#### THE IS THE CALLES COME TO SUBMITE THE PARTY OF THE PARTY 1625 N. T.

FORM APPROVED

	DEPARTME	NT OF THE	ES. INTERIOR	everse sign,	Tapues: rebi	1004-0136 Flary 28, 1995	
	BUREAU	OF LAND MANA	AGEMENT		5. LEASE DESIGNATION NM-90587	N AND BERIAL NO.	
APP	LICATION FOR	PERMIT TO	DRILL OR DEEP	PEN	6. IF INDIAN, ALLOT	ER OR TRIBE NAME	
b. TYPE OF WELL	ORILL 🛆	DEEPEN			7. UNIT AGREEMENT	NAME	
OIL KX WELL 2. NAME OF OPERATOR	WELL OTHER			MCLTIPLE ZONE	S. FARM OR LEASE NAME W	ELL NO	
POGO PRODUCI		(RICHARI	O WRIGHT 915-685-	-8140)	8. FARM OR LEASE NAME W LIVINGSTON RI Federal # 4	DGE "19"	
P.O. BOX 103	340 MIDLAND, TE	XAS 79702-73	340 (915–695–810	00)	372025 a	36030	
At surface	(Report location clearly a	nd in accordance w	ith any State requirements.	•)	LIVINGSTON RID	GE-DELAWARE	
At proposed prod. z	330' FWL SEC. I	19 T22S-R32I	E LEA CO. NM	1	11. SEC., T., R., M., OR AND SURVEY OR A	BLK. REA	
4. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OF POS	T OFFICE.		Section 19 T		
D. DISTANCE FROM PRO:	y 20 miles East	of Carlsbad	New Mexico.		12. COUNTY OF PARISH LEA CO.	NEW MEXICO	
LOCATION TO NEARE PROPERTY OR LEASE (Also to Dearest dr	LINE, FT.	330 <b>'</b>	16. NO. OF ACRES IN LEA.	1 - 11 11 01	F ACRES ASSIGNED IS WELL 40		
S. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WILL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  1800*			19. PHOPOSED DEPTH 8700	i _	ROTARY OR CABLE TOOLS		
	nether DF, RT, GR, etc.)	3588' G	מי	Mad Water De	22. APPROL DATE WOS	EE WILL STARTS	
		PROPOSED CASE	NG AND CEMENTING PRO		MILK ALLKOV	ED	
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FO	OT SETTING DEPTH		QUANTITY OF CEMENS		
25"	Conductor	NA	40'	Cement	to surface wit		
17½"	H-40 13 3/8"	48	800'		circulate cem		
	J-55 8 5/8''	32	4400'	1500 Sx			
7 7/8"	J-55 5½"	17 & 15.5	8700'	1650 Sx	. 11 17	11 11	
1. Drill 25"	hole to 40'. Se	t 40' of 20"	conductor and co	ement to su	rface with Dod		
2. Drill 17½'	' hole to 800'. ]	Run and set	800' of 13 3/8" 4	/ Q # TT // O CT			
3. Drill II"	hole to 4400'. ]	Run and set .	4400' of 8 5/8" 3	22# T 55 cm		ent with	
4. Drill 7 7/	8" hole to 8700	. Run and se	et $8700'$ of $5\frac{1}{2}$ " of	casing as for	ollows: 2500' d	of 5½" 17#	

