District_l 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

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

Form C-101 Revised March 17, 1999

Oil Conservation DivisioRECEIVED^{Submit to appropriate District Office}

2040 South Pacheco Santa Fe, NM 87505

JAN 2 7 2004

State Lease - 6 Copies Fee Lease - 5 Copies

2040 South Pa	checo, Sant	a Fe, NM 875	505		Sant	a Fe, NN			-ARTESIA] _{AMEN}	DED REPORT
		1 (Operator Name a			ENTE	R, DEE	<u>PEN,</u>	PLUGBAC	OGRID 1	Number	A ZONE
Clayton W Six Desta I Midland, T	Drive, Sı	uite 3000	C.							2570 3 API <u>N</u> u		
³ Proper					Property	Name			30 - Ois	15 - 3 371 S 6 Well No.		
•	5235				STATE	"20B"					19	·
	1	I I		<u> </u>	⁷ Surface	Location	on			I		
UL or lot no.	Section	Township	Range	Lot l		et from the	North/Sou		Feet from the	East/W	İ	County
В	20	17 S 8	29 E Proposed F	Dattam I		1010	NOR'		2310	EA	<u> </u>	EDDY
UL or lot no.	Section	Township	Range	Lot 1		et from the	North/Sou		Feet from the	East/W	est line	County
⁹ Proposed Pool 1								¹⁰ Propo	sed Pool 2			
Empire, Ea	ast (Yes	o) 96610					Grayb	urg Ja	ackson –7R's	,QN,GE	3,SA (28	3509)
	Гуре Code		12 Well Type Co	ode	13 (Cable/Rotary		14	Lease Type Code	S 3617'		
N 16 Multiple 17 Proposed Depth 5000' 21 Proposed Depth 21 Proposed Depth 21 Proposed Depth 21 Proposed Depth 31 Proposed Depth 32 Propose				Yes	Formation So Sands			19 Contractor tterson Drig.				
		T		_	d Casing	1					Τ_	
	Hole Size		ng Size	Casing	weight/foot		Setting Dep	oth	Sacks of Co	•	Estimated TOC	
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	ify that the	information g	given above is to			Be	<i>O</i> 0	OIL CO	ONSERVAT	ION D	IVISIC)N
Signature: /	2 ets		una			Appro	oved by:		Same)	W.	Gun	w _
Printed name:	Betsy L	una -)				Title:			SU	PBRVIS	OR, DIS	TRICT II
Title: Engil	neering	<u> Fechniciar</u>	1			Appro	val Date:	FEE		Expiration		EB 0 2 200
Date: 01/26	62004		Phone: (43	32) 682-6	324	i i	tions of App	proval:			•	

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION

2040 South Pacheco

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, New Mexico 87504-2088

API Number	Pool Code	Pool Name	
30-015	96610	EMPIRE, EAST (Y	TESO)
Property Code	Property	Name	Well Number
25235	STATE "	20 B"	19
OGRID No.	Operator	Name	Elevation
25706	CLAYTON WILLIA	MS ENERGY INC.	3617

Surface Location

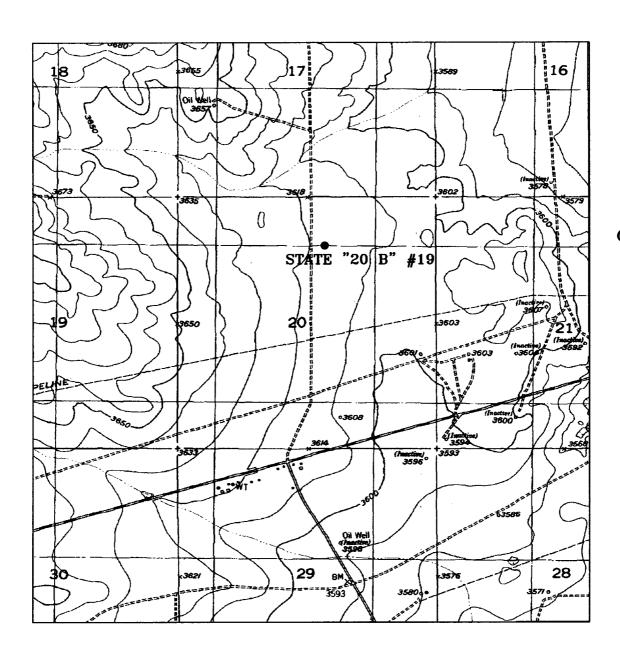
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	20	17 S	29 E		1010	NORTH	2310	EAST	EDDY

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	
Dedicated Acres	Joint or	· Infill Co	nsolidation (Code Or	der No.			<u> </u>		
40										

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

36	10.2' <u>3</u> 616.6'	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	2310'	Betsy Lune Signature
	Lat - N32°49'28.2" Lon - W104°05'45.3"	Betsy Luna Printed Name
		Engineering Technician Title
		January 26, 2004 Date
		SURVEYOR CERTIFICATION
1	I R ece ived	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
	JAN 2 7 2004	supervison, and that the same is true and correct to the best of my belief.
	ОСФ-ARTESI≜	JANUARY 22, 2004 Date Surveyed
		Date Surveyed Signature & Carlot L JO Profession Grand
		1. D. No. 3947 8
		Certificate 18. Gory L. Jores 1977



STATE "20 B" #19 Located at 1010' FNL and 2310' FEL Section 20, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.



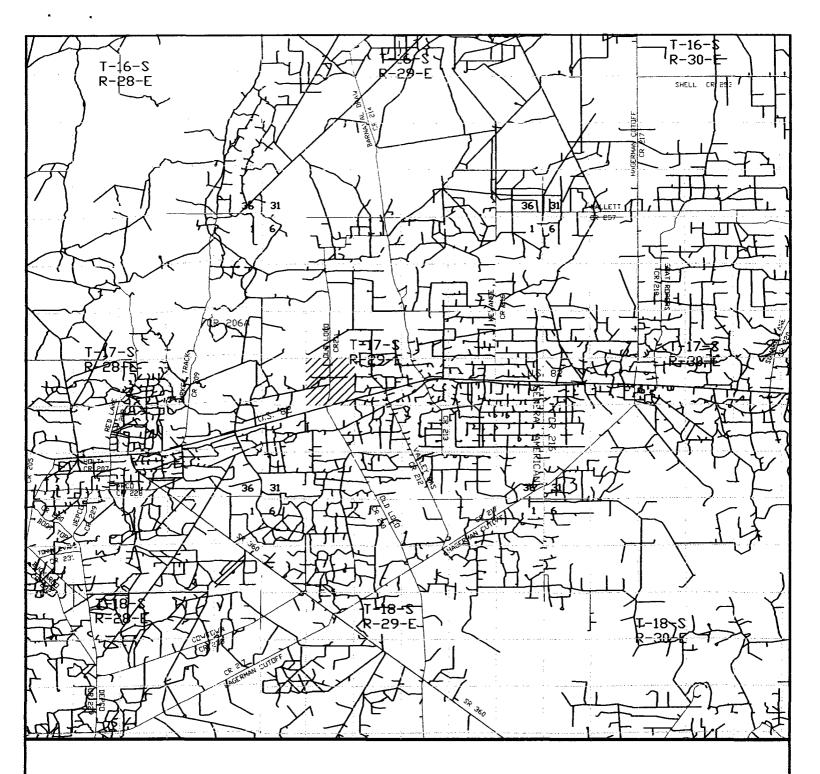
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393—7316 — Office
(505) 392—3074 — Fax
basinsurveys.com

