

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | | |
|--|--|--------------------------|---|
| Operator Name and Address. Pogo Producing Company P.O. Box 10340 Midland, Texas 79702 | | RECEIVED FEB - 6 1997 | ² OGRID Number 017891 |
| ⁴ Property Code 17565 | ³ Property Name Harroun "15" | | ⁵ API Number 30-015-29373 |
| | | | ⁶ Well No. 6 |

| ⁷ Surface Location | | | | | | | | | |
|-------------------------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| G | 15 | 24S | 29E | | 1650 | North | 1650 | East | Eddy |

| ⁸ Proposed 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 |
| ⁹ Proposed Pool 1 Pierre Crossing, Bone Spring, East | | | | | ¹⁰ Proposed Pool 2 | | | | |

| | | | | |
|-----------------------------------|---------------------------------------|---|--|---|
| ¹¹ Work Type Code N | ¹² Well Type Code O | ¹³ Cable/Rotary R | ¹⁴ Lease Type Code S | ¹⁵ Ground Level Elevation 2937' |
| ¹⁶ Multiple S | ¹⁷ Proposed Depth 9200' | ¹⁸ Formation Bone Springs | ¹⁹ Contractor To be selected | ²⁰ Spud Date Upon Approval |

| ²¹ Proposed Casing and Cement Program | | | | | |
|--|-------------|--------------------|---------------|-----------------|---------------|
| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
| 17-1/2" | 13-3/8" | 54.5# J-55 | 500' | 500sx | Surface |
| 12-1/4" | 8-5/8" | 24 & 32# J-55 | 3000' | 900sx | Surface |
| 7-7/8" | 5-1/2" | 17 # J-55 | 8000' | 1200SX | 2000' |
| | | | | | |
| | | | | | |

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This proposed well is a Delaware/Bone Springs Test.

B.O.P. Sketch is attached.

EXP. 10 9
12-4-97

| | | | |
|---|--|--|--|
| ²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>James M.C. Ritchie, Jr.</i> | | OIL CONSERVATION DIVISION | |
| Printed name: James M.C. Ritchie, Jr. | | Approved by: <i>Jim W. [Signature]</i> B6A | |
| Title: Agent | | Title: District Supervisor | |
| Date: 02/05/97 | | Approval Date: 2-7-97 | |
| Phone: (915) 682-6601 | | Expiration Date: 2-7-98 | |
| | | Conditions of Approval: Attached <input type="checkbox"/> | |

