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P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 LOCATION OF WELL (Beport location clearly and in accordance with a At surface		-
At surface	any State requirements.")	10. FIELD AND POOL, OR WILDCAT
580' FNL & 330' FWL SECTION 5 T23S-R32E		LIVINGSTON RIDGE DELAWARE
	LEA CO. NM	11. BBC., T., R., M., OF BLK. AND BURYEY OF AREA
At proposed prod. zone SAME		SECTION 5 T23S-R32E
. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OF POST OF	FFICE*	12. COUNTY OF PARISE 13. STATE
Approximately 28 miles East of Carlsbad 1	New Mexico	LEA CO. NEW MEXICO
LOCATION TO NEAREST	5. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 330'	960	40
B. DISTANCE FROM FROPOSED LOCATION <sup>®</sup> TO NUMPEST WELL DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1.2 miles	9. PROPOSED DEPTH 8600'	20. BOTARY OR CABLE TOOLS
		22. APPROL DATE WORK WILL START*
ELEVATIONS (Show whether DF, RT, GR, etc.) 3523' GR.		WHEN APPROVED
PROPOSED CASING	AND CEMENTING PROGRAM	4
SIZE OF ROLL GRADE SIZE OF CASING WEIGHT FEE FOOT	SETTING DEPTH	QUANTITT OF CEMENT
25" Conductor NA	40'	Cement to surface with Redi-mix.
17 <sup>1</sup> / <sub>2</sub> " J-55 13 3/8" 54.5	850'	900 Sx. Circulate cement to surfa
11" J-55 8 5/8" 32	4400'	<u>1200 Sx " " "</u> "
7 7/8" J-55 5½" 17 & 15.5	8600'	1200_Sx. """"""""""""""""""""""""""""""""""""
1. Drill 25" hole to 40'. Set40' of 20"	conductor pipe an	d cement to surface with Redi-mix.
2. Drill 17½" hole to 850'. Run and set with 900 Sx. of Class "C" cement + 2%	-	•
3. Drill 11" hole to 4400'. Run and set with 1200 Sx. of Class "C" cement + 2		
4. Drill 7 7/8" hole to 8600'. Run and s	set 8600' of 5½" c	asing as follows: 2600' of 5' 17
J-55 LT&C, 5000' of 5 <sup>1</sup> 2" 15.5# J-55 LT DV Tools at 5800'± & 3800'±. Cement w	T&C, 1000' of 5½"	17# J-55 LT&C. Cement in 3 stages
cement to surface.	APPROVAL SUBJ	ertto 🏠 🖅 🖅 🚽
Capitan Controlled Weter Basin	GENERAL REQUI	REMENISARU
ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give open directionally, give performent data on subsurface locations and measured and true ve	CLIAL JIII VE	ad proposed new productive tone. If proposal is to drill or
pen directionally, give perforent data on subsurface locations and measured and true ve		zer program, if any. A second s
SIGNED CRAT Janita TITLE_	Agent	DATE 06/17/03
(This space for Federal or State office use)		
PERMIT NO	APPROVAL DATE	
Application approval does not warrant or certify that the applicant holds legal or equitable		ase which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL IF ANY:		
Λ. Δ.	NO-	
APPROVED BY /S/ JOE G. LARA	FIELD MANAG	ERAUG 26 2003
	ns On Reverse Side	APPROVAL FOR 1 YEAR

le 18 U.S.C. Section 1001 makes it a crime for any nerson knowingly and willfully to make to any department or agency of t

•	DISTRICT I P.A. Berr 1980, Eobber, DISTRICT II	<b>YM 88241</b> 16	880			argy, W	ünerels and	Natural	W Mexico Resources Department	Submit	For Revised Februar to Appropriate Dist			
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	DISTRICT III 1000 Rio Brazos Ro	i., Aztec, Ni	M 87410		Sant	a Fe			o 87504-2088			-		
	DISTRICT IV P.O. BOX 2085, SANTA	FE, N.M. 87	504-2068	WELL LO	)CATI	ON	AND	ACREA	GE DEDICATI	ON PLAT	AMENDED	REPORT		
		Number 5-74	391	393	Pool Ca 80	ode		LIVI	NGSTON RIDGE	Pool Name DELAWARE SO	Pool Name ELAWARE SOUTHEAST			
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	L		1	Bottom	Hole	Loc	ation I	f Diffe	rent From Sur	face	- <u></u>			
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				COORDINATES					<u> </u>	I hereby certify	, that the well locat	ion shown		
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			LAT. 32	04452.7 E 20'20.58"N 5'42'13.44"W							d that the same is a best of my beliej			
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VICINITY MAP



