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 Resources

March 4, 2004 bmit to appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

well, an OCD pit permit must be obtained prior to pit construction.

☐ AMENDED REPORT

Form C-101

APP	LICAT me and Add	ress POGO	PRODUCI	NG CO	RILI 1PANY	<u>., RE-ENT</u> ?	ER, D	<u>EEPEi</u>	N, PLUGBA ² OGRID Number	CK, O 1789		D A ZON	E
			BOX 103		702-7	7340			API Number		220	277	
Property	—	³ Property					[30- 0]	S-	<u> 338</u>	125			
Code 1	7565		Name	ARROU								16	
	·				⁷ Sı	urface Loca	ation						
UL or lot no. L	Section 15	Township 24 S	29 E	Lot	l	Feet from the 1980	sou		Feet from the 330	WEST	est line	County EDDY.	,
 			⁸ Proposed	Botton	Hole	Location	f Diffe	rent Fr	om Surface	,			
UL or lot no.	Section 15	Township 24 S	Range 29 E	Lot	ldn	Feet from the 1980 *	SIU		Feet from the 2310*	East/We WEST		EDDY	,
*Proposed Poor PIERCE	CROSS	ING-BON	E SPRING	EAST	(964	73)	"Prop	osed Pool 2	2				
			Dr	illing P	it Loc	ation and C	ther Ir	format	ion				
UL or lot no.	Section 15	Township 24 S	Range 29 E	Lot	ldn	Feet from the 1980		South line UTH	Feet from the 330 *	East/We WEST		EDDY (čo.
Depth to ground water	18'	<u> </u>	2 C	Distance fresh wa	from near ter well	est 1 mile	-! !	111-	Distance from neares surface water	800'	Peco	os River	
" Work Type C N	ode	12 Wel	l Type Code O		"Cable	e/Rotary RY		14 Lease 1	Type Code	15 C	oround Le 2926	vel Elevation	
¹⁸ Multiple	NO	l' Prog TVD	8200, MD	9500'	^{1*} Form BON	nation Contracto NE SPRING CAPSTA							
			21	Propos	ed Ca	ising and C	ement	Progran	m				
Hole S	izc	Casi	ng Size		weight	ĺ	Setting D		Sacks of Co	ment		Estimated TO	ε
25"		20 ^{tt}		Conductor		or	40'		Redi-mix		surface		
1	7½"	13 3	/8"	48#			750'50				Sur	face	
11"		8 5	/8".	32 & 24#		2	2900'		1000 Sx.		1	face	
7	7/8"	5½"		17#		950	9500' MD		1500 Sx.		200	00'± FS	
Describe the b	e proposed dowout prev	program. If the contion program	this application is am, if any. Use :	to DEEPE additional s	N or PL heets if r	UG BACK, give necessary.	the data	on the pres	ent productive zone	and propo	osed new	productive zon	_!
			2	SEE AT	TACHI	ED SHEET	_/					DEC 2	8 2004
²³ I hereby cer	tify that the	information s	ziven above is tn	e and com	plete to t	he best	b				·	BEB-AI	TESIA
of my knowled	dge and beli	cf. I further	certify that the	drilling pi	t will be	1/1/2	/	OIL C	ONSERVAT	ION D	IVIS	ION	
an (attached)				general pe	rmit 🗀		oved by:						!
Signature	do.	e T. (/ Leer	ui					TEIRA	w.c	21 1RA		
Printed name Joe T. Janica						Title:			DISTRICT			VISOR	
Title:	Age	1/	· .2-1-2				oval Date:	1471		xpiration E			0 5 2006
E-mail Addres								JAN	V V 2003			O) si v	_
Date: 12/2	27/04		Phone: 505-	301_0	503	Cond	itions of A	pproval:		-			
			JUJ.	- 3 3 1 - 0		1	hed_		If eart	hen pi	ts ar	e used is	ı
									associa well. a	ation w	vith t	he drillin	g of this

- 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.

