

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. <b>ARCH PETROLEUM, INC. 10 Desta Drive, Suite 420E Midland, TX 79705</b>		OGRID Number <b>000962</b>
Property Code <b>14923</b>	Property Name <b>PLAINS KNIGHT</b>	API Number <b>30-025-33088</b>
		Well No. <b>4</b>

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
<b>K</b>	<b>23</b>	<b>24S</b>	<b>37E</b>		<b>2080</b>	<b>SOUTH</b>	<b>1650</b>	<b>WEST</b>	<b>LEA</b>

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 <b>WILDCAT (ABO)</b>					Proposed Pool 2 <b>FOWLER (UPPER YESO)</b>				

Work Type Code <b>N</b>	Well Type Code <b>O</b>	Cable / Rotary <b>R</b>	Lease Type Code <b>P</b>	Ground Level Elevation <b>3209'</b>
Multiple <b>NO</b>	Proposed Depth <b>6500'</b>	Formations <b>ABO</b>	Contractor <b>UNKNOWN</b>	Spud Date <b>ASAP</b>

Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight / foot	Setting Depth	Sacks of Cement	Estimated TOC
<b>12-1/4"</b>	<b>8-5/8"</b>	<b>24#</b>	<b>1150'</b>	<b>675</b>	<b>SURFACE</b>
<b>7-7/8"</b>	<b>5-1/2"</b>	<b>15.5#</b>	<b>6500'</b>	<b>1835</b>	<b>SURFACE</b>

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.

The operator proposes to drill to a depth sufficient to test the Abo formation for oil. The secondary zone is the Fowler (Upper Yeso).

Mud Program: 0-1150' Fresh Water Spud Mud  
1150-4800' Brine Water  
4800-6500' Brine Water & Starch, 10#/gal., 30 Visc., 10-15 cc Water Loss

BOP Equipment: See attached drawing for 3000 psi Working Pressure BOP

Permit Expires 6 Months From Approval  
Date Unless Drilling Underway.