SCALE: 1" = 2 MILES

SEC. <u>5</u> TWP. <u>23-S</u> RGE. <u>32-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>580' FNL & 330' FWL</u> ELEVATION <u>3523'</u> OPERATOR <u>POGO PRODUCING COMPANY</u> LEASE <u>PLATINUM 5 FEDERAL</u>

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



SCALE: 1" = 2000'

SEC. <u>5</u> TWP. <u>23–S</u> RGE. <u>32–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>580' FNL & 330' FWL</u> ELEVATION <u>3523'</u> OPERATOR <u>POGO PRODUCING COMPANY</u> LEASE <u>PLATINUM 5 FEDERAL</u> U.S.G.S. TOPOGRAPHIC MAP BOOTLEG RIDGE, N.M CONTOUR INTERVAL: 10' BOOTLEG RIDGE, N.M.

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

POGO PRODUCING COMPANY PLATINUM "5" FEDERAL # 1 UNIT "D" SECTION 5 T23S-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. Location: 580' FNL & 330' FWL SECTION 5 T23S-R32E LEA CO. NM

2. Elevation above Sea Level: 3523' 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: 8600'

6. Estimated tops of geolog	ical markers:		
Basal Anhydrite	4320 <b>'</b>	Cherry Canyon	5500 <b>'</b>
Delaware Lime	4580 <b>'</b>	Brushy Canyon	6760 <b>'</b>
Bell Canyon	4630'	Bone Spring	8530'

# 7. Possible mineral bearing formations:

Cherry Canyon	Oil	Bone Spring.	0i1
Brushy Canyon	011		

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Cullar	Grade
25"	0-40'	20"	NA	NA	NA	Conductor
17 <sup>1</sup> 2"	0-850'	13 3/8"	54.5	8-R	ST&C	J-55
11"	0-4400	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-8600'	5½''	17 & 15.5	8-R	LT&C	J-55

POGO PRODUCING COMPANY PLATINUM "5" FEDERAL # 1 UNIT "D" SECTION 5 T23S-R32E LEA CO. NM

#### 9. CASING CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 850' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 900 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 1200 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/Sx. Circulate cement to surface.
5½"	Production	Set 8600' of $5\frac{1}{2}$ " casing as follows: 2600' of $5\frac{1}{2}$ " 17# J-55 LT&C, 5000' of $5\frac{1}{2}$ " 15.5# J-55 LT&C, 1000' of $5\frac{1}{2}$ " 17# J-55 LT&C. Cement in 3 stages with DV Tools at 5800'± & 3800'±. Cement with 1200 Sx. of Class "H" cement + additives, circulate cement to surface.

- 10. <u>PRESSURE CONTROL EQUIPMENT:</u> Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rans 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 24 hour period and the blind rams will be operated when drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhib "E-1" shows a hydraulically operated closing unit and a 3" 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected.
- 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-850'	8.4-8.7	29-38	NC	Fresh water spud mud add paper to control seepage.
850-4400'	10.0-10.2	29-38	NC	Brine water add paper to control seepage and use high viscosity sweeps to clean hole.
4400-8600'	8.4-8;7	29-40	NC*	Fresh water use fresh water Gel to control viscosity. Use high
run logs, :	oss is required run casing or to olymer system to	take DST's or		viscosity sweeps to clean hole.

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.

POGO PRO	DUCI	NG	COM	PA	NY	
PLATINUM	"5"	FED	ERA	L	#	1
UNIT "D"		S	ECT	IO	N	5
T23S-R32E		L	EA	co	•	NM

#### 12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Intermediate hole Dual Laterolog, SNP, LDT, GAmma Ray, Caliper 4400' to surface. Production Hole: Run Dual Induction, SNP, LDT, Gamma Ray, Caliper from TD to 4400'.
- B. Mud logger may be rigged up on hole at 4400'.
- C. Cores and DST's may be run as shows dictate.

#### 13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of  $H^2S$  in this area. If  $H^2S$  is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP <u>4400</u> PSI, and Estimated BHT <u>160°</u>.

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

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 25 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

#### 15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The <u>Bone Spring</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an Oil well.

#### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. 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<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<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. 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 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  $H_2S$  has on tubular goods and other mechanical equipment.
- 9. If  $H_2S$  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  $H_2S$  scavengers if necessary.

