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b. TIPE OF WELL		DEEPEN [7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	WELL OTHER		SINGLE X	MULTIPLE	
	ING COMPANY	(PTCHARD I			8. FARM OR LEASE NAME WELL NO.
3. ADDRESS AND TELEPHONE	NO.		WRIGHT 915-685		BUFFALO FEDERAL # 3
4. LOCATION OF WELL AL NUMBER	340 MIDLAND, TE (Report location clearly a	XAS 79702-734() (915-695-81	00)	30-D25-35994
330' FSL &	1650' FWL SEC. 11		any State requirements	•)	TONTO-SEVEN RIVERS
At proposed prod. :	sone SAME	1193-RSSE [LEA CO. NM		11. SBC., T., E., M., OE BLE. AND SURVET OR AREA
14. DISTANCE IN MILE	S AND DIRECTION FROM NE	<u>_//</u>			SECTION 11 T19S-R33E
	V 35 milos Eauti	AREST TOWN OR POST O	Frice*		12. COUNTY OR PARISE 13. STATE
15. DISTANCE FROM PRO LOCATION TO NEAR		west of Hobbs	New Mexico B. NO. OF ACRES IN LEA	1	LEA CO. NEW MEXTUO
PROPERTY OR LEASE (Also to nearest di	rig. unit line, if any	30'			F ACEES ASSIGNED
13. DISTANCE FROM FRO TO NEAREST WELL, OR APPLIED FOR, ON T	POSED LOCATION"	201	560 PROPOSED DEPTH	20. 80711	40 IT OR CABLE TOOLS
21. ELEVATIONS (Show W	hether DF, RT, GR, etc.)	20	3900'	ROT	TARY
23.		3697' GR.	Canitan Controllo	d Window Product	22. APPROX. DATE WORK WILL START* WHEN APPROVED
	· · · · · · · · · · · · · · · · · · ·	PROPOSED CASING	AND CEMENTING PRO	GRAM	
SIZE OF ROLE	CRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		-
<u></u>	Conductor	NA	40'	Cement	QUANTITY OF CEMENT to surface with Redi-mix.
7_7/8"	<u>J-55 8 5/8"</u> J-55 4 ¹ / ₃ "	32	1500'	800 Sx.	circulate cement to surface
	0-00 43	11.6	3900'	900 Sx.	estimate top of cement 1000't
3. Drill 7 7 with 900 OPER. OGRI PROPERTY 1 POOL CODE EFF. DATE 9 API NO. 30	7/8" hole to 1500" of Class "C" ceme Sx. of Class "C" D NO. $7/89/$ NO. $73/4$ S9470 7-4-02 -02.5-359	Run and set ent + 4# Floce: . Run and se cement + addi 	1500' of 8 5/8 le/Sx. + 2% Ca et 3900' of 4½ itives. Estimat A Si A1	" 32# J-55 C1. circula ' 11.6# J-5 te top of co PPROVAL SI ENERAL RE PECIAL STIP TACHED	QUIREMENTS AND ULATIONS
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HECENTED



EXHIBIT "A"

VICINITY MAP



SCALE: 1'' = 2 MILES.

SEC. <u>11</u> TWP. <u>19</u>—S RGE. <u>33</u>—E SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>330' FSL & 1650' FWL</u> ELEVATION <u>3697'</u> OPERATOR <u>POGO PRODUCING COMPANY</u> LEASE <u>BUFFALO FEDERAL</u>

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

LOCATION VERIFICATION MAP



SEC. <u>11</u> TWP. <u>19</u>–<u>S</u> RGE. <u>33</u>–<u>E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>330' FSL & 1650' FWL</u> ELEVATION <u>3697'</u> OPERATOR <u>POGO PRODUCING COMPANY</u> LEASE <u>BUFFALO FEDERAL</u> U.S.G.S. TOPOGRAPHIC MAP

LAGUNA GATUNA NW. N.M.

CONTOUR INTERVAL: 10' LAGUNA GATUNA NW, N.M.