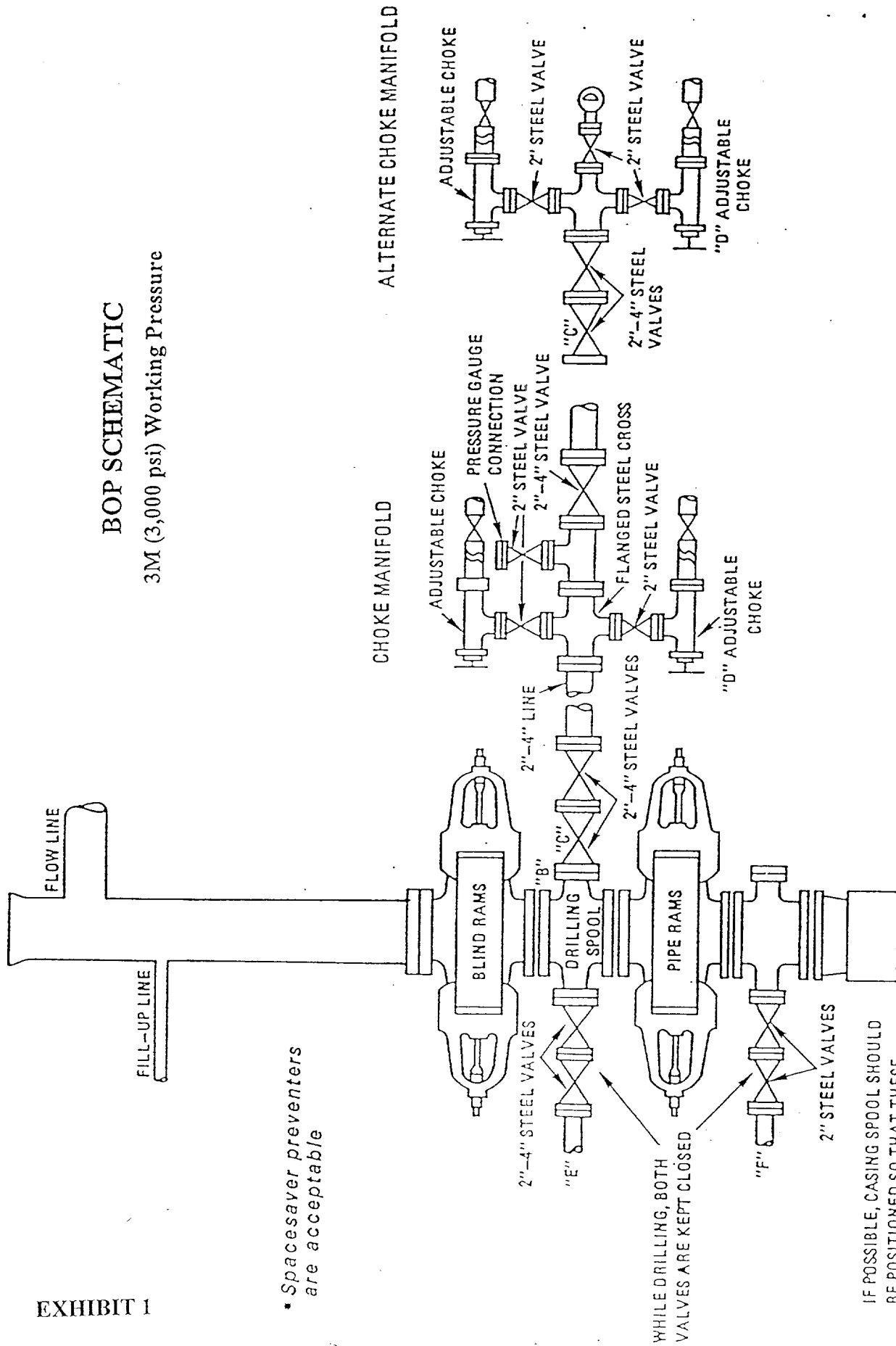
I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		<b>OIL CONSERVATION DIVISION</b>	
Signature: <i>Bobbie Brooks</i>		Approved by: <i>[Signature]</i>	
Print name: <b>BOBBIE BROOKS</b>		Title: <i>[Signature]</i>	
Title: <b>PRODUCTION ANALYST</b>		Approval Date: <b>SEP 6 1995</b> Expiration Date:	
Date: <b>Sept. 1, 1995</b>	Phone: <b>(915) 685-1961</b>	Conditions of Approval: Attached <input type="checkbox"/>	

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### 3M (3,000 psi) Working Pressure

EXHIBIT 1

\* Spacesaver preventers are acceptable



IF POSSIBLE, CASING SPOOL SHOULD BE POSITIONED SO THAT THESE VALVES ARE DIRECTLY UNDER THE BARREL OF THE RAM PREVENTER

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

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico

JUN 30 1995 Energy, Minerals and Natural Resources Department

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Revised February 10, 1994  
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OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-33088</b>	Pool Code <b>96034</b>	Pool Name <b>Wildcat (Abo)</b>
Property Code <b>14923</b>	Property Name <b>PLAIN KNIGHT</b>	Well Number <b>4</b>
OGRID No. <b>962</b>	Operator Name <b>ARCH PETROLEUM, INC.</b>	Elevation <b>3209</b>

