MIT IN TRIPLICATE. (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

## UNITED STATES

IJ.	LEASE DESIGNATION	<b>TXD</b>	BERLL	NO.
	NM-93477			

•		F LAND MANAGE	EMENT <b>OPERATOR</b> '	S COPY	5. LEASE DESIGNATION NM-93477	AND BERIAL NO.
APP	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME				
1a. TYPE OF WORK	ORILL A	DEEPEN [	_		7. UNIT AGREEMENT )	CAX3
D. TIPE OF WELL OIL WELL	CAB OTHER		BINGLE MUL	EIPLE [	S. FARM OR LEASE HAVE WE	LL NO.
POGO PRODUCT		River Bend "23"	Federal #16			
3. ADDRESS AND TELEPHONE P.O. BOX 100	™. 340 MIDLAND, TEX	30-015-3	3598			
At surface	(Report location clearly and 1830 67) FSL SECTIO ZODE SAME				Pierce Crossing 11. spc., T., R., M., OR AND SUZVEY OR AJ SECTION 23 TA	BLK.
	ly 12 miles East	12. COUNTY OF PARISH EDDY CO.	NEW MEXICO			
15. DISTANCE FROM PRO LOCATION TO NEAR PROPERTY OR LEAS (Also to Dearest d	IST	660'			F ACRES ABSIGNED HIS WELL 40	·
15. DISTANCE FROM PR	OPOSED LOCATION®. DRILLING, COMPLETED,	NA 1			TARY	
	whether DF, RT, GR, etc.)	3025' GR	Carlsbad Controlled W	ater Basin	WHEN APPROV	·
23.	•	PROPOSED CASING	AND CEMENTING PROGR	AM		
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
25''	Conductor	NA	40 '	Cement	ement to surface with Redi-m	
17½"	H-40 13 3/8"	48	600'	450 Sx	50 Sx. Circulate to surface	
11"	J-55 8 5/8"	32	3000'		800 Sx. " " "	
7 7/8"	J-55 5½"	17 & 15.5	8200'	1250 S	x. 2 stage TOC	est 2000' FS

- 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
- 2. Drill 17½" hole to 600'. Run and set 600' of 13 3/8" 48# H-40 ST&C casing. Cement with 250 Sx. of Class "C" 65/35/6 POZ/GEL tail in with 200 Sx. of Class "C" cement + 2% CaCl + 1/4# Flocele/Sx. Circulate cement to surface.
- 3. Drill 11" hole to 3000'. Run and set 3000' of 8 5/8" 32# J-55 ST&C casing. Cement with 600 Sx. of Class "C" 65/35/6 POX/GEL, +5% Salt, tail in with 200 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface.
- 4. Drill 7 7/8" hole to 8200'. Run and set 8200' of  $5\frac{1}{2}$ " casing as follows: 2200' of  $5\frac{1}{2}$ " 17# J-55 LT&C, 5000' of 5½" 15.5# J-55 LT&C, 1000' of 5½" 17# J-55 LT&C casing. Cement in 2 stages with DV Tool at 4500'±. Cement 1st stage with 650 Sx. of Class "C" + 8# Gilsonite/Sx. 2nd stage cement with 600 Sx. of Class "C" + 6# of Gilsonite/Sx. Estimate top of cement 2000' from surface.

N ABOVE SPACE DESCRIBE PROPUSED PROGRAM: If proposal is to decepen directionally, give pertinent data on subsurface locations and measured	eepen, give data on present productive zone and and true vertical depths. Give blowout prevente	r program, if any.
SIGNED Lance	Agent Agent	DATE 08/17/04
(This space for Federal or State office use)		PROVAL SUBJECT TO ENERAL REQUIREMENTS AND
Application approval does not warrant or certify that the applicant holds legal	l or equitable title to those rights in the subject 👫	ECIAL STIPULATIONS - ********
M A	A	TACHED
APPROVED BY JOHN Jana 1	FIELD MANAGER	DATE 8/31/04

#### State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

#### Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

Form C-102 Revised JUNE 10, 2003 State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION Submit to Appropriate District Office 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

1220 S. ST. FRANCIS DR., SANTA FR., NM 875	well location and	ACREAGE DEDICATION PLAT	□ AMENDED REPORT		
API Number	Pool Code	Pool Code Pool Name			
	50371	PIERCE CROSSING-BONE SPRING			
Property Code	Prop	Well Number			
	RIVER BEN	RIVER BEND 23 FEDERAL			
OGRID No.	<b>-</b>	Operator Name			
17891	POGO PRODU	JCING COMPANY	3023'		

