

1301 W. Grand

SUBMIT IN TRIPPLICATE\*

(Other instructions on reverse side)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> SUBJECT TO LIKE APPROVAL BY STATE <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM-15303	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----	
2. NAME OF OPERATOR 17891 POGO PRODUCING COMPANY (RICHARD WRIGHT 432-685-8140)			7. UNIT AGREEMENT NAME -----	
3. ADDRESS AND TELEPHONE NO. P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (432-685-8100)			8. FARM OR LEASING UNIT NO. BRADLEY "13" FED. # 5-H	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FNL & 2310' FWL SECTION 13 T25S-R29E EDDY CO. NM SEP 23 2005 At proposed prod. zone 660' FNL & 330' FWL SECTION 13 T25S-R29E EDDY CO. NM			9. APPROX. DATE WORK WILL START 30-015-34358	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Approximately 10 miles Southeast of Malaga New Mexico			10. FIELD AND POOL, OR WILDCAT Com'l. DRAW-DELAWARE, West	
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 330'			11. T. R. M., OR BLK. AND SURVEY OR AREA 13365	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 990'			12. COUNTY OR PARISH EDDY CO.	
16. NO. OF ACRES IN LEASE 640			13. STATE New Mexico	
17. NO. OF ACRES ASSIGNED TO THIS WELL 80			19. PROPOSED DEPTH TVD 5800' MD 6360'	
20. ROTARY OR CABLE TOOL ROTARY			21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3131' GR.	
22. APPROX. DATE WORK WILL START WHEN APPROVED				
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	Conductor 20"	NA	40'	Redi-mix cement to surface
17 1/2"	H-40 13 3/8"	48#	750'	750 Sx. circulate cement TS
11"	J-55 8 5/8"	32#	3250'	900 Sx. " " "
7 7/8"	N-80 & J-55 5 1/2"	17#	MD-6370'	800 Sx. estimate TOC 2500'

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix. CARLSBAD CONTROLLED WATER BASIN
2. Drill 17 1/2" hole to 750'. Run and set 750' of 13 3/8" 48# H-40 ST&C casing. Cement with 750 Sx. of Class "C" cement + 2% CaCl<sub>2</sub> + 1# Flocele/Sx. circulate cement to surface.
3. Drill 11" hole to 3250'. Run and set 3250' of 8 5/8" 32# J-55 ST&C casing. Cement with 900 Sx. of Class "C" cement + additives, circulate cement to surface.
4. Drill 7 7/8" hole to 5800'. Run Gyro and log well, plug hole back to 4860'±. Start drilling curve and drill lateral to a measured depth of 6370'±, TVD of 5030'±. Run and set 6370' of 5 1/2" casing as follows: 1570' of 5 1/2" 17# L-80 BTC, 4800' of 5 1/2" 17# J-55 LT&C casing. Cement with 800 Sx. of Class "C" cement + additives estimate top of cement 2500' from surface.

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. SIGNED Joe T. Jennica TITLE Agent APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED DATE 09/01/05

(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 title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Joe G. Lara TITLE ACTING FIELD MANAGER DATE SEP 22 2005

APPROVAL FOR 1 YEAR

\*See Instructions On Reverse Side

# State of New Mexico

Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

### DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

### WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code <b>13365</b>	Pool Name <b>CORRAL DRAW, Delaware West</b>
Property Code	Property Name <b>BRADLEY 13 FEDERAL</b>	Well Number <b>5H</b>
OGRID No. <b>17891</b>	Operator Name <b>POGO PRODUCING COMPANY</b>	Elevation <b>3131'</b>

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	25-S	29-E		660	NORTH	2310	WEST	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
D	13	25-S	29-E		660	NORTH	330	WEST	EDDY