W.O. Nu		3947AA			"
Survey	Date:	01-22-	20	004	

Scale: 1'' = 2000'Date: 01-23-2004

CLAYTON WILLIAMS ENERGY INC.



STATE "20 B" #19 Located at 1010' FNL and 2310' FEL Section 20, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

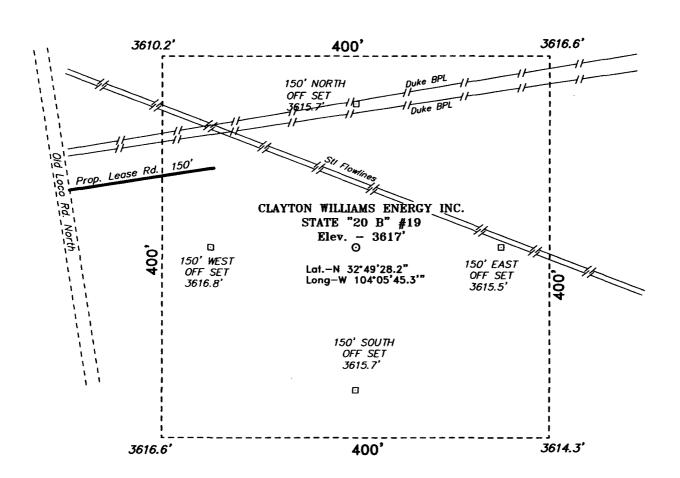
W.O. Number:	3947AA - KJG CD#5
Survey Date:	01-22-2004
Scale: 1" = 2	MILES

Date: 01-23-2004

CLAYTON WILLIAMS ENERGY INC.

SECTION 20, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY.

NEW MEXICO.



100

DIRECTIONS TO LOCATION:

DATE: 01-23-2004

FROM THE JUNCTION OF US HWY 82 AND CO. RD. 211. GO NORTH ON 211 FOR 0.9 MILE TO PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786 -HOBBS, NEW MEXICO

Disk: KJG CD#5

3947A.DWG

W.O. Number: 3947 Drawn By: K. GOAD

CLAYTON WILLIAMS ENERGY INC.

SCALE: 1" = 100'

100

200 FEET

REF: STATE "20 B" #19 / Well Pad Topo

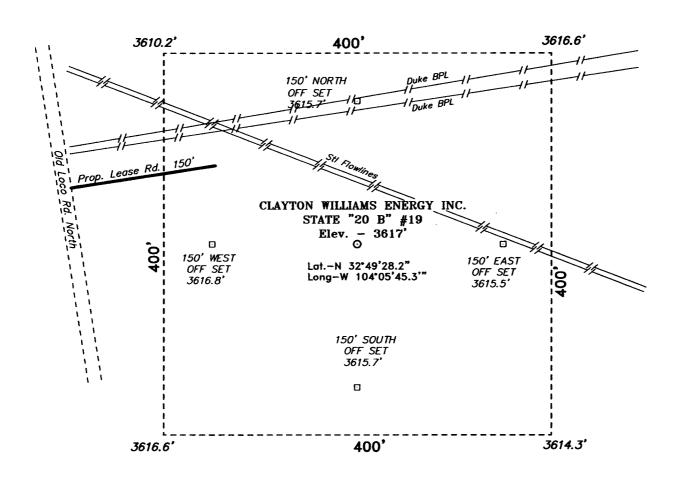
THE STATE "20 B" No. 19 LOCATED 1010' FROM THE

NORTH LINE AND 2310' FROM THE EAST LINE OF SECTION 20, TOWNSHIP 17 SOUTH, RANGE 29 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 01-22-2004 Sheet 1 of 1 Sheets

SECTION 20, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



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DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF US HWY 82 AND CO. RD. 211. GO NORTH ON 211 FOR 0.9 MILE TO PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 3947 Drawn By: K. GOAD DATE: 01-23-2004 Disk: KJG CD#5 3947A DWG

SCALE: 1" = 100' CLAYTON WILLIAMS ENERGY INC.

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N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 01-22-2004 Sheet

200 FEET



Prepared For: Date Prepared:

Clayton Williams Energy, Inc.

January 26, 2004

Prepared By:

INDIAN

Fire & Safety, Inc.

TABLE OF CONTENTS

H2S C	CONTINGENCY PLAN	
1.	SCOPE	1
2.	OBJECTIVE	1
3.	DISCUSSION OF PLAN	2
EME	RGENCY PROCEDURES	
1.	EMERGENCY REACTION STEPS	3-5
IGNI	TION PROCEDURES	
1.	RESPONSIBILITY	6
2.	INSTRUCTIONS FOR IGNITING THE WELL	7
TRAI	NING PROGRAM	
1.	TRAINING REQUIREMENTS	8
EMEI	RGENCY EQUIPMENT REQUIREMENTS	9-11
	CK LISTS	
1.	STATUS CHECK LIST	12
2.	PROCEDURAL CHECK LIST	13
EVAC	TUATION PLAN	14
1.	EMERGENCY ACTIONS	15
2.	PHONE LIST – GOVERNMENT AGENCIES	16
3.	PHONE LIST - COMPANY CONTACTS	16a
MAPS	& PLATS	
1.	MAP OF WELLSITE & PUBLIC WITHIN	
	RADIUS OF EXPOSURE	17
GENE	RAL INFORMATION	
1.	100 PPM RADIUS CHART	18
2.	500 PPM RADIUS CHART	19
3.	TOXIC EFFECTS OF HYDROGEN SULFIDE POISONING	20-21
	USE OF SELF-CONTAINED BREATHING EQUIPMENT	22-23
5.	RESCUE - FIRST AID FOR H2S POISONING.	24

HYDROGEN SULFIDE CONTINGENCY PLAN

SCOPE

THIS CONTINGENCY PLAN ESTABLISHES GUIDELINES FOR THE PUBLIC, ALL COMPANY EMPLOYEES WHO'S WORK ACTIVITIES MAY INVOLVE EXPOSURE TO HYDROGEN SULFIDE (H2S) GAS.

