District I 1625 N. French 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 Resource RECEIVED

MAY 3 0 Submit to appropriate District Office

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

999-ANTROIA

☐ AMENDED REPORT

Form C-101

May 27, 2004

	APP.	<u>LICAT.</u>	104 k01	RPERMIT	TO D	<u>rill, re-</u>	ENIE	<u>.R. DI</u>	FFLFU	<u>I. PLUGBA</u>	<u>CK. (</u>	<u> JR AD</u>	D A ZONE
			POGO PRO	Operator Name: ODUCING CO	and Addre	55				² OGRID Number	017	7891	;
		1	MIDLAND,	TEXAS 79	702-7	340				API Numbe	ţ.		
										0	15.	- 34	897
		erry Code	,			Property	Name Well No.						
	35	161	<u> </u>		CA	MP "23"	i				<u> </u>		# 1
	'Proposed Pool 1 UNDES. FOUR MILE DRAW-MORROW (76960)									"" Prop	osed Poo	ol 2 	
						⁷ Surface	Locat	ion					
	UL or lot no. D	Section 23	Township 19S	Range 26E	Loci		om the		outh line	Feet from the	دىندع WES	West line	County EDDY
				⁻⁸ Propos	ed Botto	om Hole Loca	ition If E	Differen	nt From S	Surface			
	UL or lot no.	Section	Township	Range	Loti	1	om the		outh line	Feet from the	East∧	West line	County
					Ad	ditional W	ell Info	rmatio	on				
	" Work	Type Code		12 Well Type Code	•		e/Rotary		14	Lease Type Code			nd Level Elevation
	10 %	N Sultiple		G 17 Proposed Depth		ROTARY	mation			P Contractor	-	3292	™ Spud Date
,		NO		9900'		MORROW			PATI	ERSON			APPROVED
5	Depth to Grou	indwater	85 ' ± .	10	Distance	from nearest fre	sh water w	cli 1	Mile (Distance from	nearest	surface wa	ter · O
7.	Piu Liner:	Synthetic 2	XX <u>12</u> mil:	s thick Clay	Pit Volu	ime: 18Mbbls			ng Method:			1011. 1.	M.L3.E.
	Close	d-Loop Syst	tem .			<u> </u>	<u> </u>	Fresh V	Vator XX	Bane 🕅 Diesel O	<u>il-basad</u>	Cas'A	je 🗌
Ι.				21	Propos	ed Casing a	and Ce	ment l	Progran	n			
	Hole S	ize	Casi	ng Sizo		weight/foot	t	etting De		Sacks of Co	ment		Estimated TOC
	26"				Condu		ļ	40'		Redi-mix		Surfa	ace
-	17	1 '' 2 ''		3/8"	48			500'		550 Sx.			face
	121"	1 11		5/8"	36			050'		600 Sx.	 		face
	8	1 11 2	5½'		17	<u> </u>	1	900'		1500 Sx.		Esti	mate 2000'
	" Describe th	ne proposed	program. If :	his application is	to DEEPE	Nor PLUG BA	CK, give t	he data e	in the preso	int productive zone	and pro	posed new	productive zone.
				nm, if any. Use ac									
										-			
					SEE A	TTACHED :	SHEET						
						·							
											_		
		Fre	sh L	Vater	Mu	d To	l e	05	c'	BC)		
Ì		tify that the	information <u>u</u>	iven above is true		plete to the best				ONSERVAT	ION	DIVISI	ON
	constructed :	according t	o NMOCD g	certify that the duidelines			Approv	ed by:				_	
			e OCD-appro	pian L.			!	 		BRYAN G. A			ist
}	Printed name:		Janica	pel.	X	enie	Title:		n Mul	5 2006	OL	UL	1 0 5 2007
ļ	Title: Age		_//	<u> </u>			Approv	al Date:		E	xpiration	n Date:	
				alornet.co	om								
	Date: 05	Date: 05/27/06 Phone: 505-391-8503			Conditions of Approval Attached								

