<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

RECEIVED State of I

State of New Mexico
y Minerals and Natural Resources

Form C-101 June 16, 2008

District II
1301 W. Grand Avenue, Artesia, NM 88210 MAR 25 2010

District III
1000 Rio Brazos Road, Aziec, NM 874 0408850CD

District IV
1220 South
1220 South
Santa Fe

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit to appropriate District Office

--- AMENDED REPORT

Estimate 3700'

1220 S. St. Francis Dr., Santa Fe, NM 87505						Santa I	e, Ni	M 8750	72	-					
AP	PLICA	TIO	NF	OR PERM	IT TO	DRIL	L, RE	-ENT	ER, I	EEPE	N, PLUGBA	CK	OR A	DD A ZONE	
Operator Name and Address OG ROBERT E. LANDRETH 25827								RID Numba							
	110 WEST LOUISIANA SUITE 404 MIDLAND, TEXAS 79701 API NUMBER 30-025-397/9														
	89				RAIN		Property N		ΓE				° We	ell Na. 1	
Proposed Pool I DELAWARE WILDCAT															
						7	Surfac	e Loc	ation						
UL or lest na. J	Section 16	Town 2.5	· · · F	Range 35E	! !		Feet flox		North/South line SOUTH				s/Westline AST	County LEA	
				⁸ Pr	oposed B	ottom)	Hale Lo	ation !	lf Diffe	ent Fron	n Surface				
UL or lot no.	Section	Tow	nskip	Range	Loxida Feet from		nthe	Nonth/S	out line	Feet from the	Ea	st/West line	County		
						Addit	ional V	Vell Ir	ıforma	tion					
¹¹ Work Type Code		ode "Cable/Ro ROTARY		-	Lesse Type Code S			Ground Level Elevation 3232							
NO 17 Proposed Depth NO 5000 †			cts.	"Formation DELAWARE			UNKNOWN			Spud Date WHEN APPROVED					
					²¹ Pro	osed	Casing	g and	Cemer	nt Prog	ram				
Hale S				ing Size	Casin	g weight	/foot		Setting Depth		Sacks of Cement			· Estimated TOC	
26"				0"	Cond		r		40 °		Redi-mix		Sı	ırface	
12 1 '	T		8	5/8"	24#		,	850 '		600 Sx.		Su	rface		

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the dam on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

55001

300 Sx.

SEE ATTACHED SHEET FOR DETAIL

23 [hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION			
Signature: Jost T. Journala	Approved by:			
Printed name: Joe T. Janzea	TILLE PETROLEUM ENGINEER			
Tide Permit Eng.	Approval Date: MAR 2 6 2010 Expiration Date:			
E-mail Address: joejanica@valornet.com				
Date: 03/25/10 Phone: 575-391-8503	Conditions of Approval Attached			

- 1. Start drilling operations by using a rat hole machine, cable tool or similar device.
- 2. When a rotary rig is available and contracted move in and rig up.

A - 1

- 3. Drill 12½" hole to 850'. Run and set 850' of 8 5/8" 24# J-55 ST&C casing. Cement with 600 Sx. of Class "C" cement + ½#Flocele/Sx , + 2% CaCl, circulate cement to surface.
- 4. Drill 7 7/8" hole to 5500'. Run open hole logs from TD to 8 5/8" casing shoe, Gamma Ray Neutron from 8 5/8" casing shoe back to surface. If logs show the indication of oil or gas present, Run and set 5500' of 5½" 17# J-55 ST&C casing. Cement with 300 Sx. of 50/50/2 Class "C" POZ cement + 0.2% C-10, + 10% Salt, + 2% Gyp, + 3#/Sx of kolseal, estimate top of cement 3700'.
- 5. Move out drilling rig and move in completion rig and complete well as an oil well.

State of New Mexico

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

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005 Submit to Appropriate District Office

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

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

State Lease - 4 Copies Fee Lease - 3 Copies

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

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name	
30-025-39719	96032	WILDCAT - DELAWARE	
Property Code 38089	Property RAINBOW	1	Well Number
OGRID No. 25827	Operato ROBERT E.		Elevation 3232'

