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

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

Form C-101 Revised March 17, 1999

Oil Conservation Division RECEIVED State Lease - 6 Copies 2040 South Pacheco

State Lease - 6 Copies

District 14				Fee, NM 87505 JAN 2 7 2004 Fee		Fee Lease - 5 Copies				
2040 South Fac	checo, sam	a i c, i vivi o	1303		Sunta 1	C, 1111		OCD-ARTES	,	AMENDED REPORT
A PPI J	CATIO	N FOR	PERMIT T	U IIBU O	RF_F	NTFL				ADD A ZONE
AIILI	CATIO		Operator Name an		, KE-E	11121	, DEEL E		OGRID Nu	
Clayton Wi									25706	;
Six Desta [Midland, T.									³ API Num	ber
								30-015-	3320.	\$
				Property Na				⁶ Well No. 20		
	<u>5255</u>				urface L		<u> </u>		÷	
UL or lot no.	Section	Township	Range	Lot ldn	Feet fro		North/South line	Feet from the	East/West	line County
G G	20	17 S	29 E	LOC IGH	179	·	NORTH	1670	EAS	
<u> </u>		173		ttom Uole					LAS	I EDDI
		l			_					
UL or lot no.	Section	Township	Range	Lot ldn	Feet fro	m the	North/South line	Feet from the	East/West	t line County
								10.5		
F F.	4 ()/		Proposed Pool 1				O	-	sed Pool 2	0.4 (00500)
Empire, Ea	ist (Yesc	o) 9001U	<u> </u>	<u> </u>			Grayburg	Jackson –7R's	<u>,QN,GB,</u>	5A (28309)
11 Work 7	Гуре Code		12 Well Type Code		13 Cable	/Rotary		¹⁴ Lease Type Code		15 Ground Level Elevation
	N		O 17 P 1 P 1		R 18 Formation		S Contractor			
	ultiple		¹⁷ Proposed Depth 5000'	1	Yeso			²⁰ Spud Date Upon approval		
				roposed Ca			nent Progra			
Hole Si	ize	Cas	sing Size	Casing weig			Setting Depth	Sacks of Co	ement	Estimated TOC
12-1/4	4 "	8	-5/8"	24#		300	460'	300		Surface
7-7/8	,,,	5	-1/2"	17#			5000'	935		Surface
								-		
22 Describe the	e proposed	program If	this application is	to DEFPEN or	PLUG BAC	`K give	the data on the	present productive zo	ne and prop	osed new productive zone.
		_	ram, if any. Use a					,	FF	
	•	િં	Oc'	$\Theta 3a$		-				
1. Drill a 12	2-1/4" ho	ole to 400)'. Run and s	et 49900; of 8	-5/8" 24	# J-55	ST&C casi	ng. Cement wi	th 300 s	c. of Cl. C
cement.	Circula	ite ceme	nt to surface.	•						
2. Drill a 7	-7/8" ho	le to 500	0'. Run and s	set 5000' of	5-1/2" 1	7# ST	&C casing	with DV tool @	+2500'.	
Cement	1 st stage	e with 36	5 sx. Cl. C 50	/50 Poz and				70 sx. 35/65 Po		tail with
150 sx. (CI. C nea	at. Circu	late cement to	o surface.			1			
²³ I hereby cert	ify that the	information	given above is true	and complete	to the	R		CONCEDIAT	ION DU	VICION
best of my knowledge and belief. OIL CONSERVATION DIVISION					VISION					
Signature: Poeton Lyna Approved by: Signature					Gum					
Printed name:	Betsy Lu	una				Title:		* STIPE	RVBOR,	DISTRICT II
		Technicia	n			Appro	val Date: JAN	19 8 2004	Expiration D	JAN 2 8 2005
Date: 01/26) 682-6324			ions of Approva			
				,	[Attach	•		heurs	
· · · · · · · · · · · · · · · · · · ·										



NOTIFY OCD SPUD & TIME TO WITNESS 8 5/8" CASING surface casing WITNESS OCD

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT IV

State of New Mexico

Form C-102 Revised March 17, 1999

DISTRICT II 811 South First, Artesia, NM 88210 Energy, Minerals and Natural Resources Department

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
30-015- 96610		Empire, East (Yeso)	
Property Code	Proj	perty Name	Well Number
25235	STATE	E "20 B"	20
OGRID No.	Ope	rator Name	Elevation
25706	CLAYTON WIL	LIAMS ENERGY INC	3609'

