

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATION OF CIMAREX ENERGY CO.
FOR A NON-STANDARD OIL SPACING AND
PRORATION UNIT AND FOR COMPULSORY
POOLING, CHAVES COUNTY, NEW MEXICO.

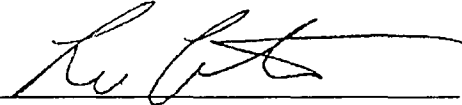
Case No. _____

AFFIDAVIT OF LEE CATALANO

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Lee Catalano, being duly sworn upon his oath, deposes and states:

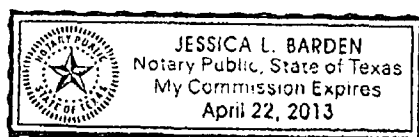
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Cimarex Energy Co. ("Cimarex").
3. Exhibit A is a structure map on top of the Hueco (Wolfcamp) formation. The formation dips gently to the southeast. Exhibit A also contains production data from existing wells in the pool.
4. Exhibit B is a cross section which shows the productive interval and stratigraphic target for horizontal Abo/Wolfcamp wells in the area.
5. Attached as Exhibit C is the horizontal drilling plan for the subject well. A horizontal wellbore will test a greater reservoir length, increasing the chances for an economic completion.
6. All four quarter-quarter sections in the well unit are prospective in the Abo/Wolfcamp formation, and Cimarex anticipates producing reserves from each quarter-quarter section.

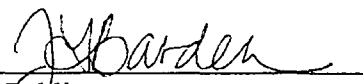


Lee Catalano

SUBSCRIBED AND SWORN TO before me this 17th day of March, 2010 by Lee Catalano.

My Commission Expires: 4-22-2013





Notary Public

Oil Conservation Division
Case No. _____
Exhibit No. 2

North
A

ELEV. 4471
28079

MARSHALL & WINSTON INCORPORATED
COMP. DATE: 3/16/2009
MEDLIN 8 FEDERAL COM
T158 216 58
590 FSL 330 FWL

28037

CIMAREX ENERGY OF CO
FRANKLIN 18 FEE
T158 216 58
330 FSL 410 FWL

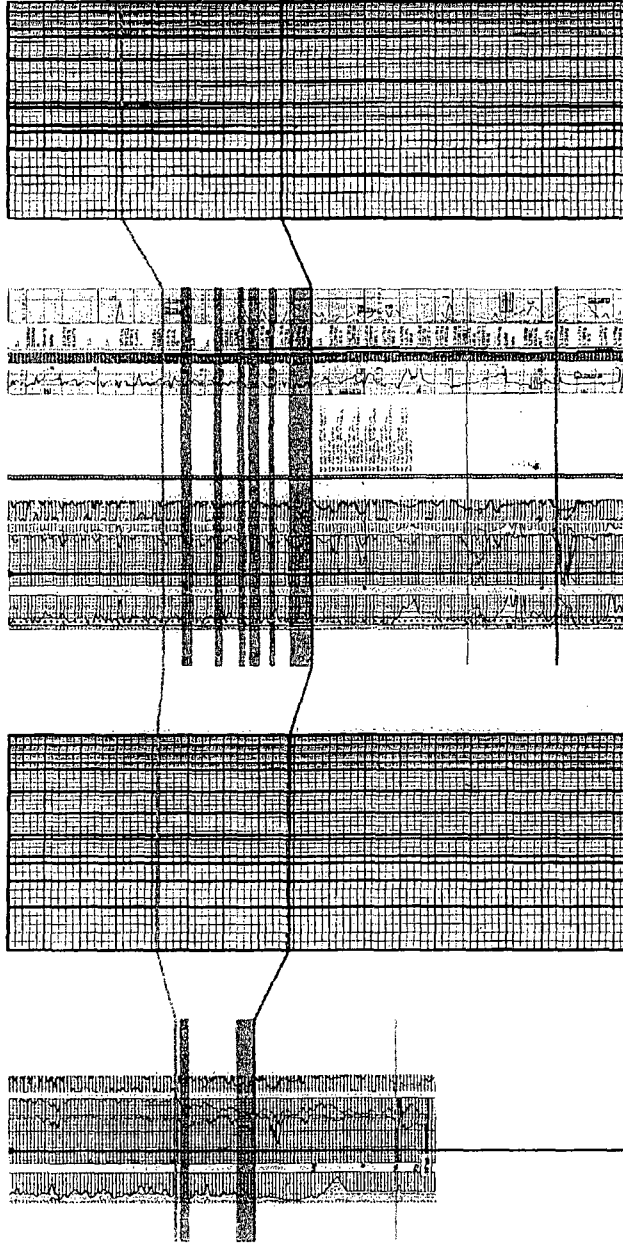
ELEV. 4489
28034

CIMAREX ENERGY OF COLORADO
COMP. DATE: 9/19/2008
MIDWAY 17 FEDERAL
T158 216 517
1860 FSL 330 FWL

ELEV. 4412
28030

CIMAREX ENERGY OF CO
FRANKLIN 18 FEDERAL COM
T158 216 516
330 FSL 350 FWL

South
A'



BASE ANHYDRITE (LEC)

Stratigraphic Target
L. Abc Bay Interval

HUECO (WOLF CAMP) (LEC)

X_MKR (LEC)

EXHIBIT

B

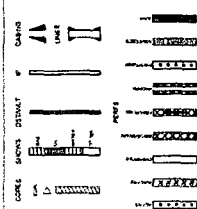
CIMAREX ENERGY

Caprock Area

Lower AborWolfcamp

Struct X-Section

Chaves Co., NM



Franklin 18 Lease

By Line Callout
January 2, 2010 4:12 PM

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name Abo Wildcat
Property Code	Property Name HANCOCK "19" STATE	Well Number 3
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4458'

Surface Location

UL or lot No. E	Section 19	Township 15 S	Range 31 E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 375	East/West line WEST	County CHAVES
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Bottom Hole Location If Different From Surface

UL or lot No. H	Section 19	Township 15 S	Range 31 E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 330	East/West line EAST	County CHAVES
Dedicated Acrea 159.30	Joint or Infill	Consolidation Code P	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 that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.</p> <p><u>Zeno Farris</u> 07-23-08 Signature Date</p> <p>Zeno Farris Printed Name</p>
<p>SURFACE LOCATION Lat - N33°00'11.50" Long - W103°52'06.96" NMSPCE- N 729013.6 E 683809.4 (NAD-83)</p>	<p>BOTTOM HOLE LOCATION Lat - N33°00'11.50" Long - W103°51'13.55" NMSPCE- N 729032.922 E 688357.619 (NAD-83)</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>Date <u>07-23-08</u> Signature <u>[Signature]</u> Professional Surveyor <u>7677</u></p> <p></p> <p>Certificante No. Gary L. Jones 7977</p> <p>DASIN SURVEYS</p>		