P.O. Box 1980, Hobbs, NM 88241-1980

Energy, Minerals and Natural Resources Department

Revised February 10, 1994

State Lease - 4 Copies

Fee Lease - 3 Copies

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P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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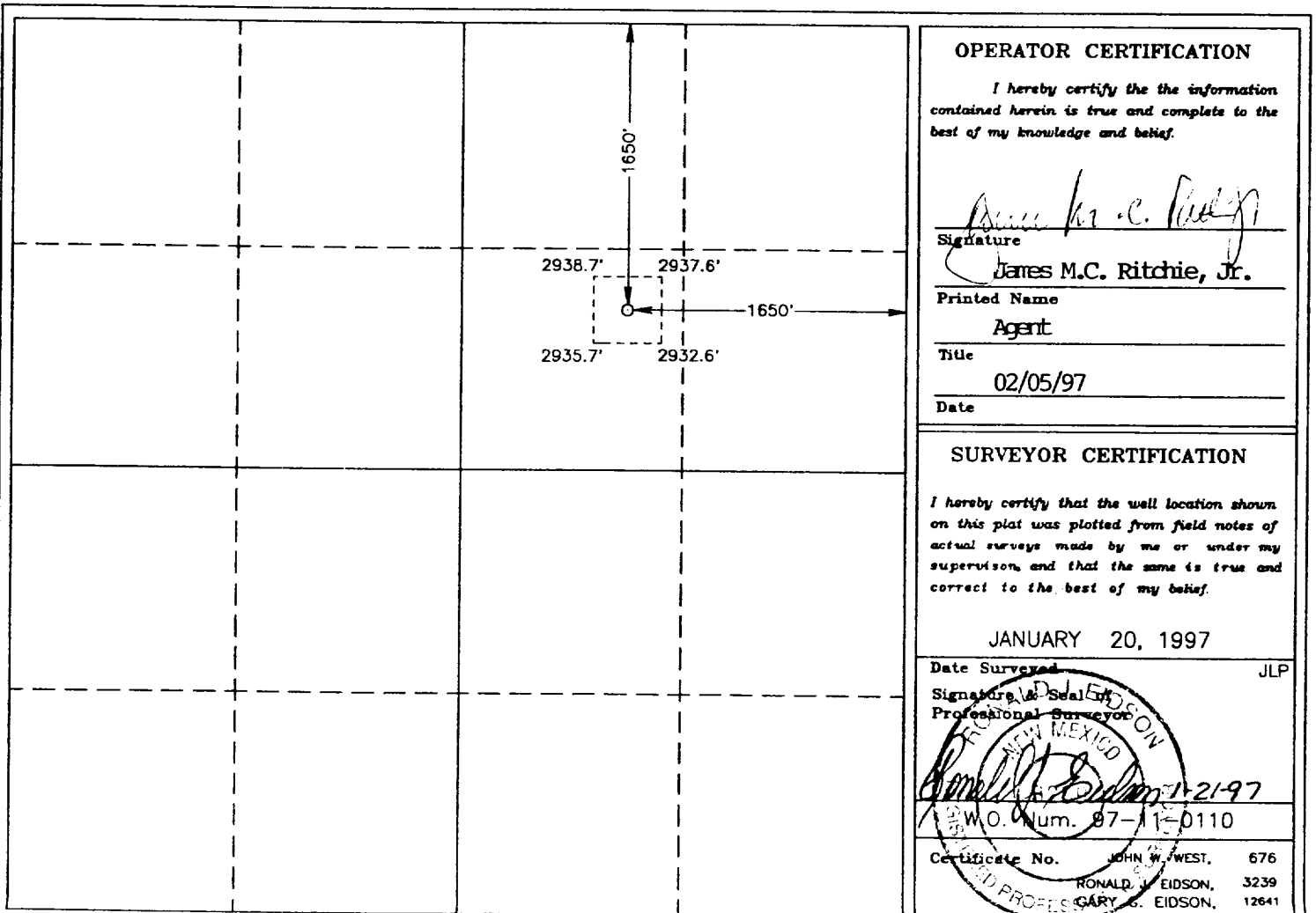
☐ AMENDED REPORT

| | | |
|----------------------------|---|---|
| API Number 30-015-29373 | Pool Code 96473 | Pool Name Pierce Crossing, East (B.S.) |
| Property Code | Property Name HARROUN 15 | Well Number 6 |
| OGRID No. 017891 | Operator Name POGO PRODUCING COMPANY | Elevation 2937 |