Surface Location

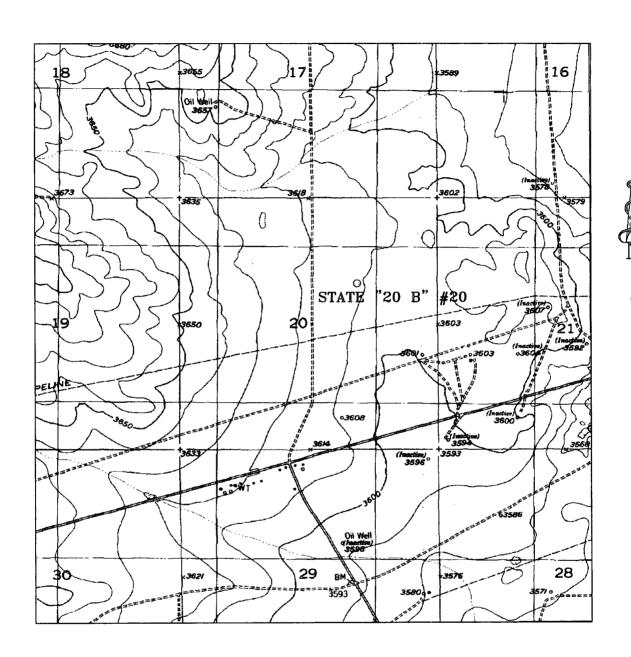
UL or lot	Vo. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	20	17 S	29 E		1790	NORTH	1670	EAST	EDDY

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	i	r Infill Co	nsolidation (Code Or	l 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

	790,	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
 	 	Signature Betsy Luna
	3611.0' 3608.7' 1670' 3601.2' 3607.9'	Printed Name Engineering Technician Title Ol-26-2004 Date
	Lon - W104°05'37.8"	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and
 	RECEIVED JAN 2.7 2004 OCD-ARTESIA	JANUARY 22 0004 Date Survey BY L JOACS Signature & Sept of MEXICO
		9 707 SW No. 3948
	İ	Certificate 7977 BASIN SURVEYS



STATE "20 B" #20 Located at 1790' FNL and 1670' FEL Section 20, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.



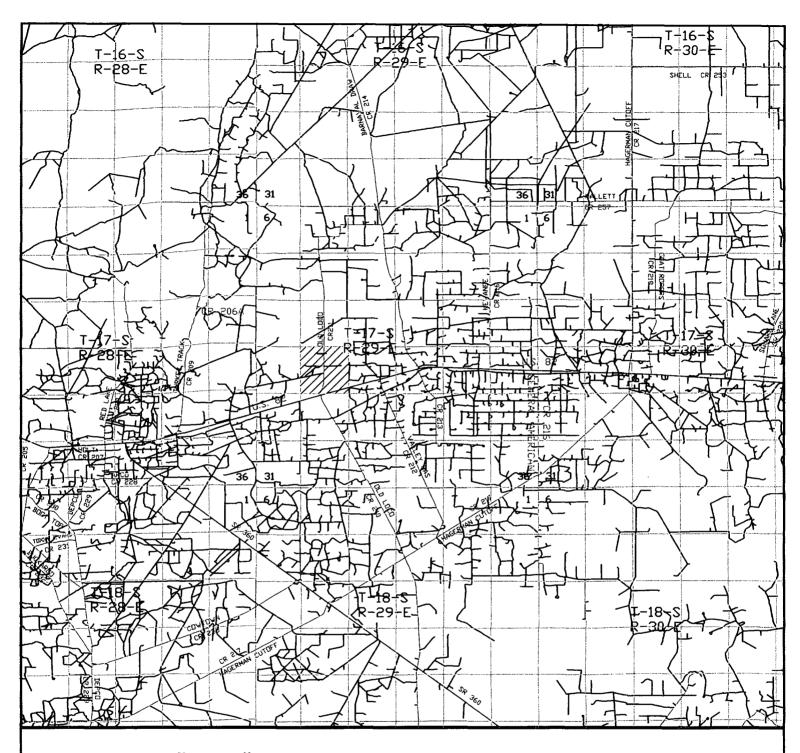
P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

_	lumber:	3948AA	. "
	/ Date:	01-22-2	handakini di barata

Scale: 1" = 2000'

Date: 01-23-2004

CLAYTON WILLIAMS ENERGY INC.



STATE "20 B" #20 Located at 1790' FNL and 1670' FEL Section 20, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.