#### Surface Location

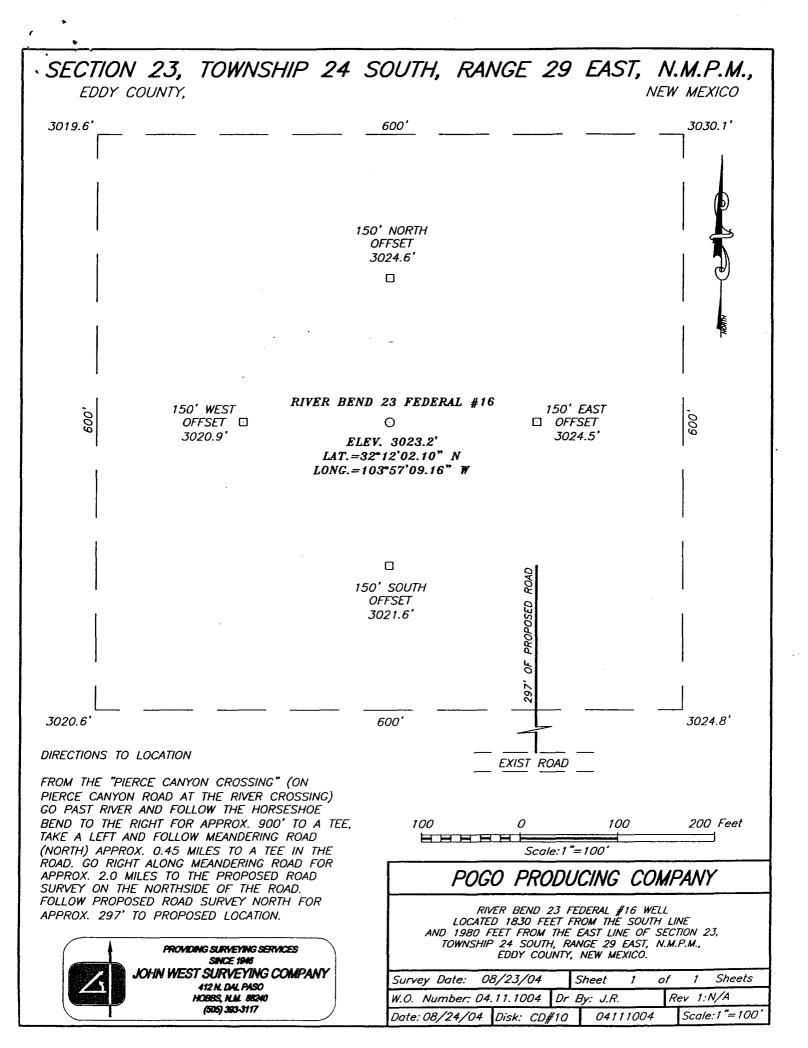
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	24-S	29-E	·	1830	SOUTH	1980	EAST	EDDY

#### Bottom Hole Location If Different From Surface

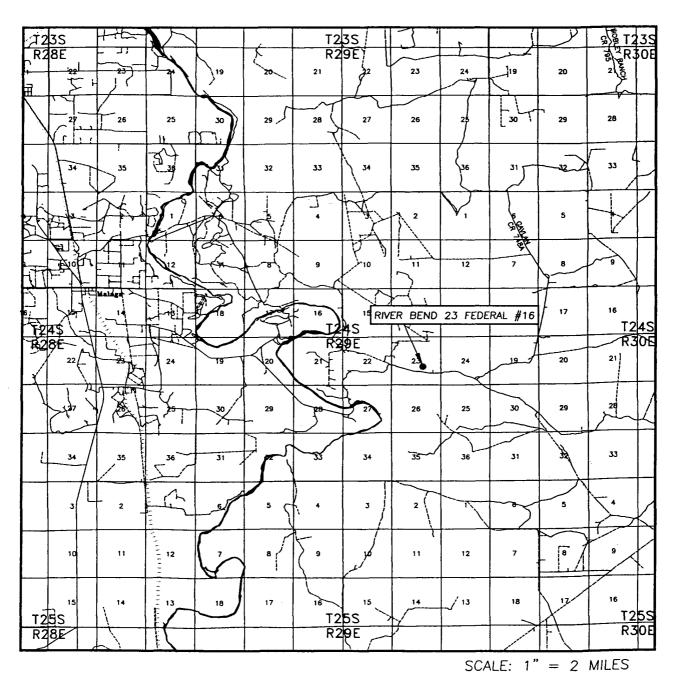
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code Ore	der No.	<u> </u>		<u> </u>	L
40			_						

