

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

30-025-31393

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC-048296 046295		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> INJECTOR SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A		
2. NAME OF OPERATOR CHEVRON U.S.A. INC.			7. UNIT AGREEMENT NAME ARROWHEAD GRAYBURG UNIT		
3. ADDRESS AND TELEPHONE NO. P.O. BOX 1150 MIDLAND, TX 79702 ATTN: P.R. MATTHEWS (915) 687-7812			8. FARM OR LEASE NAME, WELL NO. ASH # 148		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 785 FNL & 1905 FWL At proposed prod. zone			9. API WELL NO.		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 4.5 MILES SW OF EUNICE NEW MEXICO			10. FIELD AND POOL, OR WILDCAT ARROWHEAD/GRAYBURG		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 785'			11. SEC., T., R., E., M., OR BLK. AND SURVEY OR AREA SEC. 1, R 36E, T 22S		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 495'			12. COUNTY OR PARISH LEA		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3527.2			13. STATE NM		
16. NO. OF ACRES IN LEASE 5922.26			17. NO. OF ACRES ASSIGNED TO THIS WELL 40		
19. PROPOSED DEPTH ± 4500'			20. ROTARY OR CABLE TOOLS ROTARY		
22. APPROX. DATE WORK WILL START* 10-02-91					

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	23#	± 1350	CIRC.
7 7/8 "	5 1/2"	15.5 #	± 4500	CIRC.

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

BOPE EQUIPMENT: 2000 PSI WORKING PRESSURE, SEE ATTACHED CHEVRON CLASS II BOP DRAWING.

ALL INFORMATION SUBJECT TO
FEDERAL REQUIREMENTS AND
LOCAL STIPULATIONS
ATTACHED

Subject to
Like Approval
by State

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 P.R. Matthews TITLE TECHNICAL ASSISTANT DATE 9-5-91

(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 _____ TITLE _____ DATE 9-20-91

*See Instructions On Reverse Side

Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
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

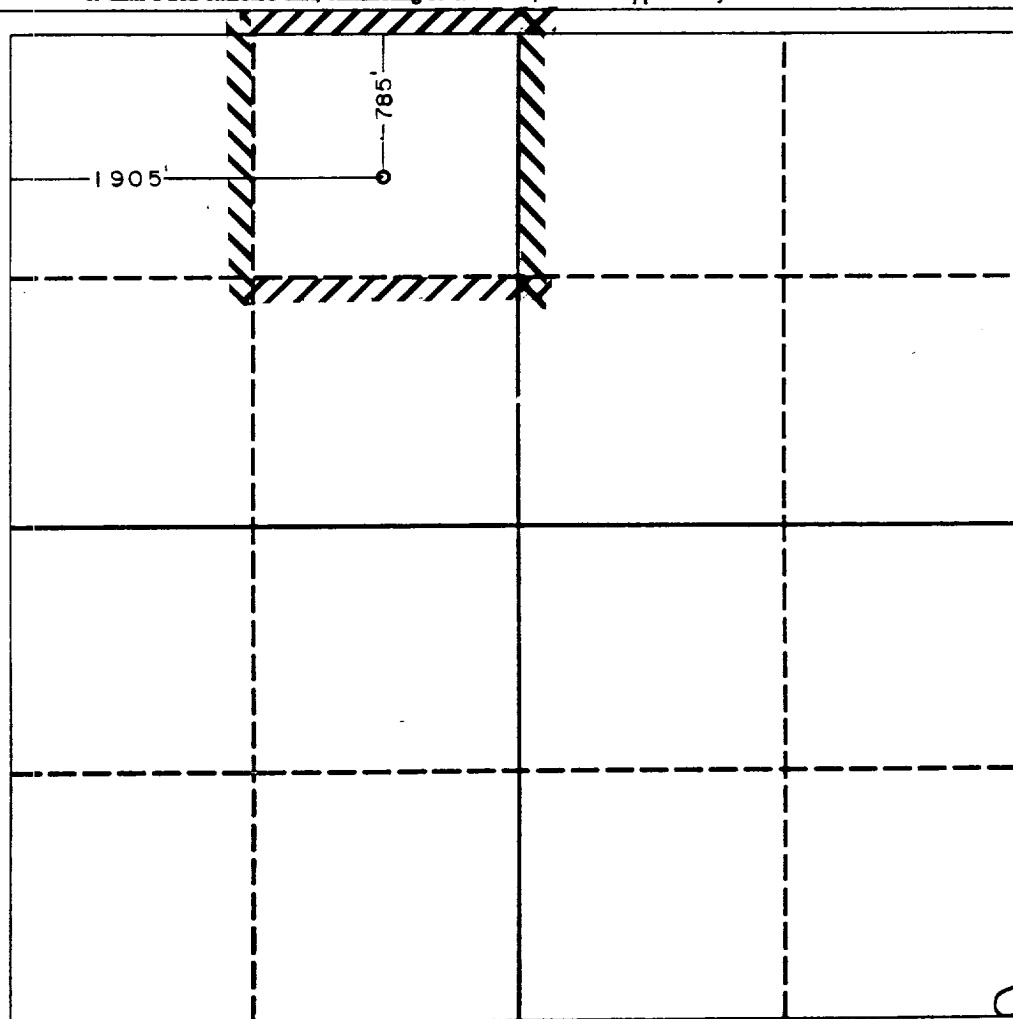
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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. 148
Unit Letter C	Section 1	Township 22 SOUTH	Range 36 EAST	County LEA	
Actual Footage Location of Well: 785 feet from the NORTH line and 1905 feet from the WEST line					
Ground level Elev. 3527.2	Producing Formation GRAYBURG		Pool ARROWHEAD/GRAYBURG		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