- 1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
- 2. Drill 17½" hole to 500' with fresh water. Run and set 500' of 13 3/8" 48# H-40 ST&C. Cement with 550 Sx. of Class "C" cement + ½# Flocele/Sx, + 2% CaCl, circulate cement to surface.
- 3. Drill 12½" hole to 1050' with brane water. Run and set 1050' of 9 5/8" 36# J-55 ST&C casing. Cement with 600 Sx. of Class "C" cement $+\frac{1}{4}\#$ Flocele/Sx., +2% CaCl, cement volume may be changed depending on fluid caliper results. Circulate cement to surface.
- 4. Drill 8½" hole to 9900'with fresh water. Run and set 9900' of 5½" 17# L-80 LT&C casing. Cement in two stages with DV Tool at 4500'±. Cement 1st stage with 1000 Sx. of Class "H" Premium Plus cement + additives, cement 2nd stage with 500 Sx. of Class "C" cement + additives actual cement volumes will be determined after open hole logs are run. Estimate top of cement 2000' from surface.

DISTRICT I 1625 N. French Dr., Hobbs, NM 68240 DISTRICT II State of New Mexico

Form C-102 Revised March 17, 1999

Energy, Minerals and Natural Resources Department

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

811 South First, Artesia, NM 88210
DISTRICT III
1000 Rio Braxos Rd., Axtec, NM 87410

2040 South Pacheco, Santa Fe, NM 87505

DISTRICT IV

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

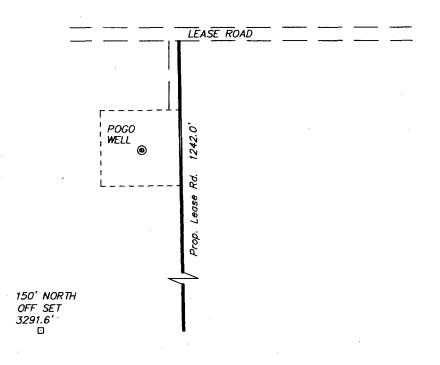
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number				Pool Code			Pool Name			
•		769	60	UN	UNDES. FOUR MILE DRAW-MORROW					
Property	Code	T	Property Name					Well No	Well Number	
					CAMP "23	,")		1		
OGRID N	0.		····		Operator Nan	ne		Eleva	Elevation	
017891		POGO PRODUCING COMPANY					329	3292		
					Surface Loc	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	23	19 S	26 E		660	NORTH	660	WEST	EDDY	
*			Bottom	Hole Loc	cation If Diffe	erent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	s Joint o	or Infill Co	nsolidation (Code Or	der No.			<u> </u>		

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

	ON A NON-SIAN	DARD UNIT HAS DE	
Lat.: N32*39'03.1" Long.: W104*21'32.7" (NAD-83)			OPERATOR CERTIFICATION I hereby certify the information contained herein is true and complete to the best of my knowledge and belief. Signature Joe T. Janica Printed Name Agent Title 05/27/06 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 supervison, and that the same is true and correct to the best of my belief. MAY 8, 2006 Date Superved Signature & Seal of Professional Surveyor WO. 10. 65688 Certificate No. Gary L. Jones 7977 BASIN SURVEYS

SECTION 23, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



POGO PRODUCING COMPANY CAMP "23" #1 ELEV. - 3292'

⊡ 150' WEST OFF SET 3291.8'

Lat.-N 32°39'03.1" Long-W 104°21'32.7" (NAD-83) □ 150' EAST OFF SET 3291.0'

150' SOUTH OFF SET 3291.3'

Directions to Location:

FROM THE JUNCTION OF CO. RD. 34 (LAKE ROAD) AND CO. RD. 36 (SUNRAY ROAD), TAKE CO. RD. 36 EAST FOR 0.7 MILES TO LEASE ROAD; THENCE 0.1 MILE ON LEASE ROAD TO THE PROPOSED LEASE ROAD.

