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

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO. 21021

Examiner Docket: February 6, 2020

CIMAREX'S EXHIBITS

Riverbend 12-13 Fed Com 29H, Riverbend 12-13 Fed Com 30H, Riverbend 12-13 Fed Com 31H, Riverbend 12-13 Fed Com 32H, Riverbend 12-13 Fed Com 33H, Riverbend 12-13 Fed Com 34H, and Riverbend 12-13 Fed Com 35H



Earl E. DeBrine, Jr. Lance D. Hough

MODRALL SPERLING 500 Fourth Street NW, Suite 1000 P. O. Box 2168 / Albuquerque, NM 87103 Telephone 505.848.1800 <u>edebrine@modrall.com</u> Idh@modrall.com

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

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- Exhibit A Compulsory Pooling Application Checklist
- Exhibit B Affidavit of Caitlin Pierce
 - B-1 Application
 - B-2 C102s
 - B-3 Tract Map with WIs and ORRIs
 - B-4 Well Proposal Letter
 - B-5 Excerpt from Proposed JOA
 - B-6 Authorization for Expenditure
 - B-7 Communication Timeline

Exhibit C Affidavit of Harrison Hastings

- C-1 Gun Barrel Diagram
- C-2 Regional Locator Map
- C-3 Cross-Section Locator Map
- C-4 Deep Structure Map
- C-5 Lower Wolfcamp Isopach Map
- C-6 Stratigraphic Cross Section
- C-7 Target Zone within Stratigraphic Cross Section
- Exhibit D Affidavit of Lance D. Hough
 - D-1 Hearing Notice
 - D-2 Certified Mail Log / Notice January 16, 2020
 - D-3 Certified Mail Log / Report February 4, 2020
 - D-4 Affidavit of Publication

Earl E. DeBrine, Jr. Lance D. Hough

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COMPULSORY POOLING APPLICATION CHECKLIST (pdf)

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 21021	APPLICANT'S RESPONSE
Date 2/6/20	
Applicant	Cimarex Energy Co.
Designated Operator & OGRID (affiliation if applicable)	Cimarex Energy Co. (OGRID 215099)
Applicant's Counsel:	Modrall Sperling
Case Title:	APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY COUNTY, NEV MEXICO, CASE NO. 21021
Entries of Appearance/Intervenors:	None
Well Family	Riverbend
Formation/Pool	
Formation Name(s) or Vertical Extent:	Wolfcamp Formation
Primary Product (Oil or Gas):	Gas
Pooling this vertical extent:	Wolfcamp Formation
Pool Name and Pool Code:	Purple Sage; Wolfcamp Pool (Pool Code 98220)
Well Location Setback Rules:	Division's special set back requirements in Order No. R-14262
Spacing Unit Size:	640 Acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	640 Acres
Building Blocks:	Half Section Equivalents
Orientation:	North to South
Description: TRS/County	W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Applicant's Ownership in Each Tract	Exhibit B.3
Nell(s)	
Name & API (if assigned), surface and bottom hole location, ootages, completion target, orientation, completion status standard or non-standard)	See Exhibit B.1 and Exhibit B.2
Well #1	Riverbend 12-13 Fed Com 29H, API No. 30-015-Pending SHL: SE/4 SE/4 (Unit P) of Section 3, Township 25 South, Range 26 East, NMPM, Eddy County. BHL: SW/4 SW/4 (Unit M) of Section 4, Township 25 South, Range 26 East, NMPM, Eddy County Completion Target: Wolfcamp at approx 10,760 feet TVD. Well Orientation: North to South
Nell #2	Completion Location expected to be: Standard Riverbend 12-13 Fed Com 30H, API No. 30-015-Pending SHL: 1,379' FSL and 1,376' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 2310' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County. Completion Target: Wolfcamp at approx 9,714 feet TVD. Well Orientation: North to South Completion Location expected to be: Standard

MI-11 HD	
Well #3	Riverbend 12-13 Fed Com 31H, API No. 30-015-Pending SHL: 1,439' FSL and 1,376' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 1,874' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County.
	Eddy County Completion Target: Wolfcamp at approx 9,918 feet TVD. Well Orientation: North to South
Well #4	Completion Location expected to be: Standard
	Riverbend 12-13 Fed Com 32H, API No. 30-015-Pending SHL: 1,439' FSL and 1,257' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 330' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County
	Completion Target: Wolfcamp at approx 9,918 feet TVD. Well Orientation: North to South Completion Location expected to be: Standard
Well #5	Riverbend 12-13 Fed Com 33H, API No. 30-015-Pending SHL: 1,439' FSL and 1,277' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 716' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County
	Completion Target: Wolfcamp at approx 9,714 feet TVD. Well Orientation: North to South Completion Location expected to be: Standard
Well #6	Riverbend 12-13 Fed Com 34H, API No. 30-015-Pending SHL: 1,439' FSL and 1,297' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 1,102' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County
	Completion Target: Wolfcamp at approx 9,918 feet TVD. Well Orientation: North to South Completion Location expected to be: Standard
Nell #7	Riverbend 12-13 Fed Com 35H, API No. 30-015-Pending SHL: 1,439' FSL and 1,317' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 1,488' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County
	Completion Target: Wolfcamp at approx 9,714 feet TVD. Well Orientation: North to South Completion Location expected to be: Standard
lorizontal Well First and Last Take Points	Exhibit B.2
ompletion Target (Formation, TVD and MD)	Exhibit B.1; Exhibit B.2; Exhibit B.4; Exhibit C.6, Exhibit C.1; Exhibit C.7
FE Capex and Operating Costs	
rilling Supervision/Month \$	6,500
roduction Supervision/Month \$	650
stification for Supervision Costs	Exhibit B.6 for AFEs
equested Risk Charge	200%; see Exhibit B
otice of Hearing	
oposed Notice of Hearing	Exhibit D.1
oof of Mailed Notice of Hearing (20 days before hearing)	Exhibit D.2 and D.3
oof of Published Notice of Hearing (10 days before hearing)	Exhibit D.4
wnership Determination	
nd Ownership Schematic of the Spacing Unit	Exhibit B; Exhibit B.3
act List (including lease numbers and owners)	Exhibit B.3