- LT&C, 5200' of  $5\frac{1}{2}$ " 15.5# J-55 LT&C, 1000' of  $5\frac{1}{2}$ " 17# J\_55 LT&C casing. Cement in 3 stages. DV tools at 6100' & 3700'±. Cement 1st stage with  $650~\mathrm{Sx}$ . of Class "H" cement + additives, 2nd stage cement with 600 Sx. of Class "C" cement + additives, cement 3rd stage with 400 Sx. of Class "C" + additives circulate cement to surface.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal per directionally give partinent data on subsurface locations and one	is to deepen, give BEECHAIN STIPULA	There are productive zone. If proposal is to drill or
ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal pen directionally, give purinent data on subsurface locations and me		office program, if any.
(This spure for Federal or State office use)	A TITLE Agent	09/18/02
Plant No.		OPER. OGRID NO. <u>17891</u> PROPERTY NO. <u>306/6</u>
Application approval does not warrant or certify that the applicant hold	ds legal or equitable title to those rights in the subject l	POOL CODE <u>39360</u> —— 'EFF. DATE //-/8-03-x1 below.
CONDITIONS OF APPROVAL IF ANY:	. 17	APINO 30-025-34030

\*See Instructions On Reverse Side

/S/ JOE G. LARA

APPROVAL FOR 1 YEAR

\_ DATE \_

#### DISTRICT I P.O. Box 1980, Hobbs, NW 88241-1980

#### State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

DISTRICT IV

DISTRICT III

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

30-025-36030	Pool Code 39360	1001 Name		
Property Code 306/6		perty Name RIDGE 19 FEDERAL	Well Number 4	
17001		rator Name CING COMPANY	<sup>2987</sup> ,	

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	19	22-S	32-E		660'	SOUTH	330'	WEST	LEA

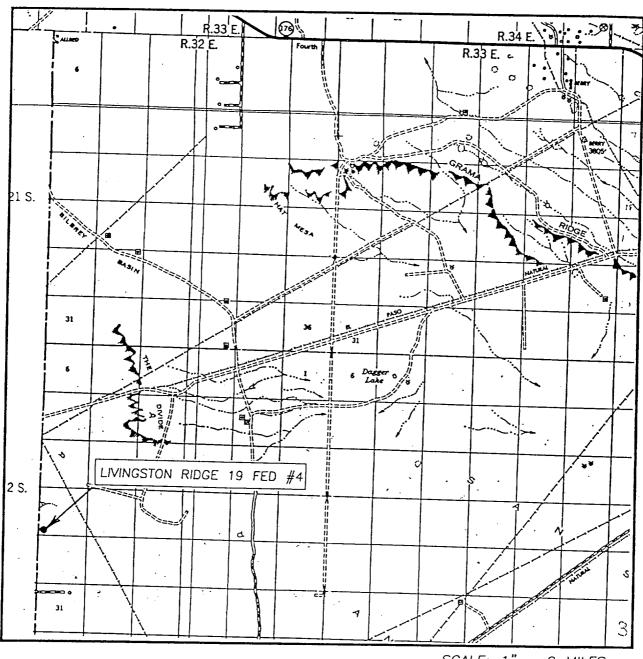
### Bottom Hole Location If Different From Surface

·	<del> </del>								
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 o	r Infill Co	 nsolidation	Code Ore	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

		THE UNIVERSE PRODUCTION OF THE CASE	
LOT 1			OPERATOR CERTIFICATION
		l	I hereby certify the the information contained herein is true and complete to the
			best of my knowledge and belief.
44.70.40		i .	Cost Janese
44.70 AC LOT 2			Joe T. Janica
	1	1	Printed Name
			Agent
			09/18/02 Date
44.75 AC			SURVEYOR CERTIFICATION
1	1	i	I hereby certify that the well location shown on this plat was plotted from field notes of
	DETAIL 3587.3',3589.0'		actual surveys made by me or under my supervison, and that the same is true and
		1	correct to the best of my belief.
	3588.4' 3590.3'		Date Surveyed 1 (7) A.W.B.
44.79 AC LOT 4	<del> </del>		Date Surveyed A.W.B.  Signature & Seal of Surveyor.  Professional Surveyor.
SEE DETAIL			TO SOLO
330'	3	1	Mariel 3 Julson 9/06/02
	Ì		Certificate No. RONALD J. FIDSON 3239
144.84 AC			THE PROPERTY ETISON 12841