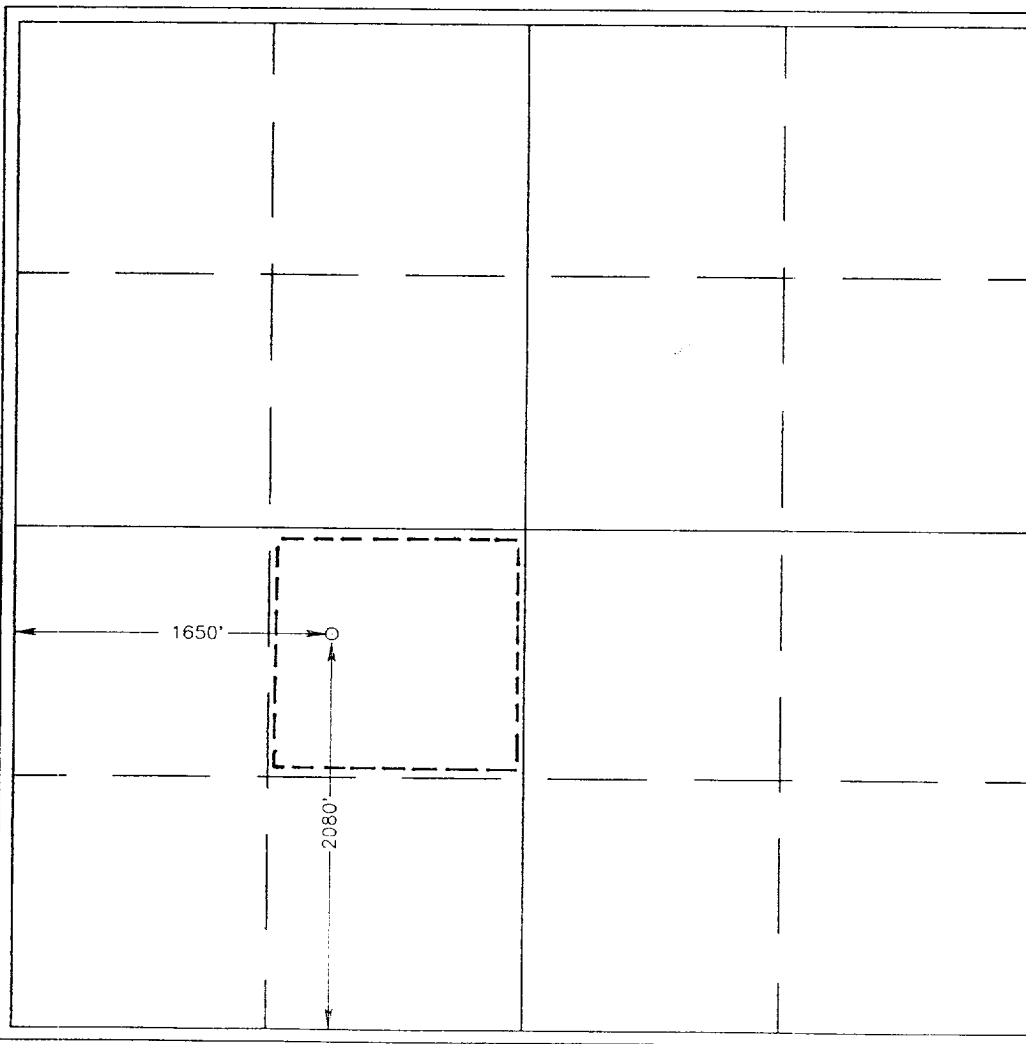
Surface Location

UL or lot No. <b>K</b>	Section <b>23</b>	Township <b>24 S</b>	Range <b>37 E</b>	Lot Idn	Feet from the <b>2080</b>	North/South line <b>SOUTH</b>	Feet from the <b>1650</b>	East/West line <b>WEST</b>	County <b>LEA</b>
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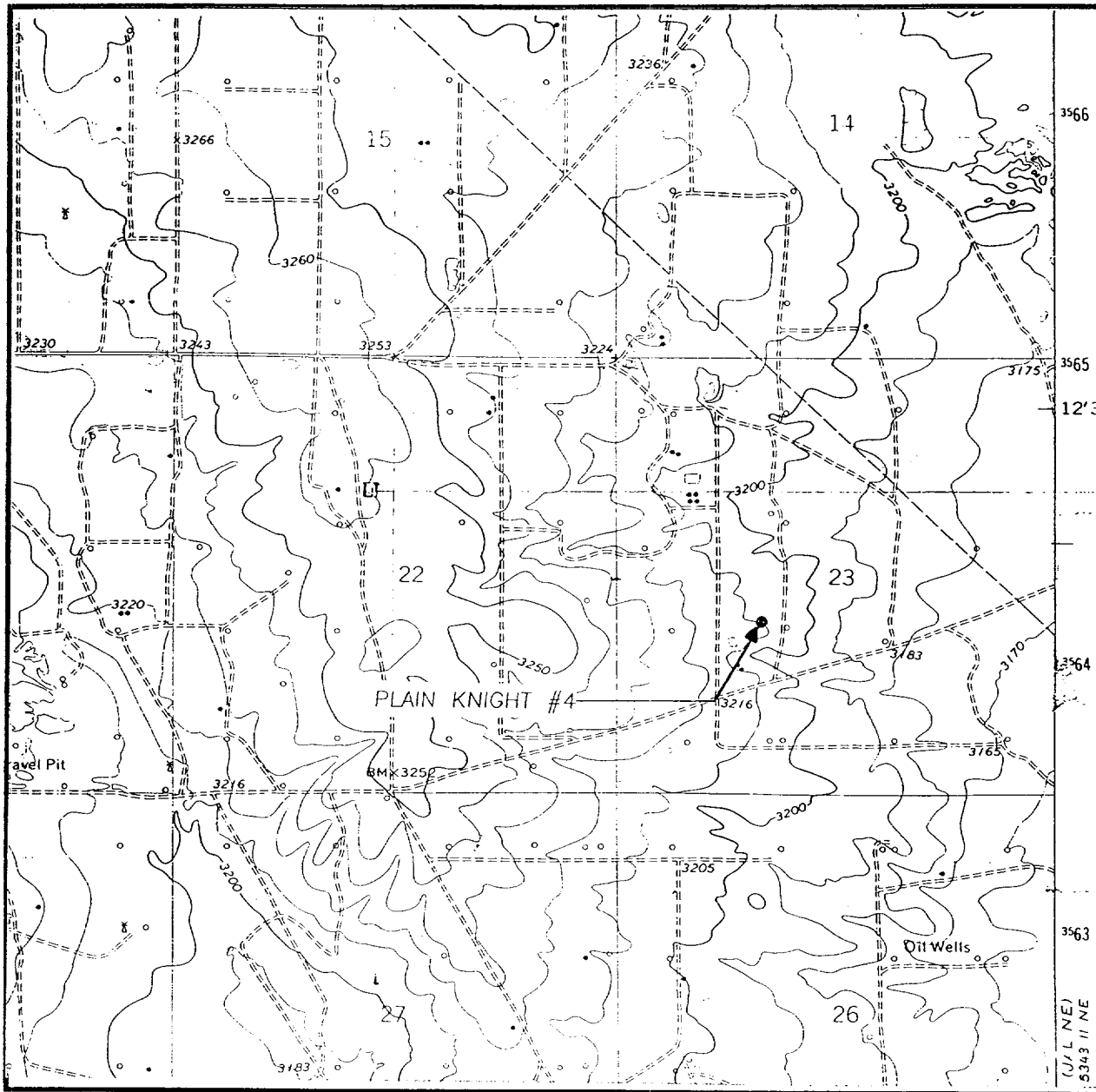
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres <b>40</b>	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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Bobbie Brooks</u> Signature</p> <p>Printed Name <b>BOBBIE BROOKS</b></p> <p>Title <b>PRODUCTION ANALYST</b></p> <p>Date <b>9/1/95</b></p>
	<p>SURVEYOR CERTIFICATION</p> <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>JUNE 16, 1995</p> <p>Date Surveyed Signature <u>G. EIDSON</u> Professional Surveyor</p> <p>W. Num. <b>95-11-6885</b></p> <p>Certificate <b>JOHN W. WEST 676</b> <b>RONALD J. HANSEN 3239</b> <b>CARY J. JOHNSON 12641</b></p>

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
JAL NW - 10'

SEC. 23 TWP. 24-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2080' FSL & 1650' FWL

ELEVATION 3209

OPERATOR ARCH PETROLEUM, INC.