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

	NAD 27 NME  Y=436900.6 N X=617785.3 E  LAT.=32'12'02.10" N LONG.=103'57'09.16" W  Signature  Joe T. Japaca  Printed Name Agent  Title 08/25/04  Date  SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under the correct to the best of my belief.  1980'  1980'  Joe Surveyor 23, 2004  Date Surveyor 23, 2004  Date Surveyor 23, 2004  Date Surveyor 23, 2004  Date Surveyor 23, 2004	<del></del>			
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under me supervison and that the same is true and correct to the best of my belief.  AUGUST 23, 2004  Date Surveyed Seal of Signature & Seal of Signature & Seal of Surveyor.  Professional Surveyor.	Day 12 hum 8725/04 04.11.1004	NAD 27 NM Y=436900.6 X=617785.3  LAT.=32*12'02.1 LONG.=103*57'09	19.6' 3030.1'		I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature  Joe T. Janica  Printed Name  Agent  Title  08/25/04  Date  SURVEYOR CERTIFICATION  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 supervison, and that the same is true and correct to the best of my belief.  AUGUST 23, 2004  Date Surveyed  Signature & Seal at S
			Y=436900.6 X=617785.3 LAT.=32*12'02. LONG.=103*57'09	Y=436900.6 N X=617785.3 E LAT.=32'12'02.10" N LONG.=103'57'09.16" W	Y=436900.6 N X=617785.3 E LAT.=32*12'02.10" N LONG.=103*57'09.16" W



### VICINITY MAP



SEC. 23 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1830' FSL & 1980' FEL

ELEVATION 3023'

POGO

OPERATOR PRODUCING COMPANY

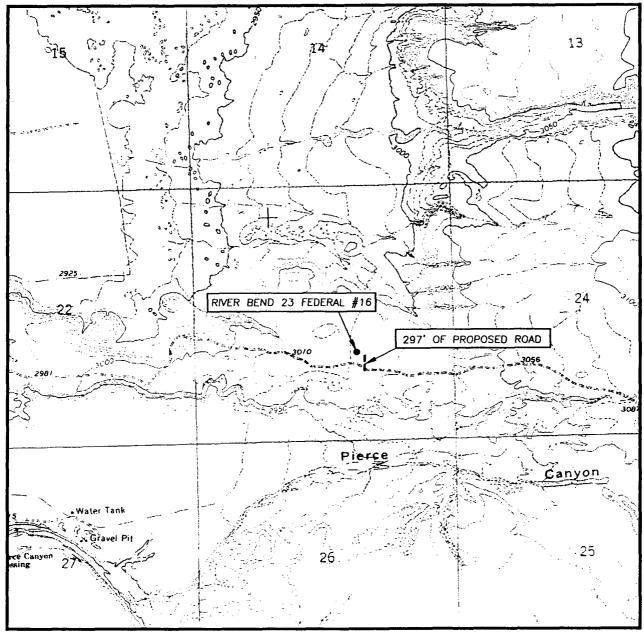
LEASE RIVER BEND 23 FEDERAL



PROVIDING SURVEYING SERVICES
SINCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



## LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 23 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1830' FSL & 1980' FEL

ELEVATION 3023'

POGO
OPERATOR PRODUCING COMPANY

LEASE RIVER BEND 23 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP PIERCE CANYON, N.M.

CONTOUR INTERVAL: PIERCE CANYON, N.M. - 10'



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 383-3117

#### APPLICATION TO DRILL

# POGO PRODUCING COMPANY RIVER BEND "23" FEDERAL # 16

UNIT "J"

SECTION 23

T24S-R29E

EDDY CO. NM

in response to questions asked under Section if of Bulletin Mil-o the following information on the above well is provided for your consideration.

- 1. Location: 1980' FSL & 1980' FEL SECTION 23 T24S-R29E EDDY CO. NM
- 2. Elevation above Sea Level: 3025' 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: 8200'
- 6. Estimated tops of geological markers:

Basal Anhydrite	2720'	Manzanita	3980'
Delaware Lime	3050	Brushy Canyon	5050
Bell Canyon	3075	Bone Spring	6700 <b>'</b>
Cherry Canyon	3830'	1st Bone Spring	77001

#### 7. Possible mineral bearing formations:

Manzanita

Oil

Bone Spring

0i1

#### 8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40	20"	NA	NA	NA	Conductor
17½''	0-600'	13 3/8"	48	8-R	ST&C	H-40
11"	0-3000'	8 5/8"	32	8-R	ST&C	J <b>-</b> 55
7 7/8"	0-8200'	5½''	17 & 15.5	8-R	LT&C	J-55

#### APPLICATION TO DRILL

POGO PRODUCING COMPANY
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY CO. NM

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

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 600' of 13 $3/8$ " $48\#$ H-40 ST&C casing. Cement with 250 Sx. of 65/35/6 Class "C" POZ/GEL, tail in with 200 Sx. of Class "C" cement + 2% CaCl, circulate cement.
8 5/8"	Intermediate	Set 3000' of 8 $5/8$ " $32\#$ J-55 ST&C casing. Cement with 600 Sx/ of Class "C" $65/35/6$ 00Z/GEL + $5\%$ Salt, tail in with 200 Sx. of Class "C" cement + $2\%$ CaCl circulate cement to surface.
5½"	Production	Set 8200' od $5\frac{1}{2}$ " as follows: 2200' 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 2 stages, DV Tool at $4500'\pm$ . Cement 1st stage with 650 Sx. of Class "C" cement $+8\#$ Gilsonite/Sx., 2nd stage cement with 600 Sx. of Class "C" cement $+6\#$ Gilsonite/Sx. Estimate top of cement 2000' from surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 2000 PSI working pressure B.O.P. consisting of Pipe Rams, Blind Rams, Pack Off, and a Bell Nipple. Exhibit "E-1 shows a 3000 PSI choke manifold. This B.O.P. will be nippled up on the 8 5/8" casing and remain on the hole to TD. After the B.O.P. is installed it will be tested to API specifications and will be operated at least once in each 24 hour period and blind rams will be operated when the drill pipe is out of hole. Full opening stabbing valve and kelly cock will be utilized. No abnormal pressures are expected in this well as none has been expierenced in this area. No abnormal temperatures are wxpected.

