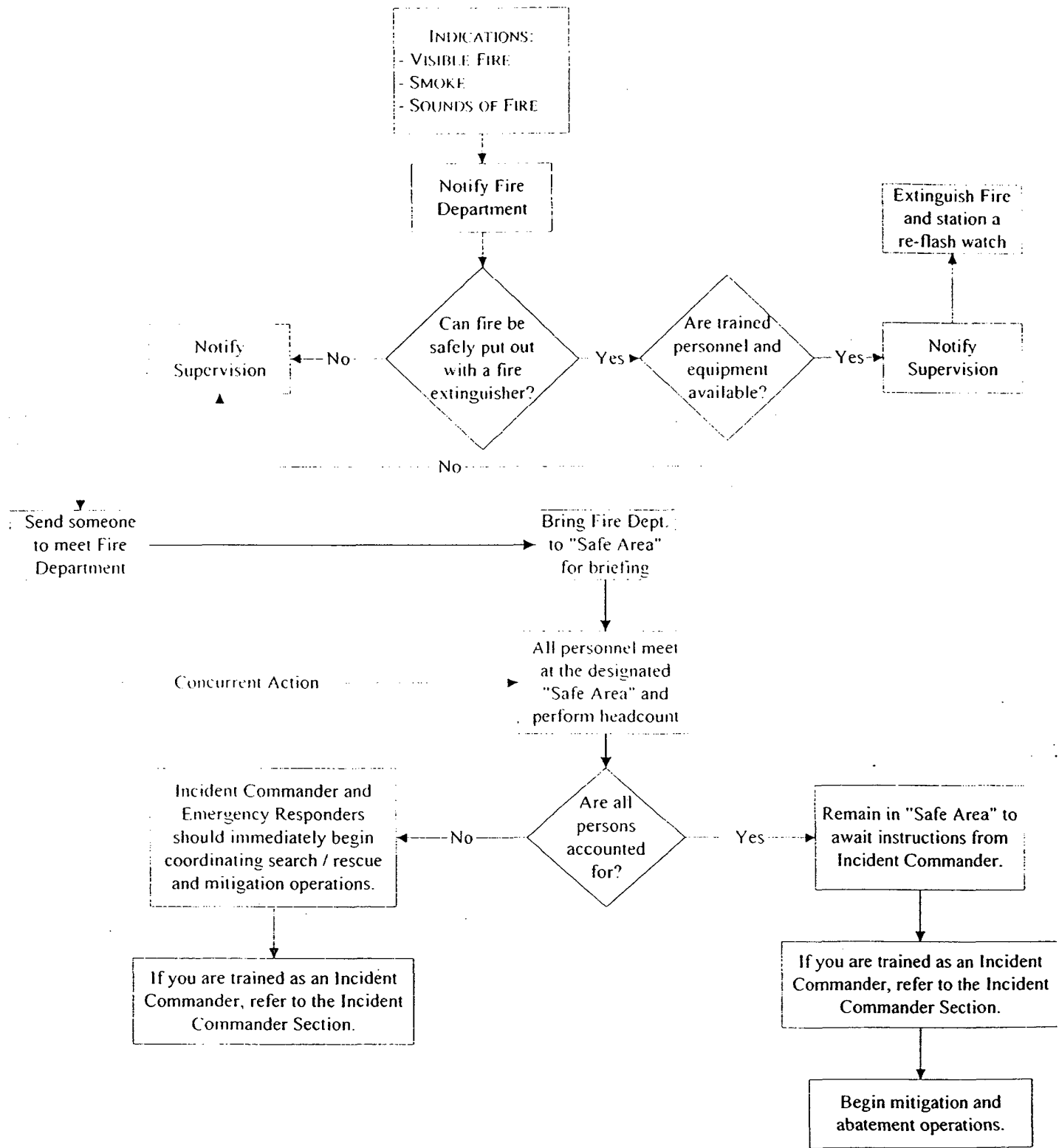


LEGEND

- PRIMARY ACTIONS
- PRIMARY ACTION PATH
- SECONDARY ACTION PATHS

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

TANK BATTERY FIRE EMERGENCY PROCEDURE FLOW CHART

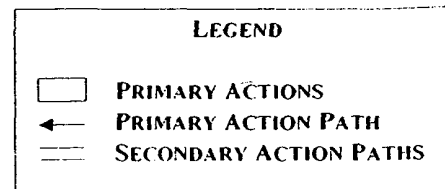
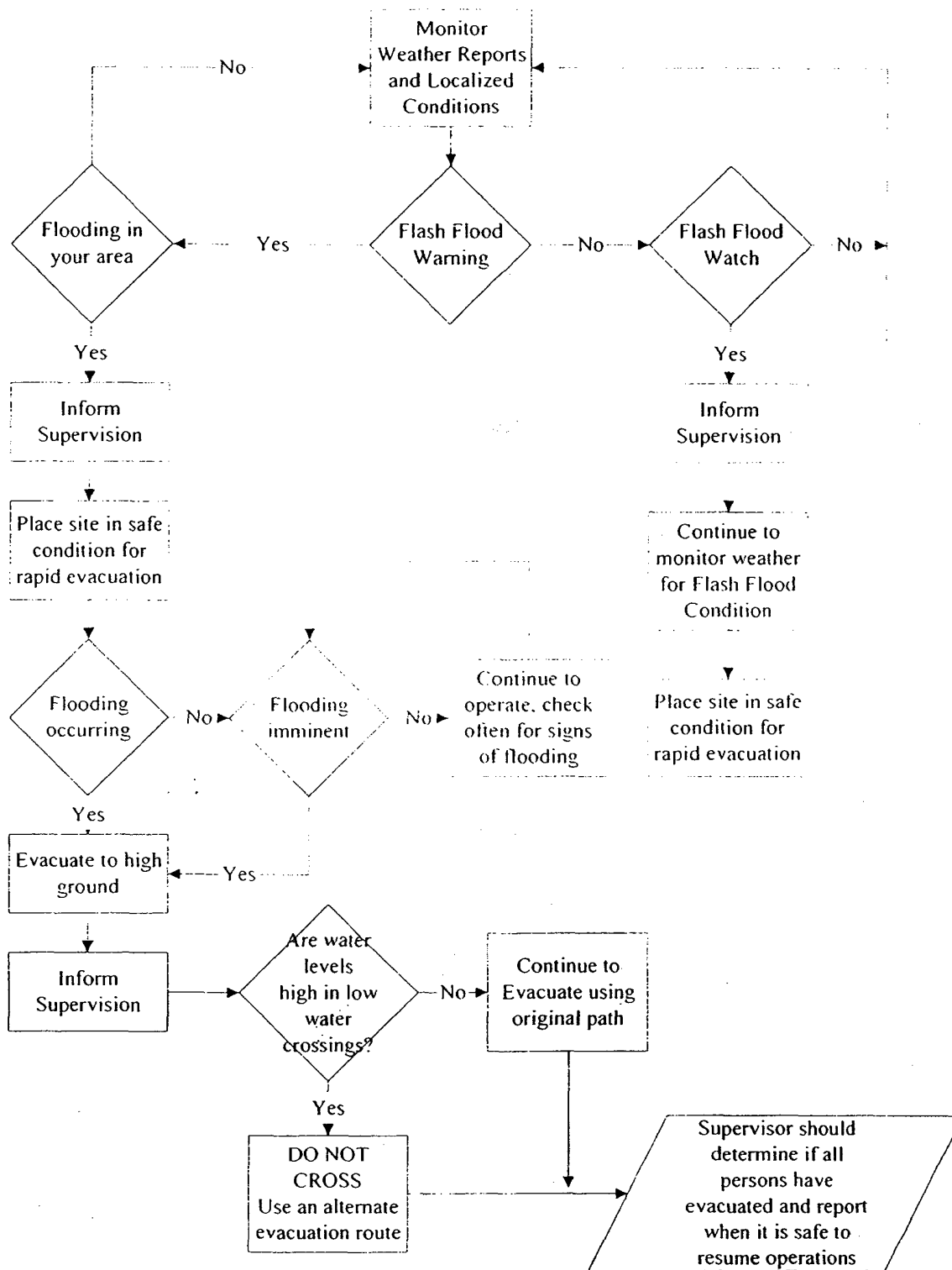


* Concurrent Actions are to be taken at the same time as other actions.