Surface Location

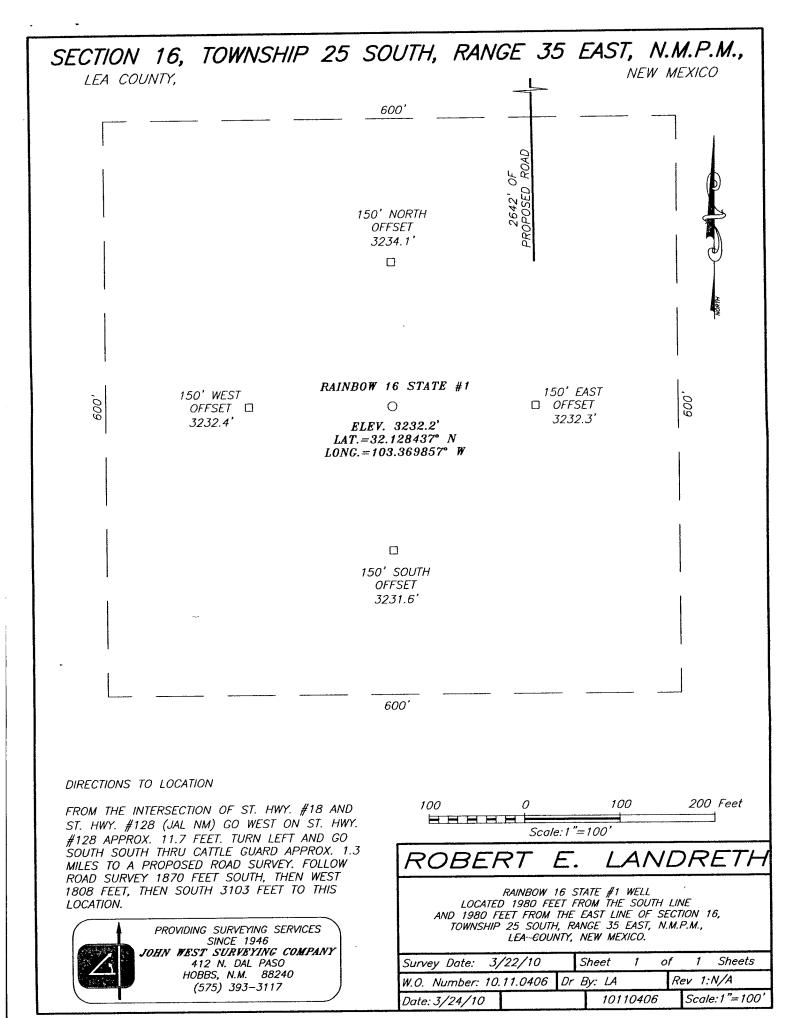
ſ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
ļ	J	16	25-S	35-E		1980	SOUTH	1980	EAST	LEA

Bottom Hole Location If Different From Surface

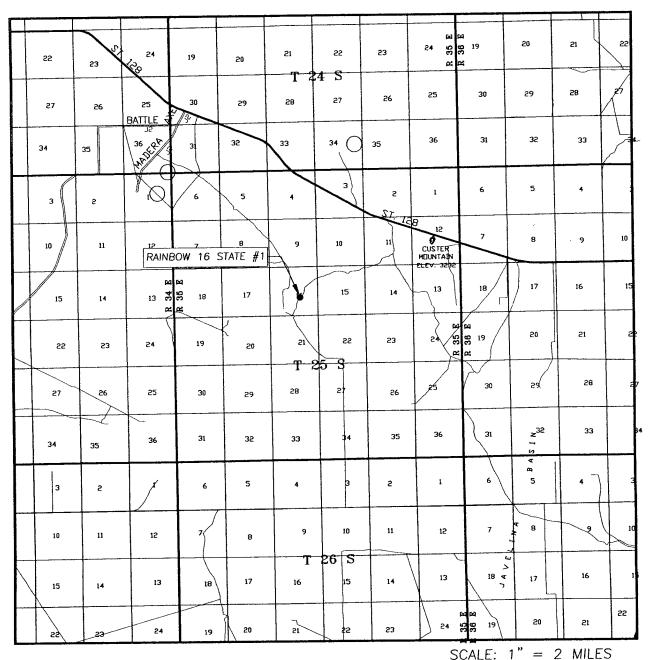
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				

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 that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Date 03/25/10 Joe T. Janica Printed Name
GEODETIC COORDINATES NAD 27 NME Y=411781.4 N X=798261.5 E LAT.=32.128437* N LONG.=103.369857* W	V-7365	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 heat of my belief. Date Surveyed Signature & Seal 3239 Professional Surveyor Certificate No. RONALD EIDSON 3239



VICINITY MAP



SEC. 16 TWP. 25 – S RGE. 35 – E

SURVEY N.M.P.M.