# VICINITY MAP



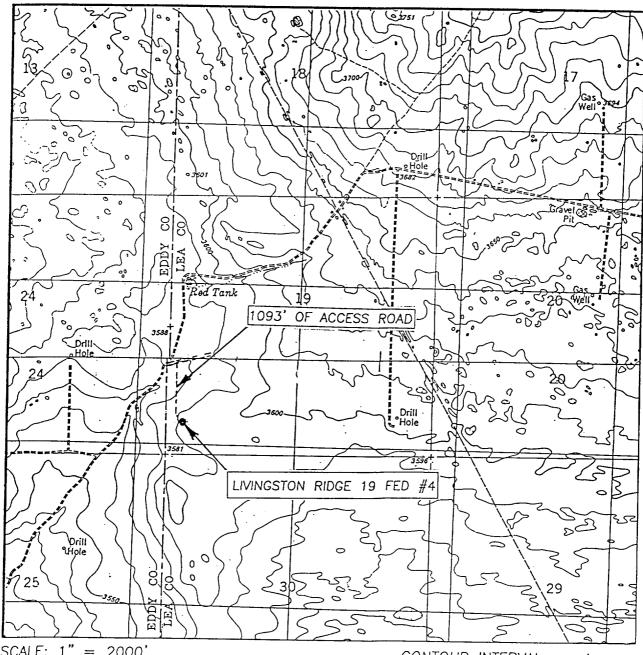
SCALE: 1" = 2 MILES

SEC. <u>19</u> TWP. <u>22-S</u> RGE. <u>32-E</u>
SURVEY N.M.P.M.
COUNTYLEA
DESCRIPTION 660' FSL & 330' FWL
ELEVATION 3588'
OPERATOR POGO PRODUCING COMPAN
LEASE LIVINGSTON RIDGE 19 FEDERAL

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: BOOTLEG RIDGE, N.M. THE DIVIDE, N.M.

SEC. 19 TWP. 22-S RGE. 32-E SURVEY\_\_\_\_\_ N.M.P.M. COUNTY\_\_\_\_\_LEA DESCRIPTION 660' FSL & 330' FWL

ELEVATION\_\_\_3588'

OPERATOR POGO PRODUCING COMPANY LEASE LIVINGSTON RIDGE 19 FEDERAL U.S.G.S. TOPOGRAPHIC MAP BOOTLEG RIDGE, & THE DIVIDE, N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

#### APPLICATION TO DRILL

# POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 4 LOT # 4 SECTION 19 T22S-R32E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

- 1. <u>Location:</u> 660' FSL & 330' FWL SEC. 19 T22S-R32E LEA CO. NM
- 2. Elevation above Sea Level: 3588' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
- 5. Proposed drilling depth: 8700'

# 6. Estimated tops of geological markers:

Basal Anhydrite	4240 *	Cherry Canyon	5390'
Do1		- y - canyon	2390
Delaware Lime	4515 <b>'</b>	Brushy Canyon	6630'
Bell Canyon	15101	•	0030
Dell Canyon	4540 <b>'</b>	Bone Spring	8400'

# 7. Possible mineral bearing formations:

Delaware Lime Oil
Bone Spring Oil

### 8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25''	0-40'	20''	NA	NA	NA	Conductor
17½"	0-800'	13 3/8"	48	8-R	ST&C	H-40
11"	0-4400'	8 5/8"	32	8-R	ST&C	J-55
7 7/8''	0-8700'	5½''	17 & 15.5	8-R	LT&C	J-55