OBJECTIVE

- 1. PREVENT ANY AND ALL ACCIDENTS, AND PREVENT THE UNCONTROLLED RELEASE OF HYDROGEN SULFIDE INTO THE ATMOSPHERE.
- 2. PROVIDE PROPER EVACUATION PROCEDURES TO COPE WITH EMERGENCIES.
- 3. PROVIDE IMMEDIATE AND ADEQUATE MEDICAL ATTENTION SHOULD AN INJURY OCCUR.

DISCUSSION

GEOLOGICAL PROGNOSIS

IMPLEMENTATION: THIS PLAN WITH ALL DETAILS IS TO BE

FULLY IMPLEMENTED AFTER DRILLING TO

INTERMEDIATE CASING POINT.

EMERGENCY RESPONSE

PROCEDURE:

THIS SECTION OUTLINES THE CONDITIONS

AND DENOTES STEPS TO BE TAKEN IN THE

EVENT OF AN EMERGENCY.

EMERGENCY EQUIPMENT

PROCEDURE:

THIS SECTION OUTLINES THE SAFETY AND

EMERGENCY EQUIPMENT THAT WILL BE REQUIRED FOR THE DRILLING OF THIS WELL.

TRAINING PROVISIONS: THIS SECTION OUTLINES THE TRAINING

PROVISIONS THAT MUST BE ADHERED TO PRIOR TO DRILLING TO INTERMEDIATE

CASING POINT.

DRILLING EMERGENCY

CALL LISTS:

INCLUDED ARE THE TELEPHONE NUMBERS

OF ALL PERSONS TO BE CONTACTED SHOULD

AN EMERGENCY EXIST.

BRIEFING: THIS SECTION DEALS WITH THE BRIEFING OF

ALL PEOPLE INVOLVED IN THE DRILLING

OPERATION.

PUBLIC SAFETY: PUBLIC SAFETY PERSONNEL WILL BE MADE

AWARE OF THE DRILLING OF THIS WELL.

CHECK LISTS: STATUS CHECK LISTS AND PROCEDURAL

CHECK LISTS HAVE BEEN INCLUDED TO

INSURE ADHERENCE TO THE PLAN.

GENERAL INFORMATION: A GENERAL INFORMATION SECTION HAS

BEEN INCLUDED TO SUPPLY SUPPORT

INFORMATION.

EMERGENCY PROCEDURES

- A. IN THE EVENT OF ANY EVIDENCE OF H2S LEVEL ABOVE 10 PPM, TAKE THE FOLLOWING STEPS:
 - 1. SECURE BREATHING EQUIPMENT.
 - 2. ORDER NON-ESSENTIAL PERSONNEL OUT OF DANGER ZONE.
 - 3. TAKE STEPS TO DETERMINE IF THE H2S LEVEL CAN BE CORRECTED OR SUPPRESSED AND, IF SO, PROCEED IN NORMAL OPERATION.

B. IF UNCONTROLLABLE CONDITIONS OCCUR:

- 1. TAKE STEPS TO PROTECT AND/OR REMOVE ANY PUBLIC IN THE DOWN-WIND AREA FROM THE RIG PARTIAL EVACUATION AND ISOLATION. NOTIFY NECESSARY PUBLIC SAFETY PERSONNEL AND THE BUREAU OF LAND MANAGEMENT OF THE SITUATION.
- 2. REMOVE ALL PERSONNEL TO SAFE BREATHING AREA.
- 3. NOTIFY PUBLIC SAFETY PERSONNEL TO SAFE BREATHING AREA.
- 4. PROCEED WITH BEST PLAN (AT THE TIME) TO REGAIN CONTROL OF THE WELL. MAINTAIN TIGHT SECURITY AND SAFETY PROCEDURES.

C. RESPONSIBILITY:

- 1. DESIGNATED PERSONNEL.
 - a. SHALL BE RESPONSIBLE FOR THE TOTAL IMPLEMENTATION OF THIS PLAN.
 - b. SHALL BE IN COMPLETE COMMAND DURING ANY EMERGENCY.
 - c. SHALL DESIGNATE A BACK-UP.

EMERGENCY PROCEDURES

*(Procedures are the same for both Drilling and Tripping)

ALL PERSONNEL:

- 1. ON ALARM, DON ESCAPE UNIT AND REPORT IN UP WIND BRIEFING AREA.
- 2. CHECK STATUS OF PERSONNEL (BUDDY SYSTEM).
- 3. SECURE BREATHING EQUIPMENT.
- 4. AWAIT ORDERS FROM SUPERVISOR.

DRILLING FOREMAN:

- 1. REPORT TO UP WIND BRIEFING AREA.
- 2. DON BREATHING EQUIPMENT AND RETURN TO POINT OF RELEASE WITH TOOL PUSHER OR DRILLER (BUDDY SYSTEM).
- 3. DETERMINE H2S CONCENTRATIONS.
- 4. ASSESS SITUATION AND TAKE CONTROL MEASURES.

TOOL PUSHER:

- 1. REPORT TO UP WIND BRIEFING AREA.
- 2. DON BREATHING EQUIPMENT AND RETURN TO POINT OF RELEASE WITH DRILLING FOREMAN OR DRILLER (BUDDY SYSTEM).
- 3. DETERMINE H2S CONCENTRATION.
- 4. ASSESS SITUATION AND TAKE CONTROL MEASURES.

DRILLER:

- 1. DON ESCAPE UNIT.
- 2. CHECK MONITOR FOR POINT OF RELEASE.
- 3. REPORT TO BRIEFING AREA.
- 4. CHECK STATUS OF PERSONNEL (IN AN ATTEMPT TO RESCUE, USE THE BUDDY SYSTEM).
- 5. ASSIGNS LEAST ESSENTIAL PERSON TO NOTIFY DRILLING FOREMAN AND TOOL PUSHER BY QUICKEST MEANS IN CASE OF THEIR ABSENCE.
- 6. ASSUMES THE RESPONSIBILITIES OF THE DRILLING FORMAN AND TOOL PUSHER UNTIL THEY ARRIVE SHOULD THEY BE ABSENT.

EMERGENCY PROCEDURES

DERRICK MAN
FLOOR MAN #1
FLOOR MAN #2

1. WILL REMAIN IN BRIEFING AREA UNTIL INSTRUCTED BY SUPERVISOR.

MUD ENGINEER:

- 1. REPORT TO BRIEFING AREA.
- 2. WHEN INSTRUCTED, BEGIN CHECK OF MUD FOR PH AND H2S LEVEL. (GARETT GAS TRAIN.)

