

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
P.O. 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. ARCH PETROLEUM INC. 10 DESTA DRIVE, STE, 420E MIDLAND, TX 79705		ORGRID Number 962
Property Code 142899		API Number 50-025-32862
Property Name C. D. WOOLWORTH		Well No. 8

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
K	30	24S	37E		1930	SOUTH	1980	WEST	LEA

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
Proposed Pool 1 LANGLIE MATTIX					Proposed Pool 2 JALMAT OIL				

Work Type Code	Well Type Code	Cable / Rotary	Lease Type Code	Ground Level Elevation
N	O	R	P	3261
Multiple	Proposed Depth	Formations	Contractor	Spud Date
N	3800'	7RQGRBG	TO BE DETERMINED	4/1/95

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight / foot	Setting Depth	Sacks of Cement	Estimated TOC
10 5/8"	8 5/8"	32#/FT.	430'	250	SURFACE
6 3/4"	5 1/2"	15.5#/FT.	3800'	900	430'

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.

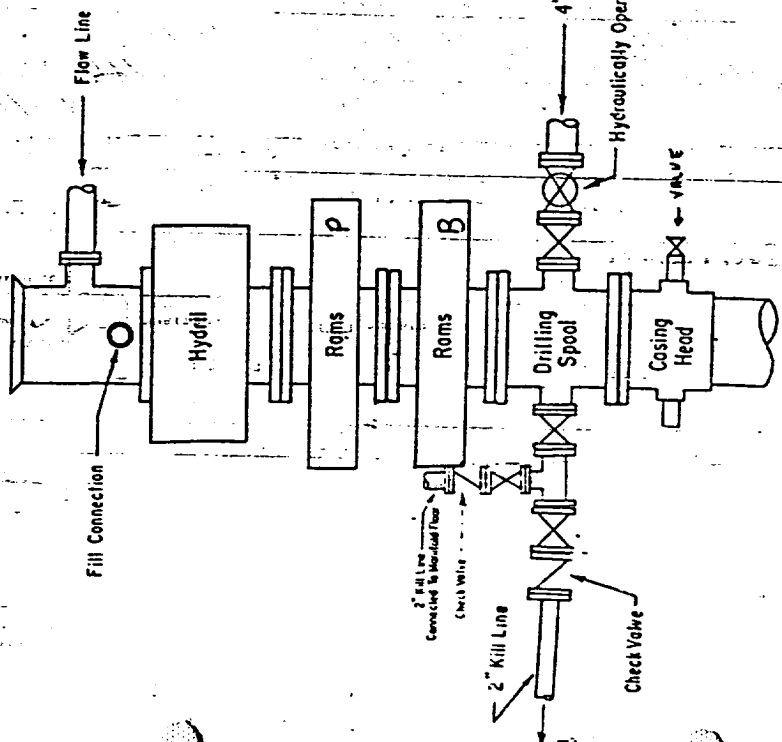
MUD PROGRAM = 0-430' FW SPUD MUD 8.6-8.8 PPG 32-36 VIS 8-9 PK
430-3800' BRINE WATER 9.9-10.1 PPG 29-32 VIS 9-10 PK

BOP'S SEE ATTACHED DRAWING FOR 2000-3000 PSI WORKING PRESSURE.