 2. Drill 17½" hole to 50'. Run and set 500' of 13 3/8" 48# H-40 ST&C casing. Cement with 650 Sx. of Class "C" cement + ½# Flocele/Sx. and 2%CaCl, circulate cement to surface.
- 3. Drill 11" hole to 2900'. Run and set_2900' of 8 5/8" casing as follows: 700' of 8 5/8" 32# J-55 ST&C, 1200' of 8 5/8" 24# J-55 ST&C, 1000' of 8 5/8" 32# J-55 ST&C casing. Cement with 1000 Sx. of Class "C" + additives, circulate cement to surface.
- 4. Drill 7 7/8" hole to 8200'. Run Gyro, and open hole logs. Plug back for kick off point at 7250'. Drill curve and lateral to BOTTOM HOLE LOCATION to a measured depth of 9500'±. BHL 1980' FSL & 2310' FWL SECTION 15. Run and set $5\frac{1}{2}$ " casing as follows: 2500'± of $5\frac{1}{2}$ " 17# N-80 BTC, 7000' of $5\frac{1}{2}$ " 17# N-80 LT&C. Cement with 1500 Sx. of Class "C" cement + additives, estimate top of cement 2000' From Surface.
- 1. Drill surface hole to 50' with fresh water Spud mud.
- 2. Drill intermediate hole with Brine water to 2900'.
- 3. Drill production hole with fresh water base mud use paper to control seepage, and high viscosity sweeps to clean hole.

State of New Mexico

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

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUR, ARTESIA, NM 68210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 96473				
Property Code 17565	Н				
OGRID No. 17891	POGO PR	Operator Name ODUCING COMPANY	Elevation 2926'		

Surface Location

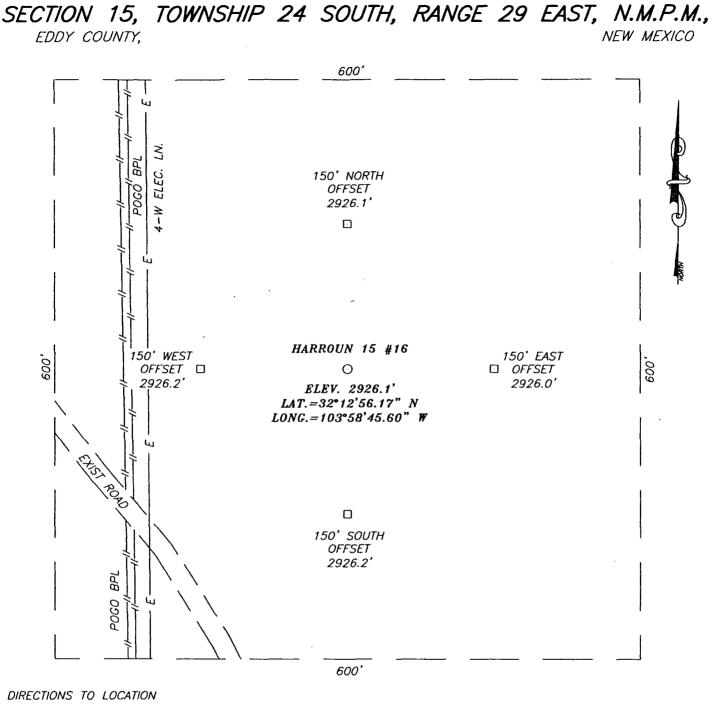
UL o	r lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
	L	15	24-S	29-E	,	1980	SOUTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

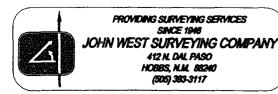
	UL or lot No.	Section	Townsh	ip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	K	15	24-	-s	29-E		1980	SOUTH	2310	WEST	EDDY
Ī	Dedicated Acres	a Joint o	r Infili	Cor	solidation (Code Or	der No.				
	80										