SAFETY PERSONNEL:

1. MASK UP AND CHECK STATUS OF ALL PERSONNEL AND SECURE OPERATIONS AS INSTRUCTED BY DRILLING FOREMAN AND REPORT TO BRIEFING AREA.

TAKING A KICK

WHEN TAKING A KICK DURING AN H2S EMERGENCY, ALL PERSONNEL WILL FOLLOW STANDARD BOP PROCEDURES AFTER REPORTING TO BRIEFING AREA AND MASKING UP.

OPEN-HOLE LOGGING

ALL UNNECESSARY PERSONNEL OFF FLOOR. DRILLING FOREMAN AND SAFETY PERSONNEL SHOULD MONITOR CONDITION, ADVISE STATUS AND DETERMINE NEED FOR USE OF AID EQUIPMENT.

RUNNING CASING OR PLUGGING

FOLLOWING THE SAME "TRIPPING" PROCEDURE AS ABOVE. DRILLING FOREMAN AND SAFETY PERSONNEL SHOULD DETERMINE IF ALL PERSONNEL HAVE ACCESS TO PROTECTIVE EQUIPMENT.

IGNITION PROCEDURES

THE DECISION TO IGNITE THE WELL IS THE RESPONSIBILITY OF COMPANY FOREMAN. IN THE EVENT HE IS INCAPACITATED, IT BECOMES THE RESPONSIBILITY OF THE CONTRACT RIG TOOL PUSHER. THE DECISION SHOULD BE MADE ONLY AS A LAST RESORT AND IN A SITUATION WHERE IT IS CLEAR THAT:

- 1. HUMAN LIFE AND PROPERTY ARE ENDANGERED.
- 2. THERE IS NO HOPE CONTROLLING THE BLOWOUT UNDER THE PREVAILING CONDITIONS AT THE WELL.

NOTIFY THE DISTRICT OFFICE IF TIME PERMITS, BUT DO NOT DELAY IF HUMAN LIFE IS IN DANGER.

INITIATE FIRST PHASE OF EVACUATION PLAN.

IGNITION PROCEDURES

INSTRUCTIONS FOR IGNITING THE WELL

- 1. TWO PEOPLE ARE REQUIRED FOR THE ACTUAL IGNITING OPERATION. THEY MUST WEAR SELF-CONTAINED BREATHING UNITS AND HAVE SAFETY ROPE ATTACHED. ONE MAN (TOOL PUSHER OR SAFETY ENGINEER) WILL CHECK THE ATMOSPHERE FOR EXPLOSIVE GASES WITH THE EXPLOSIMETER. THE OTHER MAN (DRILLING FOREMAN) IS RESPONSIBLE FOR IGNITING THE WELL.
- 2. PRIMARY METHOD TO IGNITE: 25 MM FLARE GUN WITH RANGE OF APPROXIMATELY 500 FEET.
- 3. IGNITE UP WIND AND DO NOT APPROACH ANY CLOSER THAN IS WARRANTED.
- 4. SELECT THE IGNITION SITE BEST FOR PROTECTION, AND WHICH OFFERS AN EASY ESCAPE ROUTE.
- 5. BEFORE FIRING, CHECK FOR PRESENCE OF COMBUSTIBLE GAS.
- 6. AFTER LIGHTING, CONTINUE EMERGENCY ACTION AND PROCEDURE AS BEFORE.
- 7. ALL UNASSIGNED PERSONNEL WILL LIMIT THEIR ACTIONS TO THOSE DIRECTED BY THE DRILLING FOREMAN.

REMEMBER: AFTER WELL IS IGNITED, BURNING HYDROGEN SULFIDE WILL CONVERT TO SULFUR DIOXIDE, WHICH IS ALSO HIGHLY TOXIC. DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED.

TRAINING REQUIREMENTS

WHEN WORKING IN AN AREA WHERE HYDROGEN SULFIDE GAS (H2S) MIGHT BE ENCOUNTERED, DEFINITE TRAINING REQUIREMENTS MUST BE CARRIED OUT. ALL COMPANIES WILL INSURE THAT ALL PERSONNEL AT THE WELL SITE WILL HAVE HAD ADEQUATE TRAINING IN THE FOLLOWING:

- 1. HAZARDS AND CHARACTERISTICS OF H2S.
- 2. PHYSICAL EFFECTS OF HYDROGEN SULFIDE ON THE HUMAN BODY.
- 3. TOXICITY OF HYDROGEN SULFIDE AND SULFUR DIOXIDE.
- 4. H2S DETECTION.
- 5. EMERGENCY RESCUE.
- 6. RESUSCITATORS.
- 7. FIRST AID AND ARTIFICIAL RESPIRATION.
- 8. EFFECTS OF H2S ON METALS.
- 9. LOCATION SAFETY.

SERVICE COMPANY AND VISITING PERSONNEL

- A. EACH SERVICE COMPANY THAT WILL BE ON THIS WELL WILL BE NOTIFIED IF THE ZONE CONTAINS H2S.
- B. EACH SERVICE COMPANY MUST PROVIDE FOR THE TRAINING AND EQUIPMENT OF THEIR EMPLOYEES BEFORE THEY ARRIVE AT THE WELL SITE.
- C. EACH SERVICE COMPANY WILL BE EXPECTED TO ATTEND A WELL SITE BRIEFING.

EMERGENCY EQUIPMENT REQUIREMENTS

1. SIGNS

A. ONE SIGN LOCATED AT LOCATION ENTRANCE WITH THE FOLLOWING LANGUAGE:

(LEASE)

CAUTION – POTENTIAL POISON GAS HYDROGEN SULFIDE NO ADMITTANCE WITHOUT AUTHORIZATION

2. WIND SOCK – WIND STREAMERS

- A. ONE 36" (IN LENGTH) WIND SOCK LOCATED AT PROTECTION CENTER, AT HEIGHT VISIBLE FROM RIG FLOOR.
- B. ONE 36" (IN LENGTH) WIND SOCK LOCATED AT HEIGHT VISIBLE FROM PIT AREAS.

3. HYDROGEN SULFIDE DETECTOR AND ALARMS

- A. H2S MONITORS WITH ALARMS WILL BE LOCATED ON THE RIG FLOOR, AT THE BELL NIPPLE, AND AT THE FLOW LINE. THESE MONITORS WILL BE SET TO ALARM AT 10 PPM WITH RED LIGHT, AND TO ALARM AT 15 PPM WITH RED LIGHT AND AUDIBLE ALARM.
- B. HAND OPERATED DETECTORS WITH TUBES.
- C. H2S MONITOR TESTER.