LEGEND

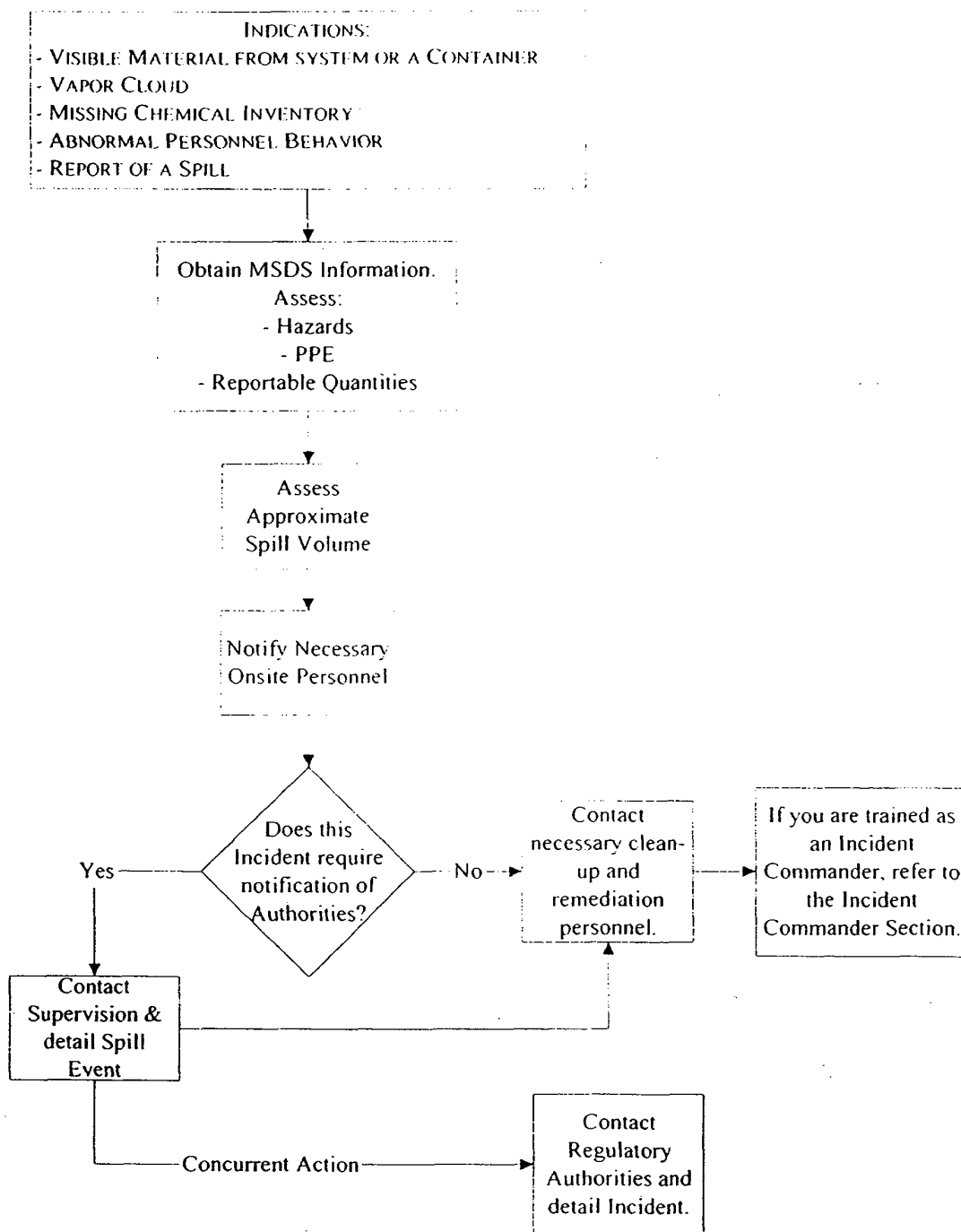
- PRIMARY ACTIONS
- PRIMARY ACTION PATH
- SECONDARY ACTION PATHS

FLOODING EMERGENCY PROCEDURE FLOW CHART

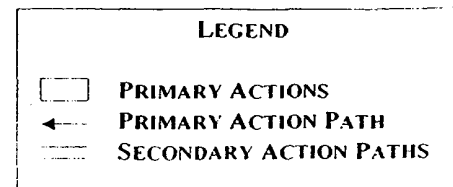