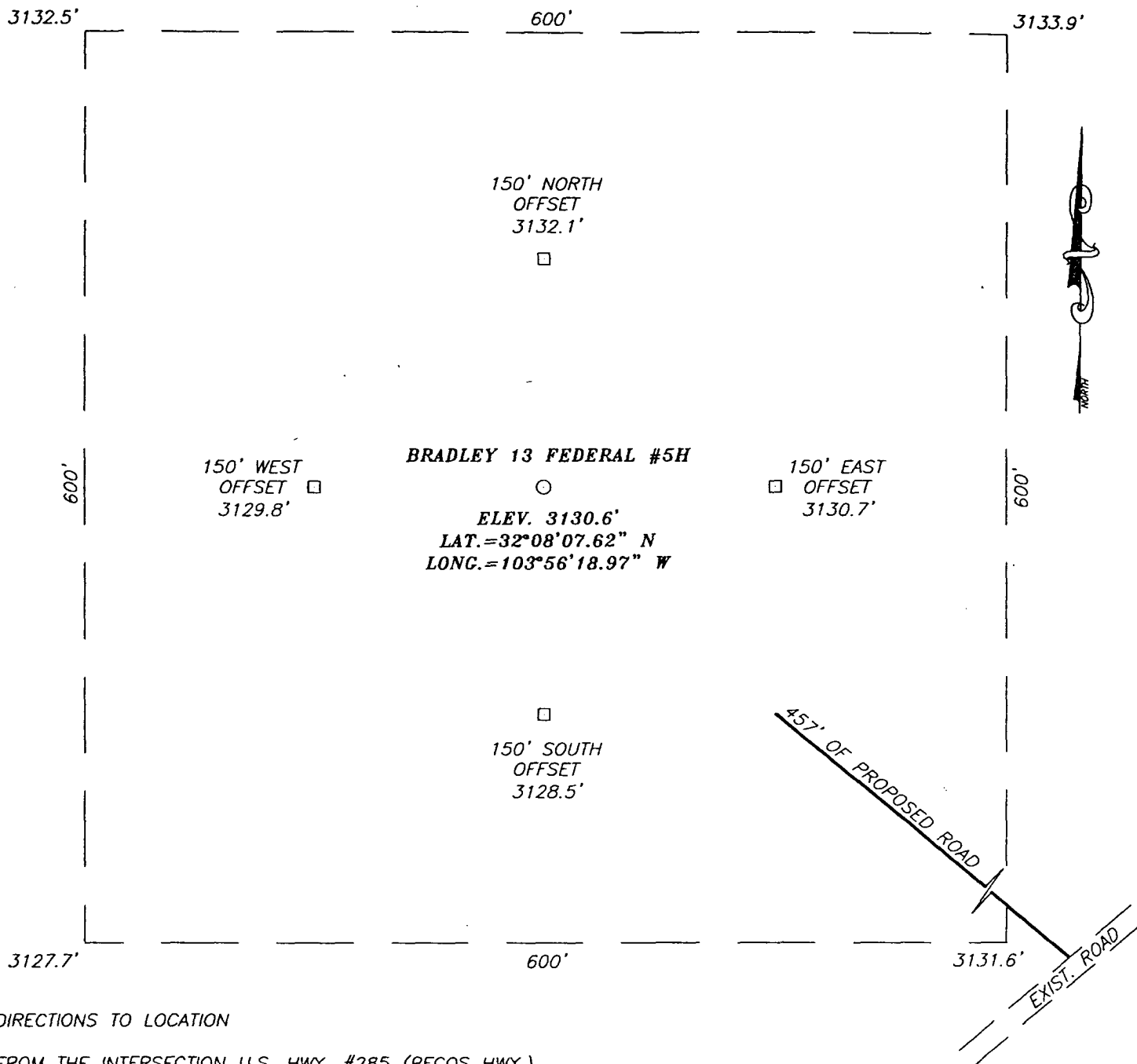
Dedicated Acres <b>80</b>	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=413222.3 N X=622184.4 E</p> <p>LAT.=32°08'07.62" N LONG.=103°56'18.97" W</p>	<h4>OPERATOR CERTIFICATION</h4> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Joe T. Janica</i> Signature Joe T. Janica Printed Name Agent Title 09/01/05 Date</p>
<p>BOTTOM HOLE LOCATION Y=413196.9 N X=620204.9 E</p>		<h4>SURVEYOR CERTIFICATION</h4> <p>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 supervision, and that the same is true and correct to the best of my belief.</p> <p>AUGUST 4, 2005</p> <p>Date Surveyed Signature &amp; Seal of Professional Surveyor <i>GARY E. ELLISON</i> GARY E. ELLISON 12641 05.11.1219 Certification No. GARY ELLISON 12641</p>