4. CONDITION FLAGS

A. ONE EACH OF GREEN, YELLOW, AND RED CONDITION FLAGS TO BE DISPLAYED TO DENOTE CONDITIONS.

GREEN – NORMAL CONDITIONS YELLOW – POTENTIAL DANGER RED – DANGER, H2S PRESENT

B. CONDITION FLAG SHALL BE POSTED AT LOCATION SIGN ENTRANCE.

EMERGENCY EQUIPMENT REQUIREMENTS

5. AUXILIARY RESCUE EQUIPMENT

- A. STRETCHER
- B. 100' LENGTH OF 5/8" NYLON ROPE.

6. MUD INSPECTION DEVICES

GARRETT GAS TRAIN OR HACH TESTER FOR INSPECTION OF SULFIDE CONCENTRATION IN MUD SYSTEM.

7. FIRE EXTINGUISHER

ADEQUATE FIRE EXTINGUISHERS SHALL BE LOCATED AT STRATEGIC LOCATIONS.

8. BLOW OUT PREVENTION EQUIPMENT

THE WELL SHALL HAVE HYDRAULIC BOP EQUIPMENT FOR THE ANTICIPATED BHP OF 1500 PSI. EQUIPMENT IS TO BE TESTED ON INSTALLATION.

9. COMBUSTIBLE GAS DETECTOR

THERE SHALL BE ONE COMBUSTIBLE GAS DETECTOR ON LOCATION AT ALL TIMES.

10. BOP TESTING

BOP AND CHOKE LINE AND KILL LINE WILL BE TESTED.

11. AUDIO SYSTEM

RADIO COMMUNICATION WILL BE AVAILABLE AT THE RIG.

- A. RIG FLOOR OR TRAILER
- B. VEHICLE

12. SPECIAL CONTROL EQUIPMENT

- A. HYDRAULIC BOP EQUIPMENT WITH REMOTE CONTROL ON GROUND.
- B. ROTATING HEAD

EMERGENCY EQUIPMENT REQUIREMENTS

13. EVACUATION PLAN

EVACUATION ROUTES SHOULD BE ESTABLISHED PRIOR TO SPUDDING EACH WELL AND DISCUSSED WITH ALL RIG PERSONNEL.

14. DESIGNATED AREA

- A. PARKING AND VISITOR AREA: ALL VEHICLES ARE TO BE PARKED AT A PREDETERMINED SAFE DISTANCE FROM THE WELLHEAD. THIS WILL BE THE DESIGNATED SMOKING AREA.
- B. TWO BRIEFING AREAS ON EITHER SIDE OF THE LOCATION AT THE MAXIMUM ALLOWABLE DISTANCE FROM THE WELL BORE SO THEY OFFSET PREVAILING WINDS PERPENDICULARLY, OR AT A 45-DEGREE ANGLE IF WIND DIRECTION TENDS TO SHIFT IN THE AREA.
- C. PROTECTION CENTERS OR IF A MOVABLE TRAILER IS USED, IT SHOULD BE DEPT UPWIND OF EXISTING WINDS. WHEN WIND IS FROM THE PREVAILING DIRECTIONS, BOTH PROTECTION CENTERS SHOULD BE ACCESSIBLE.

STATUS CHECK LIST

NOTE: ALL ITEMS ON THIS LIST MUST BE COMPLETED BEFORE DRILLING TO 2,000'.

- 1. SIGN AT LOCATION ENTRANCE.
- 2. TWO (2) WIND SOCKS LOCATED AS REQUIRED.
- 3. TWO (2) 30-MINUTE PRESSURE DEMAND AIR PACKS ON LOCATION FOR ALL RIG PERSONNEL AND MUD LOGGERS.
- 4. AIR PACK INSPECTED FOR READY USE.
- 5. CASCADE SYSTEM AND HOSE LINE HOOK-UP.
- 6. CASCADE SYSTEM FOR REFILLING AIR BOTTLES.
- 7. SAFE BREATHING AREAS SET UP.
- 8. CONDITION FLAG ON LOCATION AND READY FOR USE.
- 9. H2S DETECTION SYSTEM HOOKED UP.
- 10. H2S ALARM SYSTEM HOOKED UP AND READY.
- 11. OXYGEN RESUSCITATOR ON LOCATION AND TESTED FOR USE.
- 12. STRETCHER ON LOCATION AT SAFETY TRAILER.
- 13. 1-100' LENGTH OF NYLON ROPE ON LOCATION.
- 14. ALL RIG CREW AND SUPERVISORS TRAINED AS REQUIRED.
- 15. ALL OUTSIDE SERVICE CONTRACTORS ADVISED OF POTENTIAL H2S HAZARD ON WELL.
- 16. NO SMOKING SIGN POSTED.
- 17. HAND OPERATED H2S DETECTOR WITH TUBES ON LOCATION.

CHECKED BY:	DATE:	
		(12)

PROCEDURAL CHECK LIST

PERFORM EACH TOUR:

- 1. CHECK FIRE EXTINGUISHERS TO SEE THAT THEY HAVE THE PROPER CHARGE.
- 2. CHECK BREATHING EQUIPMENT TO ENSURE THAT IT HAS NOT BEEN TAMPERED WITH.
- 3. MAKE SURE ALL THE H2S DETECTION SYSTEM IS OPERATIVE.

PERFORM EACH WEEK:

- 1. CHECK EACH PIECE OF BREATHING EQUIPMENT TO MAKE SURE THAT DEMAND REGULATOR IS WORKING. THIS REQUIRES THAT THE BOTTLE BE OPENED AND THE MASK ASSEMBLY BE PUT ON TIGHT ENOUGH SO THAT WHEN YOU INHALE, YOU RECEIVE AIR.
- 2. BLOW OUT PREVENTER SKILLS.
- 3. CHECK SUPPLY PRESSURE ON BOP ACCUMULATOR STAND BY SOURCE.
- 4. CHECK ALL SKA-PAC UNITS FOR OPERATION: DEMAND REGULATOR, ESCAPE BOTTLE AIR VOLUMES, SUPPLY BOTTLE OF AIR VOLUME.
- 5. CHECK BREATHING EQUIPMENT MASK ASSEMBLY TO SEE THAT STRAPS ARE LOOSENED AND TURNED BACK, READY TO PUT ON.
- 6. CHECK PRESSURE ON BREATHING EQUIPMENT AIR BOTTLES TO MAKE SURE THEY ARE CHARGED TO FULL VOLUME.
- 7. CONFIRM PRESSURE ON ALL SUPPLY AIR BOTTLES.
- 8. PERFORM BREATHING EQUIPMENT DRILLS WITH ON-SITE PERSONNEL.
- CHECK THE FOLLOWING SUPPLIES FOR AVAILABILITY.
 - A. EMERGENCY TELEPHONE LIST.
 - B. HAND OPERATED H2S DETECTORS AND TUBES.