* Concurrent Actions are to be taken at the same time as other actions.

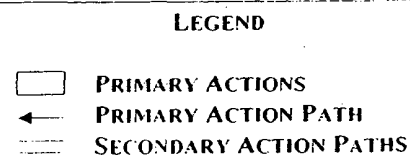
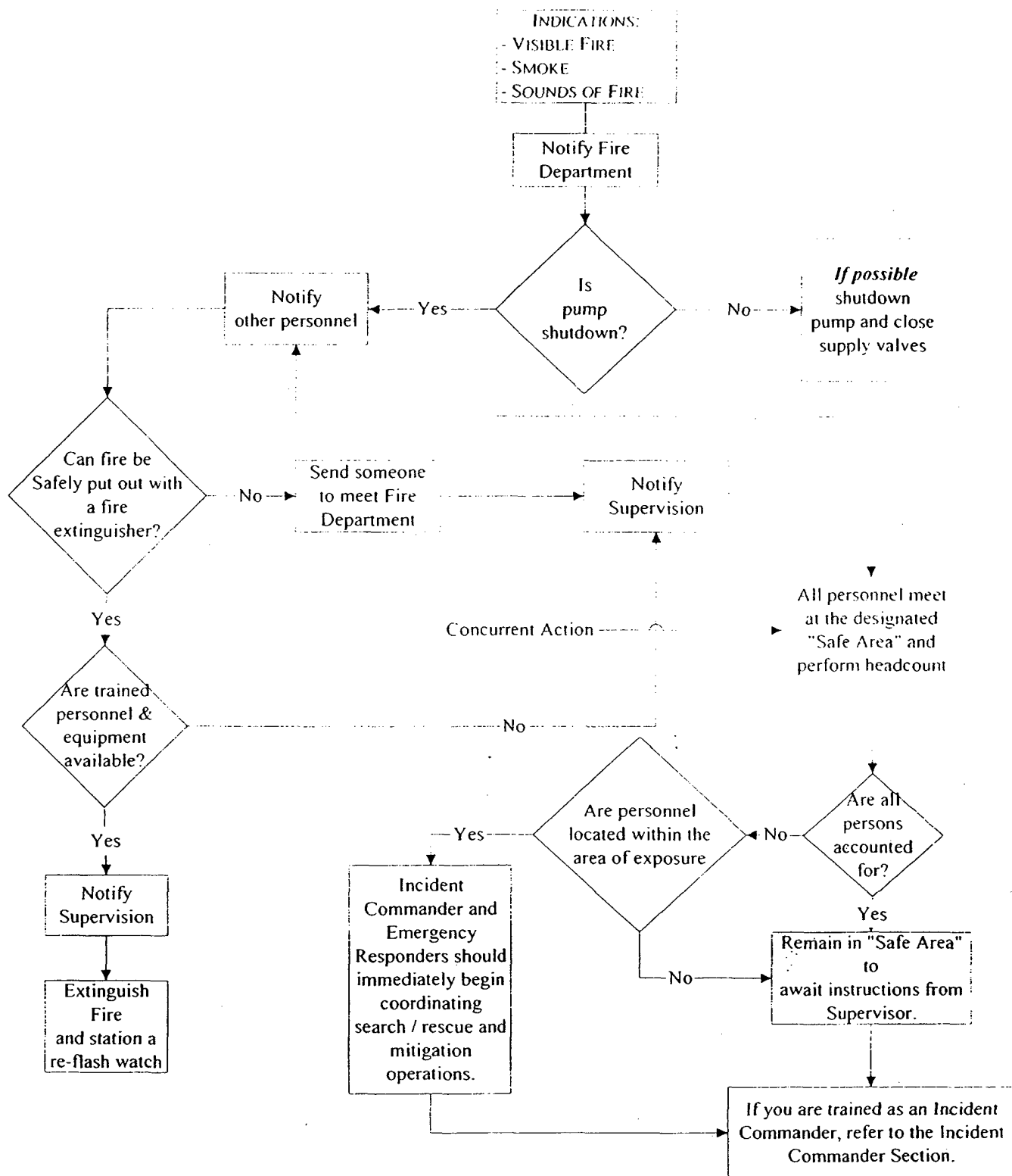
CHEMICAL SPILL OR LEAK EMERGENCY PROCEDURE FLOW CHART



