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DIL WELL	<b>419</b>			MULTI BONB	<sup>rus</sup> []	S. FARM OR LEASE HANK, W	ILL NO.	
TELL LAJ 2. NAME OF OFERATOR	WELL OTHER					Covington "A"	Federal # 19	
POGO PRODUCI	NG COMPANY	(Richard W	right)			9. AT WELL NO.		
8. ADDRESS AND TELEPHONE N	0.							
P.O. BOX 103	40 MIDLAND, TEXA	AS 79702-7	340 Ph. 505	-682-68	22	10. FIELD AND POOL, C Red Tank - Bo		
	Report location clearly and							
	60' FEL Sec. 26	T22S-R32E	Lea Co. Ne	w Mexic	0	11. SBC., T., R., M., OR AND SURVEY OR AN	824. 184	
At proposed prod. a	Same					Sec. 26 T	22S-R32E	
	AND DIRECTION FROM MEAN		T OFFICE			12. COUNTY OR PARISE	18. STATE	
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LOCATION TO NEARE PROPERTY OR LEASE			1280			40		
18. DISTANCE FROM FRO	POSED LOCATION®				BT OR CABLE TOULS			
OR APPLIED FOR, OH T	DEILLING, COMPLETED, His lease, FT.		9200' Rot		ary			
21. ELEVATIONS (Show W		753" GR.				22. AFPROS. DATE WO AS SOON AS AP	proved	
23.	•	PROPOSED CASI	NG AND CEMENTIN	G PROGRA	M			
SIES OF MOLE	GEADE, SEE OF CASHO	WEIGHT PER P				QUANTITY OF CEMEN		
26"	20" Conductor	NA	40	·		/Redi-Mix to S		
14 3/4"	<u>H-40 10 3/4</u>	32.7 #	800'			x. Circulate to surface Sx. Circulate to surface		
9 7/8	J-55,N-80 75/8		4600'				3600	
<u> </u>	J-55, N-80 4 <sup>1</sup> 2"	11.6 #	9200		950 SX	. cop cemenc	5000	
<ol> <li>Drill 1 Cement</li> <li>Drill 9 N-80, 3 tail in</li> </ol>	6" hole to 40'. 4 3/4" hole to 8 with 650 Sx Clas 7/8" hole to 46 000' of J-55, 15 with 500 Sx. Pr 3/4" hole to 92	00' Run an s "C" ceme 00'. Run a 0' of N-80 emium ceme	d set 800' o nt + additiv nd set 4600' . Cement wit nt + additiv	f 10 3/ es, cir of 7 5 h 800 S es, cir of 4%"	4" 32.7 culate /8" 26. x. Halc culate 11.6 #	<pre># H-40 ST&amp;C ca cement to surf 4# ST&amp;C casing to Light + addi cement to surf LT&amp;C casing,1</pre>	sing. ace. . 1450' tives ace. 600' of	
4. Drill 6 N-80, 4 tail in	3/4" hole to 92 800' of J-55, 28 with 450 Sx. Pr	00'. Run a 00' N-80. emium Plus	na set 9200 Cement with + additives	500 Sx. , estim	Halco ate top	Light + additi of cement 360	ves 0'	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. BIGNER DET Gancia	Agent .	DATE 09/14/96
(This space for Federal or State office use)		augusta <b>so</b> augusta <b>socias espel</b> Azusta texto

Application approval does not warrant or certify that the applicant bolds legal or equitable title to those rights in the total the splice which would entitle the applicant to conduct operations thereon.

13/ Garry Bowers	Area Monagor	
	See Instructions On Revene Side	DATE

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false,  $f_1 = -\alpha s$  or fraudulent statements or representations as to any matter within its jurisdiction.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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# State of New Mexico ( Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION P.0. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1960, Hobbs, NM 86240 .

DISTRICT II P.O. Drawer DD. Artesis, NM 88210

DISTRICT III 1000 Rio Brasos Ed., Astec, NM 87410 WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

000 Rio Brasos R	d., Astec, NM 87410	All Distance	Ces must de tron							
)perstor	POGO PRODI		Less	* COVI	NGTON A	FEDERAL	L Well No. 19			
			Bang				County			
Jnit Letter	Section 26	Township 22 SOUT			2 EAST	NMPM		LEA		
ctual Footage Loc	cation of Well:						EAS	Г и		
	M	ORTH Hane and		660		feet from	B. C.	line Dedicated Acreage:		
round Level Elev			Pool					40		
		RONE SPRINGS	SI.	RE	<u>d tank b</u>	ONE SPRI	NGS	40 Acres		
3752.8'		the phinet well by	colored pencil	or hachure	marks on the	s plat below.				
3752.8 DOIL SININGS 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).										
If more than one lease of different ownership is dedicated to the wall, have the interest of all owners been consolidated by communication,										
unitization, i	force-pooling, etc	. 7						·		
Yes Yes	No No	lf answer is "ye	a che or con			d. (Use reve	se side of			
If answer is "Do	o list of owners	and tract description	s which have a	ctually been	Consolicate	a. (Dat 16/6				
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No allowable w	ill be assigned	to the well unit all fard unit, eliminatin	s meh interes	t, has been	approved by	the Divisio	D			
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### APPLICATION TO DRILL