#### APPLICATION TO DRILL

# POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 4 LOT # 4 SECTION 19

T22S-R32E

LEA CO. NM

## 9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set $40'$ of $20''$ conductor and cement to surface with Redi-mix.
13 3/8	3" Surface	Set 800' of 13 $3/8$ " $48\#$ H-40 ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl,+ $\frac{1}{2}\#$ Flocele/Sx. Circulate cement to surface.
8 5/8	" Intermediate	Set $4400$ ' of 8 $5/8$ " $32\#$ J-55 ST&C casing. Cement with 1500 Sx. of Class "C" cement + additives, circulate cement to surface.
5½"	Production	Set 8700' of 5½" casing as follows: 2500' of 5½" 17# J-55 LT&C, 5200' of 5½" 15.5# J-55 LT&C, 1000' of 5½" 17# J-55 LT&C. Cement in 3 stages with DV tools at 6100' & 3700'±. Cement lst stage with 650 Sx. of Class "H" cement + additives, 2nd stage cement with 600 Sx. of Class "C" cement + additives, 3rd stage cement with 400 Sx. of Class "C" cement + additives, circulate cement to surface.
PRICCID	E COMMON MOTION	

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibited with dual adjustable chokes. No abnormal pressures or temperatures are expected.

# 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	Mod wr.	VISC.	FLUID LO	OSS TYPE MUD STSTEM
40-800'	8.5-8.6	29-34	NC	Fresh water spud mud add
800-4400'	10.0-10.3	29-36	NC	paper to control seepage.  Brine water use paper to
./.00 0700				<pre>control seepage and high viscosity sweeps to clean hole.</pre>
44C0-8700	8.5-8.7	29-38	NC	Fresh water use fresh water Gel for viscosity control use high viscosity sweeps to clean hole. If water loss control is need use a Polymer system.

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.

#### APPLICATION TO DRILL

POGO PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM

## 12. TESTING, LOGGING, & COREING PROGRAM:

- A. Open hole logs: Dual Induction, SNP, CNL, LDT, Gamma Ray, Caliper from TD to 4400'.
- B. Cased hole logs: Gamma Ray, Neutron from 4400' to surface and Collar locator log over the productive interval.
- C. Mud logger will be put on hole at 4400' and remain on hole to TD.
- D. No cores or DST's are planned at this time.

### 13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered,  $\rm H_2S$  detectors will be in place to detect any presence of unsafe levels of  $\rm H_2S$ . No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operations of all equipment that will be used. Estimated BHP 3800 PSI & estimated BHT  $165^\circ$ .

## 14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Roads and location construction will begin after the BLM approves the APD. Anticipated spud date will be as soon as pad & road construction has been completed. Drilling time for the well is estimated to take 29 days. If production casing is run an additional 30 days will be required to complete well and construct surface facilities.

## 15. OTHER FACETS OF OPERATION:

After running production casing, cased hole Gamma-Neutron & Collar logs will be run over all possible pay intervals. If commercial production from the <a href="Rone Spring">Rone Spring</a> pay is indicated it will be perforated and stimulated. Then if necessary the pay will be swab tested and completed as an oil well.

#### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- l. All Company and Contract personnel admitted on location must be trained by a qualified  ${\rm H}_2{\rm S}$  safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazzards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>S detectors, warning system and briefing areas.
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.
- 2.  $H_2S$  Detection and Alarm Systems
  - A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
  - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H<sub>2</sub>S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
  - A. See exhibit "E" & "E-1"
- 6. Communication
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
  - A. Exhausts will be watered.
  - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - C. If the location is near to a dwelling a closed DST will be performed.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If  $\rm H_2S$  is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with  $\rm H_2S$  scavengers if necessary.

POGO PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM

- 1. EXISTING ROADS: Area maps, Exhibit "B" is a reproduction of a County General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
  - A. Exhibit "A" shows the proposed well site as staked.
  - B. From Hobbs New Mexico take U.S. Hi-way 62-180 west toward Carlsbad NM, go 38 miles to CR-29 turn South go 14 miles to Mills Ranch Road turn Left (East) follow road 1.8 miles , turn Right (SOUTH) go 1100' to location.
  - C. If tank battery is not built on location flowlines will be laid along road R-O-W to an existing tank battery, see Exhibit "F".
- 2. PLANNED ACCESS ROADS: Approximately 1100' of new roadwill be constructed.
  - A. The access road will be crowned and dirched to a 12'00" wide travel surface with a 40' right-of-way.
  - B. Gradient on all roads will be less than 5.00%.
  - C. Turnouts will be constructed as needed.
  - D. If needed, road will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
  - E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
  - F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the Topography.