GENERAL EVACUATION PLAN

THE DIRECT LINES OF ACTION PREPARED BY INDIAN FIRE & SAFETY, INC. TO PROTECT THE PUBLIC FROM HAZARDOUS GAS SITUATIONS ARE AS FOLLOWS:

- 1. WHEN THE COMPANY APPROVED SUPERVISOR (DRILLING FOREMAN, CONSULTANT, RIG PUSHER, OR DRILLER) DETERMINES THE H2S GAS CANNOT BE LIMITED TO THE WELL LOCATION AND THE PUBLIC WILL BE INVOLVED, HE WILL ACTIVATE THE EVACUATION PLAN. ESCAPE ROUTES ARE NOTED ON AREA MAP.
- 2. "COMPANY MAN" OR DESIGNEE WILL NOTIFY LOCAL GOVERNMENT AGENCY THAT A HAZARDOUS CONDITION EXISTS AND EVACUATION NEEDS TO BE IMPLEMENTED.
- 3. COMPANY SAFETY PERSONNEL THAT HAVE BEEN TRAINED IN THE USE OF H2S DETECTION EQUIPMENT AND SELF-CONTAINED BREATHING EQUIPMENT WILL MONITOR H2S CONCENTRATIONS, WIND DIRECTIONS, AND AREA OF EXPOSURE. THEY WILL DELINEATE THE OUTER PERIMETER OF THE HAZARDOUS GAS AREA. EXTENSION TO THE EVACUATION AREA WILL BE DETERMINED FROM INFORMATION GATHERED.
- 4. LAW ENFORCEMENT PERSONNEL (STATE POLICE, POLICE DEPT., FIRE DEPT., AND SHERIFF'S DEPT.) WILL BE CALLED TO AID IN SETTING UP AND MAINTAINING ROAD BLOCKS. ALSO, THEY WILL AID IN EVACUATION OF THE PUBLIC IF NECESSARY.

IMPORTANT: LAW ENFORCEMENT PERSONNEL WILL NOT BE ASKED TO COME INTO A CONTAMINATED AREA. THEIR ASSISTANCE WILL BE LIMITED TO UNCONTAMINATED AREAS. CONSTANT RADIO CONTACT WILL BE MAINTAINED WITH THEM.

5. AFTER THE DISCHARGE OF GAS HAS BEEN CONTROLLED, COMPANY SAFETY PERSONNEL WILL DETERMINE WHEN THE AREA IS SAFE FOR RE-ENTRY.

EMERGENCY ACTIONS

WELL BLOWOUT – IF EMERGENCY

- 1. EVACUATE ALL PERSONNEL IF POSSIBLE.
- 2. IF SOUR GAS EVACUATE RIG PERSONNEL.
- 3. IF SOUR GAS EVACUATE PUBLIC WITHIN 1 HOUR RADIUS OF EXPOSURE.
- 4. DON SCBA AND RESCUE.
- 5. CALL 911 FOR EMERGENCY HELP (FIRE DEPT AND AMBULANCE) AND NOTIFY SR. DRILLING FOREMAN AND DISTRICT FOREMAN.
- 6. GIVE FIRST AID.

PERSON DOWN LOCATION/FACILITY

- 1. IF IMMEDIATELY POSSIBLE, CONTACT 911. GIVE LOCATION AND WAIT FOR CONFIRMATION.
- 2. DON SCBA AND RESCUE.

EMERGENCY PHONE LIST

GOVERNMENTAL AGENCIES

Eddy County Sheriff's Office		911
Non emergency	505-746-9888	
Fire Departments		911
Artesia - Non-emergency	505-746-5050	
Atoka – Non-emergency	505-746-5050	
State Police Department		911
Non-emergency	505-437-1313	
Ambulance		911
Artesia – Non Emergency	505-746-5050	
Atoka – Non-Emergency	505-746-5050	
Hospital -Artesia	505-748-3333	
Indian Fire & Safety, Inc.		
24 Hour Emergency Service	800-530-8693	

CLAYTON WILLIAMS ENERGY, INC. COMPANY EMERGENCY NUMBERS

Midland, Texas		Z-08 <i>Z</i> -0324
Office	nnedy – Drilling Manager	
Office		
Pager 800-917-981		2-688-3218
		0-917-9815
		2-620-0769
Mike Langford	ngford	
Sierra Engineering	9	2-683-8000
Cell		!-557-4698
Matt Swierc – Production and Regulatory	ierc – Production and Regulatory	
Office	•	2-688-3251
Fax Page/ 877-626-810	Pager 877	
Home	e 432	:-699-0147
Phillip Creech – Production Foreman	reech – Production Foreman	
Cell		-634-4018
Pager 877-612-674		
Home		-389-5793

DISTRICT I 1825 N. French Dr. DISTRICT II 811 South First, Arteria, NM 88210

State of New Mexico

Form C-102

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 2040 South Pacheco, Santa Fe, HM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

C AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name		
Property Code	Prop	erty Name	Well Number	
ŀ	STATE	19		
OGRID No.	Oper	Elevation		
	CLAYTON WILLIAMS ENERGY INC.		3617'	

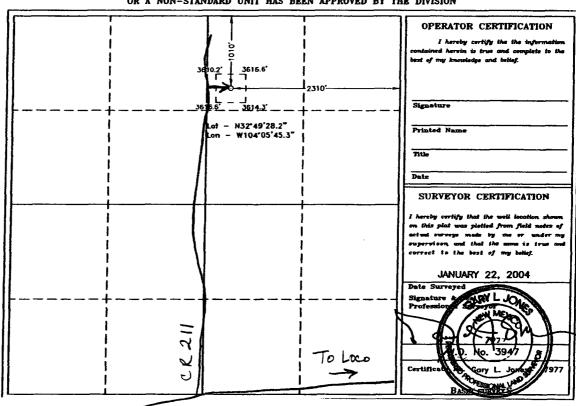
Surface Location

										_
UL or lot No.	Section	Township	Range	Lot ldm	Feet from the	North/South line	Feet from the	East/West line	County	ı
В	20	17 S	29 E		1010	NORTH	2310	EAST	EDDY	