#### 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WI.	VISC.	FLUID LOSS	TYPE MUD
40-600'	8.4-8.7	29-32	NC	Fresh water Spud mud add paper to control seepage.
600-3000'	10.0-10.2	29-34	NC	Brine water add paper to control seepage and use high viscosity sweeps to clean hole.
3000-8200'	8.4-8.7	29–38	NC∻	Fresh water use high viscosity sweeps to clean hole.

<sup>\*</sup> In case water loss is required while drilling through the pay section or is needed in order to run logs, DST's and/or casing, go to a Dris-Pac system.

Sufficient mud materials to maintain mud properties, lost circulation, increased weight requirements, will be kept at the well site at all times. In order to run logs, casing, and DST's the viscosity and water loss may have to be altered. These mud materials will be on location.

#### APPLICATION TO DRILL

POGO PRODUCING COMPANY
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY CO. NM

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

- A. Open hole logs: Run Dual Induction, CNL, LDT, Gamma Ray, Caliper from TD back to the 8 5/8" casing shoe.
- B. Run Gamma Ray, Neutron logs from 8 5/8" casing shoe back to surface.
- C. No DST's or cores are planned at this time.
- D. Mud logger will be rigged up on hole at 3000'±.

#### 13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of  $\rm H^2S$  in this area. If  $\rm H^2S$  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 2500 PSI, and Estimated BHT 140°.

### 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 28 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" & "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  $\rm H_2S$  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.

POGO PRODUCING COMPANY
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY CO. NM

- 1. 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 Malaga New Mexico take CO Road 720 (Duarte Road) East 14.± miles to CO Road 746 (McDonald Raod) follow road to Pierce Crossing on the Pecos. Follow road North and East for approximately 2.5 miles to location on the North side of road. Turn North (Left) go 450'± to location.
  - C. Exhibit "C" shows possible route of flowline to existing tank battery.
- 2. PLANNED ACCESS ROADS: Approximately 450' 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"
  - 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
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY 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"C".

#### 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 13'. 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
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY 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 in certain circumstances to prevent inundation 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
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY CO. NM

#### 11. OTHER INFORMATION:

- A. Topography consists of relatively deep canyons with the drainage Westerly to the Pecos river. The soil up on the mesas is sandy with mesquite, yucca and native grasses.
- B. The surface is owned by The U.S. Department of Interior and is administered by The Bureau of Land Management. The surface is used for the grazing of livestock and the production of Oil & <u>Gas</u>.
- C. An archaeological survey will be conducted on the location and access roads. this report will be filed with the Bureau of Land Management Carlsbad Field office.
- D. There are no dwellings in the near vicinity of this location.