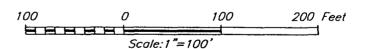
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES NAD 27 NME SURF. Y=442335.7 N X=609480.7 E LAT.=32*12'56.17" N	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
LAT.=32 12 56.17 N LONG.=103'58'45.60" W	Joe T Janica Printed Name Agent Title 12/27/04 Date SURVEYOR CERTIFICATION
330' GR. AZ.=90'01'32" B.H. Y=442335.3 N X=611460.7 E	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. DECEMBER 2, 2004 Date Surveyed JR Signature & Semi of
1980,	Professional Surveyor Professional Surveyor 04.11.1582 Certificate No. GARY EIDSON 12841



FROM THE INTERSECTION CO. RD. #745 (HARROUN RD.) AND CO. RD. #788 (DOG TOWN RD.) GO SE ON CO. RD. #788 FOR APPROX. 1.3 MILES TO A ROAD ON THE LEFT. TURN LEFT (EAST) AND FOLLOW MEANDERING ROAD E/SE FOR APPROX. 2.1 MILES TO A "Y". TAKE RIGHT FORK AND GO SE FOR APPROX. 0.2 MILES TO A "Y". TAKE RIGHT FORK AND FOLLOW ROAD FOR APPROX. 0.6 MILES. PROPOSED LOCATION IS APPROX. 300 EAST.





POGO PRODUCING COMPANY

HARROUN 15 #16 WELL

LOCATED 1980 FEET FROM THE SOUTH LINE

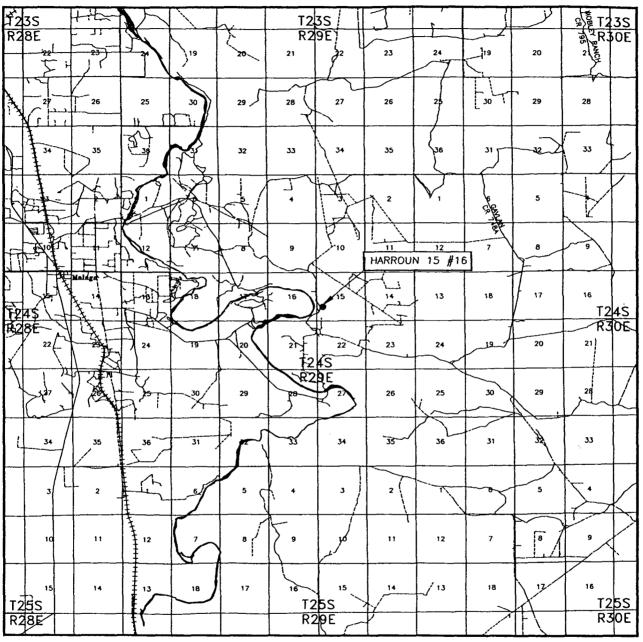
AND 330 FEET FROM THE WEST LINE OF SECTION 15,

TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.,

EDDY COUNTY, NEW MEXICO.

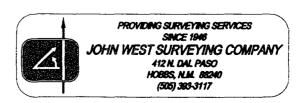
Survey Date: 1.	2/2/04	9	Sheet	1	of	1	Sheets
W.O. Number: 04.	11.1582	Dr E	3y: J.R.		Re	v 1:	N/A
Date: 12/7/04	Disk: CD;	#10	041	11582		Scale	e:1"=100°

