

**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                        )

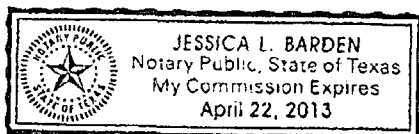
Lee Catalano, being duly sworn upon his oath, deposes and states:


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 17<sup>th</sup> 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. 4,471  
20079

MARSHALL & WINSTON INCORPORATED  
COMP. DATE: 3/18/2009  
MEDLIN 3 FEDERAL COM  
T155 R31E S8  
600 FSL 330 FWL

29037

CIMAREX ENERGY OF CO  
FRANKLIN 18 FEE  
T155 R31E N8  
330 FSL 2270 FWL

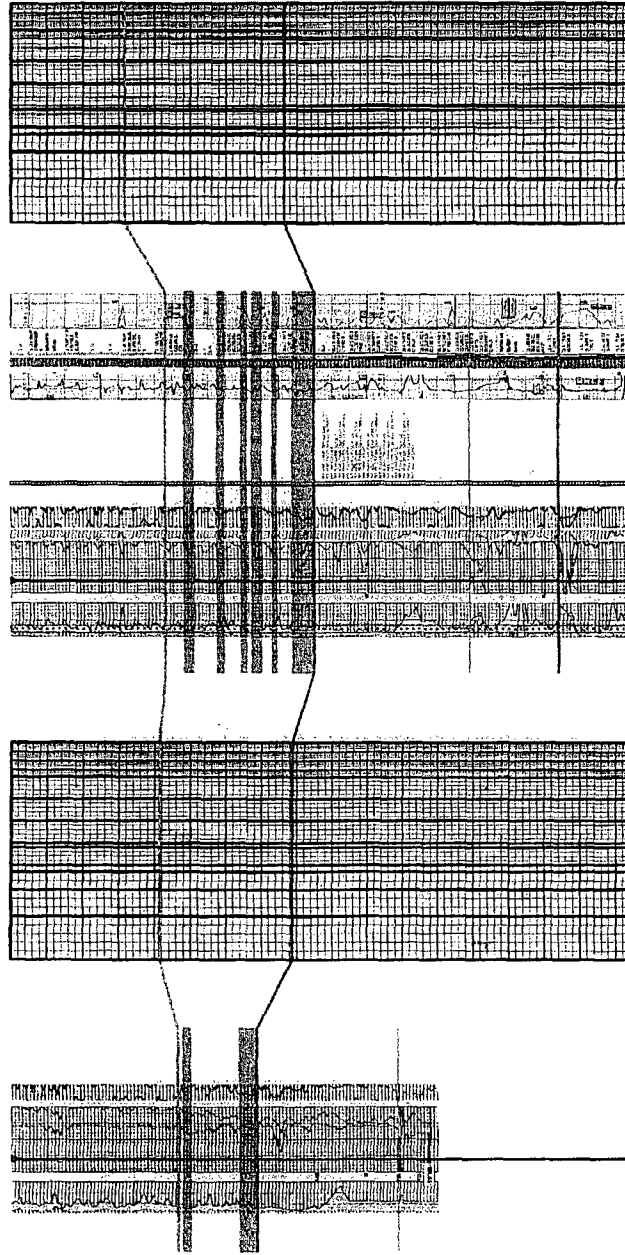
ELEV. 4,489  
20034

CIMAREX ENERGY OF COLORADO  
COMP. DATE: 9/16/2008  
MIDWAY 7 FEDERAL  
T155 R31E S17  
1080 FSL 330 FWL

ELEV. 4,452  
20033

CIMAREX ENERGY OF CO  
FRANKLIN 18 FEDERAL COM  
T155 R31E S18  
275 FSL 375 FWL

South  
A'



EXHIBIT

3

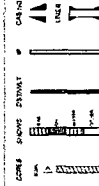
CIMAREX ENERGY

Caprock Area

Lower Abo/Wolfcamp

Struct X-Section

Chaves Co., NM



Franklin 18 Lease

By: Lee Callahan  
January 1, 2010, 4:13 PM

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1501 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 COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4440'

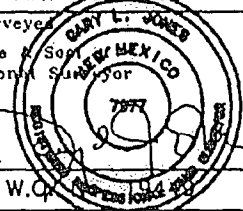
**Surface Location**

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

UL or lot No. M	Section 19	Township 15 S	Range 31 E	Lot Idn	Feet from the 375	North/South line SOUTH	Feet from the 375	East/West line WEST	County CHAVES
Dedicated Acres 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

<div style="text-align: center;">EXHIBIT <b>C</b></div>				<b>OPERATOR CERTIFICATION</b>  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.  <div style="display: flex; justify-content: space-between;"><div>Zeno Farris</div><div>07-23-08</div></div> <div style="display: flex; justify-content: space-between;"><div>Signature</div><div>Date</div></div> <div style="text-align: center;">Zeno Farris</div> <div>Printed Name</div>	
				<b>SURVEYOR CERTIFICATION</b>  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.  MAY 10, 2008 Date Surveyed Signature & Seal Professional Surveyor <div style="text-align: center;"></div> W.C. Jones Certificate No. Gary L. Jones 7977  BASIN SURVEYS	
<b>BOTTOM HOLE LOCATION</b> Lat - N32°59'42.55" Long - W103°52'06.98" NMSPCE- N 726087.584 E 683820.605 (NAO-83)		<b>SURFACE LOCATION</b> Lat - N32°59'42.53" Long - W103°51'14.08" NMSPCE- N 726105.5 E 688325.6 (NAO-83)			
E0-8663-0002		E0-7412-0004		E0-8663-0002	
375' BHL 375'		4506.3'		SHL & 375' Penetration Point Abo 375'	