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

100 0 100 200 FEET

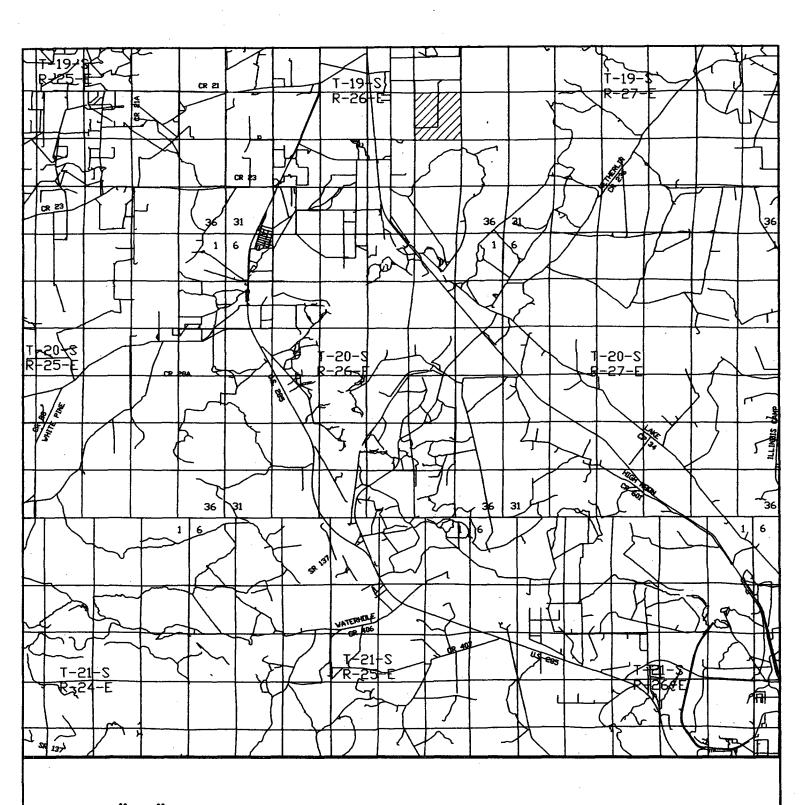
SCALE: 1" = 100'

POGO PRODUCING CO.

REF: CAMP "23" #1 / Well Pad Topo

THE CAMP "23" No. 1 LOCATED 660' FROM THE NORTH LINE AND 660' FROM THE WEST LINE OF SECTION 23, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 05-04-2006 | Sheet 1 of 1 Sheets



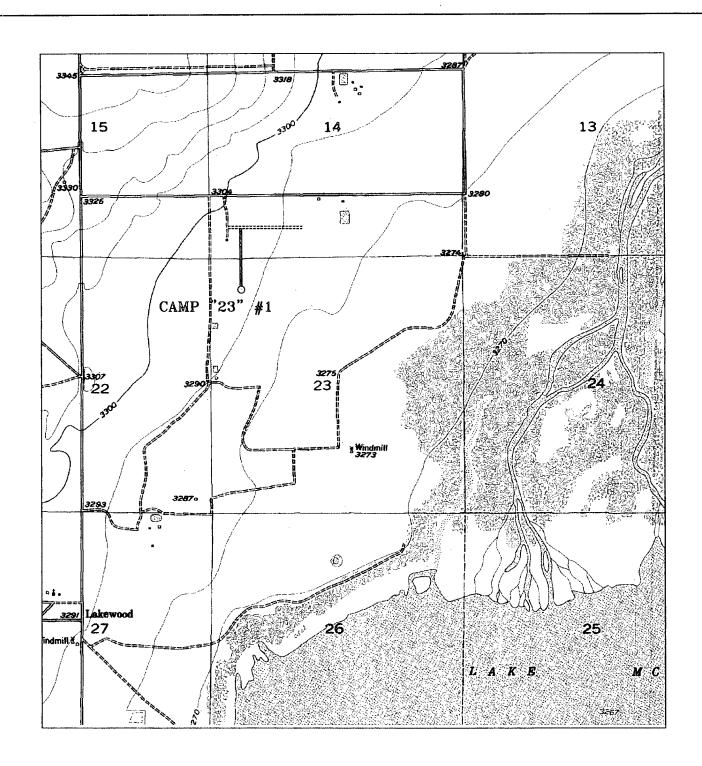
CAMP "23" #1 Located at 660' FNL and 660' FWL Section 23, Township 19 South, Range 26 East, N.M.P.M., Eddy County, New Mexico.



