

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

Energy Minerals and Natural Resources

Form C-101  
March 4, 2004

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

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7340		OGRID Number 17891	
Property Code 34230		Property Name LAKE WOOD "15"	
JAN 04 2005		Well No. 2	

RECEIVED

API Number  
30 - 015 - 33839

Surface Location

UL or lot no. J	Section 15	Township 19S	Range 26E	Lot Idn	Feet from the 1980'	North/South line SOUTH	Feet from the 1980'	East/West line EAST	County EDDY
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Proposed 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
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Proposed Pool 1 <del>UNDEVELOPED FOUR MILE DEAN CISCO</del>	Proposed Pool 2
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Wildcat; Upper Penn Drilling Pit Location and Other Information

UL or lot no. J	Section 15	Township 19S	Range 26E	Lot Idn	Feet from the 1980'	North/South line SOUTH	Feet from the 1980'	East/West line EAST	County EDDY
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Depth to ground water 70' Avg.	Distance from nearest fresh water well 1700'	Distance from nearest surface water Lake Mc Miian approximately 2.5 miles East
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Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code P	Ground Level Elevation 3319'
Multiple NO	Proposed Depth 8000'	Formation CISCO	Contractor UNKNOWN	Spud Date WHEN APPROVED

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
25"	20"	NA	40'	Redi-mix	SURFACE
17 1/2"	13 3/8"	48	500'	550 Sx.	SURFACE
11"	8 5/8"	32	1700' / 1050'	600 Sx.	SURFACE
7 7/8"	5 1/2"	17	8000'	1000 Sx.	1000' FROM SURFACE

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED SHEET

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Signature: *Joe T. Janica*  
Printed name: Joe T. Janica  
Title: Agent  
E-mail Address:

Date: 01/03/05  
Phone: 505-391-8503

OIL CONSERVATION DIVISION  
Approved by: *Tim W. Gum*  
Title: DISTRICT II SUPERVISOR  
Approval Date: JAN 05 2005  
Expiration Date: JAN 05 2006

Conditions of Approval:  
Attached ☐  
NOTIFY OCD OF SPUD & TIME TO WITNESS CEMENTING OF SURFACE & INTERMEDIATE CASING

POGO PRODUCING COMPANY  
LAKE WOOD "15" # 2  
UNIT "J" SECTION 15  
T19S-R26E EDDY CO. NM

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 500'. Run and set 500' of 13 3/8" 48# H-40 ST&C casing. Cement with 550 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. circulate cement to surface.
3. Drill 11" hole to 1200'. Run and set 1200' of 8 5/8" 32# J-55 ST&C casing. Cement with 600 Sx. of Class "C" cement + additives, circulate cement to surface.
4. Drill 7 7/8" hole to 8000'. Run and set 8000' of 5½" 17# L-80 LT&C casing. Cement with 1000 Sx. of Class "H" Premium Plus cement + additives, estimate top of cement 1000' from surface.

PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-500'	8.4-8.7	29-30	NC	Fresh water Spud mud add paper to control seepage.
500-1200'	8.4-8.7	30-34	Nc	Fresh water mud add Fresh Gel if viscosity is needed to clean hole.
1200-8000'	8.4-8.7	30-38	NC*	Fresh water mud system use high viscosity sweeps to clean hole. If water loss control is needed go to a Polymer system.

\* Water loss control may be required to protect formation from damage, run open hole logs, run DST's, core and run casing.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing viscosity and/or water loss may have to be adjusted to meet these needs.

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

DISTRICT II  
811 South First, Artesia, NM 88210

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

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

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
		UNDES. FOUR MILE DRAW-CISCO
Property Code	Property Name	Well Number
34230	LAKEWOOD "15"	2
OGRID No.	Operator Name	Elevation
17891	POGO PRODUCING COMPANY	3319'

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	15	19 S	26 E		1980	SOUTH	1980	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	Consolidation Code	Order No.
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

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Joe T. Janica</i> Signature</p> <p>Joe T. Janica Printed Name</p> <p>Agent Title</p> <p>01/02/05 Date</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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 supervision, and that the same is true and correct to the best of my belief.</p> <p>DECEMBER 30, 2004 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature &amp; Seal of Professional Surveyor</p> <p>W.C. No. 4969 Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>

SECTION 15, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.