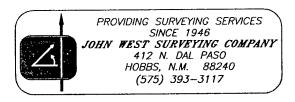
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1980' FSL & 1980' FEL

ELEVATION 3232'

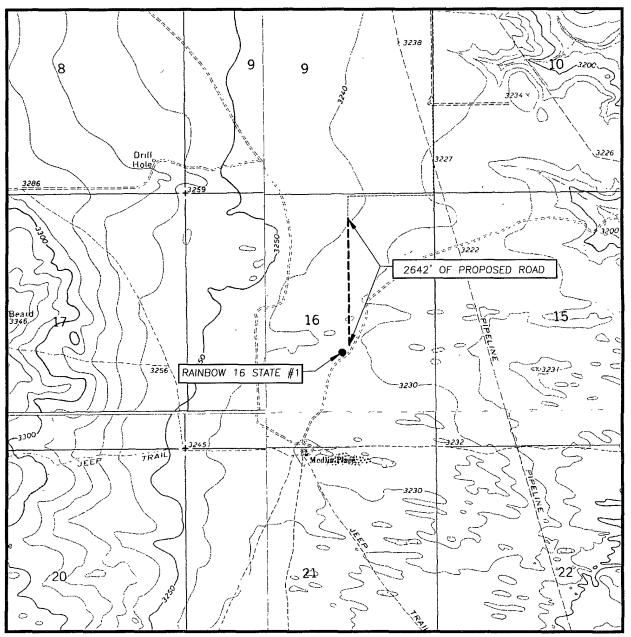
OPERATOR ROBERT E. LANDRETH

LEASE RAINBOW 16 STATE





LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: CUSTER MOUNTAIN, N.M. - 10'

SEC. 16 TWP. 25-S RGE. 35-S

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1980' FSL & 1980' FEL

ELEVATION 3232'

OPERATOR ROBERT E. LANDRETH

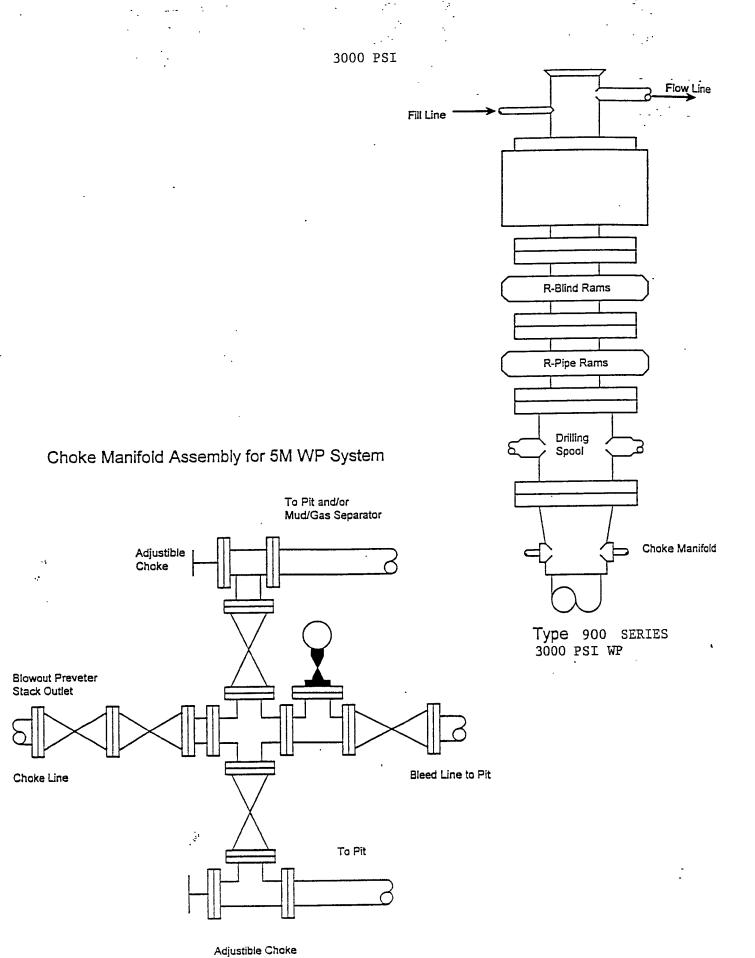
LEASE RAINBOW 16 STATE

U.S.G.S. TOPOGRAPHIC MAP
CUSTER MOUNTAIN, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

BLOWOUT PREVENTER SYSTEM



ROBERT E. LANDRETH

Hydrogen sulfide contingency plan For drilling/workover/facility.

