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State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-101

Revised 1-1-89

**OIL CONSERVATION DIVISION**

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer Dd, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, Nm 87410

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OF PLUG BACK</b>					
1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			API NO. (assigned by OCD on New Wells) <b>30-025-31724</b>		
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>		
2. Name of Operator <b>CHEVRON U.S.A. INC.</b>			6. State Oil & Gas Lease No. <b>N/A</b>		
3. Address of Operator <b>ROOM 3104 P.O. BOX 1150, MIDLAND, TX 79702 ATTN: P.R. MATTHEWS</b>			7. Lease Name or Unit Agreement Name <b>ARROWHEAD GRAYBURG UNIT</b>		
4. Well Location Unit Letter <b>B</b> : <b>760</b> Feet From The <b>NORTH</b> Line an <b>1890</b> Feet From The <b>EAST</b> Line Section <b>11</b> Township <b>22S</b> Range <b>36E</b> NMPM <b>LEA</b> County			8. Well No. <b>190</b>		
			9. Pool name or Wildcat <b>ARROWHEAD GRAYBURG</b>		
10. Proposed depth <b>4500</b>		11. Formation <b>GRAYBURG</b>		12. Rotary or C.T. <b>ROTARY</b>	
13. Elevation (Show DF, RT, GR, etc.) <b>3529 GE</b>		14. Kind & Status Plug Bond <b>BLANKET</b>		15. Drlg Contractor <b>ROD-RIC</b>	
				16. Date Work will start <b>9-16-92</b>	
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
<b>12 1/4"</b>	<b>8 5/8"</b>	<b>23</b>	<b>1350'</b>	<b>800</b>	<b>SURFACE</b>
<b>7 7/8"</b>	<b>5 1/2"</b>	<b>15.5</b>	<b>4500'</b>	<b>900</b>	<b>SURFACE</b>

MUD PROGRAM: 0-1350' FRESH WATER SPUD MUD, 9.0 PPG.  
1350'-4500' BRINE WATER AND STARCH SYSTEM, 10.0 PPG.

BOPE EQUIPMENT: 2000 PSI WORKING PRESSURE, SEE ATTACHED  
CHEVRON U.S.A. CLASS II DRAWING.

IN ABOVE SPACE DESCRIBE PROPOSED IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE P.R. Matthews TITLE TECHNICAL ASSISTANT DATE 9/4/92

TYPE OR PRINT NAME P.R. MATTHEWS TELEPHONE NO. (915)687-7812

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT I SUPERVISOR TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

SEP 09 '92

Permit Expires 6 Months From Approval  
Date Unless Drilling Underway.

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WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator CHEVRON U.S.A. INC.			Lease ARROWHEAD GRAYBURG UNIT		Well No. 190
Unit Letter B	Section 11	Township 22 SOUTH	Range 36 EAST	NMPM	County LEA

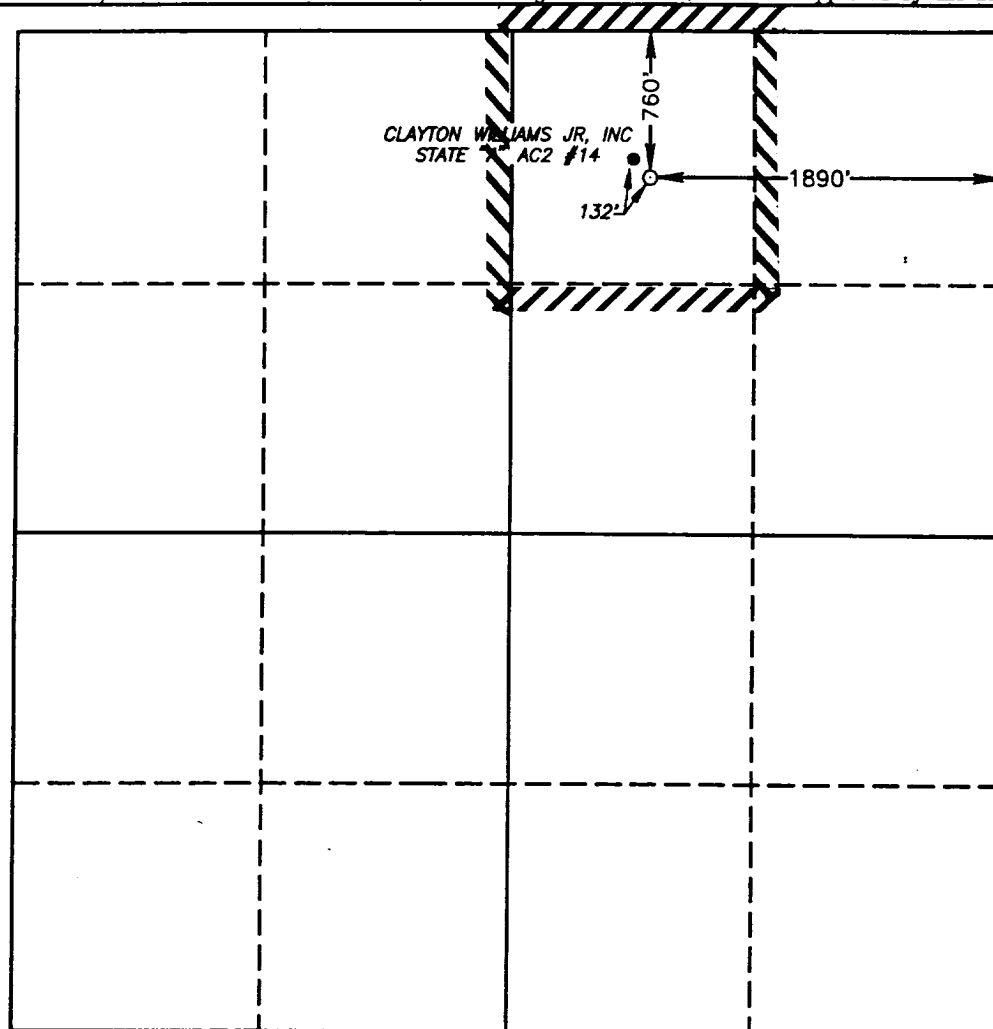
Actual Footage Location of Well:

