

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, LEA COUNTY, NEW MEXICO.

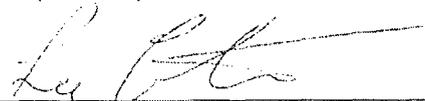
Case No. 14,368

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 Bone Spring formation. The Bone Spring formation dips to the south. Exhibit A also contains production data from existing, vertical wells in the pool.
4. Exhibit B is a cross section which shows the productive interval and stratigraphic target for horizontal Bone Spring wells in the area.
5. Attached as Exhibit C is the horizontal drilling plan for the proposed 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 Bone Spring, and Cimarex anticipates producing reserves from each quarter-quarter section.



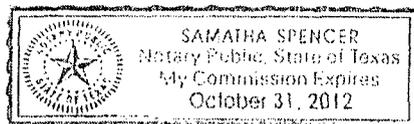
Lee Catalano

SUBSCRIBED AND SWORN TO before me this 10 day of November, 2009 by Lee Catalano.

My Commission Expires: October 31, 2012

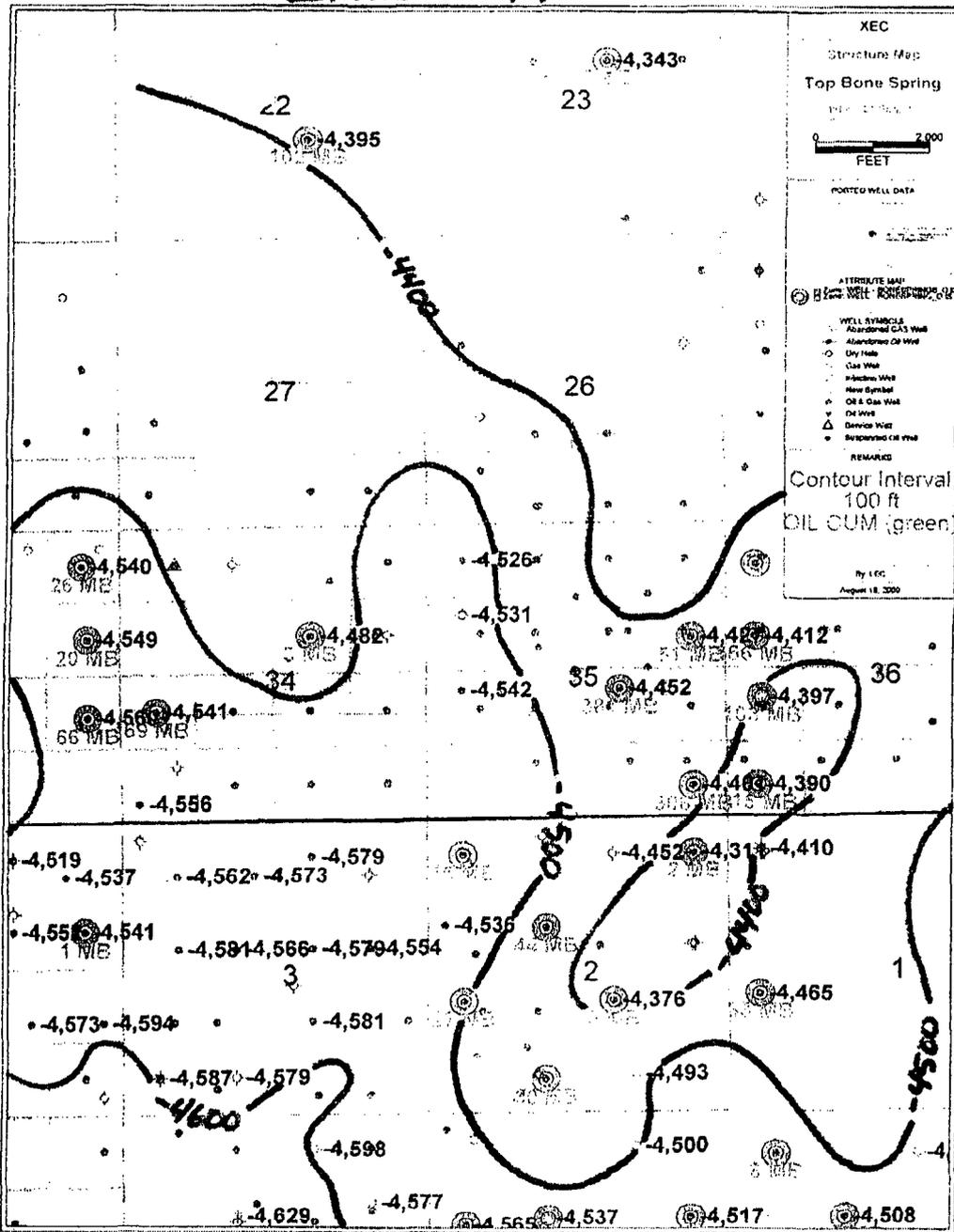


Notary Public

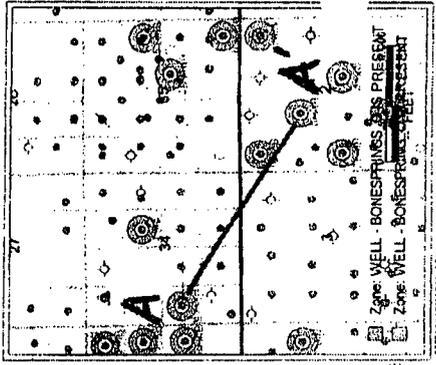


Oil Conservation Division
Case No. _____
Exhibit No. 2

Exhibit A



FILED IN 07/22/00 11:07:28 PM



ELEV. KB : 3,698
59042

SARSON RESOURCES COMPANY
COMP. DATE : 5/1/2007
EAGLE 2 STATE

TZOS R34E S2
1980 FNL 2130 FWL
BONESPRINGS_O : 44.2% PPI
BONESPRINGS_W : 57.0% BBL

ELEV. KB : 3,687
32818

CIMAREX ENERGY OF COLORADO
COMP. DATE : 9/25/1997