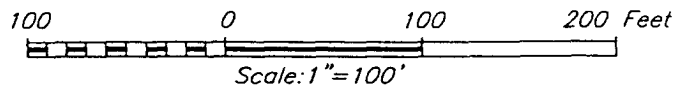
EXHIBIT "A"

**SECTION 13, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.,**  
**EDDY COUNTY, NEW MEXICO**



**DIRECTIONS TO LOCATION**

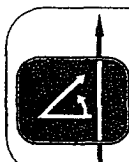
FROM THE INTERSECTION U.S. HWY. #285 (PECOS HWY.) AND CO. RD. #725 (WHITEHORN RD.) GO WEST-NORTHWEST ON CO. RD. #725 FOR APPROX. 3.8 MILES TO A "Y" INTERSECTION. TURN LEFT AND GO NORTHEAST APPROX. 1.8 MILES TO A "Y" INTERSECTION. TURN LEFT AND GO NORTH APPROX. 2.25 MILES TO A "Y" INTERSECTION. TURN RIGHT AND GO NORTHEAST APPROX. 1.8 MILES. CONTINUE GOING EAST APPROX. 0.8 MILES TO THE BRADLEY 13 FEDERAL #1. CONTINUE GOING NORTHEAST APPROX. 0.5 MILES. THIS WELL IS APPROX. 680 FEET NORTH-NORTHWEST IN PASTURE.