Bottom Hole Location If Different From Surface

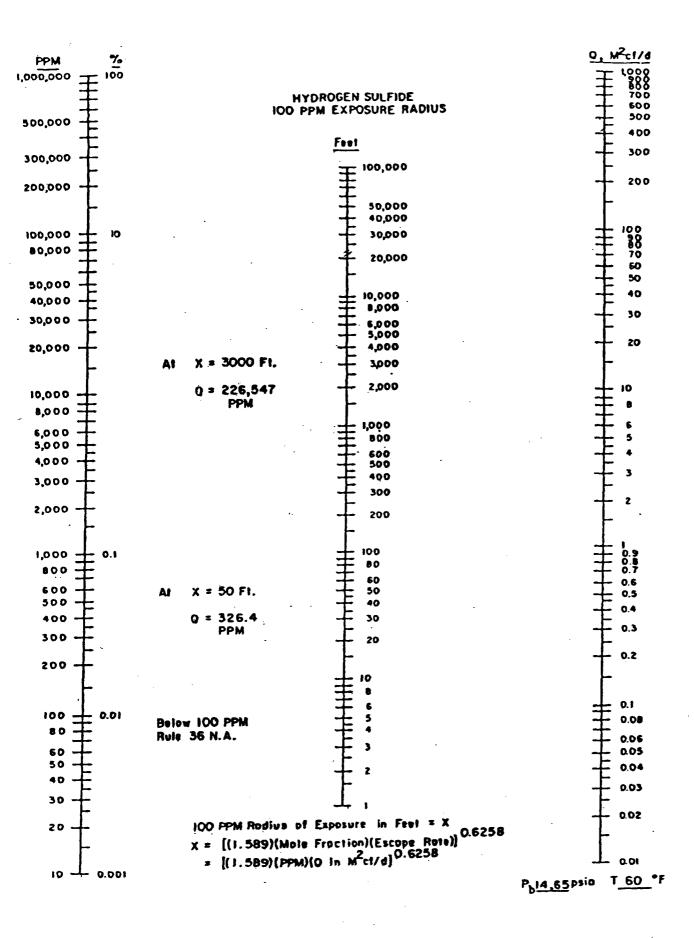
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	Joint o	r infill Co	nsolidation (ode Or	ler No.				

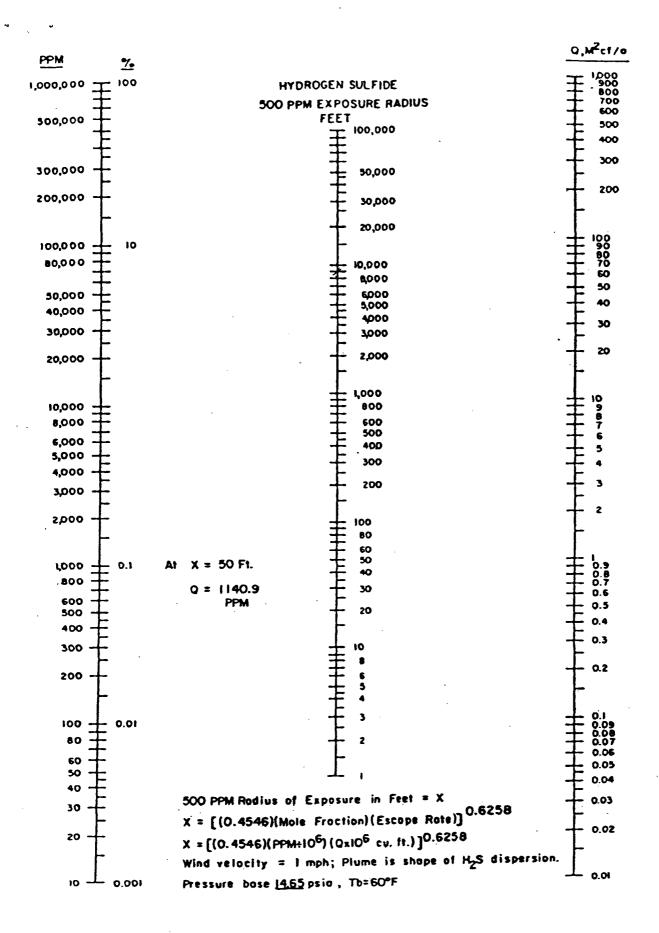
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



NO RESIDENTS WITHIN RADIUS OF EXPOSURE

Hwy 82





TOXIC EFFECTS OF HYDROGEN SULFIDE

HYDROGEN SULFIDE IS EXTREMELY TOXIC. THE ACCEPTABLE CEILING CONCENTRATION FOR EIGHT-HOUR EXPOSURE IS 10 PPM, WHICH IS .001% BY VOLUME. HYDROGEN SULFIDE IS HEAVIER THAN AIR (SPECIFIC GRAVITY – 1.192) AND COLORLESS. IT FORMS AN EXPLOSIVE MIXTURE WITH AIR BETWEEN 4.3 AND 46.0 PERCENT BY VOLUME. HYDROGEN SULFIDE IS ALMOST AS TOXIC AS HYDROGEN CYANIDE AND IS BETWEEN FIVE AND SIX TIMES MORE TOXIC THAN CARBON MONOXIDE. TOXICITY DATA FOR HYDROGEN SULFIDE AND VARIOUS OTHER GASES ARE COMPARED IN TABLE I. PHYSICAL EFFECTS AT VARIOUS HYDROGEN SULFIDE EXPOSURE LEVELS ARE SHOWN IN TABLE II.

TABLE I
TOXICITY OF VARIOUS GASES

COMMON NAME	CHEMICAL FORMULA	SPECIFIC GRAVITY	THRESHOLD LIMIT	HAZARDOUS LIMIT	LETHAL CONCENTRATION
		(SC=1)	(1)	(2)	(3)
HYDROGEN	HCN	0.94	10 PPM	150 PPM/HR	300 PPM
CYANIDE					
HYDROGEN	H2S	1.18	10 PPM	250 PPM/HR	600 PPM
SULFIDE					
SULFUR	SO2	2.21	5 PPM		1000 PPM
DIOXIDE					
CHLORINE	CL2	2.45	1 PPM	4 PPM/HR	1000 PPM
CARBON	CO	0.97	50 PPM	400 PPM/HR	1000 PPM
MONOXIDE	00	0.57	3022112		100011111
CARBON	CO2	1.52	5000 PPM	5%	10%
DIOXIDE	COZ	1.52	2000 1 1 1/1		1070
METHANE	СН4	0.55	90,000 PPM	COMBUSTIBLE	E ABOVE 5% IN AIR
IVIETIANE	СП4	0.33	90,000 FFM	COMBOSTIBLE	ADOVE 3/8 IN AIR

- 1) THRESHOLD LIMIT CONCENTRATION AT WHICH IT IS BELIEVED THAT ALL WORKERS MAY BE REPEATEDLY EXPOSED DAY AFTER DAY WITHOUT ADVERSE EFFECTS.
- 2) HAZARDOUS LIMIT CONCENTRATION THAT WILL CAUSE DEATH WITH SHORT-TERM EXPOSURE.
- 3) LETHAL CONCENTRATION CONCENTRATION THAT WILL CAUSE DEATH WITH SHORT-TERM EXPOSURE.