## 3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"

Α.	Water wells	-	Nome known
в.	Disposal wells	-	None known
С.	Drilling wells	-	None Known
D.	Producing wells	-	As shown on Exhibit "A-1"
E.	Abandoned wells	-	As shown on Exhibit "A-1"

POGO PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM

4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Possible routes of pipelines, flowlines and powerlines are shown on Exhibit "F".

# 5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

## 6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

# 7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

## 8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.

POGO PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM

## 9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the proposed well site layout.
- B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- C. Mud pits in the active circulating system will be steel pits & the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with polyethelene. The pit liner will be 6 mils thick. Pit liner will entend a minimum of 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

## 10. PLANS FOR RESTORATION OF SURFACE:

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inumdation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

POGO PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM

## 11. OTHER INFORMATION:

- A. Topógraphy is relatively flat with a slight dip to the East, with shallow drainage patterns. Vegetation consists of creosote bush, little leaf sumac, broom-snakeweed, and native grasses.
- B. Surface is owned by the U.S. Department of Interior and is administered by the Bureau of Land Management. The surface is leased to ranchers for grazing of live stock.
- C. An archaeological survey will be conducted and the results will be filed with The Bureau of Land Management Carlsbad Field office in Carlsbad NM.
- D. There are no domestic dwellings located within one mile of the location.

### 12. OPERATORS REPRESENTIVE:

#### Before construction:

TIERRA EXPLORATION, INC. P.O. BOX 2188 HOBBS, NEW MEXICO 88241 JOE T. JANICA OFFICE PHONE 505-391-8503

## During and after construction:

POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 RICHARD WRIGHT OFFICE PHONE 915-685-8140

13. CERTIFICATION: I hereby certify that I or persons under my direct supervision have inspected the proposed drill site and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge, are true and correct, and that the work associated with the operations proposed herein will be performed by POGO PRODUCING COMPANY it's contractors/subcontractors is in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