**POGO PRODUCING COMPANY**

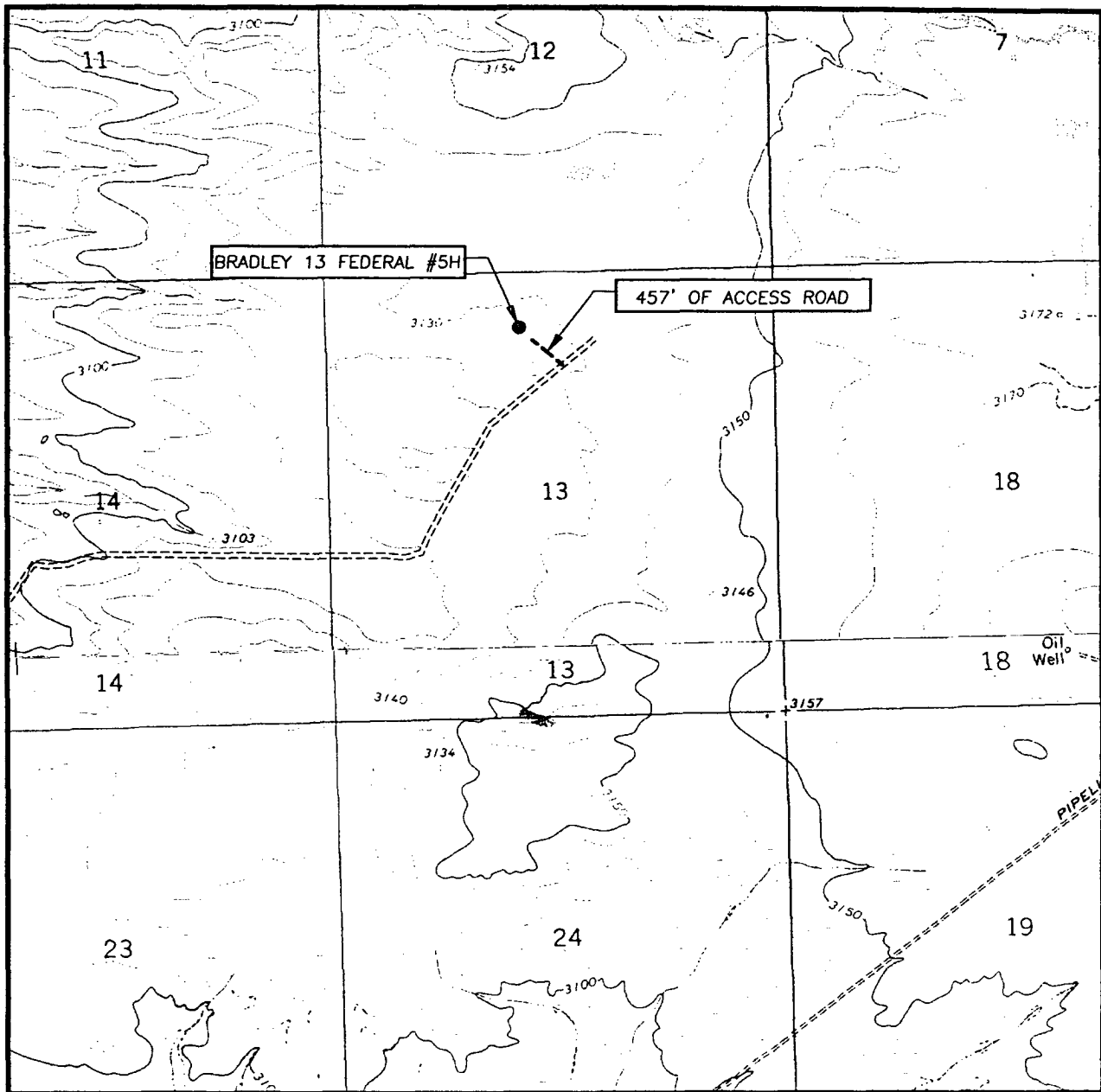
BRADLEY 13 FEDERAL #5H WELL  
 LOCATED 660 FEET FROM THE NORTH LINE  
 AND 2310 FEET FROM THE WEST LINE OF SECTION 13,  
 TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.,  
 EDDY COUNTY, NEW MEXICO.

Survey Date: 8/2/05	Sheet 1 of 1 Sheets
W.O. Number: 05.11.1219	Dr By: LA
Date: 8/5/05	Rev 1: N/A
Disk: CD#4	05111219
Scale: 1"=100'	



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

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'  
PIERCE CANYON, N.M.  
ROSS RANCH, N.M.

SEC. 13 TWP. 25-S RGE. 29-E

SURVEY \_\_\_\_\_ N.M.P.M. \_\_\_\_\_

COUNTY \_\_\_\_\_ EDDY \_\_\_\_\_

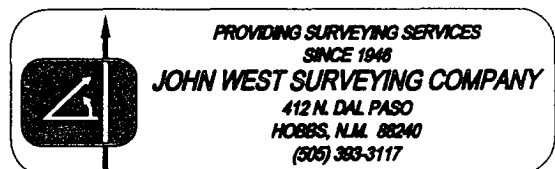
DESCRIPTION 660' FNL & 2310' FWL

ELEVATION \_\_\_\_\_ 3131' \_\_\_\_\_

OPERATOR POGO PRODUCING COMPANY

LEASE BRADLEY 13 FEDERAL

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



# APPLICATION TO DRILL

POGO PRODUCING COMPANY  
BRADLEY "13" FEDERAL # 5  
SHL UNIT "C" SECTION 13  
BHL UNIT "D" SECTION 13  
T25S-R29E EDDY 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 of well: 660' FNL & 2310' FWL SECTION 13 T25S-R29E
2. Ground Elevation above Sea Level: 3131' GR.
3. Geological age of surface formation: Quaternary Deposits:
4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium to remove solids from hole.
5. Proposed drilling depth: MD-6370' TVD-5800'
6. Estimated tops of geological markers:

Basal Anhydrite	3100'	Cherry Canyon	4240'
Delaware Lime	3320'	Brushy Canyon	5550'
Bell Canyon	3350'	TD	5800' MD

7. Possible mineral bearing formations:

Brushy Canyon	Oil
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8. Casing Program:

Hole Size	Interval	OD of Casing	Weight	Thread	Collar	Grade
26"	0-40	20"	NA	NA	NA	Conductor
17½"	0-750'	13 3/8"	48#	8-R	ST&C	H-40
11"	0-3250'	8 5/8"	32#	8-R	ST&C	J-55
7 7/8"	0-6370 MD	5½"	17#	BUTRESS 8-R	BTC LT&C	L-80 J-55

# APPLICATION TO DRILL

POGO PRODUCING COMPANY  
BRADLEY "13" FEDERAL # 5  
SHL UNIT "C" SECTION 13  
BHL UNIT "D" SECTION 13  
T25S-R29E EDDY CO. NM

## 9. CEMENTING & CASING SETTING DEPTHS:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 750' of 13 3/8" H-40 48# ST&C casing. Cement with 750 Sx. of Class "C" cement + 2% CaCl, + 1/4# Flocele/Sx. Circulate cement to surface.
8 5/8"	Intermediate	Set 3250' of 8 5/8" 32# J-55 ST&C casing. Cement with 900 Sx. of Class "C" cement + additives, circulate cement to surface.
5 1/2"	Production	Set 6370' of 5 1/2" casing as follows: 1570' of 5 1/2" 17# BTC L-80, 4800' of 17# J-55 LT&C casing. Cement with 800 Sx. of Class "C" cement + additives, estimate TOC 2500' from surface.

## 10. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 2000 PSI working pressure B.O.P., consisting of a stripper head instead of an annular preventor, blind rams, and pipe rams. This B.O.P. stack is being used because of Substructure height limitations of the drilling rig being used to drill this well. Pressures encountered during drilling are not expected to exceed 2000 PSI at total depth. Pogo requests permission to 3rd party test of the B.O.P., after setting intermediate casing at 3250'. The B.O.P. will be tested according to API specifications. Exhibit "E-1" shows a manually operated choke manifold, as no remote B.O.P. equipment will be necessary.

## 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD
40-750'	8.4-8.7	29-34	NC	Fresh water Spud Mud use paper to control seepage.
750-3250'	10.0-10.2	29-38	NC	Brine water use paper to control seepage and high viscosity sweeps to clean hole.
3250-6370'	8.3-8.7	29-40	NC*	Fresh water mud system fresh water Gel to control viscosity use high viscosity sweeps to clean hole, Polymer system to control WL

\* In order to run logs and casing water loss may have to be controled if this is necessary use aPolymer mud system to control water loss.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run casing, logs and DST's the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY  
BRADLEY "13" FEDERAL # 5  
SHL UNIT "C" SECTION 13  
BHL UNIT "D" SECTION 13  
T25S-R29E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Induction, CNL, LDT, MICROSFL, Gamma Ray, Caliper from 5800' back to 8 5/8" casing shoe, run gyro. Run gamma ray to surface.
- B. No DST's or Cores are planned at this time.
- C. Mud logger may be placed on the hole at the Geologist's advice.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H<sup>2</sup>S in this area. If H<sup>2</sup>S 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 2400± 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 40 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 Bryshy Canyon formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialized as an oil well.

## HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

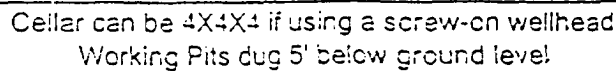
1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and 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.



## 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  $H_2S$  is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with  $H_2S$  scavengers if necessary.