This well and it's anticipated facility are not expected to have Hydrogen Sulfide releases there is no known presence of Hydrogen Sulfide in this area. There are no dwellings in the close proximity of this location. However if an indication of any Hydrogen Sulfide should be encountered a plan is in place to monitor the situation. ROBERT E. LANDRETH will have a company representative available to the rig personnel throughout the drilling and the completion operation. If Hydrogen Sulfide should be detected monitoring equipment will be available for monitoring and/or testing..

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General H2S Emergency Actions:

- 1. All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area".
- 2. If for any reason a person must enter the hazardous area, they must wear a SCBA (Self Contained Breathing Apparatus).
- 3. Always use the "buddy system"
- 4. Isolate the well/problem if possible
- 5. Account for all personnel
- 6. Display the proper colors warning all unsuspecting personnel of the danger at hand.
- 7. Contact the Company personnel as soon as possible if not at the location (use the enclosed call list as instructed)

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of the emergency response agencies and nearby residents.

EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H2S

- 1. All personnel will don the self contained breathing apparatus
- 2. Remove all personnel to the "safe area" (always use the buddy system)
- Contact company personnel if not on location!
- 4. Set in motion the steps to protect and or remove the general public to and upwind "safe area" Maintain strict security & safety procedures while dealing with the source.
- 5. No entry to any unauthorized personnel
- 6. Notify the appropriate agencies: City

City Police – City Street(s)
State Police – State Rd.

County Sheriff - County Rd.

7. Call the NMOCD

EMERGENCY CALL LIST (CONT.)

Loco Hills Police Dept		
Loco Imis Fonce Dept		575- 677-2349
Jal Police Dept Jal Fire Dept Jal Ambulance		575395-2501 575395-2221 575395-2221
Eunice Police Dept Eunice Fire Dept Eunice Ambulance		575394-0112 575394-3258 575394-3258
Hobbs Police Dept Hobbs Fire Dept		575397-3365 57539 7- 930 8
NMOCD	District 1 (Lea, Roosevelt, Curry) District 2 (Eddy, Chavez)	575 - 393-6161 575 - 748-1283
Lea County Information		575—393-8203
Callaway Safety	Eddy/Lea Counties	575392-2973
BJ Services	Artesia Hobbs	575746-3140 575392-5556
Halliburton	Artesia Hobbs	1-800-523-2482 1-800-523-2482
Wild Well Control	Midland Mobile	432-550-6202 432-553-1166

If at this time the supervising person determines the release of H2S cannot be contained to the site location and the general public is in harms way he will take the necessary steps to protect the workers and the public.

EMERGENCY CALL LIST: (Start and continue until ONE of these people has been contacted)

OFFICE MOBILE HOME	
--------------------	--

State Police State Police	Eddy County Lea County	·	575 -748-9718 575 -392-5588
Sheriff Sheriff	Eddy County Lea County		575-746-2701
Emergency Medical Service (Ambulance)	Eddy County Lea County	Eunice	911 or 575-746-2701 911 or 575-394-3258
Emergency Response	Eddy County SERC Lea County		575-476-9620
Artesia Police Dept Artesia Fire Dept			575 746-500 1 575 746-500 1
Carlsbad Police Dept Carlsbad Fire Dept		•	575- 885-2111 . 575 885-3125

PROTECTION OF THE GENERAL PUBLIC (ROE)

- 100 ppm at any public area (any place not associated with this site)
- 500 ppm at any public road (any road with the general public may travel)
- 100 ppm radius of ¼ mile in New Mexico will be assumed if there is insufficient data to do the calculations, and there is a reasonable expectation that H2S could be present in concentrations greater than 100 ppm in the gas mixture

CALCULATIONS FOR THE 100 PPM (ROE) "PASQUILL-GIFFORD EQUATION"

X = [(1.589) (mole fraction) (Q-volume in std cu ft)] to the power of (0.6258)

CALCULATION FOR THE 500 PPM ROE:

X = [(.4546) (mole fraction) (Q - volume in std cu ft)] to the power of (0.6258)

Example:

If a well/facility has been determined to have 150 / 500 ppm H2S in the gas mixture and the well/facility is producing at a gas rate of 100 MCFPD then:

150 ppm X = [(1.589) (.00015) (100,000 cfd)] to the power of (.6258) X = 7 ft.

500 ppm X = [(.4546) (.0005) (100,000 cfd)] to the power of (.6258) X = 3.3 ft.

(These calculations will be forwarded to the appropriate District NMOCD office when Applicable)

PUBLIC EVACUATION PLAN:

- Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- A trained person in H2S safety shall monitor with detection equipment the H2S concentration, wind and area exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. (All monitoring equipment shall be UL approved, for use in class 1 groups A, B, C & D, Division 1, hazardous locations. All monitor will have a minimum capability of measuring H2S, oxygen and flammable values.)

- Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

PROCEDURE FOR IGNITING AN UNCONTROLABLE CONDITION:

- 1. Human life and/or property are in danger.
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTION FOR IGNITION:

- 1. Two people are required. They must be equipped with positive pressure, self contained breathing apparatus and a "D" ring style full body, OSHA approved safety harness. Non flammable rope will be attached.
- 2. One of the people will be qualified safety person who will test the atmosphere for H2S, oxygen and LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3. Ignite up wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25 mm flare gun shall be used, with a ± 500 ft. range to ignite the gas.
- 4. Prior to ignition, make a final check with combustible gases.
- 5. Following ignition, continue with the emergency actions & procedures as before.

REQUIRED EMERGENCY EQUIPMENT:

1. Breathing apparatus:

- Rescue packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- Work/Escape packs 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
- Emergency Escape Packs 4 packs shall be stored in the doghouse for emergency evacuation.

2. Signage & Flagging:

- One color code condition sign will be placed at the entrance to the site reflection the
 possible conditions at the site.
- A colored conditioned flag will be on display, reflecting the condition at the site at the time.

3. Briefing Area:

Two perpendicular areas will be designated by signs and readily accessible.

4. Wind Socks:

Two windsocks will be placed in strategic locations, visible from all angles.

5. H2S Detectors & Alarms:

- The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible at 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: (Gas sample tubes will be stored in the safety trailer)
 - Rig Floor
 - Bell Nipple
 - End of flow line or where well bore fluid are being discharged.

6. Auxiliary Rescue Equipment:

- Stretcher
- Two OSHA full body harness
- 100 ft. 5/8 inch OSHA approved rope.
- 1 20# class ABC fire extinguisher
- Communication via cell phones on location and vehicles on location.

USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED:
 - Working near the top or on the top of a tank
 - Disconnecting any line where H2S can reasonably be expected
 - Sampling air in the area to determine if toxic concentration of H2S can exist.
 - Working in areas where over 10 ppm on H2S has been detected.
 - At any time there is a doubt as the level of H2S in the area.
- All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.
- Air quality shall be continuously checked during the entire operation.
- After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected.
- All SCBA shall be inspected monthly.

RESCUE AND FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING:

- Do not panic
- Remain calm and think
- Get on the breathing apparatus

- Remove the victim to the safe breathing area as quickly as possible. Up wind and uphill
 from source or cross wind to achieve upwind.
- Notify emergency response personnel.
- Provide artificial respiration and or CPR, as necessary.
- Remove all contaminated clothing to avoid further exposure.
- A minimum of two personnel on location shall be trained in CPR and First Aid.

H2S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H2S is approximately 20% heavier than air (Sp. Gr = 1.19) (Air = 1) and colorless. It forms an explosive mixture with air between 4.3% and 46%. By volume hydrogen sulfide is almost as toxic as hydrogen cyanide and is 5-6 times more toxic than carbon monoxide.

COMMON NAME	CHEMICAL ABBREV.	SPECIFIC GRVTY.	THRESHOLD LIMITS	HAZARDOUS LIMITS	LETHAL CONCENTRATIONS
Hydrogen Sulfide	H2S	1.19	10 ppm 15 ppm	100 ppm/hr	600ppm
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Sulfur Dioxide	SO2	2.21	2 ppm	N/A.	1000 ppm.
Chlorine	Cl.2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO2	1.52	5000 ppm	5%	10%
Methane	CH4	0.55	90,000	Combustible @ 5%	N/A

Threshold Limit: Concentrations at which it is believed that all workers may be repeatedly

exposed, day after day without adverse effects.

Hazardous Limit: Concentrations that may cause death.

Concentrations: Concentrations that will cause death with short term exposure.

Threshold Limit: NIOSH guide to chemical hazards

(10 ppm)

PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

CONCE	NTRATION	PHYSICAL EFFECTS
.001%	10 ppm	Obvious and unpleasant odor. Safe for 8 hr. exposure
.005%	50 ppm	Can cause some flu like symptoms and can cause pneumonia.
.01%	100 ppm	Kills the sense of smell in 3-15 minutes. May irritate the eyes and throat.
.02%	200 ррт.	Kills the sense of smell rapidly. Severely irritates the eyes and throat. Severe flu-like symptoms after 4 or more hours. May cause lung damage and or death.
.06%	600 ppm	Loss of consciousness quickly, death will result if not rescued promptly.