P.R. Matthews

Printed Name

P.R. MATTHEWS

Position

TECHNICAL ASSISTANT

Company

CHEVRON U.S.A. INC.

Date

9-3-91

SURVEYOR CERTIFICATION

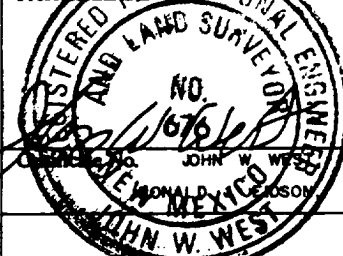
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

7-27-91

Signature

Professional Seal



676

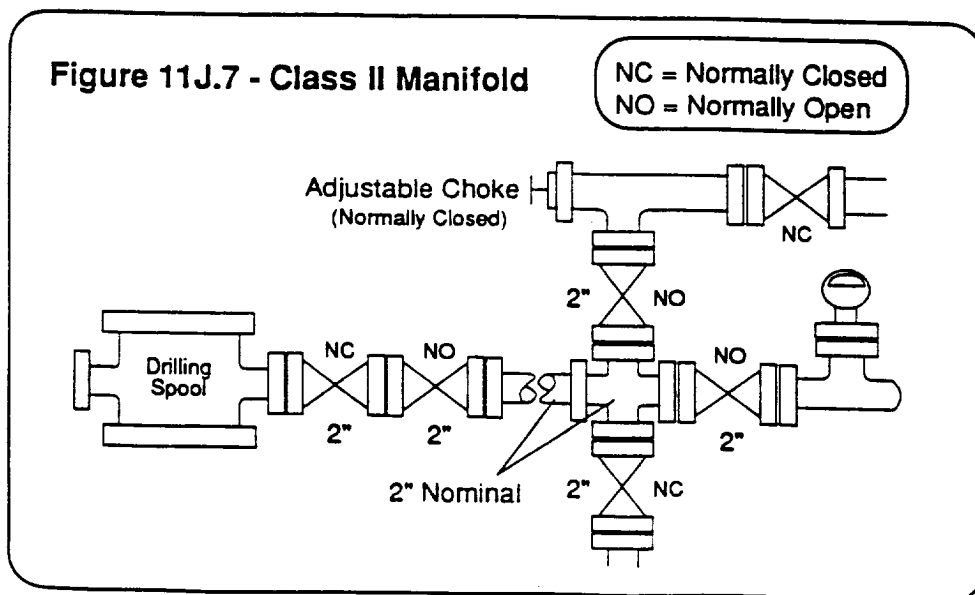
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CHEVRON DRILLING REFERENCE SERIES
VOLUME ELEVEN
WELL CONTROL AND BLOWOUT PREVENTION

