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

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

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

☐ AMENDED REPORT

1220 S. St. F	rancis Dr., S	Santa Fe, Ni	1 87503		•	Santa	Fe, N	M 875	05				
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L	I	L	. Propo	osed Bott	oin Hal	le Locat	ion If I	Differer	nt From S	urface	L		
UL or lot no.	Section 19	Township 20S	Range 27E	Lot	1	Feet from	m the	1	outh line	Feet from the 2100	East/W EA	est line ST	County EDDY
				A	ddition	ial We							
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ŧ	d-Leop Sysi					 -			•	Bring XX Dieselio	il-based_[] Gas'	Air [
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	Date: 04/04/06 Phone: 505-391-8503						Conditi	ons of A	pproval Ana	iched 🗆			

- 1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
- 2. Drill $17\frac{1}{2}$ " hole to 500' with fresh water. Run and set 500' of 13 3/8" 48# H-40 ST&C casing. Cement with 550 Sx. of Class "C" cement + 2% CaCl, $+\frac{1}{4}$ # Flocele/Sx. Circulate cement to surface.
- 3. Drill $12\frac{1}{4}$ " hole to 3000'. Run and set 3000' of 9 5/8" 36# J-55 ST&C casing. Cement with 1800 Sx. of Class "C" cement + additives, circulate cement to surface.
- 4. Drill 8½" hole to 8500', run Gyro and plug back to 7525' Kick Off Point. Drill curve and lateral to 8225'± MD. Reduce hole to 7 7/8" and drill to MD of 10,765' TVD of 8000'. Run and set 10,765' of 5½" casing as follows: 3565' of 5½" 17# L-80 BTC, 7200' of 5½" 17# L-80 LT&C casing. Cement with 2000 Sx. of Class "C" cement + 8± # of Gilsonite/Sx. + additives mix cement at 14.1 #/Gallon, estimate top of cement 2800' from surface. Volume of cement may be altered after logs are run and volumes are calculated.

#N/A

#N/A

#61/4

AFE STATE 19 COM# 3.xis

MITCHELL ENGINEERING PROGRAMS

COPYRIGHT 1990 MITCHELL ENGINEERING, PO BOX 1492, GOLDEN, CO. 80402, USA (303) 278 3744

LONG'S METHOD OF SURVEY COMPUTATION

OBLIQUE CIRCULAR ARC INTERPOLATION

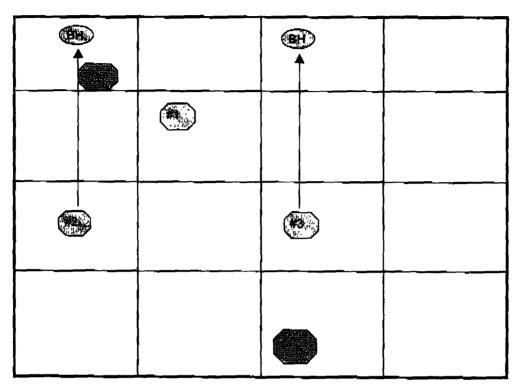
MD OF INTERPOLATION DEPTH, (feet)
TVD COORDINATE OF THE DEPTH (feet)
N/S COORDINATE OF DEPTH (feet)
FM COORDINATE OF DEPTH (feet)