TOXIC EFFECTS OF HYDROGEN SULFIDE

TABLE II
PHYSICAL EFFECTS OF HYDROGEN SULFIDE

PERCENT (%)	<u>PPM</u>	CONCENTRATION GRAINS 100 STD. FT3*	PHYSICAL EFFECTS
0.001	10	00.65	Obvious and unpleasant odor.
0.002	20	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in 3 – 15 minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; Stings eyes and throat.
0.050	500	32.96	Dizziness; Breathing ceases in a few minutes;
0.070	700	45.36	Needs prompt artificial respiration. Unconscious quickly; Death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; Followed by death within minutes.

^{*}AT 15.00 PSIA AND 60'F.

USE OF SELF-CONTAINED BREATHING EQUIPMENT

- 1. WRITTEN PROCEDURES SHALL BE PREPARED COVERING SAFE USE OF SCBA'S IN DANGEROUS ATMOSPHERE, WHICH MIGHT BE ENCOUNTERED IN NORMAL OPERATIONS OR IN EMERGENCIES. PERSONNEL SHALL BE FAMILIAR WITH THESE PROCEDURES AND THE AVAILABLE SCBA.
- 2. SCBA'S SHALL BE INSPECTED FREQUENTLY AT RANDOM TO INSURE THAT THEY ARE PROPERLY USED, CLEANED, AND MAINTAINED.
- 3. ANYONE WHO MAY USE THE SCBA'S SHALL BE TRAINED IN HOW TO INSURE PROPER FACE-PIECE TO FACE SEAL. THEY SHALL WEAR SCBA'S IN NORMAL AIR AND THEN WEAR THEM IN A TEST ATMOSPHERE. (NOTE: SUCH ITEMS AS FACIAL HAIR (BEARD OR SIDEBURNS) AND EYEGLASSES WILL NOT ALLOW PROPER SEAL.) ANYONE THAT MAY BE REASONABLY EXPECTED TO WEAR SCBA'S SHOULD HAVE THESE ITEMS REMOVED BEFORE ENTERING A TOXIC ATMOSPHERE. A SPECIAL MASK MUST BE OBTAINED FOR ANYONE WHO MUST WEAR EYEGLASSES OR CONTACT LENSES.
- 4. MAINTENANCE AND CARE OF SCBA'S:
 - A. A PROGRAM FOR MAINTENANCE AND CARE OF SCBA'S SHALL INCLUDE THE FOLLOWING:
 - 1. INSPECTION FOR DEFECTS, INCLUDING LEAK CHECKS.
 - 2. CLEANING AND DISINFECTING.
 - 3. REPAIR.
 - 4. STORAGE.
 - B. INSPECTION; SELF-CONTAINED BREATHING APPARATUS FOR EMERGENCY USE SHALL BE INSPECTED MONTHLY FOR THE FOLLOWING PERMANENT RECORDS KEPT OF THESE INSPECTIONS.
 - 1. FULLY CHARGED CYLINDERS.
 - 2. REGULATOR AND WARNING DEVICE OPERATION.
 - 3. CONDITION OF FACE PIECE AND CONNECTIONS.
 - 4. ELASTOMER OR RUBBER PARTS SHALL BE STRETCHED OR MASSAGED TO KEEP THEM PLIABLE AND PREVENT DETERIORATION.
 - C. ROUTINELY USED SCBA'S SHALL BE COLLECTED, CLEANED AND DISINFECTED AS FREQUENTLY AS NECESSARY TO INSURE PROPER PROTECTION IS PROVIDED. (22)

USE OF SELF-CONTAINED BREATHING EQUIPMENT

- 5. PERSONS ASSIGNED TASKS THAT REQUIRES USE OF SELF-CONTAINED BREATHING EQUIPMENT SHALL BE CERTIFIED PHYSICALLY FIT FOR BREATHING EQUIPMENT USAGE BY THE LOCAL COMPANY PHYSICIAN AT LEAST ANNUALLY.
- 6. SCBA'S SHOULD BE WORN WHEN:
 - A. ANY EMPLOYEE WORKS NEAR THE TOP OR ON TOP OF ANY TANK UNLESS TEST REVEALS LESS THAN 10 PPM OF H2S.
 - B. WHEN BREAKING OUT ANY LINE WHERE H2S CAN REASONABLY BE EXPECTED.
 - C. WHEN SAMPLING AIR IN AREAS TO DETERMINE IF TOXIC CONCENTRATIONS OF H2S EXISTS.
 - D. WHEN WORKING IN AREAS WHERE OVER 10 PPM H2S HAS BEEN DETECTED.
 - E. AT ANY TIME THERE IS A DOUBT AS TO THE H2S LEVEL IN THE AREA TO BE ENTERED.

RESCUE FIRST AID FOR H2S POISONING

DO NOT PANIC!

REMAIN CALM - THINK!

- 1. HOLD YOUR BREATH. (DO NOT INHALE FIRST; STOP BREATHING.)
- 2. PUT ON BREATHING APPARATUS.
- 3. REMOVE VICTIM(S) TO FRESH AIR AS QUICKLY AS POSSIBLE. (GO UP-WIND FROM SOURCE OR AT RIGHT ANGLE TO THE WIND. NOT DOWN WIND.)
- 4. BRIEFLY APPLY CHEST PRESSURE ARM LIFT METHOD OF ARTIFICIAL RESPIRATION TO CLEAN THE VICTIM'S LUNGS AND TO AVOID INHALING ANY TOXIC GAS DIRECTLY FROM THE VICTIM'S LUNGS.
- 5. PROVIDE FOR PROMPT TRANSPORTATION TO THE HOSPITAL, AND CONTINUE GIVING ARTIFICIAL RESPIRATION IF NEEDED.
- 6. HOSPITAL(S) OR MEDICAL FACILITIES NEED TO BE INFORMED, BEFORE-HAND, OF THE POSSIBILITY OF H2S GAS POISONING NO MATTER HOW REMOTE THE POSSIBILITY IS.
- 7. NOTIFY EMERGENCY ROOM PERSONNEL THAT THE VICTIM(S) HAS BEEN EXPOSED TO H2S GAS.

BESIDES BASIC FIRST AID, EVERYONE ON LOCATION SHOULD HAVE A GOOD WORKING KNOWLEDGE OF ARTIFICIAL RESPIRATION, AS WELL AS FIRST AID FOR EYES AND SKIN CONTACT WITH LIQUID H2S. EVERYONE NEEDS TO MASTER THESE NECESSARY SKILLS.