C. CLASS II CHOKE MANIFOLD

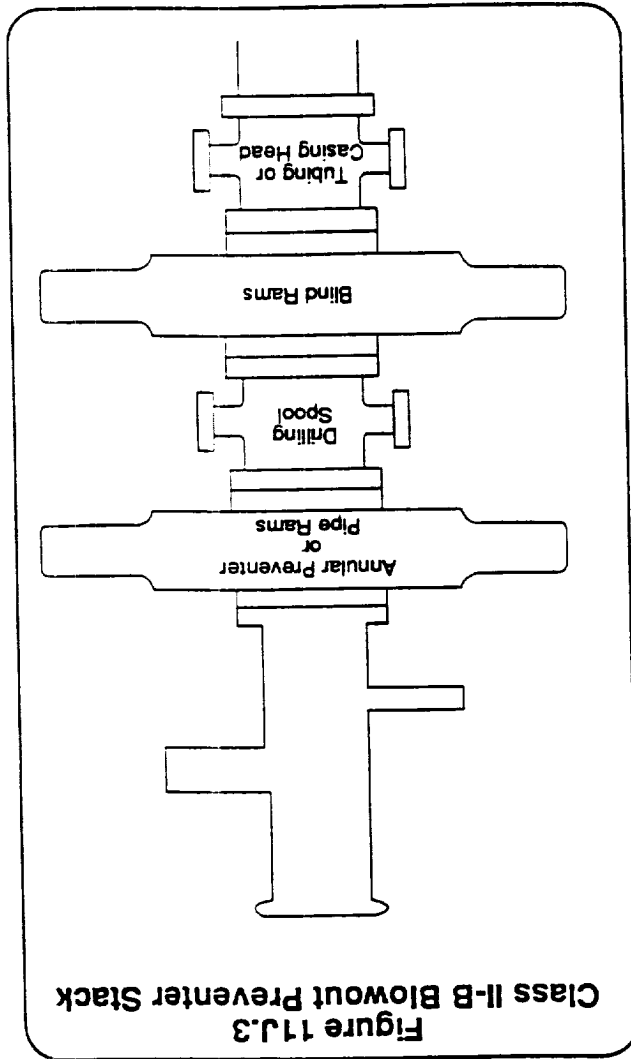
The Class II choke manifold is suitable for all Class II workovers and drilling operations. The Class II choke manifold is shown below in Figure 11J.7. Specific design features of the Class II choke manifold include:

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.



D. CLASS II-B BLOWOUT PREVENTER STACK:

**CHEVRON DRILLING REFERENCE SERIES
VOLUME ELEVEN
WELL CONTROL AND BLOWOUT PREVENTION**



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.

Rev. 1/1/89

11J-6



Chevron U.S.A. Inc.
P.O. Box 1150, Midland, TX 79702

Permian Basin Production Business Unit

September 6, 1991

Application for Permit to Drill
Proposed Arrowhead Grayburg Unit
Well #148
Lea County, New Mexico

Bureau of Land Management
P. O. Box 1778
Carlsbad, NM 88220

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: Arrowhead Grayburg Unit Well #148

1. Location: 785' FNL & 1905' FWL Section 1, T-22-S, R-36-E
Lea County, New Mexico
2. Elevation of unprepared ground: 3,527.2'
3. Geologic Name of Surface Formation: Quaternary-Alluvium
4. Type Drilling Tools: Rotary
5. Proposed Drilling Depth: 4,500'
6. Estimated Top of Geologic Markers:

Yates	2,650'
Queen	3,325'
Penrose	3,445'
Grayburg	3,645'

166-11 8202

FF

RECEIVED

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