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

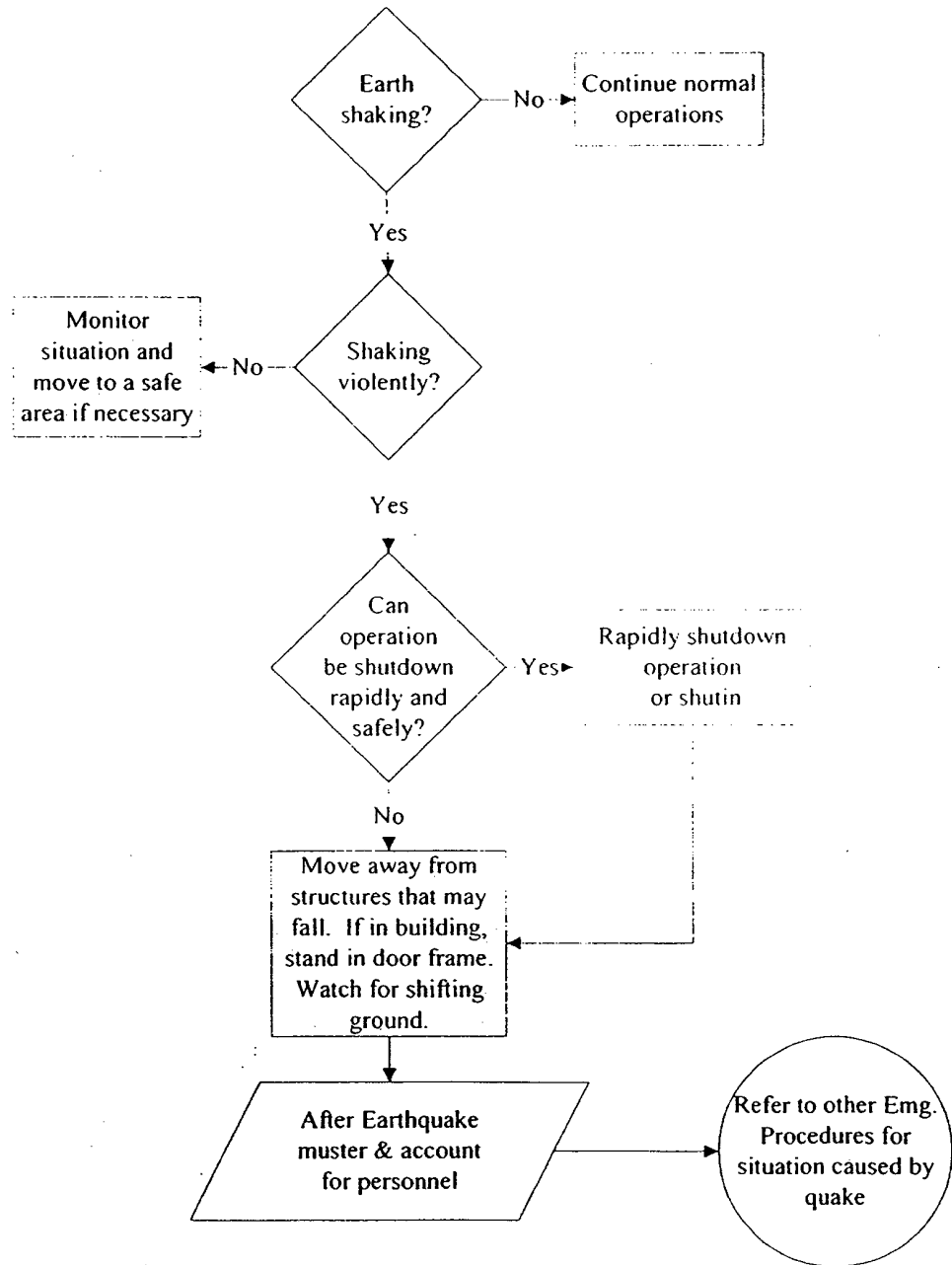


PUMP FIRE NATURAL GAS EMERGENCY PROCEDURE FLOW CHART

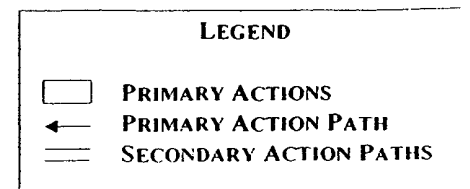


* Concurrent Actions are to be taken at the same time as other actions.