Pooled Parties (including ownership type)	Exhibit B.3
Unlocatable Parties to be Pooled	Exhibit B.3; Exhibit D.2
Ownership Depth Severance (including percentage above & below)	N
Joinder	None
Sample Copy of Proposal Letter	
	Exhibit B.4
List of Interest Owners (ie Exhibit A of JOA)	Exhibit B.3
Chronology of Contact with Non-Joined Working Interests	Exhibit B.7
Overhead Rates In Proposal Letter	Exhibit B.5
Cost Estimate to Drill and Complete	Exhibit B.6 for AFEs
Cost Estimate to Equip Well	Exhibit B.6 for AFEs
Cost Estimate for Production Facilities	Exhibit B.6 for AFEs
Geology	
Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibits C.1, C.2, and C.3
Gunbarrel/Lateral Trajectory Schematic	Exhibit C.1
Well Orientation (with rationale)	Exhibit C
Target Formation	Exhibits C.6 and C.7
HSU Cross Section	Exhibits C.6 and C.7
Depth Severance Discussion	Exhibit B
Forms, Figures and Tables	
C-102	Exhibitc B.2
Tracts	Exhibit B.3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit B.3
General Location Map (including basin)	Exhibit C.2
Nell Bore Location Map	Exhibits C.1
Structure Contour Map - Subsea Depth	Exhibit C.4
Cross Section Location Map (including wells)	Exhibits C.3
Cross Section (including Landing Zone)	Exhibits C.6 and C.7
Additional Information	
CERTIFICATION: I hereby certify that the information pro	vided in this checklist is seen by an and
Printed Name (Attorney or Party Representative):	Lance Home
igned Name (Attorney or Party Representative):	L-fh-
bate:	2/5/20

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

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO. 21021

AFFIDAVIT OF CAITLIN PIERCE

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Caitlin Pierce, being duly sworn, deposes and states:

1. I am a landman for Cimarex Energy Co. ("Cimarex"), over the age of 18 and have personal knowledge of the matters stated herein. I have previously been qualified to testify by the New Mexico Oil Conservation Division as an expert in petroleum land matters.

2. Pursuant to NMAC 19.15.4.12.A(1), the following information is submitted in support of the above referenced compulsory pooling applications filed by Cimarex.

3. This case involves a request for an order from the Division for compulsory pooling of interest owners who have refused to voluntarily pool their interests for the proposed Wolfcamp horizontal spacing unit described below, and in the well to be drilled in the horizontal spacing unit.

4. Prior to filing it application, Cimarex made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed well. Cimarex identified all of the working interest, unleased mineral interests, and overriding royalty interest owners from a title opinion. To locate interest owners, Cimarex conducted a diligent search of the public records in the county where the well will be located, and conducted phone directory and computer searches to locate



contact information for parties entitled to notification. I mailed all working interest owners well proposals and an Authorization for Expenditure, and a form of Operating Agreement upon request.

5. No opposition is expected. Prior to filing its applications Cimarex contacted the interest owners being pooled regarding the proposed well; the pooled working interest owners have failed or refused to voluntarily commit their interests in the well. Cimarex provided all of the working interest owners, any unleased mineral owners, and overriding royalty owners with notice of this application, and none have entered an appearance in opposition to Cimarex's application.

6. In its Application, Cimarex seeks an order from the Division: (1) to the extent necessary, approving the creation of a 640-acre, more or less, Wolfcamp horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Riverbend 12-13 Fed Com 29H**, **Riverbend 12-13 Fed Com 30H**, **Riverbend 12-13 Fed Com 31H**, **Riverbend 12-13 Fed Com 33H**, **Riverbend 12-13 Fed Com 34H**, and **Riverbend 12-13 Fed Com 35H** wells, to be horizontally drilled. The Application is attached hereto as **Exhibit B.1**.

7. Attached as **Exhibit B.2** are the C-102s for the proposed wells. The wells will develop the Purple Sage; Wolfcamp Pool (Pool Code 98220), which is a gas pool. The producing interval for the wells will be orthodox and will comply with the Division's special set back requirements in Order No. R-14262, as the first and last take points will be no closer than 330' from the proposed unit boundary and the completed lateral will be no closer than 330' from the proposed unit boundary.

8. A lease tract map outlining the unit to be pooled is attached hereto as **Exhibit B.3**. The working interest owners being pooled and the percent of their interest, as well as a list of overriding royal interest owners being pooled, are also included as part of **Exhibit B.3**. Cimarex owns an interest in the proposed unit and has a right to drill a well thereon.

9. There are no depth severances within the proposed spacing unit.

10. **Exhibit B.4** is a sample well proposal letter sent to each of the working interest owners seeking their voluntary participation in the wells.

11. **Exhibit B.5** is an excerpt of the proposed joint operating agreement, included with the well proposal letter sent to each of the working interest owners, that provides overhead and administrative rates of \$6,500/month during drilling and \$650/month while producing.

12. **Exhibit B.6** are the Authorizations for Expenditure for the proposed wells. The estimated cost of each well, set forth therein and listed below, is fair and reasonable, and is comparable to the costs of other wells of similar depth, length and completion method being drilled in this area of New Mexico.

a. Riverbend 12-13 Fed Com 29H: \$13,028,000.

b. Riverbend 12-13 Fed Com 30H: \$12,353.000.

c. Riverbend 12-13 Fed Com 31H: \$11,249,000.

d. Riverbend 12-13 Fed Com 32H: \$11,256,000.

e. Riverbend 12-13 Fed Com 33H: \$11,230.000.

f. Riverbend 12-13 Fed Com 34H: \$11,238,000.

g. Riverbend 12-13 Fed Com 35H: \$11,230,000.

13. Exhibit B.7 is a summary of communications with the non-joined working interest.

14. Cimarex requests overhead and administrative rates of \$6,500/month during drilling and \$650/month while producing. These rates are fair and comparable to the rates charged by other operators for wells of this type in this area of Southeastern, New Mexico and consistent

with the rates awarded by the Division in in recent compulsory pooling orders. Cimarex requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

15. Cimarex requests the maximum cost plus 200% risk charge be assessed against non-consenting pooled working interest owners.