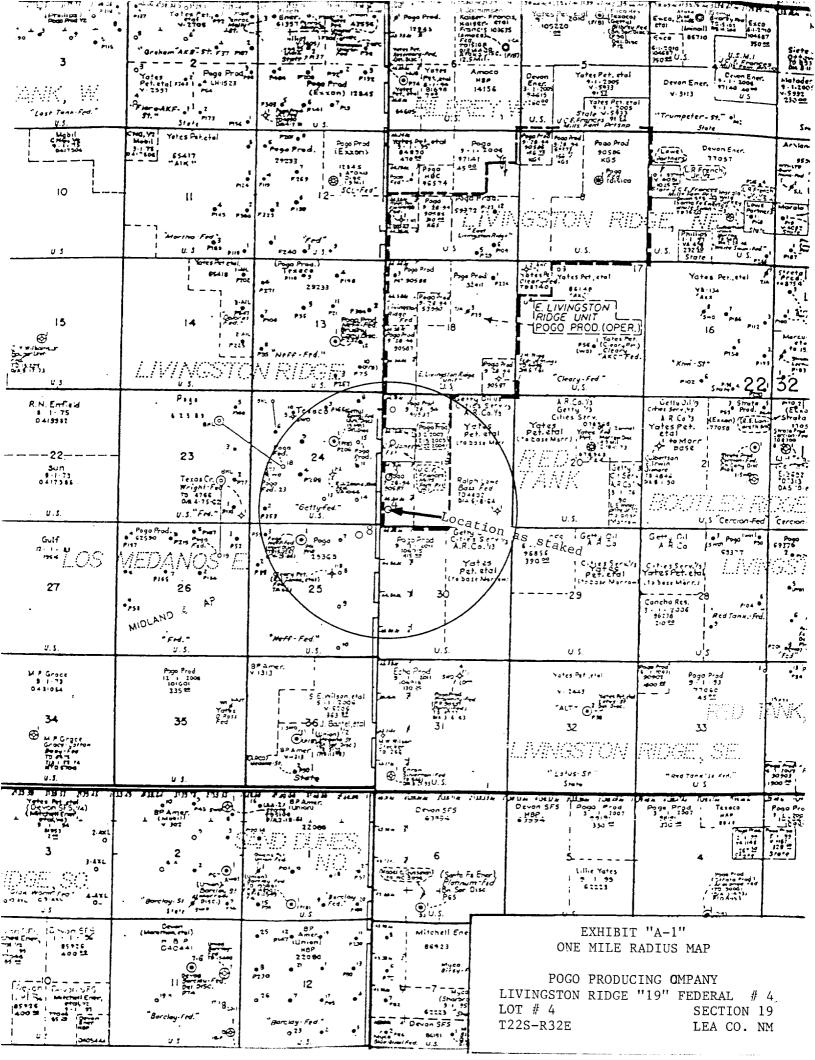
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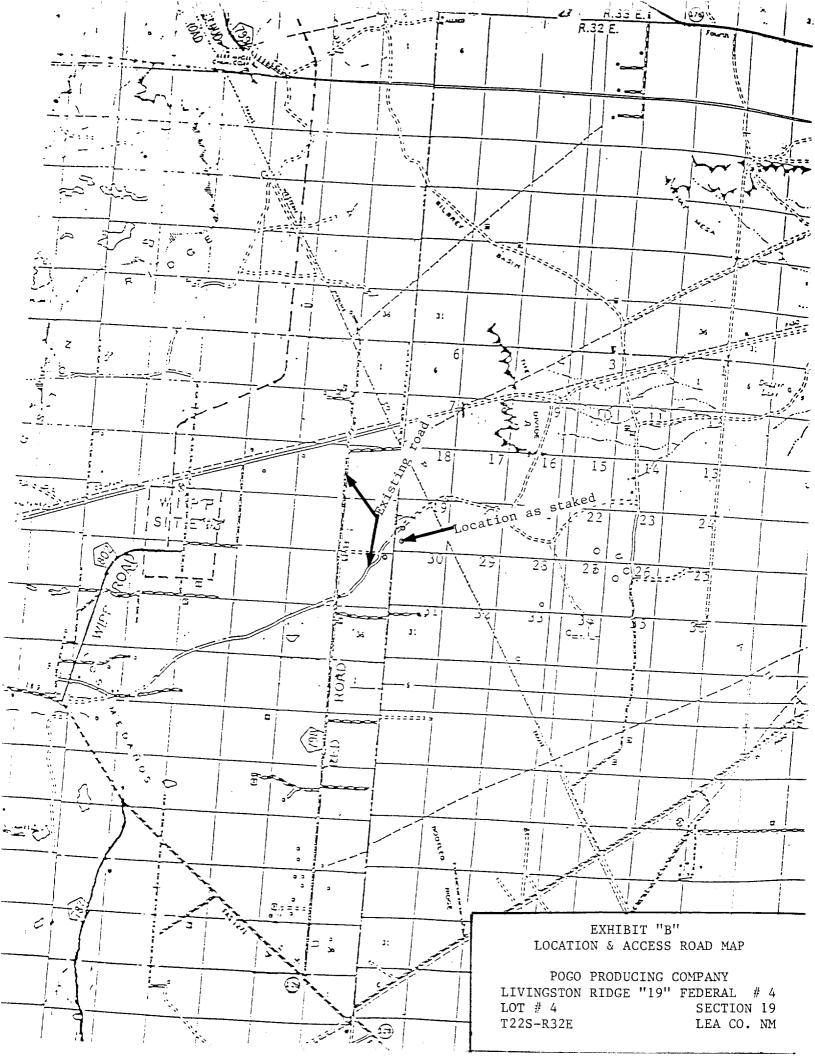