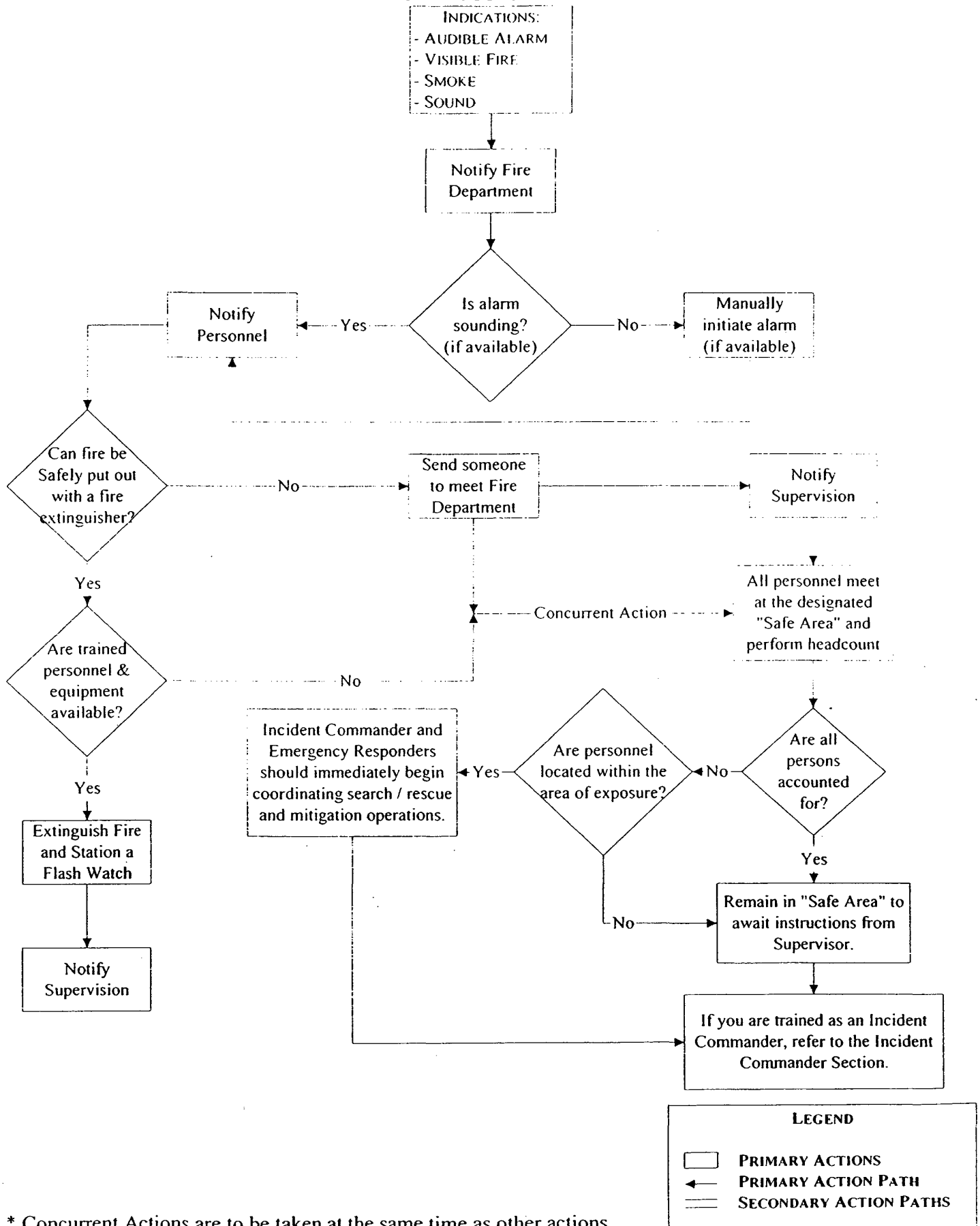
EARTHQUAKE EMERGENCY PROCEDURE FLOW CHART