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

APPLICATION TO DRILL

POGO PRODUCING COMPANY BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E 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: 330' FSL & 1650' FWL SEC. 11 T19S-R33E LEA CO. NM

2. Elevation above Sea Level: 3697' GR.

- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
- 5. Proposed drilling depth: 3900'
- 6. Estimated tops of geological markers: Rustler Anhydrite 1450'

0 1 1	- 190	Yates	3250'
Salado Salt	1620'	•	5250
_	1020	Seven Rivers	25501
Tansill	D'OGOST.		3550'
	3030'	· ·	

7. Possible mineral bearing formations:

Yates		011
Seven	Rivers	011

8. Casing program:

Hole_size	Interval	OD of casing	Weight	Thread	Collar	Grade
25''	0-40	20''				
12½''	0 15001		NA	NA	NA	Conductor
· · ·	0-1500'	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-3900'	4 ¹ ₂ ''	11.6	8-R	ST&C	
					SIGC	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E LEA CO. NM

9. CEMENTING & SETTING DEPTH:

20''	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
8 5/8"	Surface	Set 1500' of 8 5/8" 32# J-55 ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl + 注# Flocele/Sx. Circulate cement to surface.
4½''	Production	Set 3900' of $4\frac{1}{2}$ " 11.6# J-55 ST&C casing. Cement with 900 Sx. of Class "C" cement + 2% CaCl + $\frac{1}{2}$ # Flocele/Sx. estimate top of cement 1000' from 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 rams, and bottom pipe rams. The B.O.P. will be nippled up on the 8 5/8" 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 the drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected in this well.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE SYSTEM
40-1500'	8.4-8.7	29-34	NC	Fresh water mud system use paper to control seepage and high viscosity sweeps to clean hole.
1500-3900'	8.4-8.7	29-38	NC	Fresh water mud system, use paper to control seepage & high 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, & casing the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

A. Open hole logs: Dual Induction SNP, LDT, Gamma Ray, Caliper from TD to 1500' B. Run Gamma Ray Neutron from 1500' to surface.

- C. No cores or DST's are planned at this time.
- D. No mud logger is planned.

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 1800 Estimated BHT 125° . H²S monitoring equipment will be placed on hole PSI, and below surface casing.

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 __15__ 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>Seven Rivers</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H_2S 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_2S Detection and Alarm Systems
 - A. H₂S 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, H₂S 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.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 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 H₂S 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 H₂S scavengers.if necessary.

SURFACE USE PLAN

POGO PRODUCING COMPANY BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E LEA CO. NM

- EXISTING 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 location of the proposed well site as staked.
 - B. From Hobbs take U.S. Hi-way 62-180 West 15 miles to junction with State Hi-way 529, bear Right on 529 go 13.5 miles to Milepost 17 turn South go .4 mi turn West go .9 mi bear Left follow road 2.8 mi bear Left go 1.1 mi turn Right go .6 mi turn Left go .5 mi bear Left go .6+ mi turn Right (South) go 1.7 mi turn Left and follow new road 1800' to location.
 - C. Construct powerlines along road R-O-W to wells, see Exhibit "F".
- 2. PLANNED ACCESS ROADS: Approximately 1000' of new road will be constructed.
 - A. The access road will be crowned and ditched to a 12' wide traveled surface with a 40' Right-of-Way.
 - B. Gradient on all roads will be less than 5% if possible.
 - C. Turn-outs will be constructed where necessary.
 - D. If needed the roads will be surfaced to the BLM requirements with material obtained from from a local source.
 - E. Center line for the new access road will be flagged.
 - F. The road will be constructed to utilize low water crossings where drainage currently exist, and Culverts will be installed where necessary.
- 3. EXHIBIT "A-1" SHOWS WELLS AND DRY HOLES WITHIN A 1 MILE RAIDUS. ;

A. Water wells	-	None known
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 BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E 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.

SURFACE USE PLAN

POGO PRODUCING COMPANY BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E 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 extend a minimum 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 and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to 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 BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E 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 ² 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.

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DATE	06/22/02
TITLE	Agent

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ARRANGEMENT SRRA

900 Series 3000 PSI WP

> EXHIBIT "E" SKETCH OF B.O.P. TO BE USED ON

> > POGO PRODUCING COMPANY BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E LEA CO. NM

BLOWOUT PREVENTION EQU 1ENT Choke Islanifolds

DRILLING 1ANUAL





FIGURE K+1. 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 POGO PRODUCING COMPANY

BUFFALO FEDERAL # 3 UNIT "N" SECTION 11 T19S-R33E LEA CO. NM