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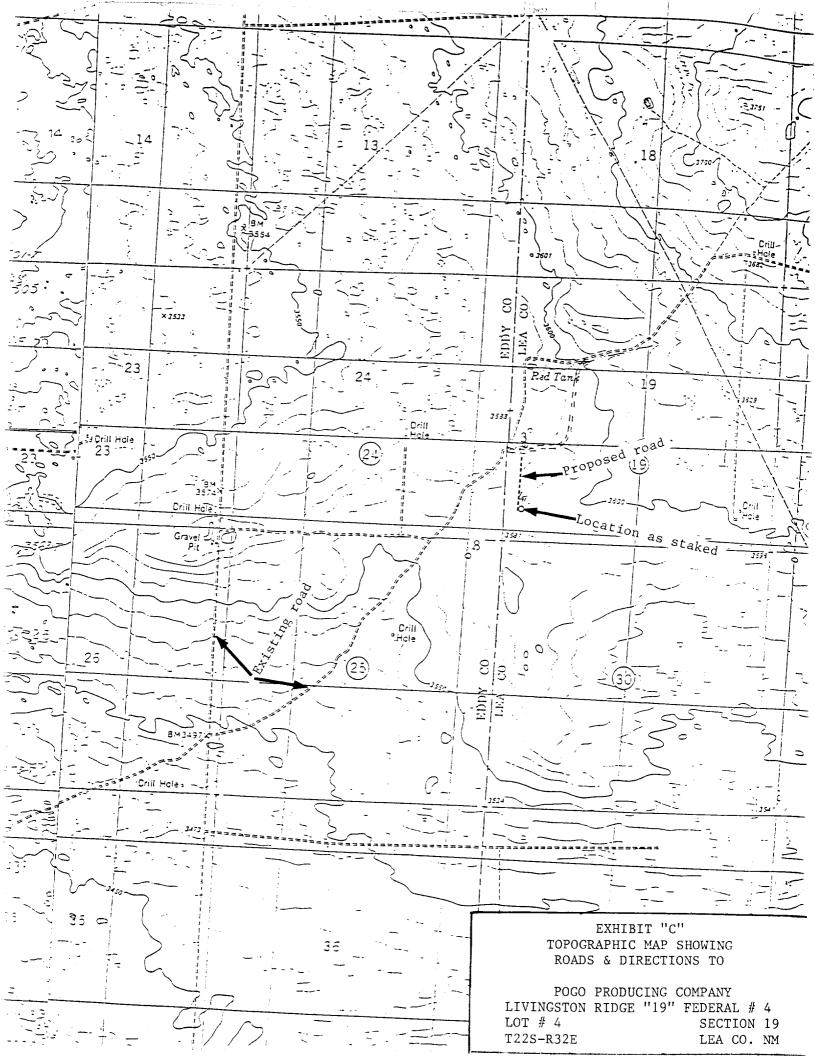
DATE