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

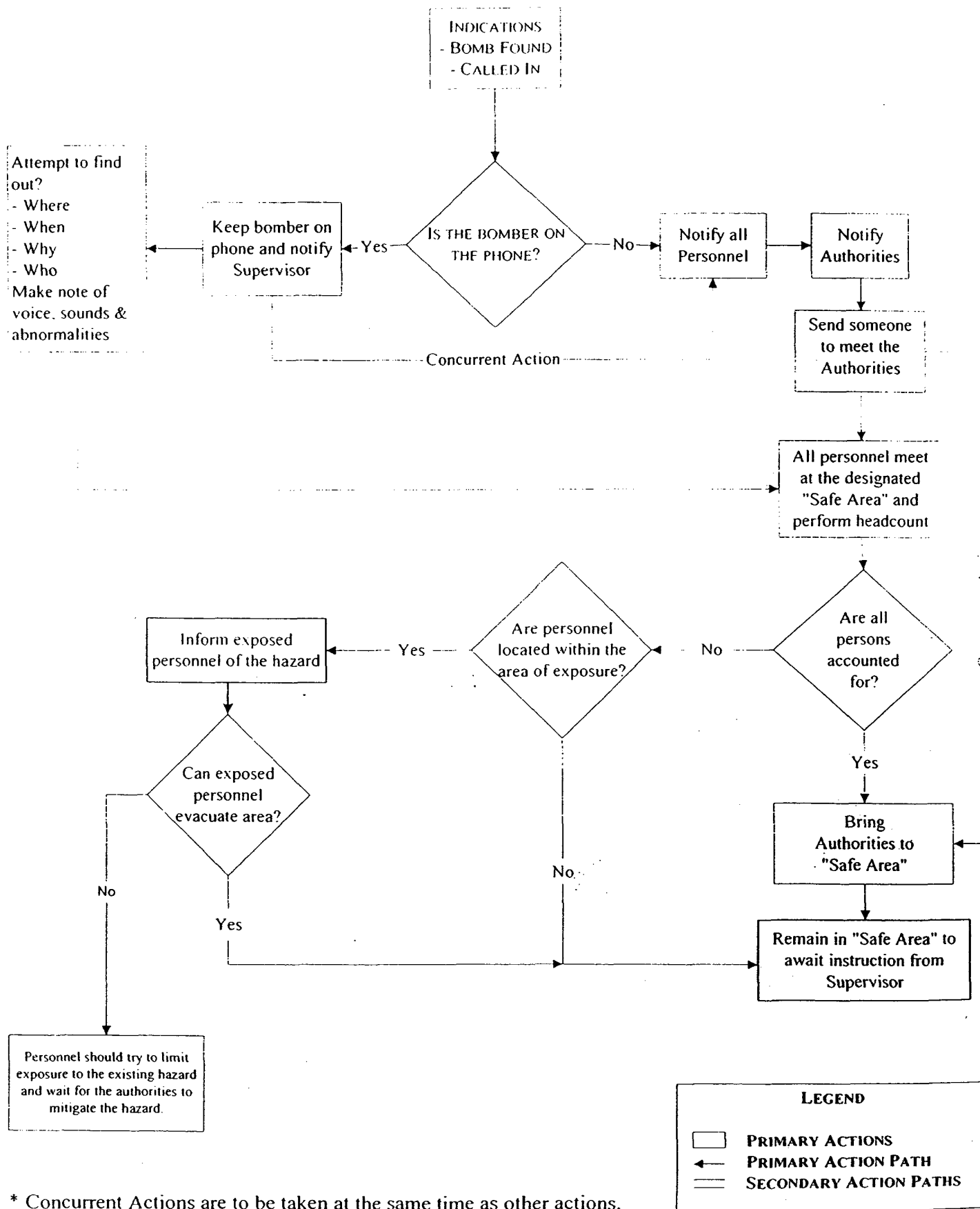


FIRE EMERGENCY PROCEDURE FLOW CHART

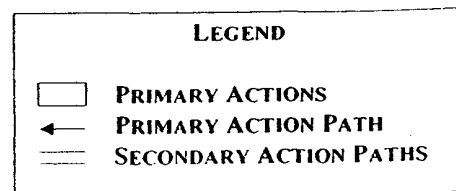
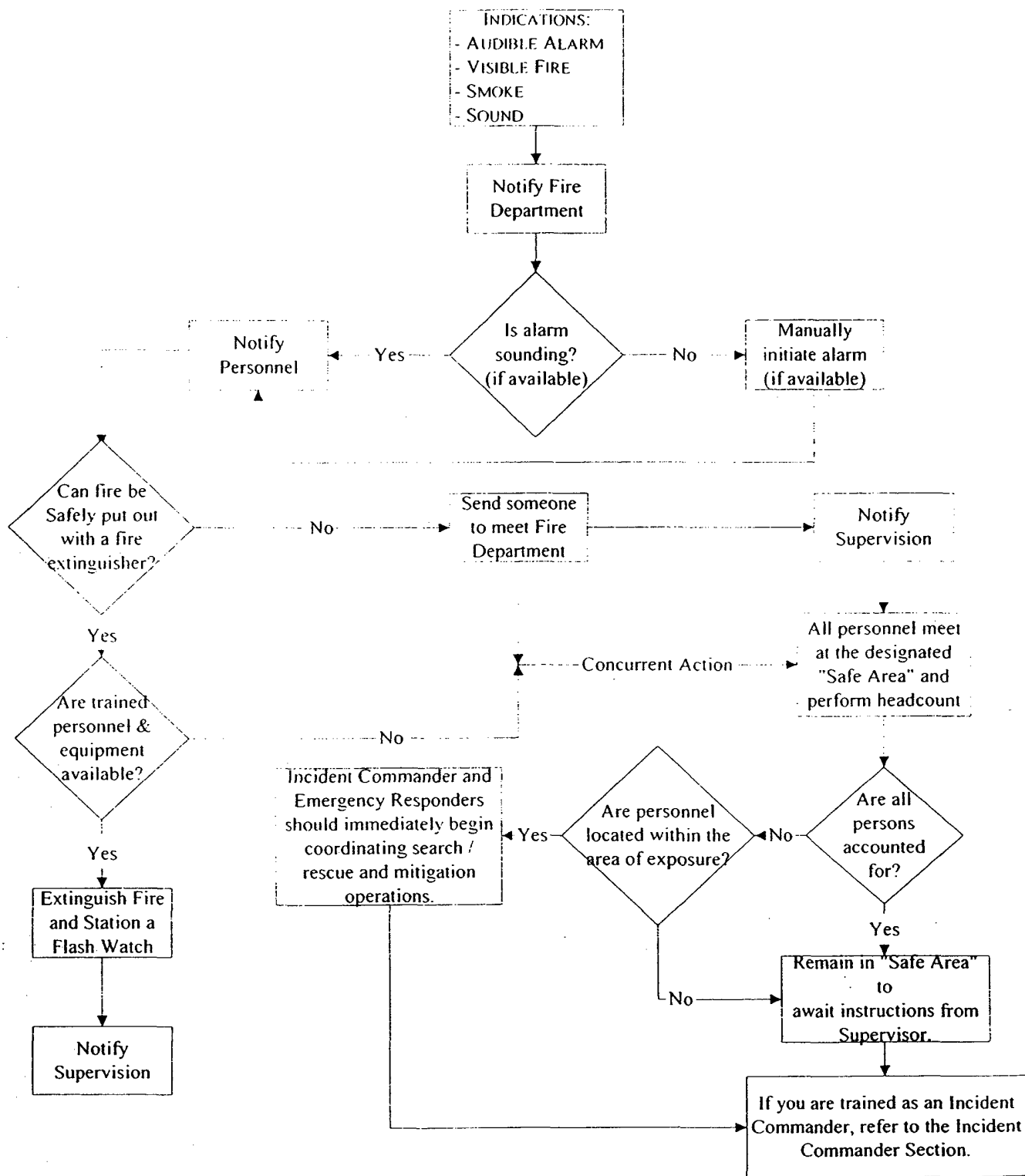


* Concurrent Actions are to be taken at the same time as other actions.