POGO PRODUCING COMPANY COVINGTON "A" FEDERAL # 19 610' FNL & 660' FEL SEC. 26 T22S-R32E LEA CO. NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

- 1. Location: 610' FNL & 660' FEL SEC. 26 T22S- R32E LEA CO. NM New Mexico
- 2. Elevation Above Sea Level: 3753' GR.
- 3. Geologic Name of Surface Formation: Quaternery Aeolian Deposits
- 4. <u>Drilling Tools and Associated Equipment:</u> Conventional rotary drilling rig using mud for the circulation medium.
- 5. Proposed Drilling Depth: 9200'
- 6. Estimated Geological Marker Tops:

Anhydrite	900.	Brushy Canyon	7400 <b>'</b> 8800'
Delaware Lime	4800	Bone Spring	0000
Cherry Canyon	6100 <b>'</b>		

# 7. Possible Mineral Bearing Formation:

Delaw	vare	011
Bone	Spring	011

### 8. Casing Program:

Hole Size	Intreval	OD Csg	Weight	Thread	Collar	Grade	Cond.
14 3/4"	0-800'	10 3/4"	32.7#	8-R	ST&C	H-40	New
9 7/8"	0-4600'	7 5/8"	26.4	8-R	ST&C	J-55 N-80	New
6 3/4"	0-9200'	4 <sup>1</sup> 2''	11.6	8-R	ST&C	J-55 N-80	) New

#### APPLICATION TO DRILL

POGO PRODUCING COMPANY COVINGTON "A" FEDERAL # 19 610' FNL & 660' FEL SEC. 26 T22S-R32E LEA CO. NM

### 9. <u>Cementing and Setting Depth:</u>

20" Conductor	Set 40' of 20" conductor & cement to surface with Redi-Mix.
10 3/4" Surface	Set 800' of 10 3/4" casing cement with 600 Sx. Class "C" + additives circulate to surface.
7 5/8" Intermediate	Set 4600' of 7 5/8" casing cement with 800 Sx. Halco Light + additives, tail in with 500 Sx. Premium cement C additives circulate to surface.
4½" Production	Set 9200' of casing cement with 500 Sx. Halco Light + additives, tail in with 450 Sx. Premium Plus + additives Top cement 3600'.
Pressure Control Fauinment.	Exhibit "F" A Blow-out Preventer (no

10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 900 series 3000 psi working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 10 3/4"casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling and blind ram will be worked on trips when no drill pipe is in hole. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized. No pressures greater than 3700 psi anticipated.

Depth	Mud Wt.	Mud Visc.	Fluid Loss	Type Mud
0-800'	8.4-8.6	29-36	NC	Fresh water spud mud Paper to control seepage
800-4600'	10-10.6	28-30	NC	Brine water use paper for seepage and lime for pH control
4600-9200 <b>'</b>	8.4-8.6	28-36	NC	Fresh water Use fresh water Gel for viscosity and paper for seepage control.

11. Proposed Mud Circulating System:

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirements will be kept at the well site at all times. In order to log well and run casing the viscosity may have to be raised and the water loss lowered. POGO PRODUCING COMPANY COVINGTON "A" FEDERAL # 19 610' FNL & 660' FEL SEC. 26 T22S-R32E LEA CO. NM

#### 12. Testing, Logging and Coring Program:

- A. Mud logger will be on hole beginning at 4600' to TD.
- B. No cores or DST'S are planned.
- C. Open hole logs will be run. Dual-Induction, Gamma Ray, Caliper, Density and CNL.

### 13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 3700 PSI, estimated BHT <u>145°</u>.

# 14. Anticipated Starting Date and Duration of Operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 20 days. If production casing is run an additional 30 days to complete and construct surface facility and place well on production.

### 15. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The <u>Bone Spring</u> pay will be perforated and stimulated. The well will be swab tested and potentialed as an Oil well.

-

# HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of  $H_2S$
  - B. Physical effects and hazzards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H2S 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<sub>2</sub>S 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"
- 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. All testing will be done in daylight hours.
  - B. Exhausts will be watered
  - C. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - D. If location is near any dwelling a closed D.S.T. will be performed.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S has on tubular goods and other mechanical equipment.
- 9. If H<sub>2</sub>S 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 H<sub>2</sub>S scavengers if necessary.