VICINITY MAP



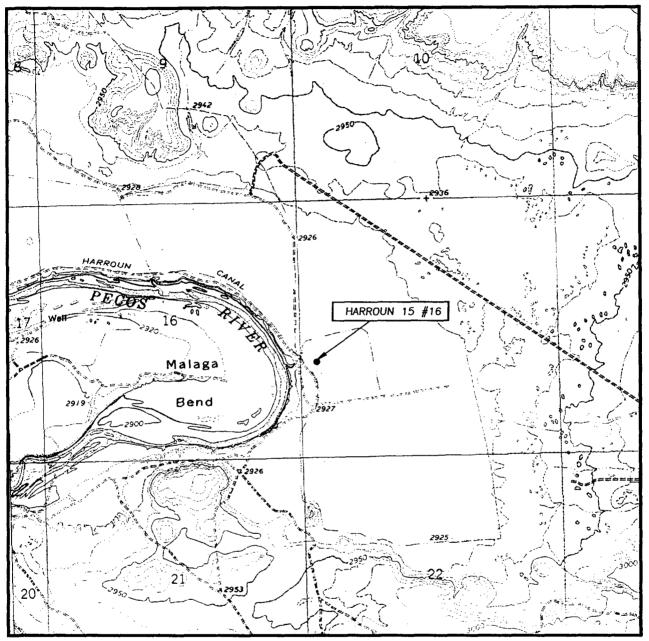
SCALE: 1" = 2 MILES

SEC. <u>15</u> T	WP. <u>24-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1980' FSL & 330' FWL
ELEVATION	2926'
OPERATOR	POGO PRODUCING COMPANY
IFACE	HARROUN 15





LOCATION VERIFICATION MAP



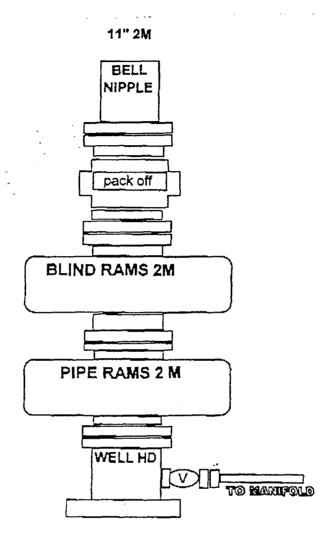
SCALE: 1" = 2000'

CONTOUR INTERVAL: PIERCE CANYON, N.M. - 10'

SEC. <u>15</u> T	WP. <u>24-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1980' FSL & 330' FWL
	2926'
	POGO PRODUCING COMPANY
_	HARROUN 15
	POGRAPHIC MAP