BOMB THREAT EMERGENCY PROCEDURE FLOW CHART

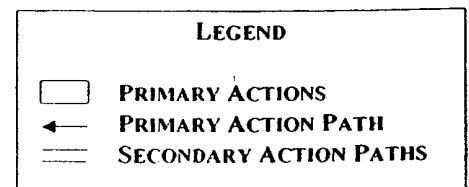
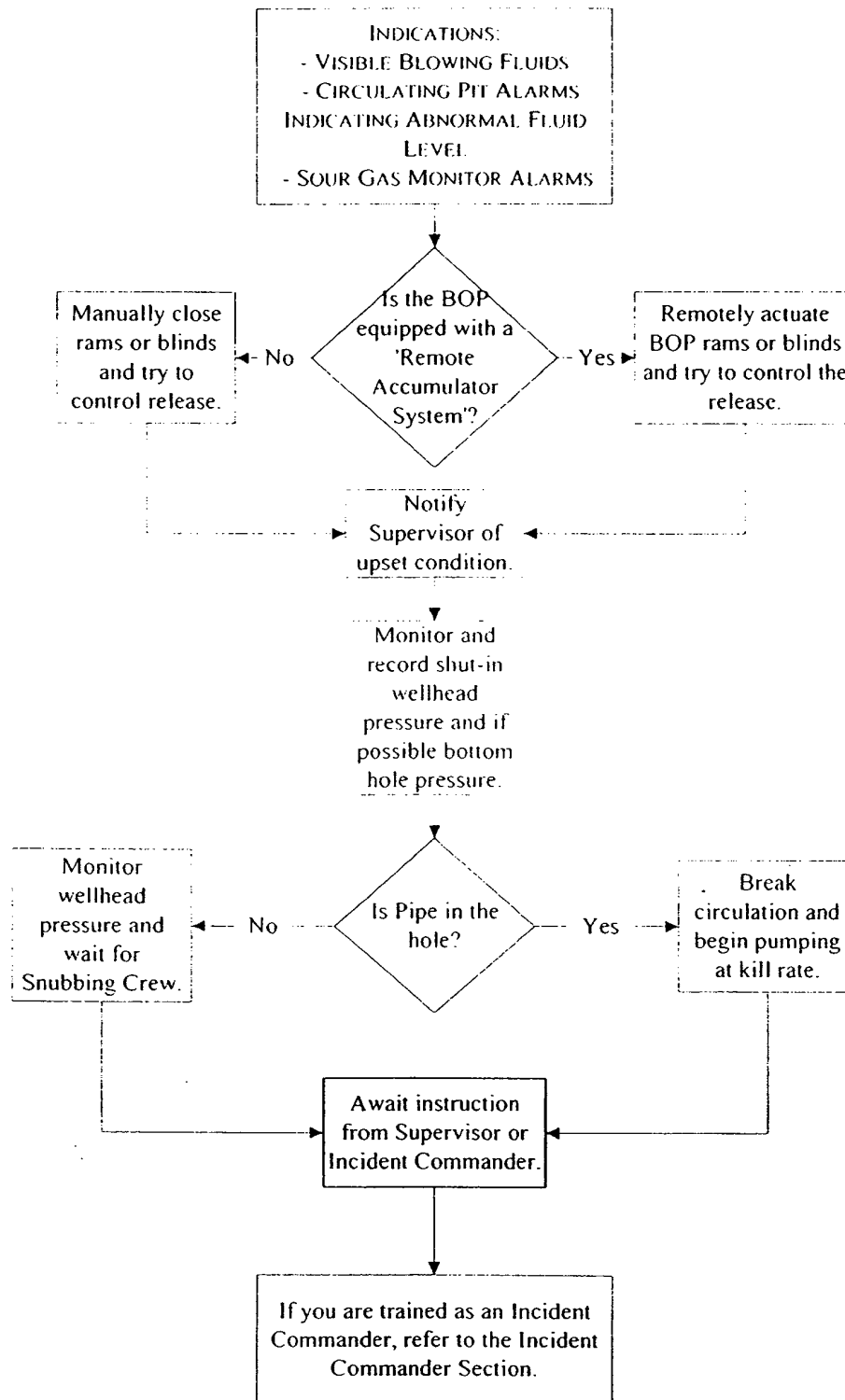


EXPLOSION EMERGENCY PROCEDURE FLOW CHART



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

WELL BLOWOUT EMERGENCY PROCEDURE FLOW CHART



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



REQUIREMENTS FOR REPORTING ACCIDENTS, INCIDENTS, AND NEAR MISSES



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

REV. 03/17/03

INCIDENT TYPE/DESCRIPTION <small>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.</small>	Internal Pure/Unocal Notification	PHONE NRC (800) 424-8802 Immediate Verbal	DRUG & ALCOHOL TESTING	WORKMAN'S COMP.	FEDERAL STATE OR LOCAL SPILL REPORT Written/Verbal	DOT Pipeline Call NRC at (800) 424-8802 Immediate Verbal
MAJOR Incidents - (Immediate Reporting)						
Fatality, 3 or more Hospitalized (Employee or Contractor)	1, 6, 7, 9, 10, 11, 13		5	Employees Only		8
Significant fire/explosion/spill/release, property 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/Extortion or life endangering threats	6, 7, 9, 10, 11, 12, 13		5 - As Needed			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				As Needed	8 - As Needed
SERIOUS Incidents - (within 24 hours reporting)						
Lost Workday Case (LWC) including employees and contractors.	6, 9, 10, 11, 13		5	Employees Only		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				As Needed	8 - As Needed
Non HES (equipment, property or process loss): >\$50,000	2, 7, 9, 11		5 - As Needed			8
Near-Miss for any "Major" item.	9, 11		5 - As Needed			
MINOR Incidents - (working hours)						
Restricted Workday Case and Medical Treatment Case, employee or contractor	7, 9, 11		5	Employees Only		8
First Aid Case, employee or contractor.	9, 11		5 - As Needed	As Needed		
Vehicle accident (See "Serious" or "Major" loss if applicable)	7, 9, 11		5			
Fire/explosion/spill/release/hospitalization or other events with casualty/property/liability loss potential under \$50,000	7, 9, 11	4 - As Needed	5 - As Needed		As Needed	
Land Facility Spills/Releases requiring regulatory reporting or causing 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		5 - As Needed			8
Near Miss for any "Serious" item.	9, 11		5 - As Needed			

- 1) All areas must phone OSHA (Area Office or 800-321-6742) within 8 hours.
- 2) "Non HES losses" - Losses or 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.
- 3) "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.
- 4) CALL NRC (National Response Center) if there is any possible impact to water or dry wash.
- 5) 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 Handbook, Section 2, page 3)
- 6) 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 achieved.
- 7) Each level of Pure Resources management will report to the next level of management through the President of Pure Resources, LP.
- 8) 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 that is significant in the judgment of the supervisor.
- 9) Notify Midland HES Office at 915 498-8600, Ext. 2654 or 8625
- 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.
- 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.