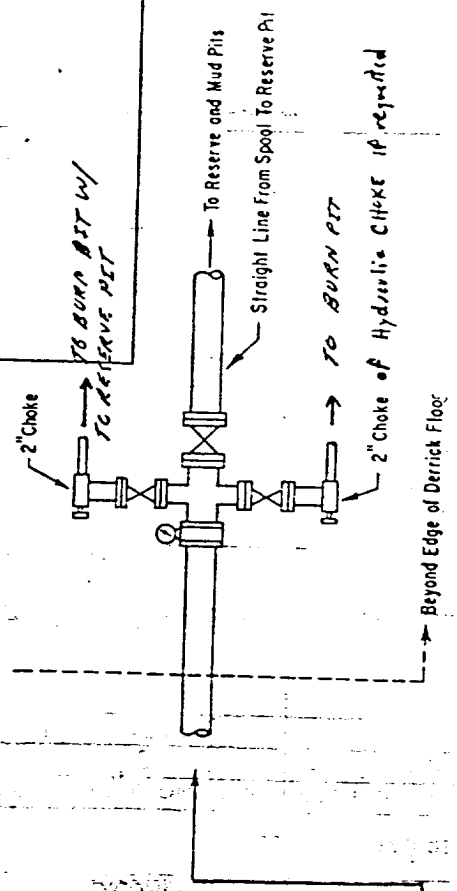
Permit Expires 6 Months From Issuance
Date of Last Existing Completion

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Bobbie Brooks</i> Print name: BOBBIE BROOKS Title: PRODUCTION ANALYST Date: 2/17/95		Phone: 915-685-1961		OIL CONSERVATION DIVISION Approved: ORIGINAL SIGNED BY JERRY SEXTON Title: DISTRICT I SUPERVISOR Approval Date: MAR 21 1995 Expiration Date: Conditions of Approval: Attached ☐	
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ADDITIONS - DELETIONS - CHANGES SPECIFY
NOTE: "When Required" means at any time the Gulf Supervision can, may, or will require the equipment to be installed during operations.



2000-3000 PSI WORKING PRESSURE
BOP HOOK-UP FOR LARGE CASINGS
SPECIFY WORKING PRESSURE



The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated, a Hydril preventer, valves, chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer shall be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. The ram preventers may be two single or a double type. If correct in size, the flanged outlet of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and to the kill line. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within 2 minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. (3) the charging pumps shut down, the pressurized fluid volume stored in the accumulator shall be sufficient to close all the pressure-operated devices simultaneously within 1/2 second; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least 50 percent of the original. When requested, either an additional source of power, remote and equivalent, is to be available to operate the above pumps, or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles to indicate open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When required, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No. 38 hydraulic oil, or an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, the choke flow line, the relief lines and the relief lines are to be supported by metal stands and adequately anchored. The choke flow line, relief lines and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access shall be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and valves of the relief lines connected to the drilling spools and all ram type preventers must be equipped with stem extensions, valvetool joints, if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves shall be equipped with handles.

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U. S. COAST
GUARD
OFFICE

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Instruction on back
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Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3D-825-32862	Pool Code 37240	Pool Name Langlie Mott & SR-DA-GR
Property Code 14899	Property Name C.D. WOOLWORTH	Well Number 8
OGRID No. 962	Operator Name ARCH PETROLEUM	Elevation 3261'