760 feet from the NORTH line and		1890 feet from the EAST line	
Ground Level Elev. 3529.2'	Producing Formation GRAYBURG	Pool ARROWHEAD /GB	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature <i>P.R. Matthews</i>
Printed Name P.R. MATTHEWS
Position TECHNICAL ASSISTANT
Company CHEVRON U.S.A.
Date 9-4-92

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed AUGUST 28, 1992
Signature & Seal of Professional Surveyor

Certificate No.	JOHN W. WEST 676
	RONALD J. EDSON 3239
	GARY L. JONES 7977

RECEIVED

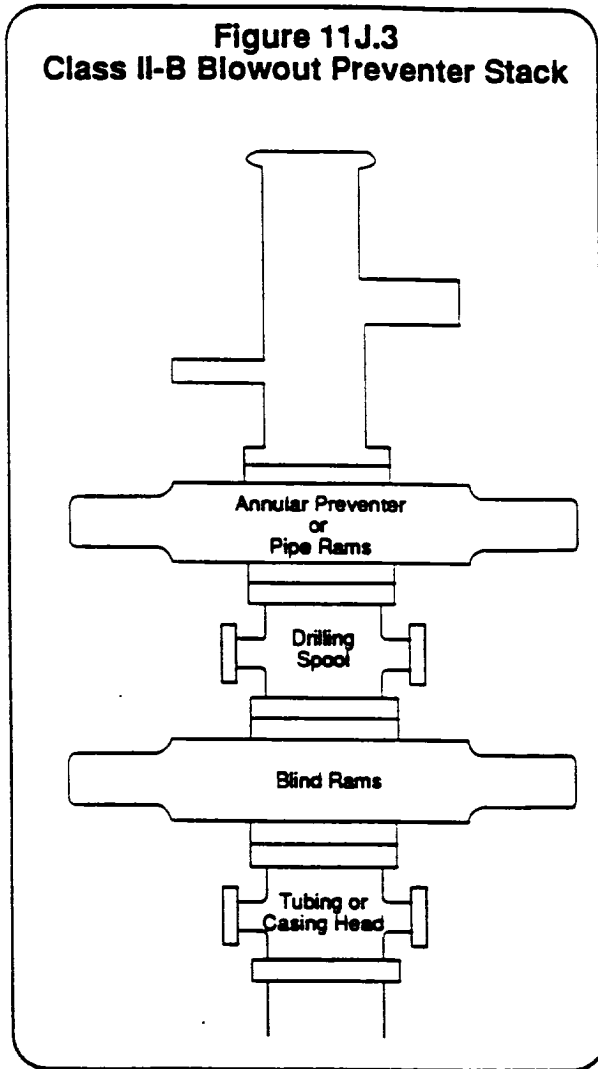
SEP 08 1992

OCD HOBBS OFFICE

CHEVRON DRILLING REFERENCE SERIES  
VOLUME ELEVEN  
WELL CONTROL AND BLOWOUT PREVENTION

D. CLASS II-B BLOWOUT PREVENTER STACK:

**Figure 11J.3**  
**Class II-B Blowout Preventer Stack**



The Class II-B preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a drilling spool, and a single blind ram preventer on bottom. In an alternate configuration, a single pipe ram preventer may be substituted for the annular preventer. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". An emergency kill line may be installed on the wellhead. As the maximum anticipated surface pressure of this stack is less than 2000 psi, screwed connections may be used. All components must be of steel construction. The Class II-B blowout preventer stack is shown to the left in Figure 11J.3.

CHEVRON DRILLING REFERENCE SERIES  
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### C. CLASS II CHOKE MANIFOLD

The Class II choke manifold is suitable for all Class II workovers and drilling operations. The Class II choke manifold is shown below in Figure 11J.7. Specific design features of the Class II choke manifold include:

1. The manifold is attached to the tubing/casing head when a Class II-A preventer stack is used. This hook-up is only recommended for Class II workover operations.
2. The manifold is attached to a drilling spool or top ram preventer side outlets when a Class II-B preventer stack is in use.
3. The minimum internal diameter is 2" (nominal) for outlets, flanges, valves and lines.
4. Includes two steel gate valves in the choke line at the wellhead/drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).
5. Includes one manually adjustable choke which is installed on the side of the manifold cross. Steel isolation gate valves are installed between the choke and the cross, and downstream of the choke.
6. Includes one bleed line installed on the side of the manifold cross which is isolated by a steel gate valve.
7. Includes a pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
8. Screwed connections may be used in lieu of flanges or clamps.

**Figure 11J.7 - Class II Manifold**