## Capital Company, Inc.



- ## Location Specs

POGO PRODUCING COMPANY  
BRADLEY "13" FEDERAL # 5  
SHL UNIT "C" SECTION 13  
BHL UNIT "D" SECTION 13  
T25S-R29E EDDY CO. NM

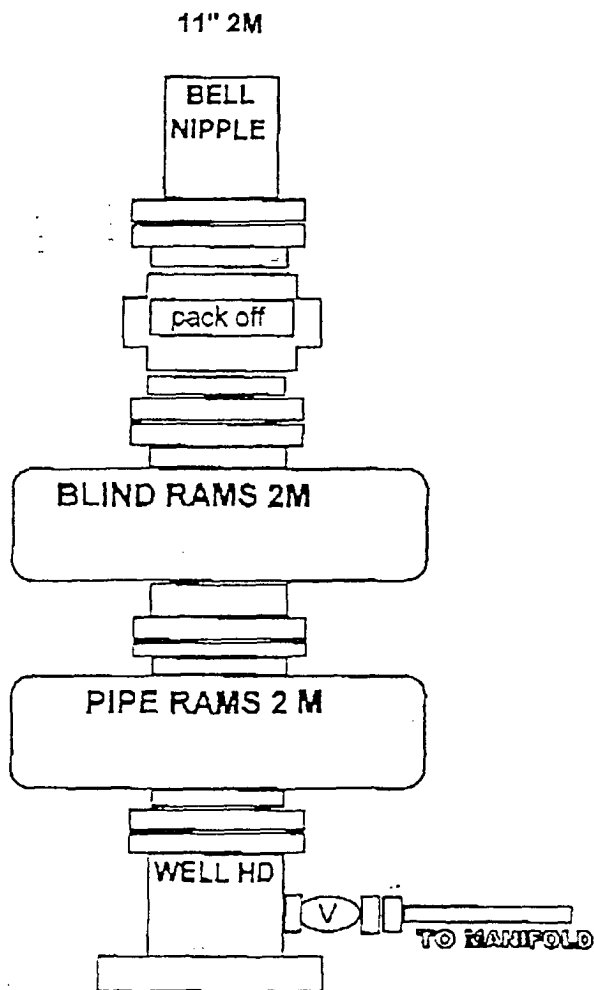


EXHIBIT "E"  
 SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY  
 BRADLEY "13" FEDERAL # 5  
 SHL UNIT "C" SECTION 13  
 BHL UNIT "D" SECTION 13  
 T25S-R29E EDDY CO. NM