#### 12. OPERATIOR'S REPRESENTIVES:

#### Before Construction:

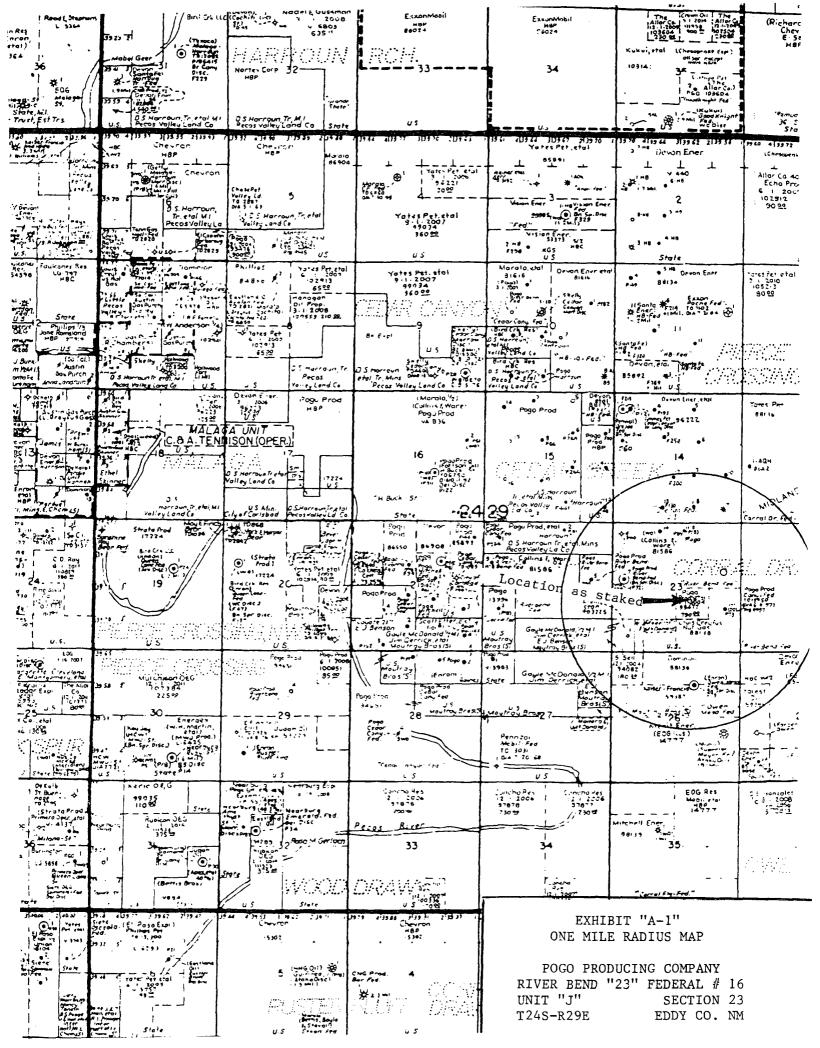
TIERRA EXPLORATION, INC. P.O. BOX 2188
HOBBS, NEW MEXICO 88241
OFFICE Ph. 505-391-8503
JOE T. JANICA

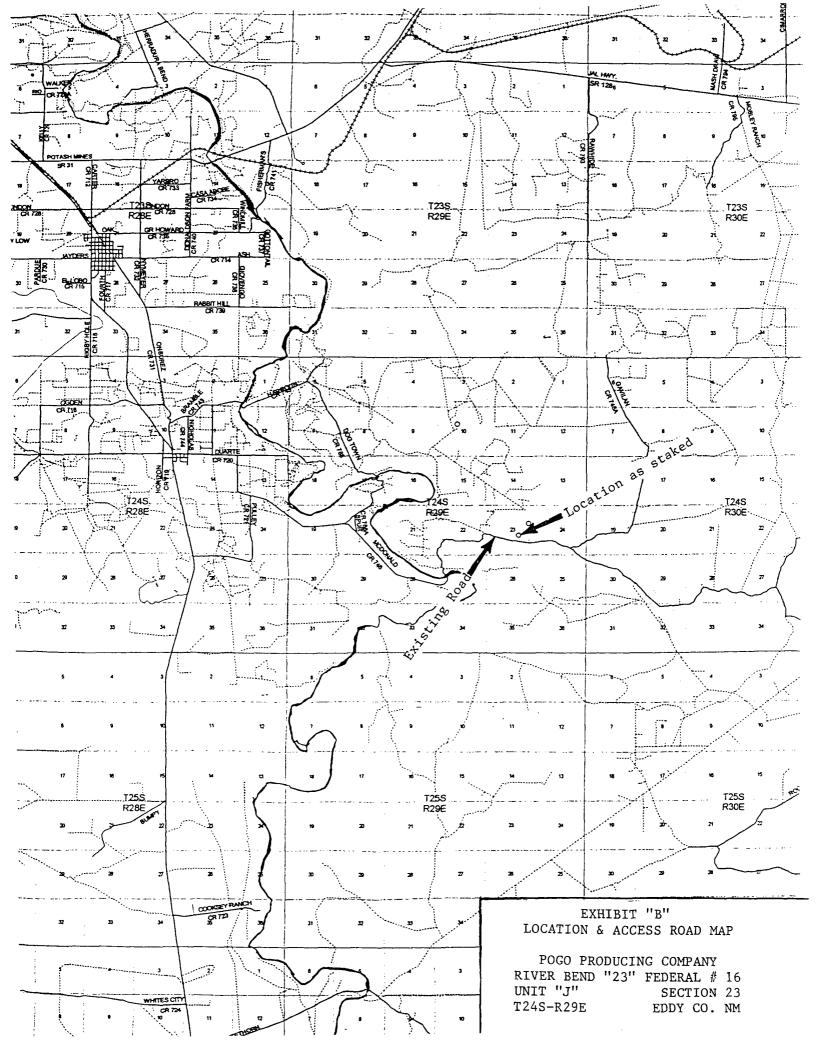
#### During and after Construction:

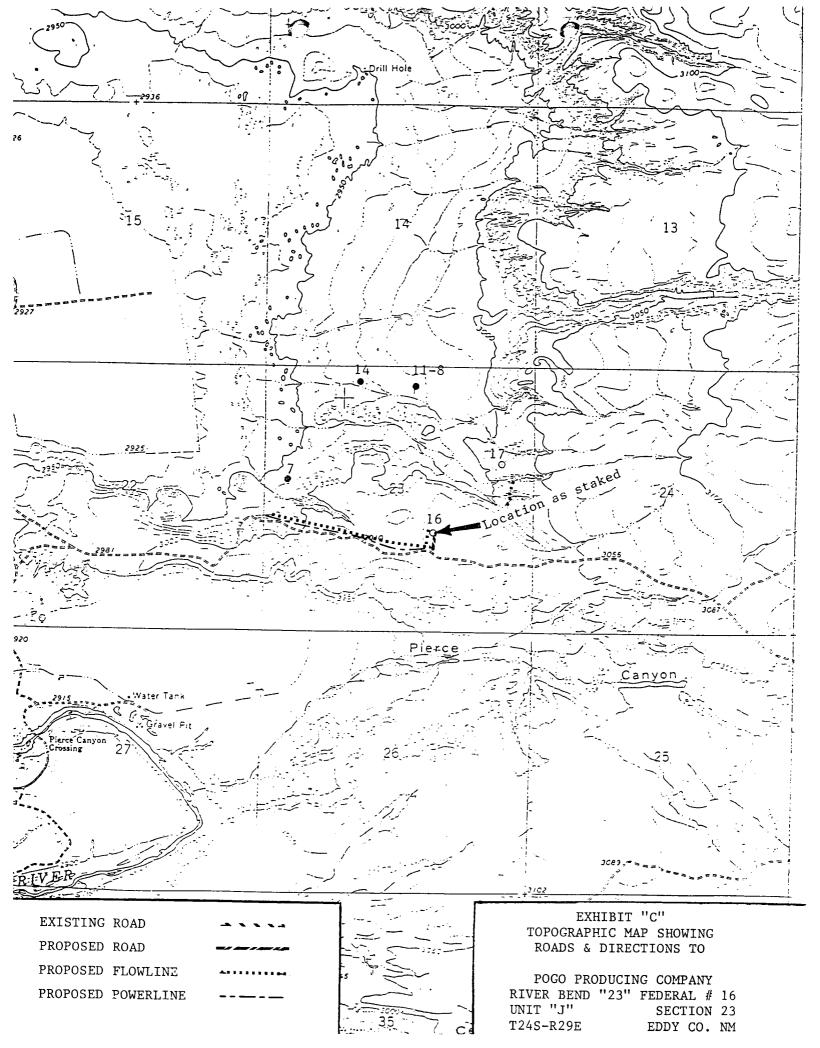
POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 RICHARD WRIGHT OFFICE Ph. 432-685-8140

13. CERTIFICATION: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and the access roads, and 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 confirmity 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.

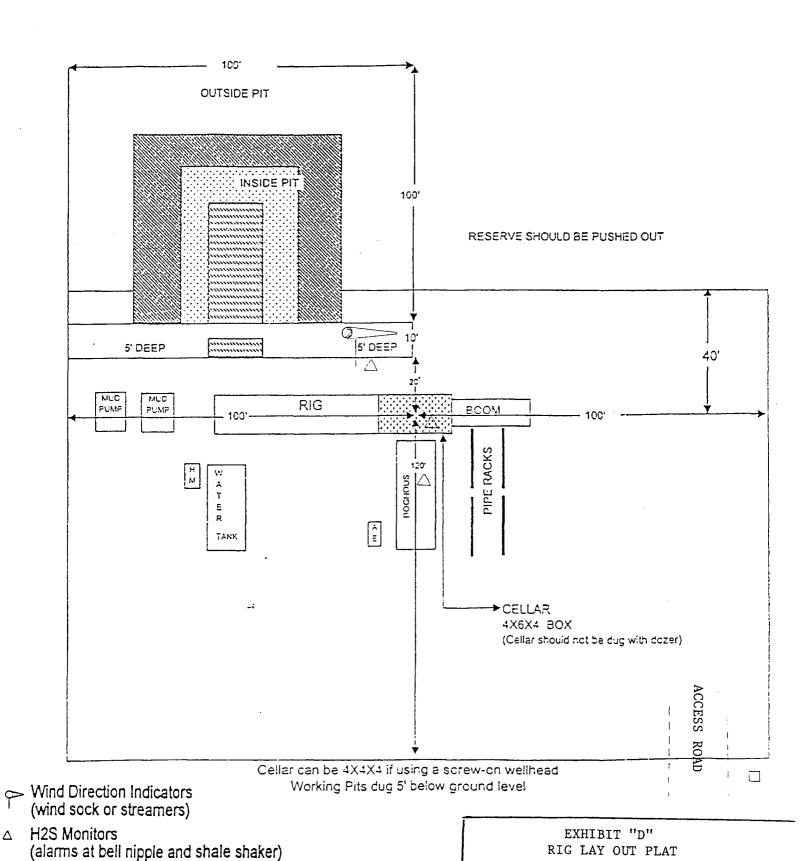
NAME	:Joe T. Janica /20-	oT lemica
DATE	: 08/17/04	
TITLE	: Agent	