16. Cimarex requests that it be designated operator of the well.

17. Cimarex requests that it be allowed a period of one (1) year between when the wells are drilled and when the first well is completed under the order.

18. The parties Cimarex is seeking to pool were notified of this hearing.

19. Cimarex requests that overriding royalty interest owners be pooled.

20. Based upon my knowledge of the land matters involved in this case, education and training, it is my expert opinion that the granting of Cimarex's applications in this case is in the interests of conservation and the prevention of waste.

21. The attachments to my Affidavit were prepared by me or compiled from company business records.

22. I attest that the information provided herein is true, correct and complete to the best of my knowledge and belief.

Caitlin Pierce

SUBSCRIBED AND SWORN to before me this 5th day of February 2020 by Caitlin Pierce.



Notary Public My commission expires: 4-29-2023

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

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO.

APPLICATION

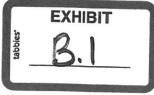
Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. In support of this application, Cimarex states as follows:

 Cimarex is an interest owner in the subject lands and has a right to drill a well thereon.

2. Cimarex seeks to dedicate the W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 640-acre, more or less, Wolfcamp horizontal spacing unit.

3. Cimarex plans to drill the **Riverbend 12-13 Fed Com 29H** to **35H** wells to a depth sufficient to test the Wolfcamp formation, and laterally in a southerly direction within the formation to the referenced bottom hole location:

a. The Riverbend 12-13 Fed Com 29H well is a horizontal well with a surface hole location at 1,379' FSL and 1396' FWL of Section 1, Township 25 South, Range 28 East, Eddy County, and an intended bottom hole location at 330' FSL and 2200' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This well is proposed to be drilled vertically to a depth of approximately 10,760' to the Wolfcamp formation.



- b. The Riverbend 12-13 Fed Com 30H well is a horizontal well with a surface hole location at 1,379' FSL and 1,376' FWL of Section 1, Township 25 South, Range 28 East, Eddy County, and an intended bottom hole location at 330' FSL and 2310' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This well is proposed to be drilled vertically to a depth of approximately 9,714' to the Wolfcamp formation.
- c. The Riverbend 12-13 Fed Com 31H well is a horizontal well with a surface hole location at 1,439' FSL and 1,376' FWL of Section 1, Township 25 South, Range 28 East, Eddy County, and an intended bottom hole location at 330' FSL and 1,874' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This well is proposed to be drilled vertically to a depth of approximately 9,918' to the Wolfcamp formation.
- d. The Riverbend 12-13 Fed Com 32H well is a horizontal well with a surface hole location at 1,439' FSL and 1,257' FWL of Section 1, Township 25 South, Range 28 East, Eddy County, and an intended bottom hole location at 330' FSL and 330' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This well is proposed to be drilled vertically to a depth of approximately 9,918' to the Wolfcamp formation.
- e. The Riverbend 12-13 Fed Com 33H well is a horizontal well with a surface hole location at 1,439' FSL and 1,277' FWL of Section 1, Township 25 South, Range 28 East, Eddy County, and an intended bottom hole location at 330' FSL and 716' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This well is proposed to be drilled vertically to a depth of approximately 9,714' to the Wolfcamp formation.
- f. The Riverbend 12-13 Fed Com 34H well is a horizontal well with a surface hole location at 1,439' FSL and 1,297' FWL of Section 1, Township 25 South, Range 28 East, Eddy County, and an intended bottom hole location at 330' FSL and 1,102' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This well is proposed to be drilled vertically to a depth of approximately 9,918' to the Wolfcamp formation.
- g. The Riverbend 12-13 Fed Com 35H well is a horizontal well with a surface hole location at 1,439' FSL and 1,317' FWL of Section 1, Township 25 South, Range 28 East, Eddy County, and an intended bottom hole location at 330' FSL and 1,488' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This well is proposed to be drilled vertically to a depth of approximately 9,714' to the Wolfcamp formation.

4. These wells will be located within the Purple Sage; Wolfcamp (Gas) Pool (Pool Code: 98220) and will comply with the Division's special setback requirements set forth in R-14262.

5. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

6. The creation of a horizontal spacing unit and the pooling of all interests in the Wolfcamp formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

7. A proposed Exhibit A for the Division's compulsory pooling order describing the horizontal spacing unit is attached hereto as "Exhibit A".

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on February 6, 2020, and after notice and hearing as required by law, the Division enter its order:

A. Creating an approximately 640-acre horizontal spacing unit in the Wolfcamp formation comprised of W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico;

B. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico;

C. Designating Cimarex as operator of this unit and the wells to be drilled thereon;

3

D. Authorizing Cimarex to recover its costs of drilling, equipping and completing the wells;

E. Approving actual operating charges and costs charged for supervision,

together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

F. Setting a 200% charge for the risk involved in drilling and completing the

wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS & SISK, P.A.

By:

Earl E. DeBrine, Jr. Lance D. Hough Post Office Box 2168 500 Fourth Street NW, Suite 1000 Albuquerque, New Mexico 87103-2168 Telephone: 505.848.1800 edebrine@modrall.com Idh@modrall.com Attorneys for Applicant

W3590721.DOCX

CASE NO. _____: Application of Cimarex Energy Co. for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 640-acre, more or less, Wolfcamp horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Riverbend 12-13 Fed Com 29H, Riverbend 12-13 Fed Com 30H, Riverbend 12-13 Fed Com 31H, Riverbend 12-13 Fed Com 32H, Riverbend 12-13 Fed Com 33H, Riverbend 12-13 Fed Com 34H, and Riverbend 12-13 Fed Com 35H wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 9.5 miles south of Loving, New Mexico.