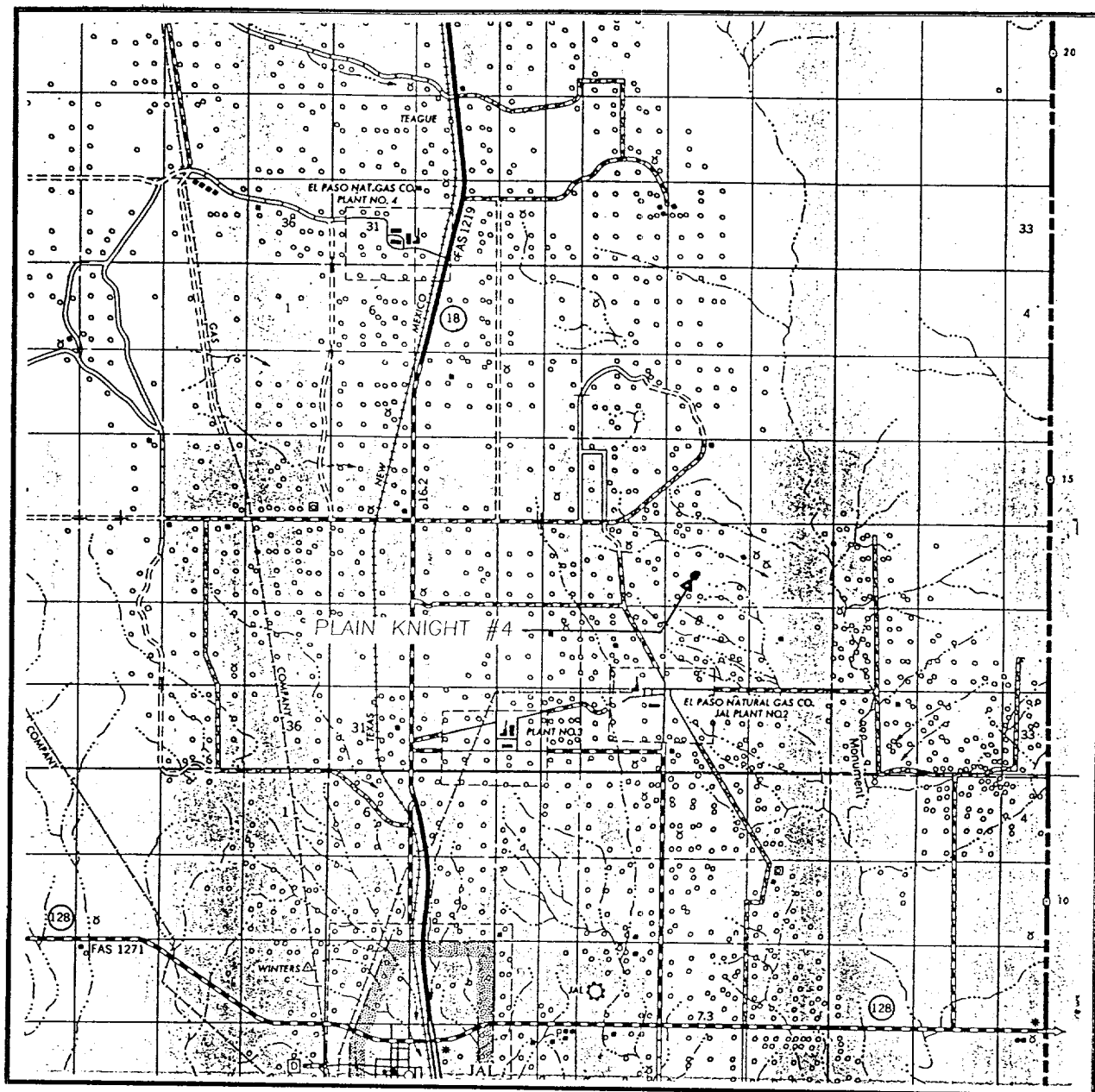
LEASE PLAIN KNIGHT

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. 23 TWP. 24-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2080' FSL & 1650' FWL

ELEVATION 3209

OPERATOR ARCH PETROLEUM, INC.

LEASE PLAIN KNIGHT

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**HOBBS, NEW MEXICO**  
**(505) 393-3117**