Incident Contact List

Pure Resources' 24 Hr. Emergency Number - (432) 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	(432) 498-8617 Office (432) 661-4936 Cell (432) 524-2201 Home	FAX (432) 498-2610
Mike Oestmann Permian Gas Asset Manager	(432) 498-8666 Office (432) 557-0103 Cell (432) 683-1188 Home	FAX (432) 498-2622
Tom Morrow Permian Gas Operations Superintendent	(432) 498-2653 Office (432) 664-7670 Cell (432) 679-7523 Home	FAX (432) 498-2622
Jay Ottoson New Mexico Asset Manager	(432) 498-2690 Office (432) 425-5860 Cell (432) 694-0861 Home	FAX (432) 498-2610
Pete Wilkinson New Mexico Operations Superintendent	(432) 498-8642 Office (432) 556-3881 Cell (432) 682-0600 Home	FAX (432) 498-2610
Don Rankin HES Manager	(432) 620-5684 Office (432) 238-2467 Cell	FAX (432) 620-5610
Jay Waldrop Permian Gas and Drilling HES Coordinator	(432) 498-2654 Office (432) 556-3547 Cell (432) 523-9778 Home	FAX (432) 620-5610
Ron Lechwar New Mexico HES Coordinator	(432) 498-8625 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	(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 Home	FAX (713) 951-7880
Sid Wall Southeast Onshore HES Coordinator - Houston	(713) 951-7844 Office (713) 204-9419 Cell (713) 975-7098 Home	FAX (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	(432) 498-8664 Office (432) 631-4295 Cell (432) 570-8657 Home	FAX (432) 498-8656 FAX (432) 687-0351
Martha Cavitt HR Advisor	(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

UNOCAL NUMBERS

Deborah Thompson HR Dept.	(281) 287-5549 Office (832) 656-0282 Cell (281) 360-2977 Home	FAX (281) 287-7339
Christine LeLaurin Media Relations	(281) 287-5793 Office (281) 414-3609 Cell	(If Christine does not answer office phone, have her paged before calling her cell phone number)
Mark Jones Corporate Legal - Sugar Land	(281) 287-7693 Office (713) 823-5716 Cell (281) 265-3821 Home	
Ron Morin Corporate HES Manager - Sugar Land	(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) 726-7763	FAX (310) 726-7815
Tony Stewart, Corp. GM HES	(281) 287-5092	FAX (281) 278-5150
Tim Ling, COO	(310) 726-7625 (281) 287-5495	FAX (310) 726-7808 FAX (281) 287-5321

**Supplemental Information
Operational Procedures
02/25/2005**

Well: Esperanza "13" #2

Section 13 - T22S - R26E

621' FSL & 2287' FEL (Surface Location)

1980' FSL & 660' FEL (BHL)

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 13 $\frac{3}{8}$ " – 10,000 psi WP BOP stack, will be installed prior to drilling out the 13 $\frac{3}{8}$ " 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 13 $\frac{3}{8}$ " casing set at 400', 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 9 $\frac{5}{8}$ " intermediate casing set @ 1800', 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 9 $\frac{5}{8}$ " 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 4 $\frac{1}{2}$ " 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 9 $\frac{5}{8}$ " 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 9300' md ($\pm 200'$ 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.

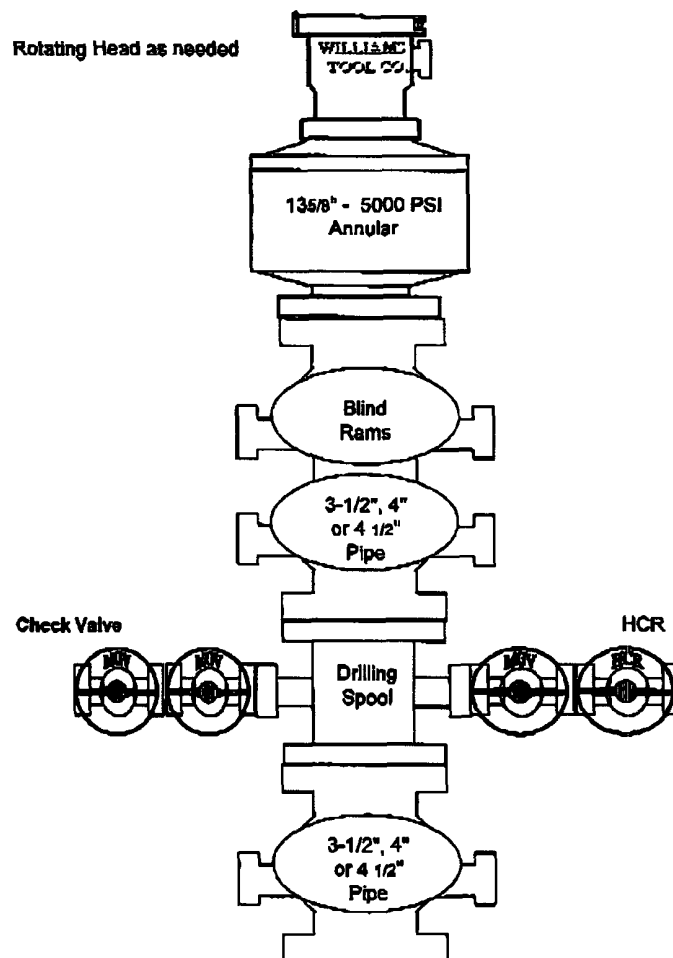
4. Contingency Planning / Safety

- 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, nipple-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.

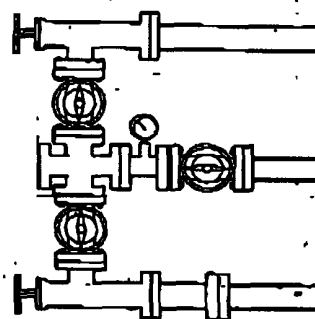
5. Nearest Resident:

The distance from the wellbore stake to the nearest business is 1554' and 2424' to the nearest residence.

135/8" - 10K Stack



Remote Adjustable Choke



Adjustable choke

2" min 10,000 psi WP Double valve manifold