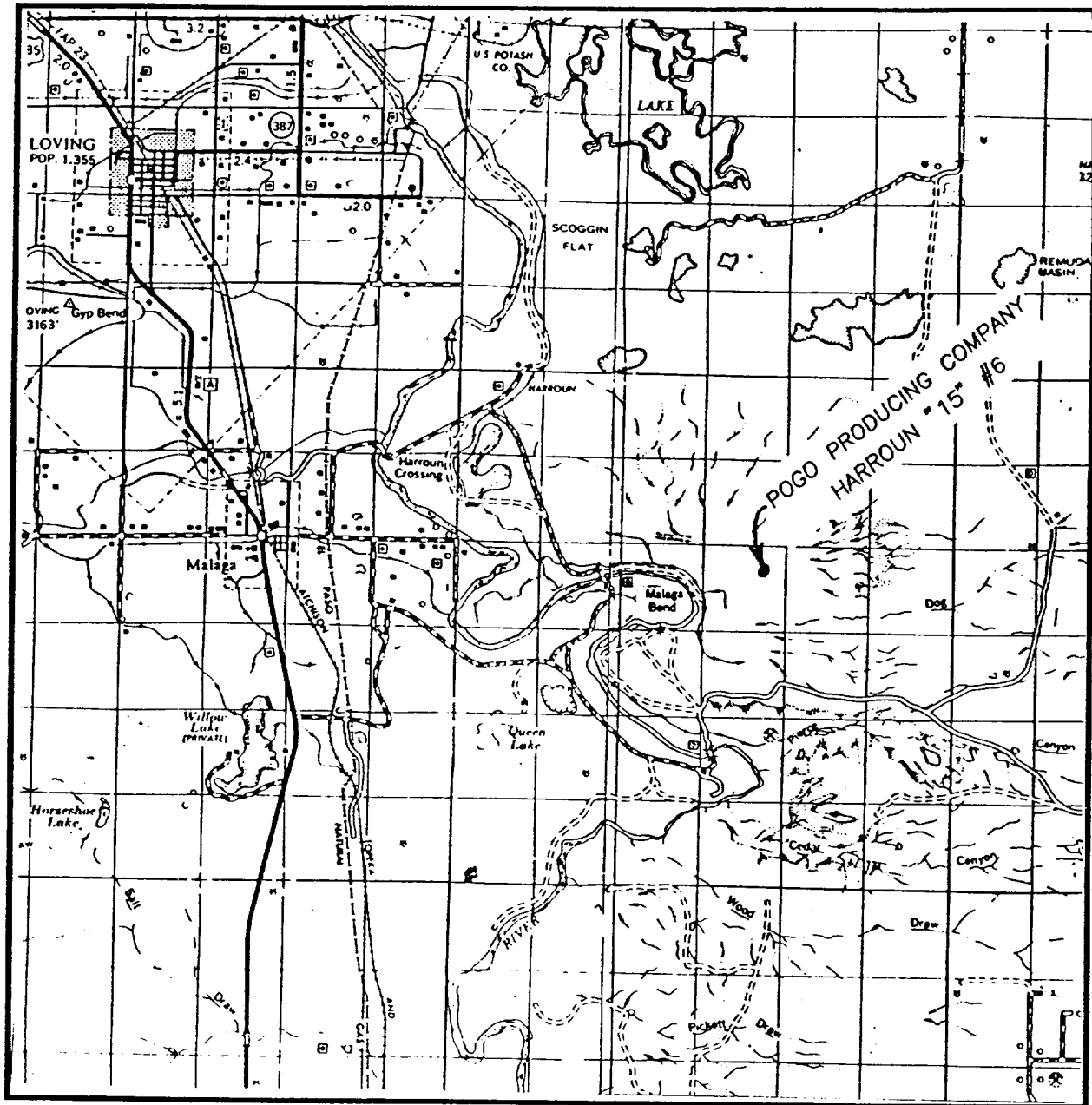
| | | | | | | | | | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| G | 15 | 24 S | 29 E | | 1650 | NORTH | 1650 | EAST | EDDY |

| | | | | | | | | | |
|-----------------------|-----------------|--------------------|-------|-----------|---------------|------------------|---------------|----------------|--------|
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| Dedicated Acres 40 | Joint or Infill | Consolidation Code | | Order No. | | | | | |

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



VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 15 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1650' FNL & 1650' FEL

ELEVATION 2937'