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:	JMS 6588T
Survey Date:	05-04-2006
Scale: 1" = 2	000,
Date: 05-08-	-2006

POGO PRODUCING COMPANY



CAMP "23" #1
Located at 660' FNL and 660' FWL
Section 23, Township 19 South, Range 26 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. Nui	mber: J	MS	6588T	
Survey	Date:	05-0	4-2006	
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Date: 0	5-08-2	006		

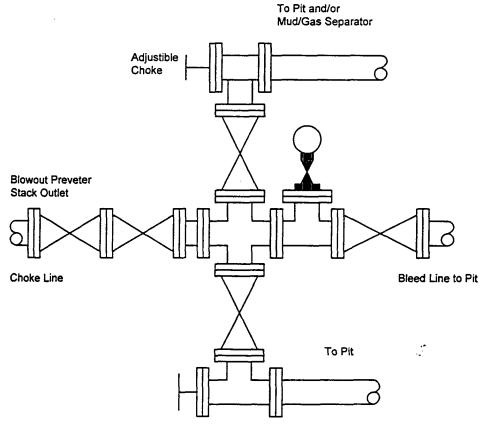
POGO PRODUCING COMPANY

BLOWOUT PREVENTER SYSTEM

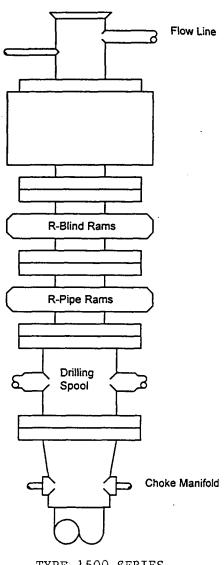
5000 PSI

Fill Line

Choke Manifold Assembly for 5M WP System



Adjustible Choke



TYPE 1500 SERIES 5000 psi WP

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

This well and its anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be Hydrogen Sulfide production in the nearby area. There are no private Residences in the area but a contingency plan has been orchestrated. Pogo Producing Company will have a Company Representative living on location through out the drilling of this well. An un-manned H2S safety trailer and monitoring equipment will also be station on location during the drilling operation below the Surface Casing depth of ± 500 FT until the completion of the subject well at ± 9900 FT

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

TABLE OF CONTENS

COVER PAGE AND REASONING	page 1
GENERAL EMERGENCY PLAN	page 3
EMERGENCY PROCEDURE FOR UNCONTROLLED RELEASES OF H2S	page 3-4
EMERGENCY NUMBERS AND	page 4-5
PRODUCTION OF THE GENERAL RADIUS OF EXPOSURE (ROE)	page 6
PUBLIC EVACUATION PLAN	page 6-7
PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:	
PRECEDURE FOR IGNITION	page 7
REQUIRED EMERGENCY EQUIPMENT	page 8
USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA)	page 9
RESCUE & FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING	page 9-10
H2S TOXIC EFFECTS	page 11
H2S PHYSICAL EFFECTS	page 11
LOCATION MAP	page 12-13

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

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 unsuspection 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).
- 3. Contact company personnel if not on location.
- 4. Set in motion the steps to protect and or remove the general public to an 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 Police-City Street (s)
 State Police- State Rd
 County Sheriff County Rd.
- 7. Call the NMOCD