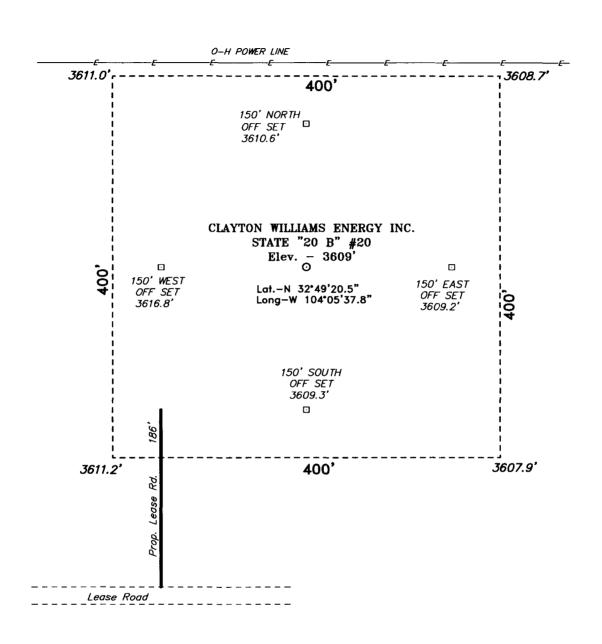
P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393—7316 — Office (505) 392—3074 — Fax basinsurveys.com

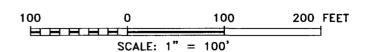
W.O. Number:	3948AA - KJG CD#5
Survey Date:	01-22-2004
Scale: 1" = 2	MILES

Date: 01-23-2004

CLAYTON WILLIAMS ENERGY INC.

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





CLAYTON WILLIAMS ENERGY INC.

THE STATE "20 B" No. 20 LOCATED 1790' FROM THE

Well Pad Topo

Sheets

DIRECTIONS TO LOCATION:

DATE: 01-23-2004

FROM THE JUNCTION OF US HWY 82 AND CO. RD. 211. GO NORTH ON 211 FOR 0.6 MILE; THENCE EAST FOR 0.1 MILE TO PROPOSED LEASE ROAD.

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

Disk: KJG CD#5 - 3948A.DWG

W.O. Number: 3948 Drawn By: K. GOAD

NORTH LINE AND 1670' FROM THE EAST LINE OF SECTION 20, TOWNSHIP 17 SOUTH, RANGE 29 EAST,

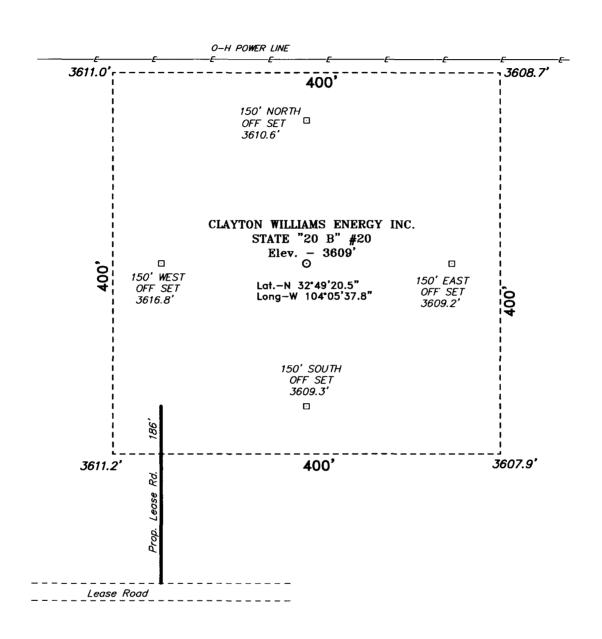
STATE "20 B" #20 /

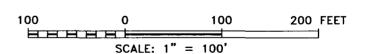
REF:

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

Sheet Survey Date: 01-22-2004 of

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





CLAYTON WILLIAMS ENERGY INC.

DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF US HWY 82 AND CO. RD. 211. GO NORTH ON 211 FOR 0.6 MILE; THENCE EAST FOR 0.1 MILE TO PROPOSED LEASE ROAD.

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

W.O. Number: 3948 Drawn By: K. GOAD

DATE: 01-23-2004 Disk: KJG CD#5 -3948A.DWG STATE "20 B" #20 / Well Pad Topo

THE STATE "20 B" No. 20 LOCATED 1790' FROM THE NORTH LINE AND 1670' FROM THE EAST LINE OF SECTION 20, TOWNSHIP 17 SOUTH, RANGE 29 EAST,