150' NORTH  
OFF SET  
3321.1'

POGO PRODUCING COMPANY  
LAKEWOOD "15" #2  
ELEV. - 3319'

150' WEST  
OFF SET  
3320.1'

Lat.-N 32°39'30.8"  
Long-W 104°22'07.7"

150' EAST  
OFF SET  
3318.6'

150' SOUTH  
OFF SET  
3317.5'

Proposed Lease Rd. 502'

CO. RD. 36



SCALE: 1" = 100'

Directions to Location:

FROM ARTESIA, GO SOUTH ON US HWY 285 FOR 11.8 MILE TO CO. RD. 35; THENCE EAST ON CO. RD. 35 FOR 1.4 MILE TO CO. RD. 34; THENCE SOUTH ON CO. RD. 34 FOR 0.1 MILE TO CO. RD. 36; THENCE EAST ON CO. RD. 36 FOR 0.1 MILE TO PROPOSED LEASE ROAD.

**POGO PRODUCING CO.**

REF: LAKEWOOD "15" #2 / Well Pad Topo

THE LAKEWOOD "15" No. 2 LOCATED 1980' FROM THE SOUTH LINE AND 1980' FROM THE EAST LINE OF SECTION 15, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 4969

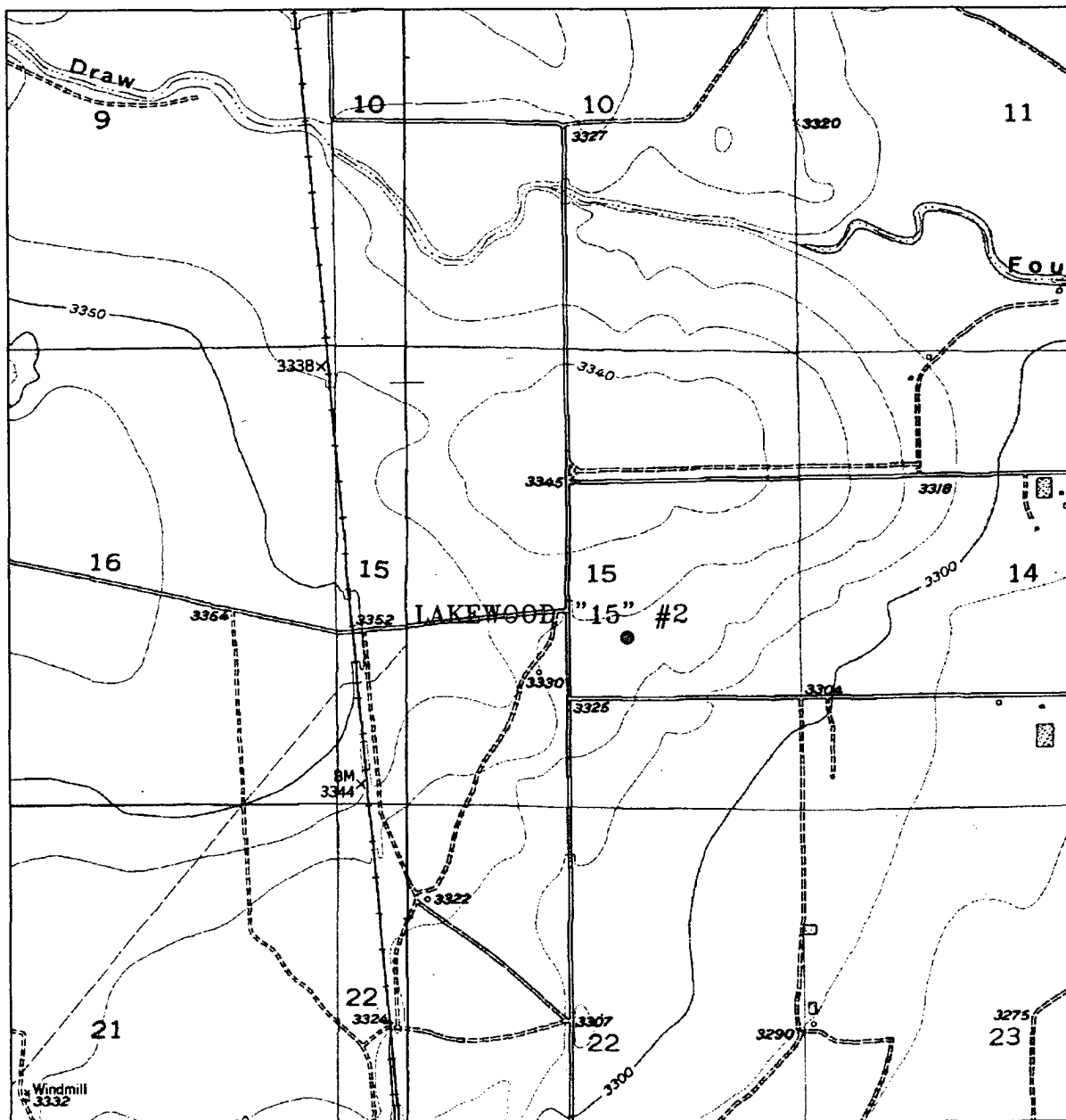
Drawn By: K. GOAD

Date: 12-31-2004

Disk: KJG CD#4 - 4969A.DWG

Survey Date: 12-30-2004

Sheet 1 of 1 Sheets



## LAKEWOOD "15" #2

Located at 1980' FSL and 1980' FEL  
Section 15, Township 19 South, Range 26 East,  
N.M.P.M., Eddy County, New Mexico.

**basin  
surveys**  
focused on excellence  
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

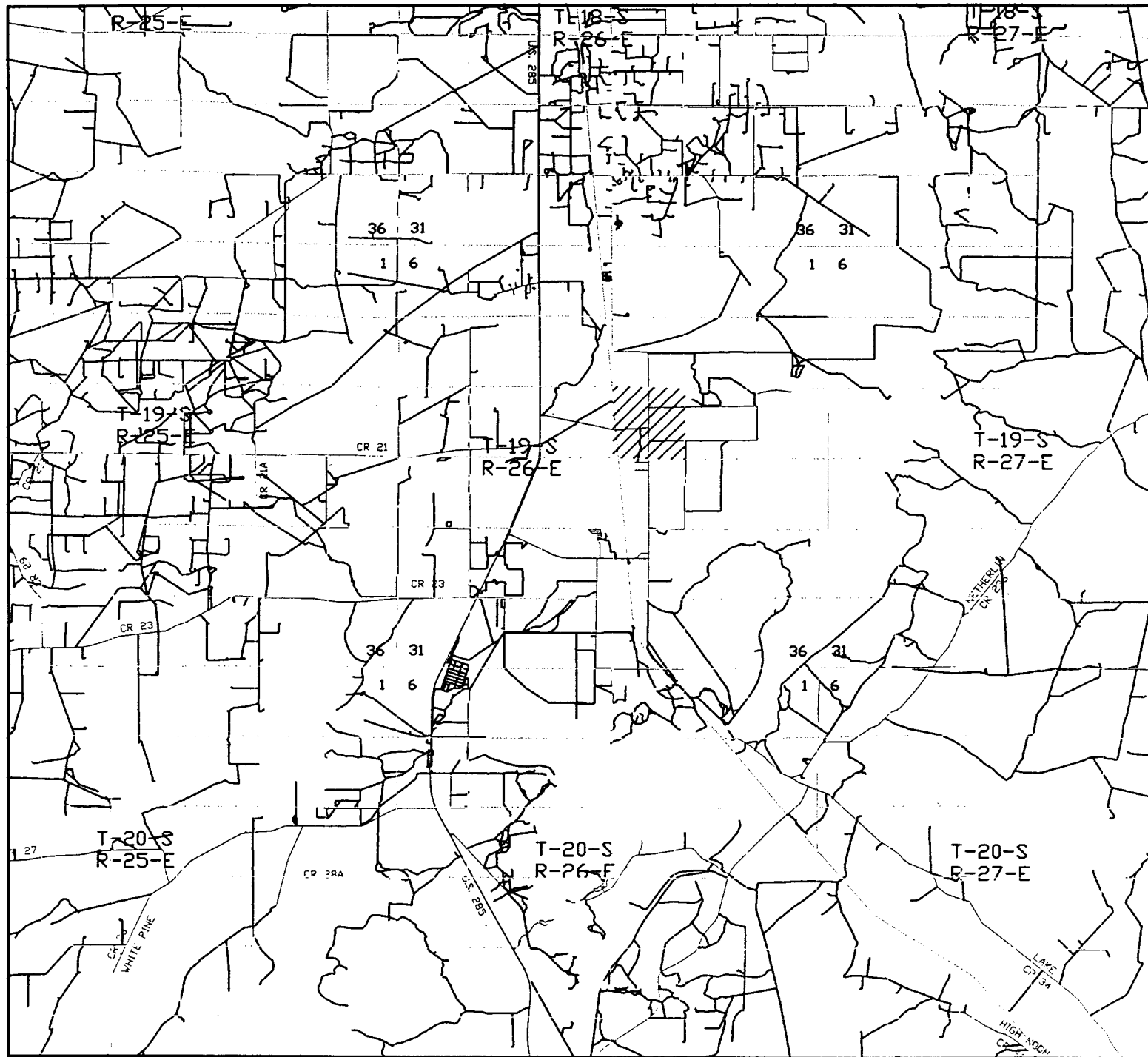
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Survey Date: 12-30-2004