Exhibit "A"

Applicant:Cimarex Energy Co.Operator:Cimarex Energy Co. (OGRID 215099)

Spacing Unit:Horizontal GasBuilding Blocks:Half Section EquivalentSpacing Unit Size:640 acres (more or less)Orientation of Unit:North/South

Spacing Unit Description: <u>W/2 of Sections 12 and 13, Township 25 South, Range 28 East,</u> <u>NMPM, Eddy County, New Mexico</u>

Pooling this Vertical Extent: <u>Wolfcamp Formation</u> Depth Severance? (Yes/No): <u>No</u>

Pool:	Purple Sage; Wolfcamp Gas (Pool code 98220)
Pool Spacing Unit Size:	Half Sections
Governing Well Setbacks:	Special Rules for the Purple Sage Gas Pool Apply
Pool Rules:	Purple Sage and Horizontal Well Rules

Proximity Tracts: <u>No</u>

Monthly charge for supervision: <u>While drilling: \$6,500; while producing: \$650</u> As the charge for risk, 200 percent of reasonable well costs.

Proposed Wells:

Riverbend 12-13 Fed Com 29H, API No. 30-015-Pending

SHL:1,379' FSL and 1396' FWL of Section 1, Township 25 South, Range 28 East, EddyCounty.BHL:330' FSL and 2200' FWL of Section 13, Township 25 South, Range 28 East,NMPM, Eddy County.

Completion Target:Wolfcamp at approx 10,760 feet TVD.Well Orientation:North to SouthCompletion Location expected to be:Standard

Riverbend 12-13 Fed Com 30H, API No. 30-015-Pending

SHL: 1,379' FSL and 1,376' FWL of Section 1, Township 25 South, Range 28 East, Eddy County.

BHL: 330' FSL and 2310' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County.

Case No. ____ Order No. R-____ Page 2 of 3

Completion Target:Wolfcamp at approx 9.714 feet TVD.Well Orientation:North to SouthCompletion Location expected to be:Standard

Riverbend 12-13 Fed Com 31H, API No. 30-015-Pending

SHL: 1,439' FSL and 1,376' FWL of Section 1, Township 25 South, Range 28 East, Eddy County.
BHL: 330' FSL and 1,874' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County.

Completion Target:Wolfcamp at approx 9,918 feet TVD.Well Orientation:North to SouthCompletion Location expected to be:Standard

Riverbend 12-13 Fed Com 32H, API No. 30-015-Pending

SHL: 1,439' FSL and 1,257' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 330' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County.

Completion Target:Wolfcamp at approx 9,918 feet TVD.Well Orientation:North to SouthCompletion Location expected to be:Standard

Riverbend 12-13 Fed Com 33H, API No. 30-015-Pending

SHL: 1,439' FSL and 1,277' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 716' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County.

Completion Target:Wolfcamp at approx 9,714 feet TVD.Well Orientation:North to SouthCompletion Location expected to be:Standard

Riverbend 12-13 Fed Com 34H, API No. 30-015-Pending

SHL: 1,439' FSL and 1,297' FWL of Section 1, Township 25 South, Range 28 East, Eddy County.
BHL: 330' FSL and 1,102' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County.

Completion Target:Wolfcamp at approx 9,918 feet TVD.Well Orientation:North to SouthCompletion Location expected to be:Standard

Riverbend 12-13 Fed Com 35H, API No. 30-015-Pending

Case No. _____ Order No. R-____ Page 3 of 3

> SHL: 1,439' FSL and 1,317' FWL of Section 1, Township 25 South, Range 28 East, Eddy County. BHL: 330' FSL and 1,488' FWL of Section 13, Township 25 South, Range 28 East, NMPM, Eddy County.

Completion Target:Wolfcamp at approx 9,714 feet TVD.Well Orientation:North to SouthCompletion Location expected to be:Standard

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. ARTESIA DISTRICT

Form C-102 Revised August 1, 2011 Submit one copy to appropriate **District** Office

AMENDED REPORT

Santa Fe, NM 87505

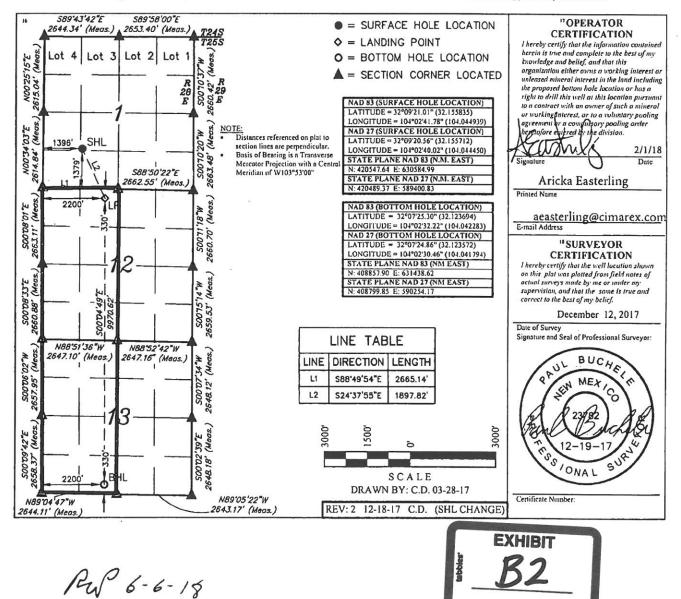
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WELL LOCATION AND ACREAGE DEDICATIORECEIVED

3(API Number)-015 4	15021	³ Pool Code 98220 Purple Sage Wolfcamp gas							
32148	2			RIV		* Well Number 29H				
'OGRIDI 21509			Operator Name CIMAREX ENERGY CO.							
					"Surface	Location			10	
UL or lot no. K	Section 1	Township 25S	Range 28E	Lot Idn	Feet from the 1379	North/South line SOUTH	Feet from the 1396	East/West line WEST	County EDDY	
	-55 Eleta - 1		п	Bottom H	ole Location I	f Different From	Surface			
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	EastAVest line	County	

N N	13	258	28E	Lot Ion	330	SOUTH	2200	WEST	EDDY
¹¹ Dedicated Acre 640	13 13	Joint or Infill	¹⁴ Conso	olidation Code	15 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.