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

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 have been contacted)

	OFFICE	MOBILE	HOME
POGO Producing Co.	432 685 8100		
Richard Wright	432 685 8140	432 556 7595	432 699 7108
Barrett Smith	432 685 8141	432 425 0149	432 520 7337
Rex Jasper	432 685 8143	432 631 0127	432 694 1839
Donny Davis	pgr 432 563 6944	432 556 5927	432 570 9555
Jerry Cooper	432 685 8101		432 697 4629
EMERGENCY RESPONSE N	IUMBERS:		
State Police:	Eddy County		505 748 9718
State Police:	Lea County		505 392 5588
Sheriff	Eddy County		505 746 2701
Sheriff	Lea County		
Emergency Medical Ser	Eddy County		911 or 505 746 2701
(Ambulance)	Lea County	Eunice	911 or 505 394 3258
Emergency Response	Eddy County SERC Lea County		505 476 9620
Artesia Police Dept			505 746 5001
Artesia Fire Dept			505 746 5001

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

Carlsbad Police Dept Carlsbad Fire Dept		505 885 2111 505 885 3125
Loco Hills Police Dept		505 677 2349
Jal Police Dept Jal Fire Dept Jal ambulance		505 395 2501 505 395 2221 505 395 2221
Eunice Police Dept Eunice Fire Dept Eunice Ambulance		505 394 0112 505 394 3258 505 394 3258
Hobbs Police Dept		
NMOCD	District 1 (Lea, Roosevelt, Curry) District 2 (Eddy Chavez)	505 393 6161 505 748 1283
Lea County Information		505 393 8203
Callaway Safety	Lea/Eddy County	505 392 2973
BJ Services	Artesia Hobbs	505 746 3140 505 392 5556
Halliburton	Artesia Hobbs	1 800 523 2482 1 800 523 2482
Wild Well Control	Midland Mobile	432 550 6202 432 553 1166

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

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 which 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:

- 1. 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

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

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 & 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 for combustible gases.
- 5. Following ignition, continue with the emergency actions & procedures as before.

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

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 condition 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 wind socks will be placed in strategic locations, visible from all angles.
- 5. H2S detectors and alarms: The stationary detector with thre sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days ora 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

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

- > 1-20# class ABC fire extinguisher
- > Communication via cell phones on location and vehicles on location.

<u>USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):</u>

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED:
 - > Working near the top or on top of a tank
 - > Disconnecting any line where H2S can reasonably be expected
 - > Sampling air in the area to determine if toxic concentrations of H2S exist.
 - > Working in areas where over 10 ppm on H2S has been detected.
 - > At any teim 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 locaton.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.
- Air quality shall be continuously be 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 & think
- Get on the breathing apparatus

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

- Remove the victim to the safe breathing area as quickly as possible. Up wind an 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.

CAMP "23" # 1 660' FNL & 660' FWL SECTION 23 T19S-R26E EDDY CO. NM

HYDROGEN SULFIDE TOXIC EFFECTS

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.

Various Gases

COMMON NAME	CHEMICAL ABBREV.	SPECIFIC GRVTY.	THRESHOLD LIMITS	HAZARDOUS LIMITS	LETHAL CONCENTRATIONS
Hydrogen Sulfide	H2S	1.19	10ppm 15 ppm	100 ppm/hr	600 ppm
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Sulfur Dioxide	SO2	2.21	2 ppm	N/A	1000 ppm
Chlorine	CL2	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 -

10 ppm:

NIOSH guide to chemical hazards

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 ppm	Kills the sense of smell rapidly. Severly irritates the eyes and throat. Severe flu like symptoms after 4 or more ours. May cause lung damage and or death.				
.06%	600 ppm	Loss of consciousness quickly, death will result if not rescued promptly.				