Surface Location

UL or lot No. K	Section 30	Township 24S	Range 37E	Lot Idn	Feet from the 1930	North/South line SOUTH	Feet from the 1980	East/West line WEST	County LEA
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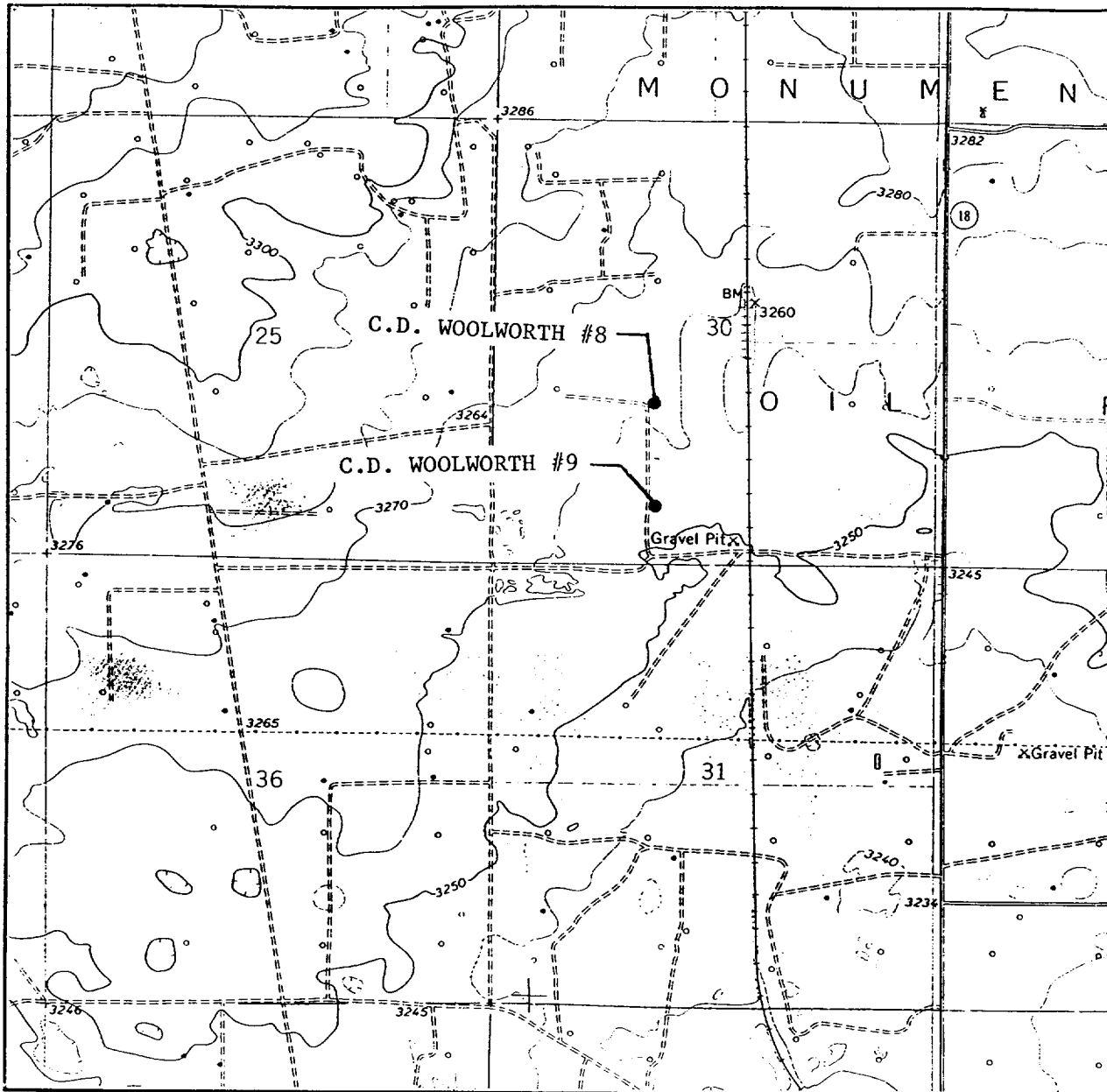
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 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

LOT 1										OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. _____ Signature _____ Printed Name _____ Title _____ Date
38.08										
LOT 2										
38.08										
LOT 3										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 belief. JANUARY 31, 1995 Date Surveyed Signature & Seal of Professional Surveyor _____ W.O. Num. 95-11-0147 Certificate No. JOHN W. WEST, 676 RONALD J. EIDSON, 3239
38.08										
LOT 4										
38.08										

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL 10'

SEC. 30 TWP. 24S RGE. 37E

SURVEY N.M.P.M.

COUNTY LEA STATE N.M.