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

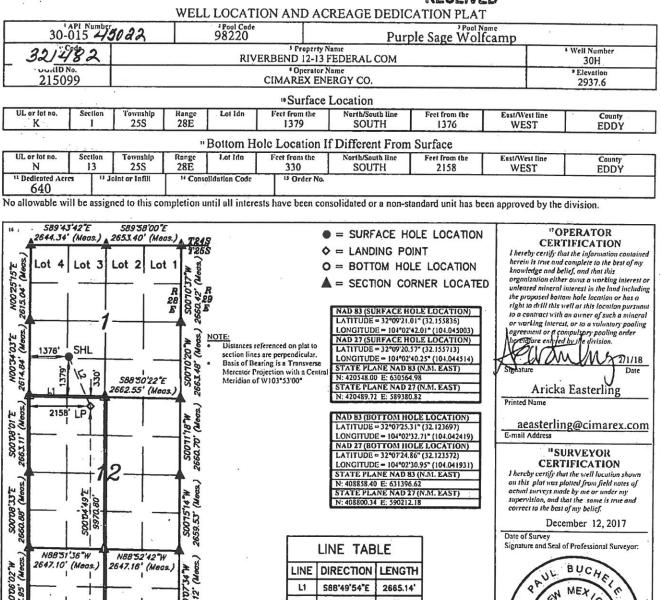
State of New Mexico Energy, Minerals & Natural Resource Department one copy to appropriate OIL CONSERVATION DIVISION DIVISION DISTRICT

1220 South St. Francis Dr. JUN 0 6 2018 Santa Fe, NM 87505

Form C-102

AMENDED REPORT

RECEIVED



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S88'49'54"E

S24'01'51"E

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1888.38

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SCALE

DRAWN BY: S.F. 08-09-17

REV: 1 12-18-17 C.D. (SHL CHANGE)

NEW

SS

Certificate Number:

ONAL

SUR

3000

Pup 6-6-18

3

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220

2158

N89 04 47 W

2644.11' (Meas.)

500'07 2648.12

(Neos)

N8905'22"W

2643.17' (Meas.)

S0076

42 E

58.37

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 strict III Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department II-ARTESIA August 1, 2011 OIL CONSERVATION DIVISION District Office 1220 South St. Francis Dr. Santa Fe, NM 87505

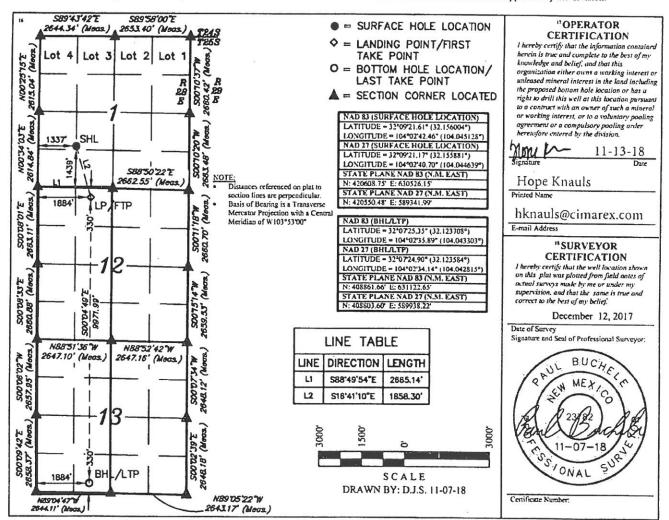
MAY 0 7 2019

Form C-102

AMENDED REPORT

			WELI	L LOCAT	ION AND AC	REAGE DEDIC	CATION PLAT	Γ	
30-015	API Number	5972	Τ	Pool Code 98220		Purp	le Sage Wolf	camp (Gas)	
* Property Co 321482	2			RIV	Property N ERBEND 12-13				• Well Number 31H
⁷ OGRID N 215099					Operator N CIMAREX ENI				* Elevation 2937.5
					*Surface	Location			
UL or lot no. K	Section	Township 25S	Range 28E	Lot Idn	Feet from the 1439	North/South line SOUTH	Feet from the 1337	East/West line WEST	County EDDY
			11	Bottom H	ole Location I	f Different From	Surface		
UL or lot no. N	Section 13	Township 25S	Range 28E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 1884	East/West line WEST	County EDDY
Dedicated Acre 640	a ni	olat or Iafill	¹⁴ Conse	olidation Code	15 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.



Rup 5-9-19

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (375) 393-6161 Fax: (573) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170

State of New Mexico Energy, Minerals & Natural Resources Department **7** 2019 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

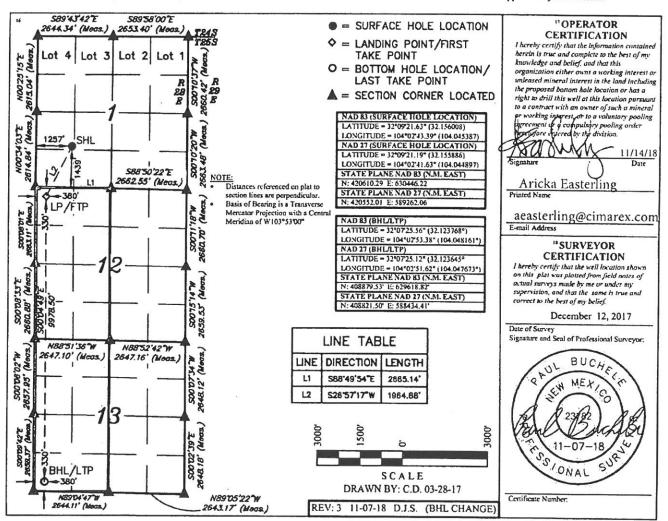
WELL LOCATION AND ACREAGE DEDICATION PLAT

95973	Pool Code 98220	Purple Sage Wolfcamp (Gas)	
		Property Name 0 12-13 FEDERAL COM	• Well Number 32H
		Dperator Name EX ENERGY CO.	⁹ Elevation 2938.4
	CIMAR		

UL or lot po.	Section	Township	Range	Lot Ido	Feet from the	North/South line	Feet from the	East/West line	County
L	1	25S	28E		1439	SOUTH	1257	WEST	EDDY
				Bottom U	ala Location I	f Different From	Surfage		

					DOLLOILI H	Die Location I	I Different From	Surface		
UL or to M	t no.	Section 13	Township 25S	Range 28E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 380	East/West line WEST	County EDDY
¹² Dedica 64		ננו	olat or Isfill	If Conse	alidation Code	15 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.