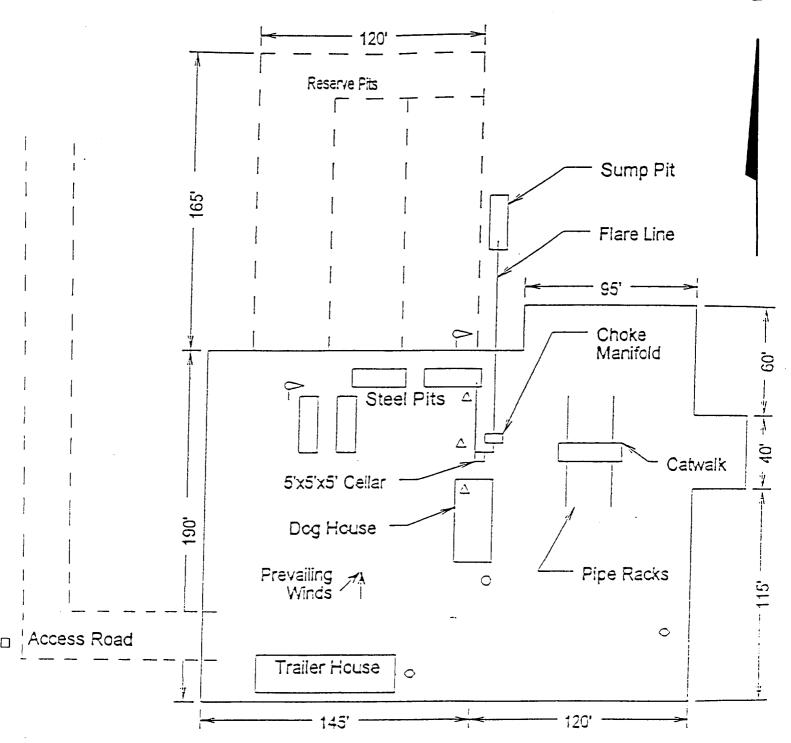
Agent

09/18/02





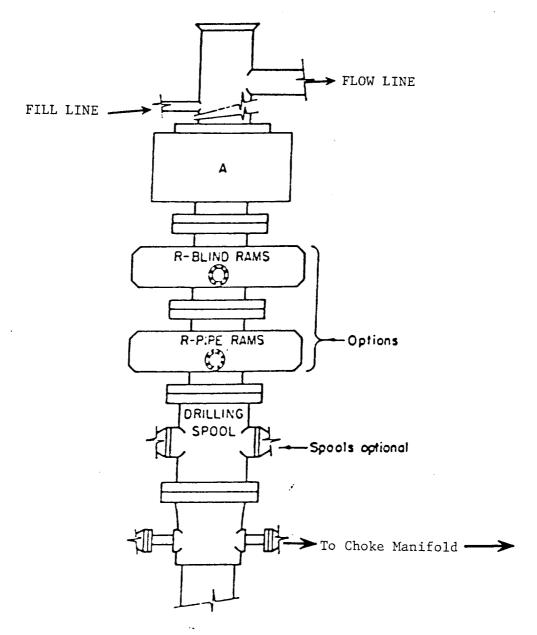




- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas
- O Remote EOP Closing Unit
- □ Sign and Condition Flags

EXHIBIT "D"
RIG LAY OUT PLAT

POGO PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM



#### ARRANGEMENT SRRA

900 Series 3000 PSI WP

EXHIBIT "E"

\*\*EKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM



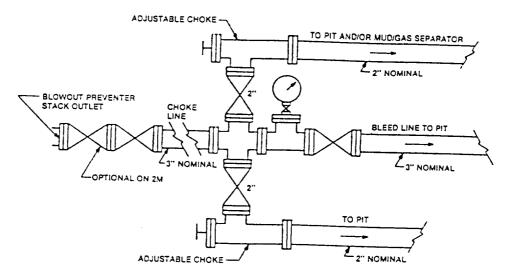


FIGURE K41. Typical choke manifold assembly for 2M and 3M rated working pressure service — surface installation.

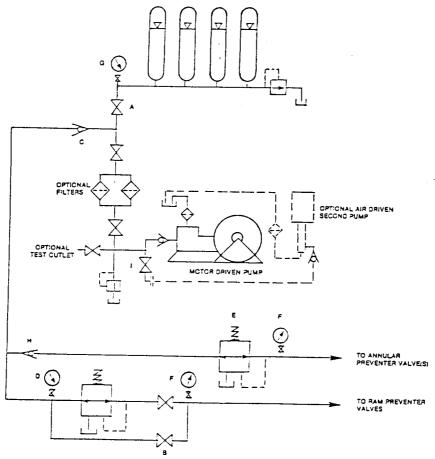


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

POGP PRODUCING COMPANY
LIVINGSTON RIDGE "19" FEDERAL # 4
LOT # 4 SECTION 19
T22S-R32E LEA CO. NM