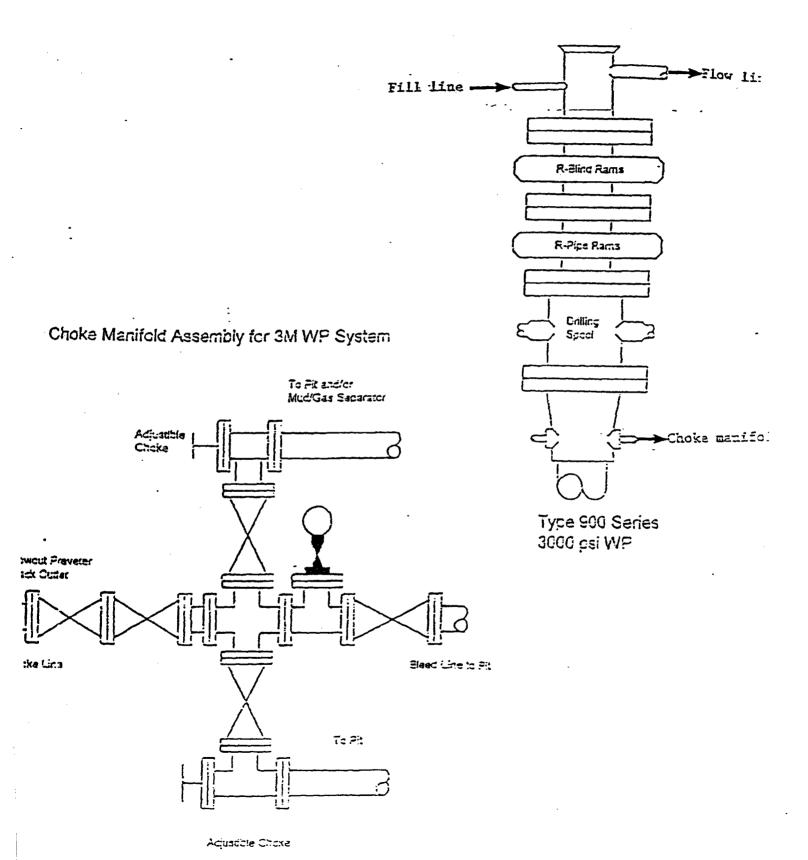
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 01-22-2004

Sheet

Sheets

BLOWOUT PREVENTER SYSTEM





Prepared For: Date Prepared:

Clayton Williams Energy, Inc.

January 26, 2004

Prepared By:

INDIAN

Fire & Safety, Inc.

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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. <u>DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED.</u>

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

CLAYTON WILLIAMS ENERGY, INC. COMPANY EMERGENCY NUMBERS

Clayton Williams Energy, Inc. Midland, Texas	432-682-6324
John Kennedy – Drilling Manager	
Office	432-688-3218
Pager	800-917-9815
Home	432-620-0769
Mike Langford	•
Sierra Engineering	432-683-8000
Cell	432-557-4698
Matt Swierc – Production and Regulatory	
Office	432-688-3251
Fox Pager	877-626-8106
Home	
Phillip Creech – Production Foreman	
Cell	432-634-4018
Pager	877-612-6746
Home	432-389-5793

State of New Mexico Energy, Minorals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

t to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410 DISTRICT IV

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name	Well Number
	STATE "20 B"	20
OGRID No.	Operator Name	Elevation
į .	CLAYTON WILLIAMS ENERGY II	NC. 3609'

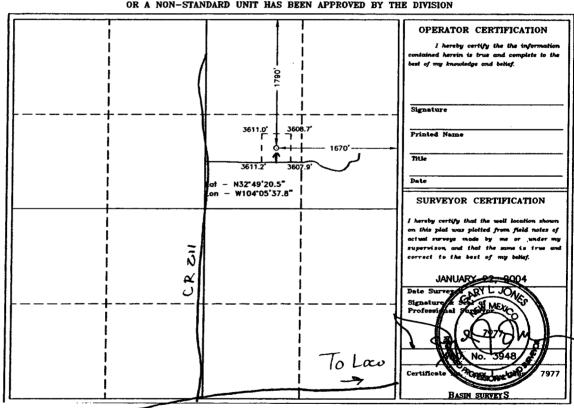
Surface Location

UL or lot No.	Section	Township	Range	Lot làn	Feet from the	North/South line	Feet from the	East/West line	County
G	20	17 S	29 E		1790	NORTH	1670	EAST	EDDY