#### SURFACE USE PLAN

# POGO PRODUCING COMPANY PLATINUM "5" FÉDERAL # 1 UNIT "D" SECTION 5 T23S-R32E LEA CO. NM

- EXISTING ROADS & PROPOSED ROADS: Area maps; Exhibit "B" is a reproduction of a County General Hi-way Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing 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 New Mexico, go 39± miles to CR-29, turn South and go 16.4 miles, turn East go 1.3 miles bear Left go 1.2 miles to new lease road, turn Left (North) follow road .8 miles to location.
  - C. Surface facilities will be constructed on location if the well is completed as a producer.
- 2. PLANNED ACCESS ROADS: Approximately .8 miles of new road will be constructed.
  - A. The access roads will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
  - B, Gradient of all roads will be less than 5.00%.
  - C. If turn-outs are necessary they will be constructed.
  - D. If needed roads will be surfaced with a mimimum of 4" of caliche. This material will be obtained from a local source.
  - E. Center-line for new roads will be flagged. Earth-work will be will be done as field conditions require.
  - F. Culverts will be placed in the access road if they are necessary. The roads will be constructed to utilaze low water crossings for drainage as required by topography.

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

Α.	Water wells	- One approximately 2 miles Southeast.
в.	Disposal wells	- One approximately 1 mile North Northeast
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 PLATINUM "5" FEDERAL # 1 UNIT "D" SECTION 5 T23S-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. If additional routes are needed a Sundry report will be submitted to obtain approval for flowlines and/or powerlines.

# 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.

- 3. 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.

#### SURFACE USE PLAN

POGO PRODUCING COMPANY PLATINUM "5" FEDERAL # 1 UNIT "D" SECTION 5 T23S-R32E LEA CO. NM

#### 9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the proposed well site layout.
- B. This Exhibit shows the location of reserve pit, sump pits, and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pits will be unlined unless subsurface conditions encontered during pit construction indicate that a plastic liner is required to contain lateral migration.
- D. If needed the reserve pits will be lined with polyethelene. The pit liner will be no less than 6 mils thick and the liner will be extended at least 3 feet over the top of the dikes and secured in place to keep edge of liner in place.
- E. The reserve pit will be fenced on three sides and fenced with four strands of barbed wire during drilling and completionphases. The 4th side will be fenced after drilling operations are complete and the drilling rig has moved out. If the well is a producer the mud pits will remain fenced in until the mud has dried up enough to break out the pits and reclaimed according to BLM requirements.

#### 10. PLANS FOR RESTORATION OF SURFACE:

Rehabilitation of the location and reserve pits will be allowed to dry properly, fluids may be moved and disposed of in accordance with article 7-E 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 furture erosion. In case of the well completed as a producer the drilling pad will be necessary to construct production facilities. After the area has been shaped and contoured top soil from the spoil pile will be placed over the disturbed area to the extent possible so that revegetation procedures can be accomplished to comply with the BLM specifications.

If the well is a dry hole the pad and road area will be contoured to match the existing terrain. Top soil will be spread to the extent possible and revegetation will be carried out according to the BLM specifications.

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 PLATINUM "5" FEDERAL # 1 UNIT "D" SECTION 5 T23S-R32E LEA CO. NM

# 11. OTHER INFORMATION:

- A. Topography consists of sand dunes with a slight dip to the West. Deep sandy soil supports shinnery oak, native grasses, and an occasional mesquite tree.
- B. Surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is used for grazing livestock and the production of oil and gas.
- C. An archaeological survey will be conducted on the location and access roads. This report will be filed with The Bureau of Land Management in the Carlsbad field office.
- D. There are no dwellings in the near vicinity of this location.

# 12. OPERATORS REPRESENTIVES:

Before construction:

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

#### During and after construction:

POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 OFFICE Ph. 915-685-8100 Mr. RICHARD WRIGHT 915-685-8140

13. <u>CERTIFICATION</u>: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads, and that I am fimiliar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge true and correct, and that the work associated <sup>2</sup> with the operations proposed herein will be performed by POGO PRODUCING COMPANY it's contractors/subcontractors is in compformity 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 report.

NAME 06/17/03 DATE TITLE Agent

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ARRANGEMENT SRRA

900 Series 3000 PSI WP

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EXHIBIT "E" SKETCH OF B.O.P TO BE USED ON POGO PRODUCING COMPANY PLATINUM "5" FEDERAL # 1 UNIT "D" SECTION 5 T23S-R32E LEA CO. NM



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# STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

OPERATOR NAME: POGO PRODUCING COMPANY

ADDRESS; P.O. BOX 10340

1

CITY, STATE, & ZIP: MIDLAND, TEXAS 79702-7340

The above operator accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No: NM-63994

Well name: PLATINUM "5" FEDERAL # 1

Legal Description of land: SECTION 5 T23S-R32E LEA CO. NM.

Bond coverage: BLANKET

B.L.M. Bond File No.: 29771

Authorized Signature ula Title: AGEN Joe T. Janica

Date: 07/30/03