DESCRIPTION

ELEVATION

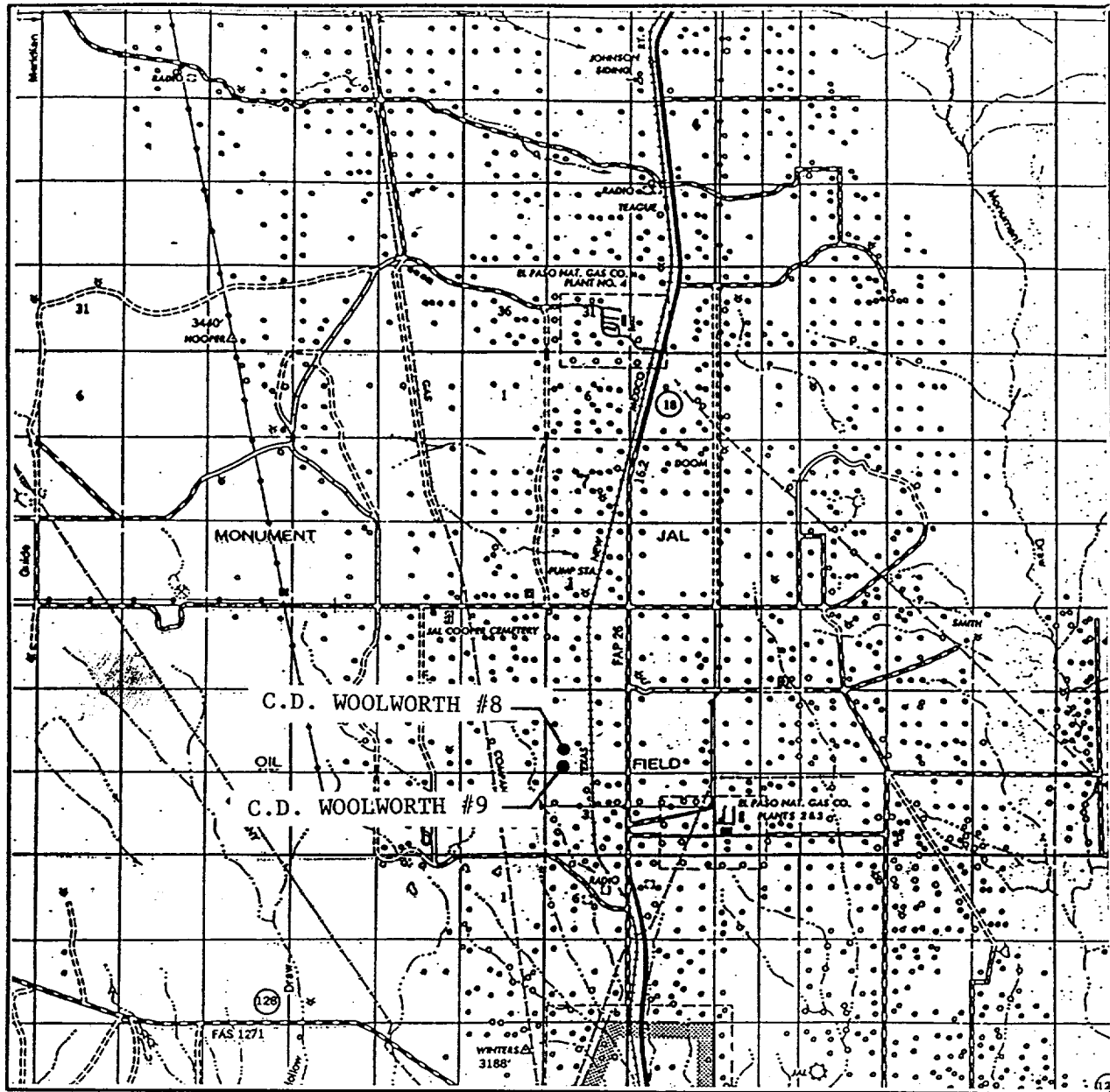
OPERATOR ARCH PETROLEUM

LEASE C.D. WOOLWORTH #8 & #9

U.S.G.S. TOPOGRAPHIC MAP
JAL NW, N.M.

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 30 TWP. 24S RGE. 37E

SURVEY N.M.P.M.

COUNTY LEA STATE N.M.

DESCRIPTION

ELEVATION

OPERATOR ARCH PETROLEUM

LEASE C.D. WOOLWORTH #8 & #9

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117

7/14/95

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