### FOR EARTH PITS



Location Specs

POGO PRODUCING COMPANY

RIVER BEND "23" FEDERAL # 16

SECTION 23

EDDY CO. NM

UNIT "J"

T24S-R29E

**Briefing Areas** 

O Remote BOP Closing Unit

Sign and Condition Flags

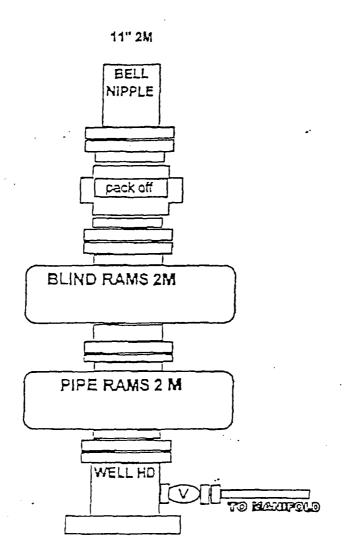


EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY CO. NM

#### 3000 PSI WP

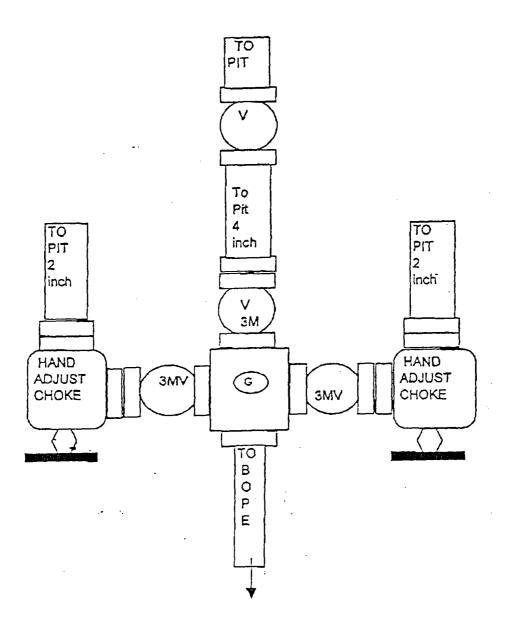


EXHIBIT "E-1"
SKETCH OF CHOKE MANIDOLD

POGO PRODUCING COMPANY
RIVER BEND "23" FEDERAL # 16
UNIT "J" SECTION 23
T24S-R29E EDDY CO. NM

#### SPECIAL DRILLING STIPULATIONS

#### THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's Name Pogo Producing Company	Well Name & No. 16-River Bend 23 Federal	
Location 1830 F S L & 1980 F E L Sec. 23  Lease No. NM-93477 County Eddy	, T. 24 S, R 29 E. State New Mexico	
conditioned upon compliance with such stipulations in addition	the above described well and approval of this application to drill is to the General Requirements. The permittee should be familiar with the eau of Land Management office. EACH PERMITTEE HAS THE RIGHT NS PURSUANT TO TITLE 43 CRF 3165.3 AND 3165.4.	
This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.		
I. SPECIAL ENVIRONMENT REQUIREMENTS		
( ) Lesser Prairie Chicken (stips attached) ( ) San Simon Swale (stips attached) ( )	Flood plain (stips attached) See attached archaeo Logical Other 5+ ipulations.	
II. ON LEASE - SURFACE REQUIREMENTS PRIOR	TO DRILLING	
(505) 393-3612, at least 3 working days prior to commencing of	by the ( Carlsbad Field Office at (505) 234-5972 ( ) Hobbs Office construction.	
(Roads and the drill pad for this well must be surfaced with determined to be a producer.	inches of compacted caliche upon completion of well and it is	
( ) All topsoil and vegetation encountered during the construct resurfacing of the disturbed area after completion of the drilling in depth. Approximatelycubic yards of topsoil material v		
(Wother. Flow Line of Power Line not au	thorized under this permit	
III. WELL COMPLETION REQUIREMENTS		
( ) A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.		
to a slope of 3:1 or less. All areas of the pad not necessary for p	oit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced production must be re-contoured to resemble the original contours of the eded with a drill equipped with a depth indicator (set at depth of ½ inch) PLS), per acre.	
Side Oats Grama (Bouteloua curtipendula) 5.0 Sand Dropseed (Sporobolus cryptandrus) 1.0	B. Seed Mixture 2 (Sandy Sites) Sand Dropseed (Sporobolus crptandrus) 1.0 Sand Lovegrass (Eragostis trichodes) 1.0 Plains Bristlegrass (Setaria magrostachya) 2.0	
Side oats Grama (Boute curtipendula) 1.0	D. Seed Mixture 4 (Gypsum Sites) Alkali Sacaton (Sporobollud airoides) Four-Wing Saltbush (Atriplex canescens) 5.0	
( ) OTHER SEE ATTACHED SEED MIXTURE		
Seeding should be done either late in the fall (September 15 - Notake advantage of available ground moisture.	ovember 15, before freeze up, or early as possible the following spring to	
( ) Other.		
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#### CONDITIONS OF APPROVAL - DRILLING

**Operator's Name:** 

POGO PRODUCING COMPANY

Well Name & No.