Scale: 1" = 2000'

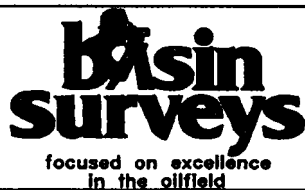
Date: 12-31-2004

**POGO  
PRODUCING  
COMPANY**



## LAKEWOOD "15" #2

Located at 1980' FSL and 1980' FEL  
Section 15, 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: 4969AA - KJG CD#5

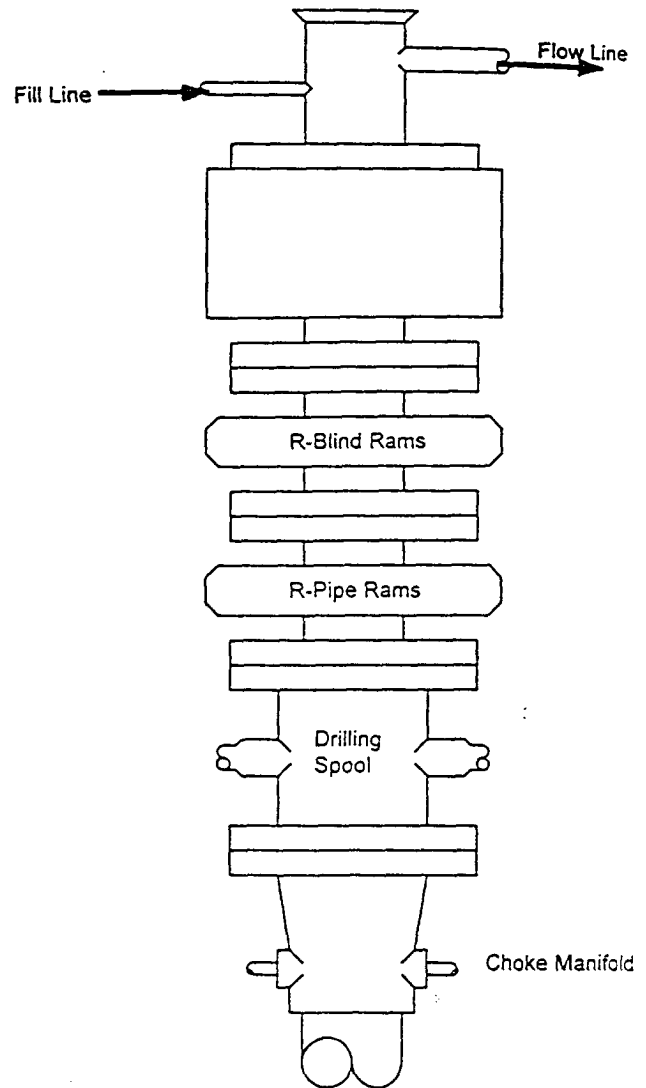
Survey Date: 12-30-2004

Scale: 1" = 2 MILES

Date: 12-31-2004

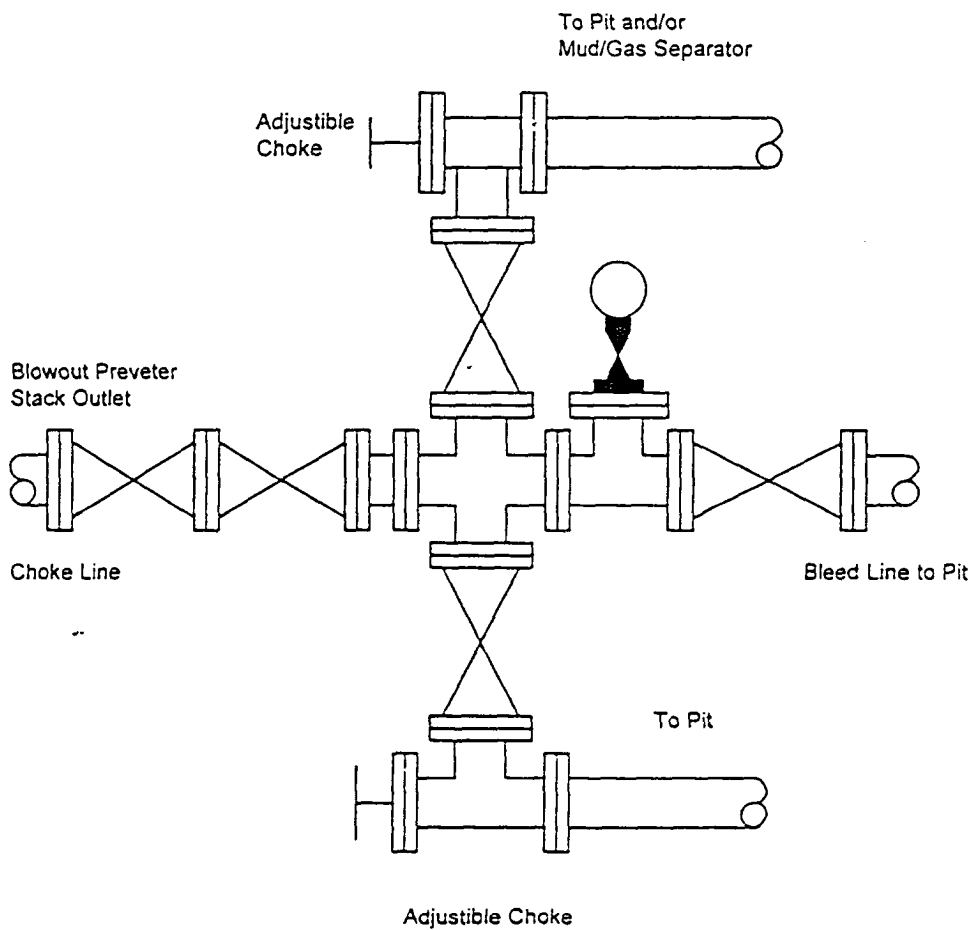
POGO  
PRODUCING  
COMPANY

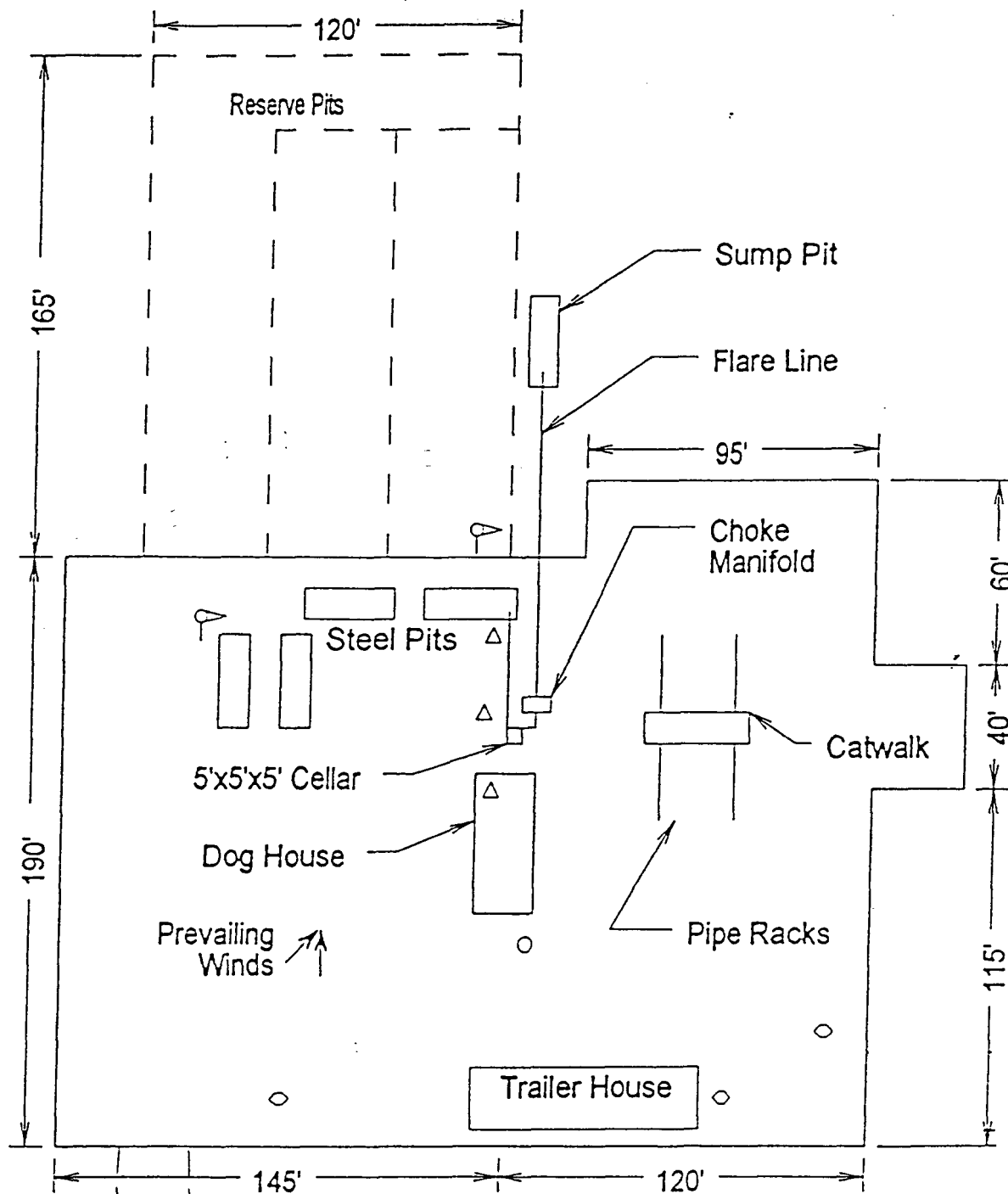
# BLOWOUT PREVENTER SYSTEM








Type 900 Series  
3000 psi WP

Choke Manifold Assembly for 3M WP System





-  Wind Direction Indicators  
(wind sock or streamers)
-  H2S Monitors  
(alarms at bell nipple and shale shaker)
-  Briefing Areas
-  Remote BOP Closing Unit
-  Sign and Condition Flags



# Pogo Producing Company

According to information received from The Bureau of Land Management Roswell Field Office there is no known presence of H<sub>2</sub>S in the vicinity of this location.

If at this time the supervising person determines the release of H<sub>2</sub>S 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 NUMBERS:

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 (Ambulance)	Eddy County		911 or 505 746 2701
	Lea County	Eunice	911 or 505 394 3258
Emergency Response	Eddy County SERC		505 476 9620
	Lea County		
Artesia Police Dept			505 746 5001

# 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 (H<sub>2</sub>S).
  - 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 flare 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, H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S 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.