DISTANCE TABLE

Ė	STATION A	STATION B
Ι		
Γ		
٥ţ	0.00	ft

ABLE O	F SURVE	Y STATI	ON5			(Calculator =	
TA	ΔMD	INCL	AZIM	MD	TVD	N+/S-	E+/W-	DLS
<u> </u>	n.	deg	deq	R	ħ	Ħ	π	deg/100FT
1 7	TE POINT =>	0	0	7525.00	7525.00	0.00	0.00	-
2	100	12	٥	7625.00	7624.27	10.43	0.00	12.00
3	100	24	0	7725.00	7719.20	41.28	0.00	12.00
4	100	36	0	7825.00	7805.65	91.19	0.00	12.00
5	100	48	0	7925.00	7879.83	157.98	0.00	12.00
6	100	60	0	8025.00	7938,50	238.73	0.00	12.00
7	100	72	0	8125.00	7979.10	329.92	0.00	12.00
8	100	84	0	8225.00	7999.85	427.56	0.00	12.00
9	50	90	0	8275,00	8002.46	477.46	0.00	12.00
10	100	90	0	8375.00	6002.46	577.46	0.00	0.00
11	100	90	٥	8475.00	8002.46	677,46	0.00	0.00
12	100	90	0	8575.00	8002.46	777.45	0.00	0.00
13	100	90	0	8675.00	8002.46	877.48	0.00	0.00
14	100	90	0	8775.00	8002.48	977.46	0.00	0.00
15	100	90	Q	8875,00	8002.46	1077.46	0.00	0.00
18	100	90	Ö	8975.00	8002.46	1177.46	0.00	0.00
17	100	90	0	9075.00	8002.46	1277.48	0.00	0.00
18	100	90	0	9175.00	6002,46	1377.46	0.00	0.00
19	. 100	90	0	9275.00	8002.46	1477.46	0.00	0.00
20	100	90	0	9375.00	8002.48	1577.48	0.00	0.00
21	100	90	Ó	9475,00	8002.46	1877.46	0.00	0.00
22	100	80	0	9575.00	8002_46	1777.46	0.00	0.00
23	100	90	0	9675.00	8002.46	1877.48	0.00	0.00
24	100	80	0	9775.00	8002.46	1977.46	0.00	0.00
25	100	90	0	9875.00	8002.46	2077.46	00,0	0.00
26	100	90	0	9975.00	8002.46	2177.46	0.00	0,00
27	100	90	Ö	10075.00	8002.46	2277.46	0.00	0.00
28	100	90	0	10175.00	8002.46	2377.46	0.00	0.00
29	100	80	0	10275.00	8002.48	2477.48	0.00	0.00
30	100	90	0	10375.00	8002,46	2577.46	0.00	0.00
31	100	90	0	10475.00	8002.46	2677.46	0.00	0.00
32	100	90	0	10575.00	8002,46	2777.46	0.00	0.00
33	100	90	0	10675.00	8002.46	2877.46	0.00	0.00
34	90	90	0	10765.00	8002.48	2987.46	0.00	0.00
35								
36								
37								

STATE 19 Well Goupings Sec 19, T-20-S, R-27-E, Eddy County, New Mexico



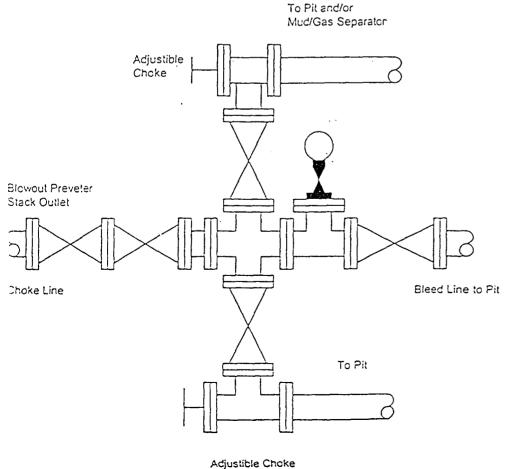
Well Name_	Legal Location In 19	Depth and Strata	Current Prod Zone
STATE NO. 12 STATE OF BUILDING		STOCKE OF THE STATE OF THE STAT	IOPASEDIMICA-HORAN
SILVENIA CITY ME 1650			dicate of the same
SALVANTE STATEMENT OF THE SEC		THE MONOW	
Singer 19:St # 1 = 1990+	NL & 810 FWL TD= B	367 CISCO PA	A

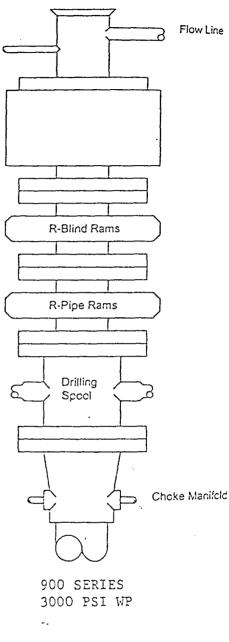
BLOWOUT PREVENTER SYSTEM

3000 PSI

Fill Line

Choke Manifold Assembly for 5M WP System





DISTRICT I 1625 N. French Dr., Hobbs, NM 86240 DISTRICT II

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

811 South First, Artesia, NM 88210

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name		
	975/9	WILDCAT-UPPER PENN.		
Property Code	Pro	Well Number		
	STA	3		
OGRID No.	Оре	Elevation		
017891	POGO PROD	3255'		