#### SURFACE USE PLAN

POGO PRODUCING COMPANY COVINGTON "A" FEDERAL # 19 610' FNL & 660' FEL SEC. 26 T22S-R32E LEA CO. NM

- 1. EXISTING ROADS: Area maps, Exhibit "B" is a reproduction of Lea Co. 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 US Highway 62-180 towards Carlsbad New Mexico go 38 miles to Co Road C-29, turn South and go 14 miles to Mills Ranch Road, turn East and follow lease road 7.2 miles turn South go 1.3 miles turn East and follow road .3 miles to location is on North side of road.
  - C. The construction of flow lines and powerlines will be along existing roads or Right of Ways.
- 2. PLANNED ACCESS ROADS No access road is necessary for this well.
  - A. he access road will be crowned and ditched to a 12'00" wide travel surface with a 40' right-of-way.
  - B. Gradient on all roads will be less tha 5.00%.
  - C. No turnouts will be necessary.
  - 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"
  - A. Water wells Water well 2.2 miles North Northwest of well.
  - B. Disposal wells None known
  - C. 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 COVINGTON "A" FEDERAL #19 610' FNL & 660' FEL SEC.26 T22S-R32E LEA CO. NM

4. If on completion this well is a producer Pogo Producing Company will furnish plats showing the production and storage facility.

# 5. LOCATION AND TYPE OF WATER SUPPLY:

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

# 6. SOURCE OF CONSTRUCTION MATERIAL:

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

# 7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pit.
- B. All trash, junk and other waste material will be contained in trash cages or 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 supplier including broken sacks.
- D. Sewage from living quaters will drain into holes with a minium depth of 10'. These holes will be covered during drilling and will be back filled upon completion. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for breaking out. In the event that drilling fluids do not evaporate in a reasonable time they will be hauled off by transports and be disposed of at a state approved disposal facility. Later pits will be broken out to speed drying. Water produced during testing will be put in reserve pits. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

#### 8. ANCILLARY FACILITIES:

A. No camps or airstrips to be constructed.

#### SURFACE USE PLAN

POGO PRODUCING COMPANY COVINGTON "A" FEDERAL #19 610' FNL & 660' FEL SEC.26 T22S-R32E LEA CO. NM

### 9. WELL SITE LAYOUT:

A. Exhibit "D" shows rig site layout.

- B. This exhibit shows proposed location of reserve and sump pits and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pit is proposed to be unlined, unless subsurface conditions encountered during construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit will be lined with polyethylene. The pit liner will be of 6 mil thickness, The pit liner will extend a minimum of 2' over the reserve pit dikes where the liner will be anchored down, with dirt or other suitable means.
- E. The reserve pit will be fenced in three sides with four strands of barbed wire during drilling and completion phases. The fuurth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fences will be removed. The reserve pit area and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirments.

### 10. PLANS FOR RESTORATION OF SURFACE:

Rehabilitation of the locarion and reserve pit will start in a timely manner after all drilling operations have ceased. The type of reclama--tion will depend on wheather the well is a producer or a dry hole.

However in any event, the reserve pit will be allowed to dry properly after fluid is removed and disposed of in accordance eith Article 7.B as previously noted. The pit area will be leveled and contoured to conform it 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 inudation of the locations pad and surface facilities. After the area has been shaped and contoured , topsoil from the spoil area will be placed over thr disturbed area to the extent possible. Revegetation procedures will comply with BLM requirements.

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

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

#### SURFACE USE PLAN

POGO PRODUCING COMPANY COVINGTON "A" FEDERAL #19 610' FNL & 660' FEL SEC.26 T22S-R32E LEA CO. NM

#### 11. OTHER INFORMATION

- A. Topography consists of sand dunes with a slight regional dip to the West. Soil supports native grasses mesquites and miniature oaks.
- B. The surface is used mainly for grazing livestock and access to oil and gas wills. Grazing lessee is J.C. Mills, P.O. Box 190, Abernathy, Texas 79322.
- C. An Archeological survey will be conducted and copies will be sent to the BLM, Carlsbad Resource Area, in Carlsbad, N.M.
- D. There are no dwellings or habitation within three miles of this location.

#### 12. OPERATOR'S REPRESENTATIVE

Field representative to contact regarding compliance with surface use plan:

Before Construction:

During and after construction:

Tierra Exploration Inc.	Pogo Producting Company
P.O. Box 2188	P.O. Box 10340
Hobbs, New Mexico 88241	Midland, Texas 79702
Office Phone 505-392-2112	Office Phone 915-682-6822
Joe T. Janica	Mr. Richard Wright

13. <u>CERTIFICATION</u>: 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 in conformity with this plan and the terms and conditions underwhich it is approved. This statement is subject to the provision od 18 U.S.C. 1001 for the filing of a false statement.

NAME:	Cart G	Janica
DATE:	09/14/96	
TITLE:	AGENT	

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CHOKE MANIFOLD & CLOSING UNIT POGO PRODUCING COMPANY COVINGTON "A" FEDERAL #19 610' FNL & 660' FEL SEC.26 T22S-R32E LEA CO. NM