# CHOKE MANIFOLD

3000 PSI WP

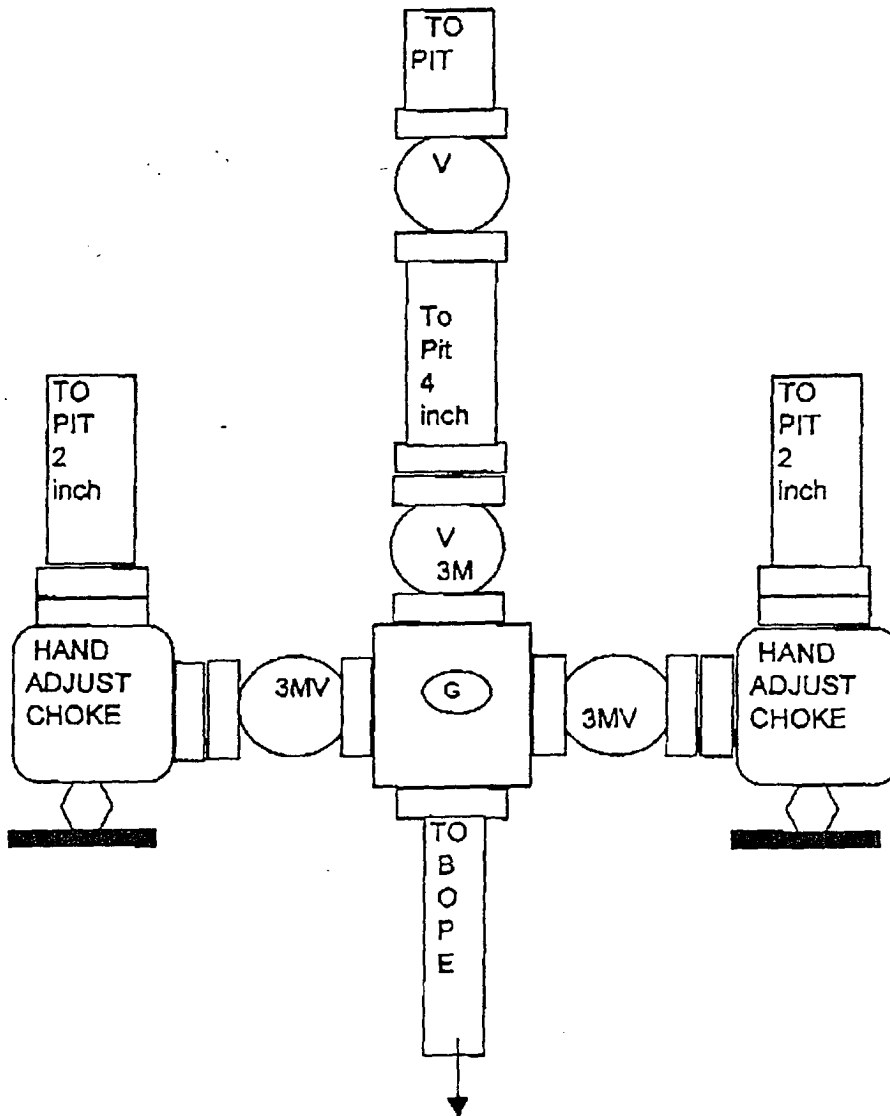


EXHIBIT "E-1"  
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY  
BRADLEY "13" FEDERAL # 5  
SHL UNIT "C" SECTION 13  
BHL UNIT "D" SECTION 13  
T25S-R29E EDDY CO. NM

AFE BRADLEY 13 FD # 5 HORIZI.xls

MITCHELL ENGINEERING PROGRAMS

COPYRIGHT 1990 MITCHELL ENGINEERING, PO BOX 1492, GOLDEN, CO. 80402, USA (303) 273 3744

**LONG'S METHOD OF SURVEY COMPUTATION****OBLIQUE CIRCULAR ARC INTERPOLATION**

5800	MD OF INTERPOLATION DEPTH (feet)
5340.08	TVD COORDINATE OF THE DEPTH (feet)
0.00	N/S COORDINATE OF DEPTH (feet)
-667.37	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

**DISTANCE TABLE**

STATION A	STATION B
400.00	600.00
300.00	400.00
100.00	300.00
300.00	ft

**TABLE OF SURVEY STATIONS**

Calculator =

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+S- ft	E+W- ft	DLS deg/100FT
1	TIE POINT =>	0	0	4860.00	4860.00	0.00	0.00	-
2	100	12	270	4960.00	4959.27	0.00	-10.43	12.00
3	100	24	270	5060.00	5054.20	0.00	-41.28	12.00
4	100	36	270	5160.00	5140.65	0.00	-91.19	12.00
5	100	48	270	5260.00	5214.83	0.00	-157.98	12.00
6	100	60	270	5360.00	5273.50	0.00	-238.73	12.00
7	100	72	270	5460.00	5314.10	0.00	-329.92	12.00
8	100	84	270	5560.00	5334.85	0.00	-427.56	12.00
9	100	90	270	5660.00	5340.08	0.00	-527.37	6.00
10	100	90	270	5760.00	5340.08	0.00	-627.37	0.00
11	100	90	270	5860.00	5340.08	0.00	-727.37	0.00
12	100	90	270	5960.00	5340.08	0.00	-827.37	0.00
13	100	90	270	6060.00	5340.08	0.00	-927.37	0.00
14	100	90	270	6160.00	5340.08	0.00	-1027.37	0.00
15	100	90	270	6260.00	5340.08	0.00	-1127.37	0.00
16	100	90	270	6360.00	5340.08	0.00	-1227.37	0.00
17	100	90	270	6460.00	5340.08	0.00	-1327.37	0.00
18	100	90	270	6560.00	5340.08	0.00	-1427.37	0.00
19	100	90	270	6660.00	5340.08	0.00	-1527.37	0.00
20	100	90	270	6760.00	5340.08	0.00	-1627.37	0.00
21	100	90	270	6860.00	5340.08	0.00	-1727.37	0.00
22	100	90	270	6960.00	5340.08	0.00	-1827.37	0.00
23	100	90	270	7060.00	5340.08	0.00	-1927.37	0.00
24	52	90	270	7112.00	5340.08	0.00	-1979.37	0.00