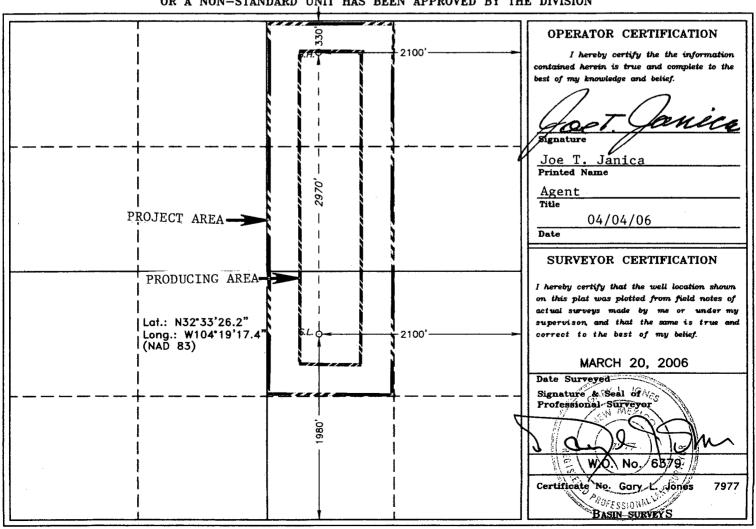
Surface Location

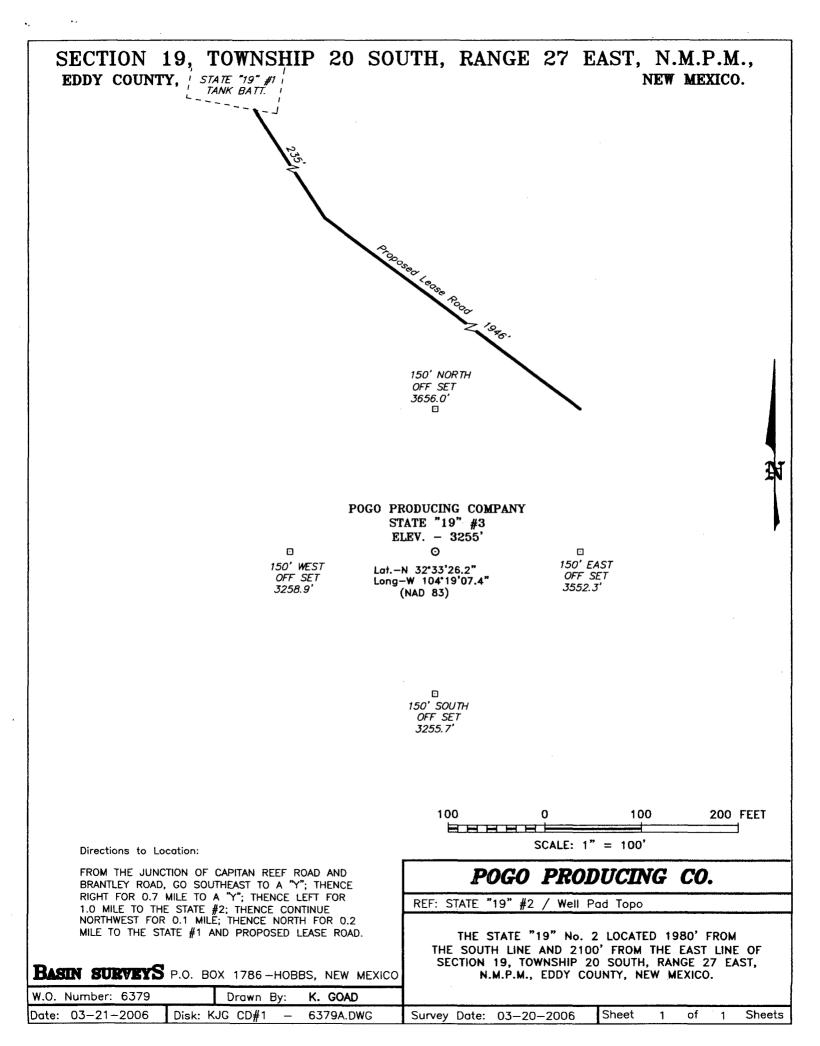
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	19	20 S	27 E		1980	SOUTH	2100	EAST	EDDY

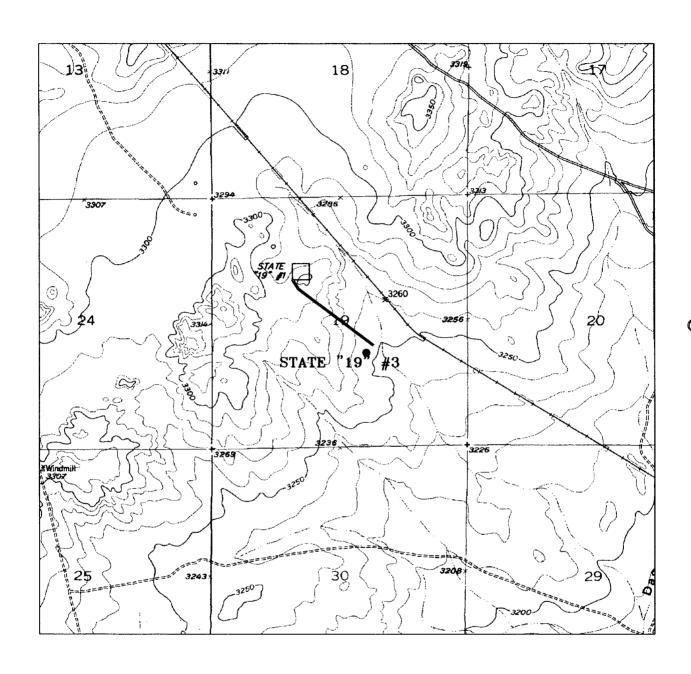
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	19	20 S	27 E		330	NORTH	2100	EAST	EDDY
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code Or	der No.				
120									