OPERATOR POGO PRODUCING COMPANY

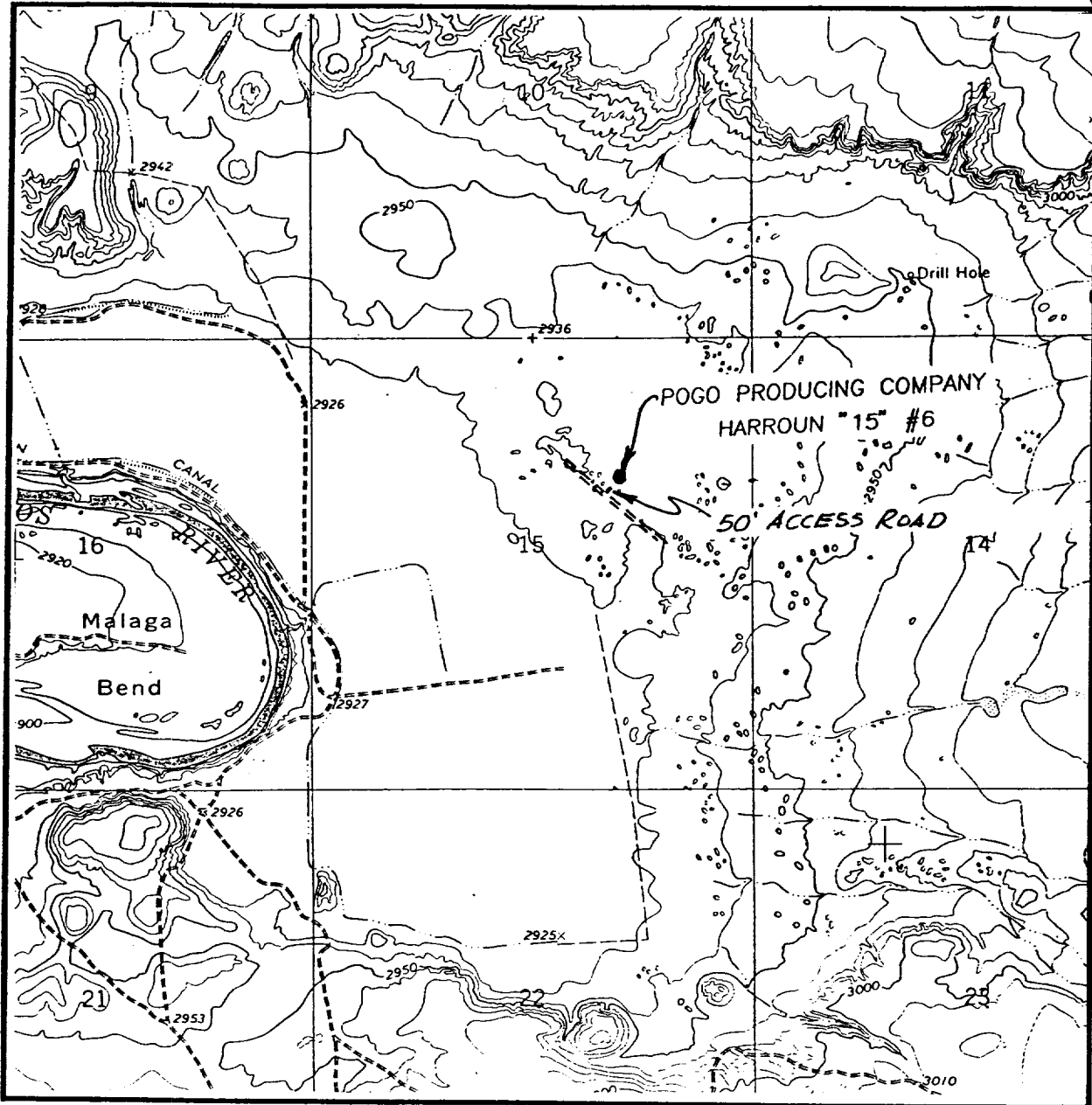
LEASE HARROUN "15"

**JOHN WEST ENGINEERING
HOBBS, NEW MEXICO**

(505) 393-3117

LOCATION VERIFICATION MAP

q/s



SCALE: 1" = 2000'