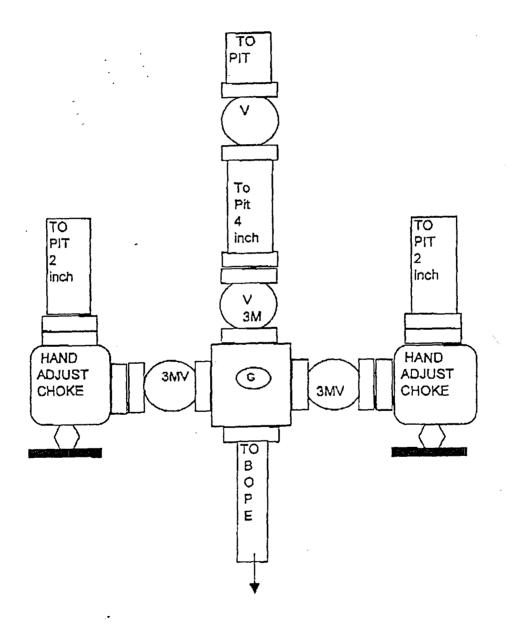


PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



CHOKE MANIFOLD

3000 PSI WP



AFE HARROUN 15 bone Hortzontal.xis

NAMOUN 15 16

MITCHELL ENGINEERING PROGRAMS

COPYRIGHT 1890 MITCHELL ENGINEEPING, PO BOX 1492, GOLDEN, CO, 80402, USA (308) 273 3744

LONG'S METHOD OF SURVEY COMPUTATION

OBLI	QUE CIRCUI	LAR ARC	INTERF	POLATION			DISTANCE	TABLE
[0	MDOF	*TERPOLA	TION DEPTH.	STATION A	STATION B		
I	#N/A	TVDCCC	POINATE	OF THE DEPT				
Ī	ANVA	N/S COO	RDINATE (OF DEPTH (fee	a			
- 1	#N/A			OF DEPTH (fee	•			
L		J - ,		•	MEEN STATION A	AND STATION B	0.00	it
TABL	E OF SURV	EY STAT	IONS				Calculator =	
STA	OMΔ	INCL	AZIM	MD	170	N+/S-	E+AV-	DLS
	8	deg	dec				1	deg/190FT
1	TIE POINT ≈	0	8	7253.00	7253.00	0.00	0.00	-
2	190	. 12	0	7353.00	7352.27	10.43	0.90	12.00
3	100	24	0	7453.00	-7447.20	41.28	0.00	12.00
4	100	36	0	7553.00	7533.65	91.19	0.00	12.00
5	100	46	0	7653.00	7607.83	157.98	0.00	12.00
6	100	60	0	7753.00	7666.50	238.73	0.00	12.00
7	100	72	0	7853.00	7707.10	329.92	0.00	12.00
8	190	84	0	7953.00	7727.85	427.56	0.00	12.00
9	50	90	0	8003.00	7730.46	477.46	0.00	12.00
10	100	90	8	8103.00	7730.46	577.46	0.00	0.00
11	100	90	8	8203.00	7730.46	677.46	0.00	0.00
12	100	90	0	8303.00	7730.46	777.46	0.00	0.00
13	100	90	0	8403.00	7730.46	877.46	0.00	0.00
14	100	98	G	8503.90	7730.46	977.46	0.00	0.00
15	100	90	0	8603.00	7730.46	1077.46	0.00	0.00
16	100	90	8	8703.00	7730.46	1177.46	0.00	0.00
17	100	90	0	8803.00	7730.46	1277.48	0.00	0.00
18	100	90	O.	8903.00	7730.46	1377.46	0.00	0.00
19	100	90	0	9003.00	7738.46	1477.45	0.00	0.00
20	100	90	0	9103.00	7730,46	1577.46	0.00	0.00
21	100	90	0	9203.00	7730.46	1677.46	0.00	0.00
22	100	90	0	9303.00	7730.46	1777,46	9.00	0.00
23	100	90	0	9493.00	7730.46	1877.46	0.00	0.00
24	102	90	ð	9505.00	7730.46	1979.46	0.00	0.00
25								
26						<u> </u>		
27								
28								
29								
30								
31								

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

APPLICABILITY:

The provisions of this plan are effective when drilling operations are conducted in areas where zones may be penetrated that are known to contain, or may be reasonably expected to contain, hydrogen sulfide gas in concentrations of 100 parts per million or more.

TRAINING REQUIREMENTS:

- A. When conducting drilling operations in an area where hydrogen sulfide gas might be encountered, all personnel at the well site will have had proper training in the following areas:
 - 1. The hazards and characteristics of hydrogen sulfide gas (H2S).
 - 2. Toxicity of hydrogen sulfide and sulfur dioxide.
 - 3. Hydrogen sulfide gas detectors, warning systems, evacuation procedures, and proper use and maintenance of personal protective equipment.
 - 4. Proper rescue procedures, first aid, and artificial respiration.
- B. In addition, supervisory personnel will be trained in the following areas:
 - 1. The effects of hydrogen sulfide on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
 - 2. Corrective action and shut-in procedures when drilling or reworking a well, and blowout prevention and well control procedures.
 - 3. The contents and requirements of the Hydrogen Sulfide Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable hydrogen sulfide zone (within 3 days or 500 feet) and weekly hydrogen sulfide and well control drills for all personnel in each crew. The initial training session will include a review of the site specific Hydrogen Sulfide Drilling Operations Plan and the Public Protection Plan. This plan will be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

A. Attached is a detailed well site diagram showing:

- Drilling rig orientation
- Prevailing wind direction (Southwest)
- Location of briefing areas
- Location of Caution/Danger Signs
- Location of hydrogen sulfide monitors
- Location of wind direction Indicators

HYDROGEN SULFIDE SAFETY EQUIPMENT:

- A. All safety equipment and systems will be installed, tested and deemed operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone reasonably expected to contain hydrogen sulfide.
- B. During drilling operations, a flare line will be routed from the BOP manifold to the reserve pit. Should suspected sour gas be vented through the flair line, a flare pistol will be used to ignite the flare.
- C. Protective equipment for essential personnel will be installed and maintained as follows:
 - 1. 30-minute air packs will be maintained on the rig floor and near the briefing area.
 - 2. 30-minute work units will be maintained at the H2S trailer and/or on the rig floor.
 - 3. 30-minute escape units will be maintained on the rig floor.
 - 4. 300 cu. ft. air cylinders will be maintained in the H2S trailer.
 - 5. Associated breathing air equipment will also be installed and maintained.
 - 6. Hydrogen sulfide monitor will be located in the doghouse on the rig floor with sensors placed on the rig floor, at the bell nipple, the shale shaker, and in the pit area.
 - 7. An audible/visual alarm will be located near the doghouse on the rig floor.

VISUAL WARNING SYSTEMS:

- A. High visibility Caution/Danger signs will be posted on roads providing direct access to the well location.
- B. Green, yellow, and red condition flags to be displayed to denote Normal Conditions, Potential Danger, and Danger, H2S Present.
- C. Wind socks to be located at the protection center and in the pit area to continuously indicate wind direction.

CIRCULATING MEDIUM:

A. Drilling fluid to be conditioned to minimize the volume of H2S circulated to the surface.

SPECIAL WELL CONTROL EQUIPMENT:

A. In addition to the normal BOP stack and choke manifold, a drilling head will be used to help control and H2S contaminated drilling.

WELL TESTING:

A. Drill stem testing of zones known, or reasonably expected, to contain hydrogen sulfide in concentrations of 100 pps or more will use the closed chamber method of testing.

COMMUNICATION:

A. Radio communication will be available at the drilling rig and also in company vehicles.

ADDITIONAL INFORMATION:

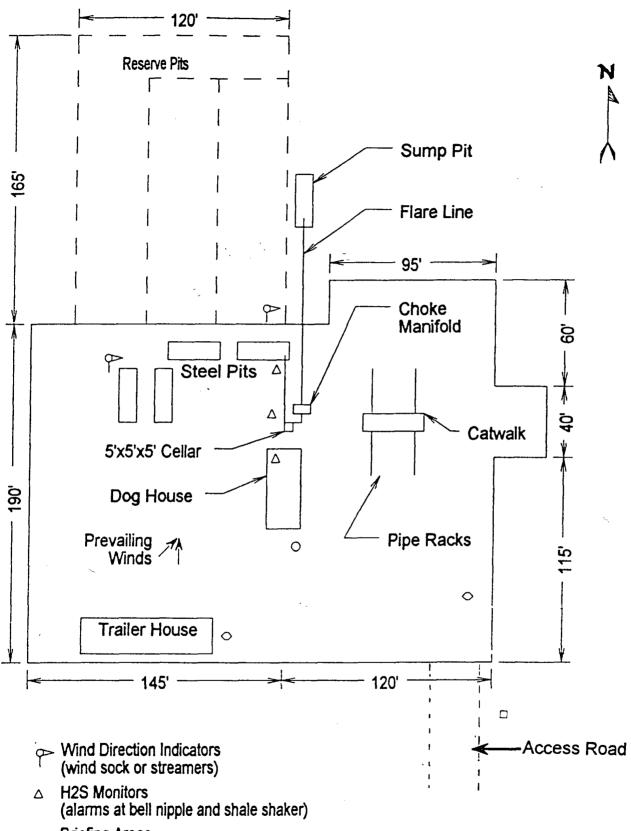
A. Additional information concerning Emergency Reaction Steps, Ignition Procedures, Training Requirements, and Emergency Equipment Requirements will be available on location at the well site.

Pogo Producing Company

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	UMBERS:		
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			505 746 5001



- Briefing Areas
- O Remote BOP Closing Unit
- □ Sign and Condition Flags