**BRADLEY 13 FED # 5 HORIZONTAL****PROCEDURE:****STEP DESCRIPTION**

1	MIRU DRILLING TOOLS.
2	SET 13 3/8" SURFACE CASING @ $\pm 750'$ . CEMENT TO SURFACE.
3	SET 8 5/8" INTERMEDIATE CASING @ $\pm 3250'$ . CEMENT TO SURFACE.
4	DRILL 7 7/8" HOLE TO KOP @ $\pm 5800'$ . LOG WELL. RUN GYRO. TIH OPEN ENDED TO CEMENT.
5	SPOT CEMENT PLUG FROM TD TO $\pm 4500$
6	TIH W/ DRILLING TOOLS & DRESS CEMENT TO KOP OF $\pm 4860$ . POH
7	P/U DIRECTIONAL TOOLS. TIH W/ SAME TO KOP OF 4860'.
8	DRILL CURVE W/ BUILD 12° PER 100' TO TVD $\pm 5030'$ . POH. P/U 7 7/8" BIT DRILL LATERAL $\pm 1550'$ .
9	POH W/ DIRECTIONAL TOOLS & RUN 5 1/2" PRODUCTION CASING TO END OF LATERAL. USE RIDGID CENTRALIZERS ON CASING.
10	CEMENT CASING AS PER RECOMMENDATION.
11	R/D M/O DRILLING TOOLS. MIRU WELL SERVICE UNIT.
12	RIH W/ 2 3/8" TUBING TO END OF LATERAL. CIRCULATE 2% KCL FW & SPOT ACEDIC ACID. POH.
13	RIH W/ TCP GUN. PERF & ACIDIZE LATERAL AS SHOWN BY GEOLOGICAL / ELY SELECTIONS. POH.
14	N/D BOP'S. N/U FRAC VALVE. PREP TO FRAC.
15	R/U FRAC EQUIPMENT & FRAC WELL DOWN 5 1/2" CASING AS PER ELY RECOMMENDATION.
16	FLOW BACK FRAC AS PER ELY RECOMMENDATION.
17	IF WELL FAILS TO FLOW. RIH W/ NOTCHED COLLAR & 2 3/8" TUBING & CLEAN OUT TO TOE.
18	P/U EOT TO KOP. SWAB TEST FOR EVALUATION. PUT WELL ON ROD PUMP.

## CONDITIONS OF APPROVAL - DRILLING

Operator's Name: POGO Producing Company  
Well Name & No. Bradley 13 Federal #5H  
SH Location: 660' FNL, 2310' FWL, Section 13, T. 25 S., R. 29 E., Eddy County, New Mexico  
BH Location: 660' FNL, 330' FWL, Section 13, T. 25 S., R. 29 E., Eddy County, New Mexico  
Lease: NM-15303

### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

A. Well spud

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 13-3/8 inch surface casing shall be set at approximately 750 feet 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 8-5/8 inch intermediate casing is to be circulated to the surface.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is to reach at least 500 feet above the top of the uppermost hydrocarbon productive interval.

### 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 8-5/8 inch intermediate 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) shall be 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.

9/13/2005

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