RW 5-9-19

Form C-102

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phonae: (505) 334-6178 Fax: (505) 334-6170

Energy, Minerals & Natural Resources Department 7 2019 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. DISTRICT II-ARTESIA O.OD Santa Fe, NM 87505

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

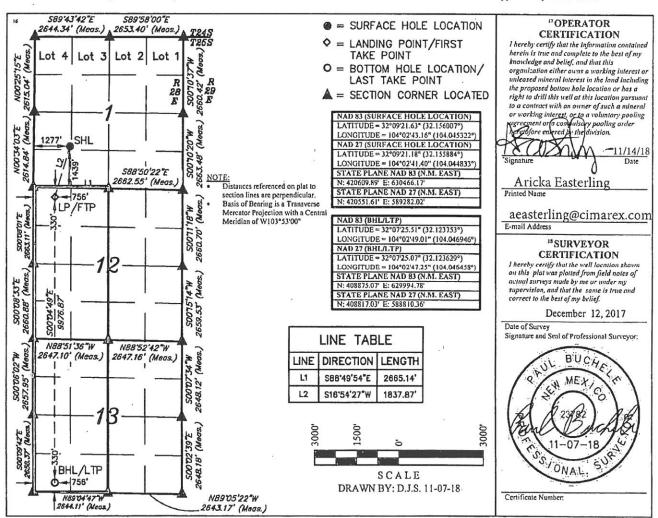
WELL LOCATION AND ACREAGE DEDICATION PLAT

State of New Mexico

	30-015 45974 ^{Pool Cade} 98220 Purple Sage Wolfcamp (Gas)									
32148	⁴ Property Cade 321482 RIVERBEND 12-13 FEDERAL COM									
215099	^o Ogerator Name 215099 CIMAREX ENERGY CO.								*Elevation 2938.2	
					"Surface	Location		•		
UL or lot no. L	Section 1	Township 25S	Range 28E	Lot Idn	Feet from the 1439	North/South line SOUTH	Feet from the 1277	East/West line WEST	County EDDY	
			п	Bottom H	lole Location I	f Different From	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	

. M	13	25S	28E		330	SOUTH	756	WEST	EDDY
¹² Dedicated Acre 640	ց յլ	oint or Infill		olidation Code	15 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.



Riv 5-9-19

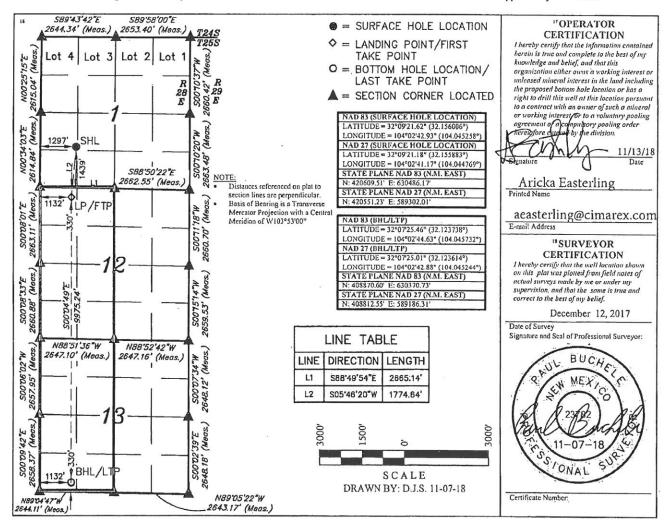
District] 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-7283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico MAY 0 7 2019 Form C-102 Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISIONSTRICT II-ARTESIA O.C.D. District Office 1220 South St. Francis Dr. AMENDED REPORT Santa Fe, NM 87505

			WELL	LOCATI	ON AND AC	REAGE DEDIC	ATION PLAT	Γ	
30-015 45975				² Pool Code 98220		Purple Sage Wolfcamp (Gas)			
⁴ Property Code 321482			* Property Name RIVERBEND 12-13 FEDERAL COM					• Well Number 34H	
⁷ OGRID №. 215099			*Operator Name CIMAREX ENERGY CO.					Elevation 2937.9	
					"Surface	Location			
UL or lot no. L	Section 1	Township 25S	Range 28E	Lot Idn	Feet from the 1439	North/South line SOUTH	Feet from the 1297	East/West line WEST	County EDDY
			11]	Bottom Ho	le Location I	f Different From	Surface		
UL or lot no. M	Section 13	Township 25S	Range 28E	Lot Idn	Feel from the 330	North/South line SOUTH	Fect from the 1132	East/West line WEST	County EDDY
¹² Dedicated Acres ¹³ J 640		oint or Infill	14 Conso	lidation Code	¹⁵ Order No.				

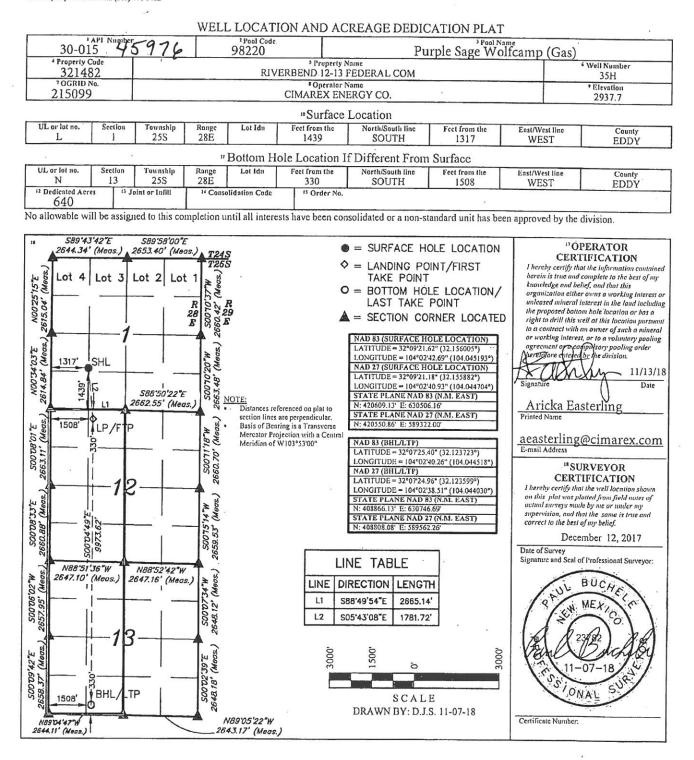
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