MALLON '34' FEDERAL

T15S R34E S34
1980 FSL 660 FWL
BONESPRINGS_O : 44.2% PPI
BONESPRINGS_W : 134.74% BBL

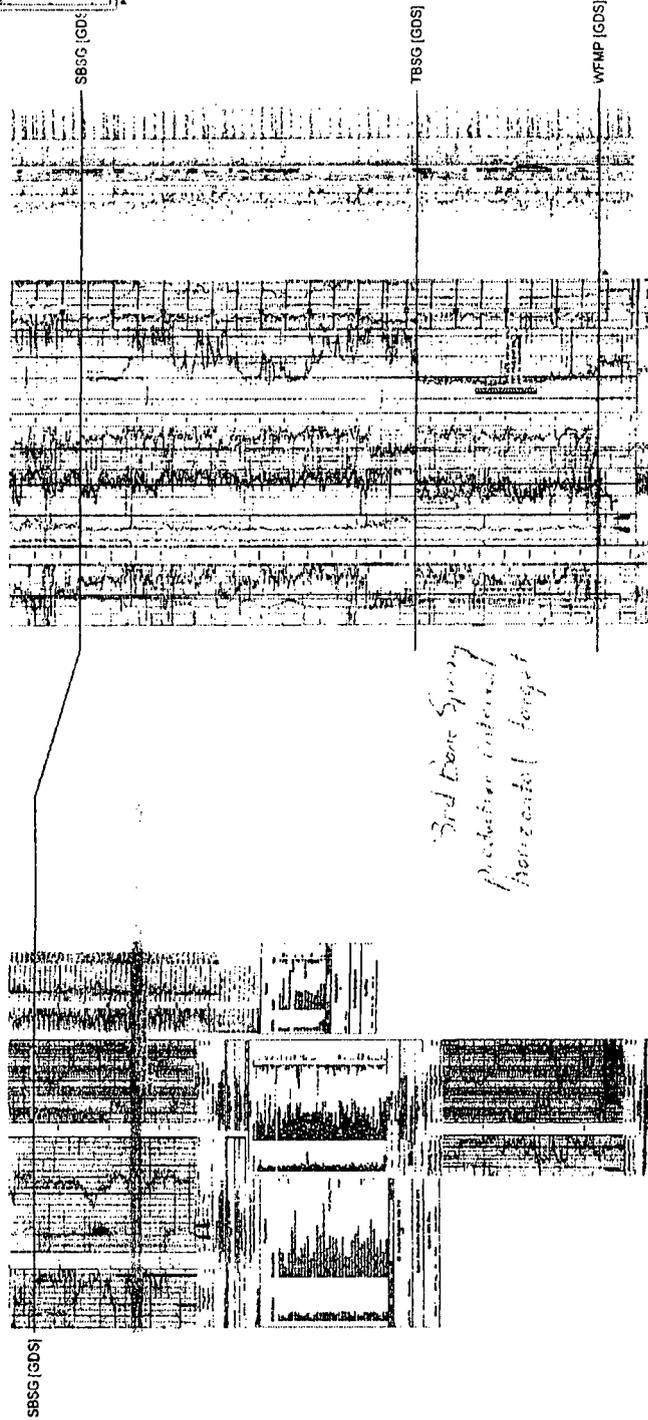


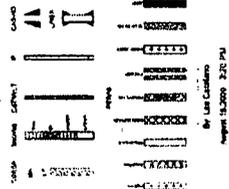
Exhibit B

CIMAREX ENERGY

Structural Cross-section

Mallon 34 Fed # 16

LeaCo., NM



DISTRICT I
1025 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
1820 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name MALLON "34" FEDERAL	Well Number 20
OGRID No.	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3697'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	34	19 S	34 E		730	NORTH	330	WEST	LEA

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
A	34	19 S	34 E		330	NORTH	330	EAST	LEA

Dedicated Acres	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

SURFACE LOCATION
 Lat - N 32°37'19.27"
 Long - W 103°33'20.01"
 NMSPCE- N 590897.5
 E 780799.6
 (NAD-83)

PROPOSED BOTTOM HOLE LOCATION
 Lat - N 32°37'23.20"
 Long - W 103°32'25.98"
 NMSPCE- N 591329.16
 E 785417.99
 (NAD-83)

OPERATOR CERTIFICATION

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.

Signature _____ Date _____

Printed Name _____

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.

Date Surveyed _____

Signature & Seal of Professional Surveyor _____

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

EXHIBIT C