CONTOUR INTERVAL - 10'

SEC. 15 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1650' FNL & 1650' FEL

ELEVATION 2937'

OPERATOR POGO PRODUCING COMPANY

LEASE HARROUN "15"

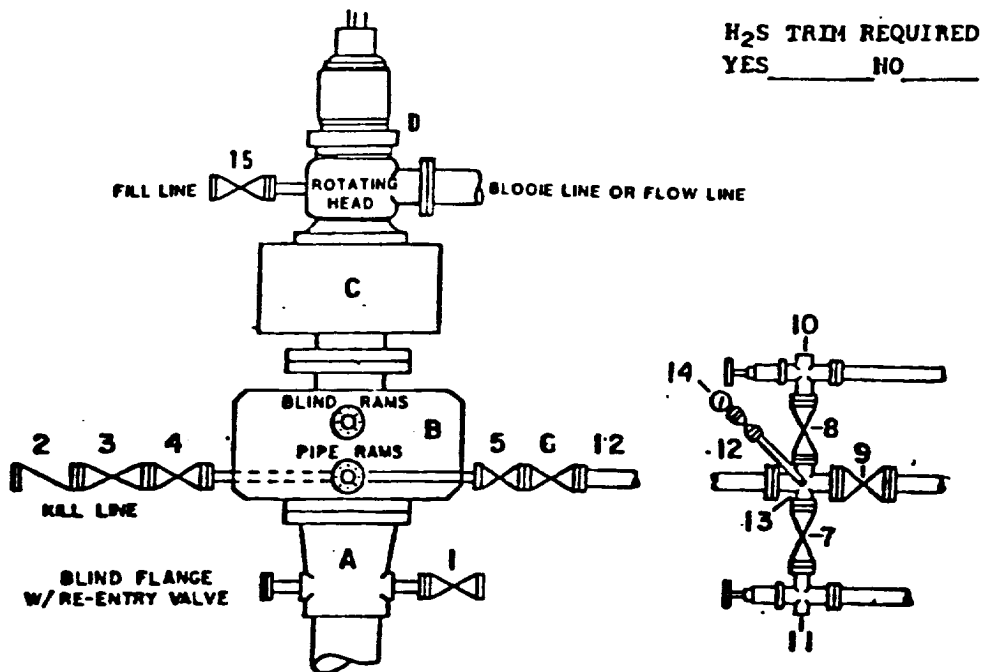
U.S.G.S. TOPOGRAPHIC MAP

PIERCE CANYON, N.M.

**JOHN WEST ENGINEERING
HOBBS, NEW MEXICO**

(505) 393-3117

DRILLING CONTROL **CONDITION III-B 3000 PSI WP**



DRILLING CONTROL

MATERIAL LIST - CONDITION III - B

- | | |
|------------|--|
| A | Wellhead |
| B | 3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where substructure height is adequate, 2 - 3000# W.P. single ram preventers may be utilized with 3000# W.P. drilling spool with 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. The drilling spool is to be installed below the single ram type preventers). |
| C | 3000# W.P. Annular Preventer with 1" steel, 3000# W.P. control lines. |
| D | Rotating Head with fill up outlet and extended Bleeie line. |
| 1,3,4,7,8, | 2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 2 | 2" minimum 3000# W.P. back pressure valve. |
| 5,6,9 | 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 12 | 3" minimum Schedule 80, Grade B, seamless line pipe. |
| 13 | 2" minimum x 3" minimum 3000# W.P. flanged cross. |
| 10,11 | 2" minimum 3000# W.P. adjustable choke bodies. |
| 14 | Cameron Mud Gauge or equivalent (location optional in Choke line). |
| 15 | 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve. |

| | | | |
|-------------|------|----------|----------|
| SCALE | DATE | EST. NO. | DRG. NO. |
| DRAWN BY | | | |
| CHECKED BY | | | |
| APPROVED BY | | | |

EXHIBIT E