KW5-9-19

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District 11 811 S. First SL., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District 111 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 374-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico MAY 0 7 2019 Form C-102 Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505



RN 5-9-19

Riverbend 12 – 13 Federal Com 29H, 30H, 31H, 32H, 33H, 34H & 35H – Pooled Interests

W/2 of Section 12 & W/2 of Section 13, Township 25 South, Range 28 East, Eddy County, New Mexico

OWNER	Tract	TYPE		Net Acres	Working Interest Percentage
Tap Rock Resources	3&4	Leasehold		36.5634375	5.713037%
Total				36.5634375	5.713037%
		act 4: V/4NW/4 e	Tract 5: NE/4NW/4 Fee		
	SW	nct 3: //4NW/4, V/4SW/4 9	Tract 1: E/2SW/4, SE/4 of Section 12 NMNM 06104		
		nct 2: //4SW/4			
			Sec	tion 12	
	SW	nct 7: //4SW/4, 2NW/4, SE/4NW/4 e	Sec	tion 13	
		t 6: NM 088128 4NW/4			
			Tract 1: NW/4SW/4, E of Section 13	/2SW/4	
			NMNM 06104		
	sw,	ct 7: /4SW/4, NW/4, SE/4NW/4			



ORRI Owners		Tract	Section
United States of America	DI	4 2 2 4 2 5	4.0
Department of the Interior, Bureau of Land Management	RI	1,2,3,4 & 5	13
Monty D McClane	ORRI	1, 3, 5	13
Alan Jochimsen	ORRI	1, 6, 7	13
States Royalty, LP	ORRI	1, 6, 7	13
Morris E Schertz	ORRI	1, 6, 7	13
Orion Oil & Gas Properties	ORRI	1, 6, 7	13
Premier Oil & Gas Inc	ORRI	1, 6, 7	13
GHHunker, LLC	ORRI	1, 6, 7	13
Chisos Minerals, LLC	ORRI	1, 6, 7	13
Norton LLC	ORRI	1, 6, 7	13
MKHM Oil, LLC	ORRI	1, 6, 7	13
OGI, Inc	ORRI	1, 6, 7	13
Energy Properties, LP	ORRI	1, 6, 7	13
ROEC Inc	ORRI	1, 6, 7	13
Sam L. Shackelford	ORRI	1, 6, 7	13
Robin K. Shackelford	ORRI	1, 6, 7	13
The Willian N. Heiss Profit Sharing Plan, Willian N. Heiss and Susan E.			
Heiss, Co-Trustees	ORRI	1, 6, 7	13
Dutch-Irish Oil Company	ORRI	1, 6, 7	13
Matt Hinkle	ORRI	1, 6, 7	13
Rolla Hinkle, III	ORRI	1, 6, 7	13
Magnum Hunter Production Inc	ORRI	1, 6, 7	13
Curtis W Mewbourne, Trustee	ORRI	1, 6, 7	13
Conoco Phillips Company	ORRI	3	13
Centennial, a New Mexico Partnership	ORRI	3	13
Hutchings Oil Company	ORRI	3	13
Peter T. Balog, Trustee of the Balog Family Trust	ORRI	3	13
Vermego Property Investment Company	ORRI	3	13
Dan M. Leonard	LOR	3	13
Dan M. Leonard, Trustee of the DML Revocable Trust	LOR	3	13
LML Properties, LLC	LOR	3	13
Jack's Peak, LLC	LOR	3	13
Kevin K. Leonard, Trustee of the Kevin K. Leonard Child's Trust	LOR	3	13
Mark B. Murphy	LOR	3	
Strata Production Company	LOR		13
Valorie F. Walker, Trustee of the Jack V. Walker Revocable Trust	LOR	3	13
Sharon Winn Scott		3	13
	LOR	3	13
Worrall Investment Corporation	LOR	3	13
Mitchell Exploration Inc	LOR	3	13
Permian Basin Investment Corporation	LOR	3	13
Southwest Petroleum Land Services, LLC	LOR	3	13
Realtimezone, Inc.	LOR	3	13

Oak Valley Mineral & Land, LP	LOR	1,2,4	13
Stanley W. Light	LOR	1,2,4	13
Carlsbad National Bank Trust Department, Testamentary Trustee under			
the Last Will and Testament of Bradley T. Light	LOR	1,2,4	13
Curtis W. Mewbourne	LOR	1,2,4	13
OGX Royalty Fund, LP	ORI	1,2,4	13
Benny May Jenkins	LOR	1,2,4	12
James Matthew Jenkins	LOR	1,2,4	12
Leanne Jenkins Hacker	LOR	1,2,4	12
Joy Elizabeth Cooksey	LOR	1,2,4	12
James Monroe Cooksey, III	LOR	1,2,4	12
Douglas C Koch	LOR	1,2,4	12
Wayne Bissett	LOR	1,2,4	12
Andrew A Latham	LOR	1,2,4	12
Morris E. Schertz, et ux, Holly K Schertz	LOR	1,2,4	12
Larry G. Phillips et ux, Anne C. Phillips	LOR	1,2,4	12
Empire Energy LLC	LOR	1,2,4	12
New State Gas LLC	LOR	1,2,4	12
Charles Getchel Wiley, Trustee of the Charles Getchel Wiley Trust	LOR	1,2,4	12
Pegasus Resources, LLC	LOR	1,2,4	12
McMullun Minerals LLC	LOR	1,2,4	12
Ronadero Company Inc	LOR	1,2,4	12
Seaboard Oil Company	LOR	1,2,4	12
Rowan Family Minerals LLC	LOR	1,2,4	12
Cirrus Minerals, LLC	LOR	1,2,4	12
PEP II Management, LLC	LOR	1,2,4	12
BNSF Railway Company		1,2,4	12