16 – RIVER BEND 23 FEDERAL

Location:

/830 1980' FSL & 1980' FEL - SEC 23 - T24S - R29E - EDDY COUNTY

Lease:

NM-93477

#### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

- A. Spudding
- B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 inch
- C. BOP tests
- 2 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing ( size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

#### II. CASING:

- 1. The <u>13-3/8</u> inch surface casing shall be set between <u>600 feet</u>, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the <u>8-5/8</u> inch salt protection casing is <u>circulate cement</u> to the surface.
- 3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall extend</u> <u>upward a minimum of 500 feet above the uppermost hydrocarbon bearing interval.</u>

#### III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) is 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

BLM Serial Number: NM-93477

Company Reference: Pogo Producing Company Well No. & Name: 16-River Bend 23 Federal

# STANDARD STIPULATIONS FOR PERMANENT RESOURCE ROADS CARLSBAD FIELD OFFICE

A copy of the grant and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application for Permit to Drill (APD) and/or Right-of-Way (ROW).

#### GENERAL REQUIREMENTS

- A. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- B. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- C. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- D. If, during any phase of the construction, operation, maintenance, or termination of the road, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all

damages to Federal lands resulting therefrom, the Authorized

Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

E. The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times.

The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

F. The Holder shall ensure that the entire right-of-way, including the driving surface, ditching and drainage control structures, road verges and any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar.

Holder agrees to comply with the following stipulations:

#### ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10 percent unless the box below is checked. Maximum width of surface disturbance from construction will be 30 feet.

/\_\_/ Those segments of road where grade is in excess of 10% for more than 300 feet shall be designed by a professional engineer.

#### CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

Ditching will be required on both sides of the roadway as shown on the attached map or as staked in the field.

/\_\_/ Flat-blading is authorized on segment(s) delineated on the attached map.

#### 3. DRAINAGE

Drainage control shall be ensured over the entire road through the use of borrow ditches, outsloping, insloping, natural rolling topography, lead-off (turnout) ditches, culverts, and/or drainage dips.

A. All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval for lead-off ditches shall be determined according to the following table, but may be amended depending upon existing soil types and centerline road slope (in %):

SPACING INTERVAL FOR TURNOUT DITCHES

Percent slope	Spacing interval
0% - 4%	400' - 150'
4% - 6%	250' - 125'
6% - 8%	200' - 100'
8% - 10%	150' - 75'

A typical lead-off ditch has a minimum depth of 1 foot below and a berm 6 inches above natural ground level. The berm will be on the down-slope side of the lead-off ditch. The ditch end will tie into vegetation whenever possible.

For this road the spacing interval for lead-off ditches shall be at

/\_x\_/ 400 foot intervals.
\_\_
/\_\_/ foot intervals.

 $/\_/$  locations staked in the field as per spacing intervals above.

/\_\_/ locations delineated on the attached map.

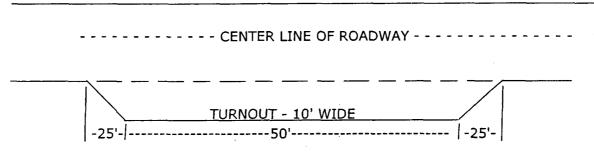
- B. Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The minimum culvert diameter must be 18 inches. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water. Culvert location and required diameter are shown on the attached map (Further details can be obtained from the Roswell District Office or the appropriate Resource Area Office).
- C. On road slopes exceeding 2%, drainage dips shall drain water into an adjacent lead-off ditch. Drainage dip location and spacing shall be determined by the formula:

spacing interval = 
$$\frac{400'}{\text{road slope in }\%}$$
 + 100'

Example: 4% slope: spacing interval = 400 + 100 = 200 feet

#### 4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:



STANDARD TURNOUT - PLAN VIEW

#### SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less

than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

A sales contract for the removal of mineral materials (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to using any such mineral material from public lands. Contact the BLM solid minerals staff for the various options to purchase mineral material.

#### 6. CATTLEGUARDS

Where used, all cattleguard grids and foundation designs and construction shall meet the American Association of State Highway and Transportation Officials (AASHTO) Load Rating H-20, although AASHTO U-80 rated grids shall be required where heavy loads (exceeding H-20 loading), are anticipated (See BLM standard drawings for cattleguards). Cattleguard grid length shall not be less than 8 feet and width of not less than 14 feet. A wire gate (16-foot minimum width) will be provided on one side of the cattleguard unless requested otherwise by the surface user.

#### 7. MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

#### 8. PUBLIC ACCESS

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the Authorized Officer.

#### CULTURAL RESOURCES

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the authorized officer after consulting with the holder.

### 10. SPECIAL STIPULATIONS: None