Bottom Hole Location If Different From Surface

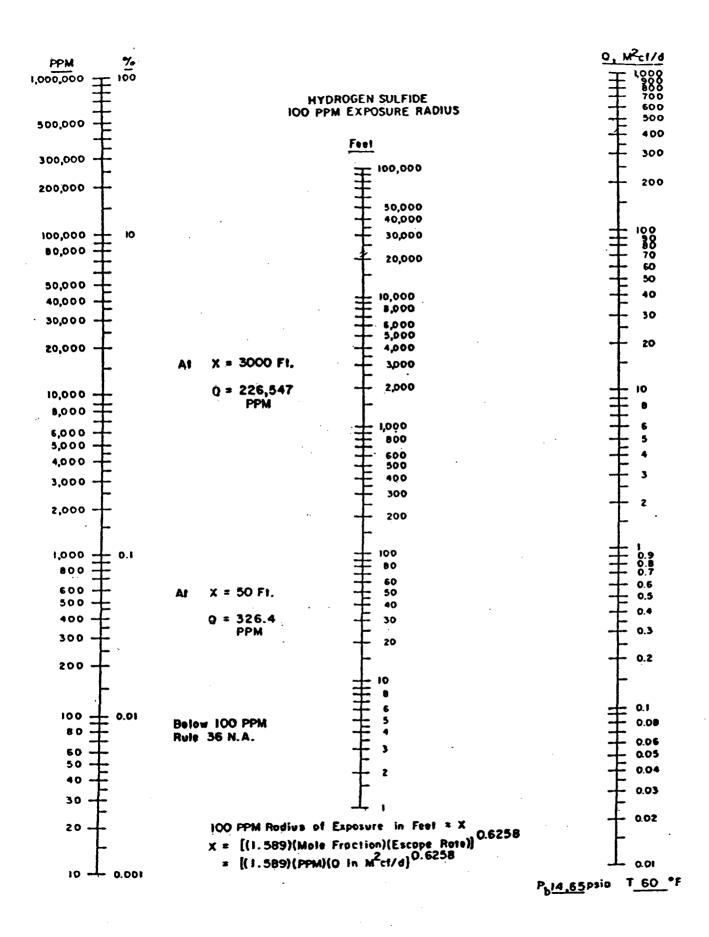
I	UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
ŀ	Dedicated Acres	Joint o	- India	nsolidation (ler No.				<u> </u>
l	bedicated weles	Joint of		PRODUCTION (ode Ur	ier no.				

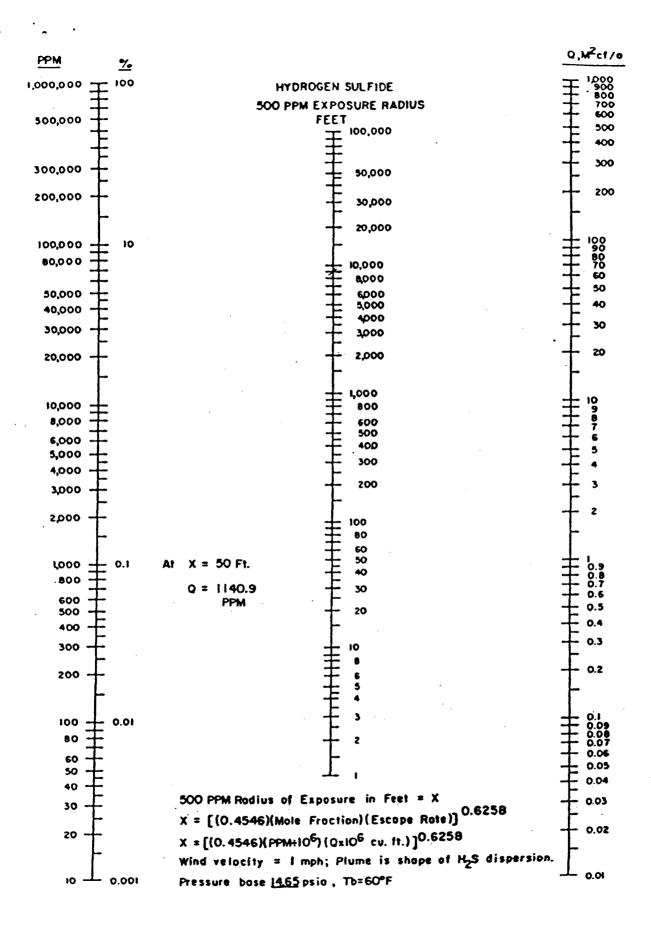
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Hwy 82

NO RESIDENTS WITHIN RADIUS OF EXPOSURE





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	CHEMICAL	SPECIFIC	THRESHOLD	HAZARDOUS	LETHAL
NAME	FORMULA	GRAVITY	LIMIT	LIMIT	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					
CARBON	CO2	1.52	5000 PPM	5%	10%
DIOXIDE					
METHANE	CH4	0.55	90,000 PPM	COMBUSTIBLE	E ABOVE 5% 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

		CONCENTRATION	PHYSICAL EFFECTS
PERCENT (%)	<u>PPM</u>	GRAINS	
		100 STD. FT3*	
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; Needs prompt artificial respiration.
0.070	700	45.36	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.