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







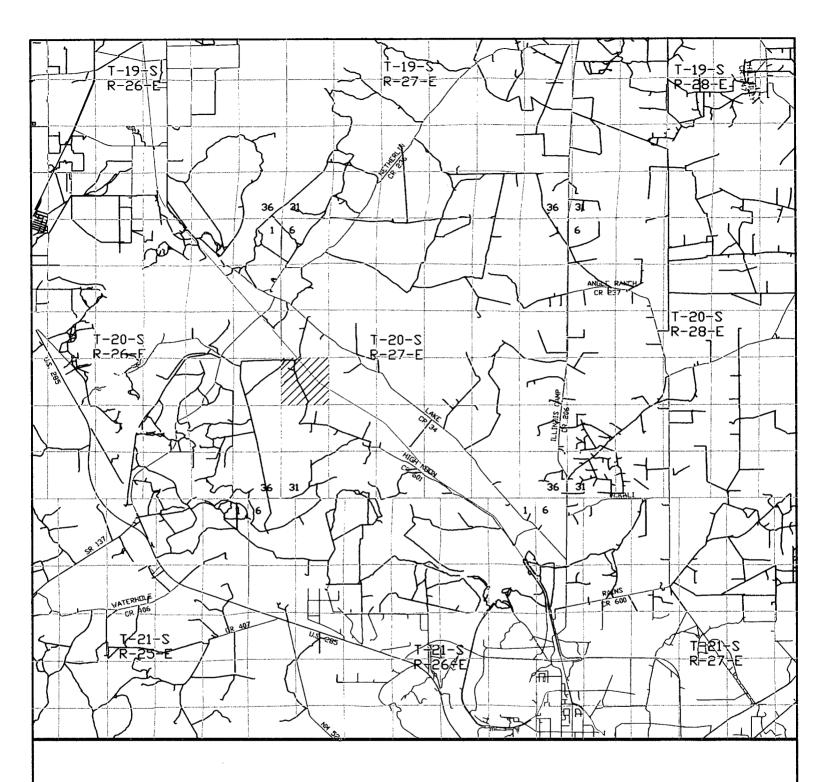
STATE "19" #3
Located at 1980' FSL and 2100' FEL
Section 19, Township 20 South, Range 27 East,
N.M.P.M., Eddy County, New Mexico.



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:	6379AA KJG CD#1
Survey Date:	03-20-2006
Scale: 1" = 2	000'
Date: 03-21-	-2006

POGO PRODUCING COMPANY



STATE "19" #3 Located at 1980' FSL and 2100' FEL Section 19, Township 20 South, Range 27 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:	6379AA - KJG CD#1
Survey Date:	03-20-2006
Scale: 1" = 2	MILES
Date: 03-21-	-2006

POGO PRODUCING COMPANY

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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 ± until the completion of the subject well at ± 10,765 FT 500 FT.

POGO PRODUCING COMPANY

STATE "19" # 3 UNIT " J" SECTION 19 T20S-27E EDDY CO. NM

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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	NUMBERS:		
State Police: State Police:	Eddy County Lea County		505 748 9718 505 392 5588
Sheriff Sheriff	Eddy County Lea County		505 746 2701
Emergency Medical Ser (Ambulance)	Eddy County Lea County	Eunice	911 or 505 746 2701 911 or 505 394 3258
Emergency Response	Eddy County SERC Lea County		505 476 9620
Artesia Police Dept Artesia Fire Dept			505 746 5001 505 746 5001

POGO PRODUCING COMPANY

STATE "19" # 3

UNIT " J" SECTION 19 T20S-27E EDDY CO. NM

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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

POGO PRODUCING COMPANY STATE "19" # 3 UNIT " J" SECTION 19

T20S-27E EDDY CO. NM

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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.

POGO PRODUCING COMPANY STATE "19" # 3 UNIT " J" SECTION 19

T20S-27E EDDY CO. NM

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

- > 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 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

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

- 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.

POGO PRODUCING COMPANY

STATE "19" # 3 UNIT " J" SECTION 19 T20S-27E EDDY CO, NM

HYDROGEN SULFIDE CONTINGENCY PLAN FOR DRILLING/WORKOVER/FACILITY

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
<u></u>					
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

Lethal

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.