Tract 4:	Tract 5:
NW/4NW/4	NE/4NW/4
Fee	Fee
* 1999 12 10 18	
	Tract 1:
Tract 3:	E/2SW/4, SE/4NW/4
SW/4NW/4, NW/4SW/4	of Section 12
Fee	
	NMNM 06104
Tract 2:	
SW/4SW/4	ан сайта сайта Сайта сайта сайт
Fee	
	Section 12
	Section 12
Tract 7:	Section 13
SW/4SW/4,	
N/2NW/4, SE/4NW/4	
Fee	
Fee Tract 6:	
Fee Tract 6: NMNM 088128	
Fee Tract 6:	
Fee Tract 6: NMNM 088128	
Fee Tract 6: NMNM 088128	Tract 1: NW/ASW/A_E/2SW/A
Fee Tract 6: NMNM 088128	Tract 1: NW/4SW/4, E/2SW/4 of Section 13
Fee Tract 6: NMNM 088128	NW/4SW/4, E/2SW/4 of Section 13
Fee Tract 6: NMNM 088128 SW/4NW/4	NW/4SW/4, E/2SW/4
Fee Tract 6: NMNM 088128 SW/4NW/4 Tract 7:	NW/4SW/4, E/2SW/4 of Section 13
Fee Tract 6: NMNM 088128 SW/4NW/4 Tract 7: SW/4SW/4,	NW/4SW/4, E/2SW/4 of Section 13
Fee Tract 6: NMNM 088128 SW/4NW/4 Tract 7:	NW/4SW/4, E/2SW/4 of Section 13

Cimarex Energy Co. 600 N. Marienfeld St. Suite 600 Midland, TX 79701 Main: 432.571.7800



September 5, 2019

Tap Rock Resources 802 Park Point Drive, Suite 200 Golden, Colorado 80401

> Re: Proposal to Drill Riverbend 12-13 Federal Com 29H-35H W/2 of Section 12 & 13, Township 25 South, Range 28 East, Eddy County, NM

Dear Working Interest Owner,

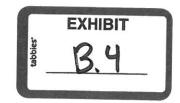
Cimarex Energy Co. previously proposed to drill the following wells in the West-half of Sections 12 & 13, Township 25 South, Range 28 East, Eddy County, NM under that certain Operating Agreement dated February 7, 2017. After review of pugh clauses in the leases contributed by one of our working interest owners, it became apparent that Tap Rock Resources owns Wolfcamp rights within this spacing unit. Details of each well now being proposed to Tap Rock are as follows:

<u>Riverbend 12-13 Fed Com 29H</u> - The intended surface hole location for the well is 1,379 FSL and 1,396' FWL of Section 1, Township 25 South, Range 28 East, and the intended bottom hole location is 330' FSL and 2,200' FWL of Section 13, Township 25 South, Range 28 East. The well is proposed to be drilled vertically to a depth of approximately 10,760' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 23,173' feet from surface to terminus.

Riverbend 12-13 Fed Com 30H - The intended surface hole location for the well is 1,379' FSL and 1,376' FWL of Section 1, Township 25 South, Range 28 East, and the intended bottom hole location is 100' FSL and 2,310' FWL of Section 13, Township 25 South, Range 28 East. The well is proposed to be drilled vertically to a depth of approximately 9,714' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 22,437' feet from surface to terminus

<u>Riverbend 12-13 Fed Com 31H</u> - The intended surface hole location for the well is 1,439' FSL and 1,337' FWL of Section 1, Township 25 South, Range 28 East, and the intended bottom hole location is 330' FSL and 1,874' FWL of Section 13, Township 25 South, Range 28 East. The well is proposed to be drilled vertically to a depth of approximately 9,918' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 21,085' feet from surface to terminus.

Riverbend 12-13 Federal Com 32H - The intended surface hole location for the well is 1,439' FSL and 1,257' FWL of Section 1, Township 25 South, Range 28 East, and the intended bottom hole location is 330' FSL and 330' FWL of Section 13, Township 25 South, Range 28 East. The well is proposed to be drilled vertically to a depth of approximately 9,918' to the Wolfcamp formation and laterally in a



southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 21,254' feet from surface to terminus.

Riverbend 12-13 Federal Com 33H - The intended surface hole location for the well is 1,439' FSL and 1,277' FWL of Section 1, Township 25 South, Range 28 East, and the intended bottom hole location is 330' FSL and 716' FWL of Section 13, Township 25 South, Range 28 East. The well is proposed to be drilled vertically to a depth of approximately 9,714' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 20,651' feet from surface to terminus.

<u>Riverbend 12-13 Federal Com 34H</u> - The intended surface hole location for the well is 1,439' FSL and 1,297' FWL of Section 1, Township 25 South, Range 28 East, and the intended bottom hole location is 330' FSL and 1,102' FWL of Section 13, Township 25 South, Range 28 East. The well is proposed to be drilled vertically to a depth of approximately 9,918' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 20,855' feet from surface to terminus.

Riverbend 12-13 Federal Com 35H - The intended surface hole location for the well is 1,439' FSL and 1,317' FWL of Section 1, Township 25 South, Range 28 East, and the intended bottom hole location is 330' FSL and 1,488' FWL of Section 13, Township 25 South, Range 28 East. The well is proposed to be drilled vertically to a depth of approximately 9,714' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 20,651' feet from surface to terminus.

It should be understood that compliance with topography or cultural or environmental concerns, among others, might require modification of Cimarex's intended procedure. Cimarex will advise you of any such modifications.

Enclosed, in duplicate, is (i) our detailed AFEs reflecting estimated costs associated with each proposal, and; (ii) our proposed form of Operating Agreement governing operations of wells drilled in the W/2 of Sections 12 & 13, Township 25 South, Range 28 East, NMPM, Eddy County, NM. If you intend to participate, please approve and return one (1) original of the enclosed AFE, as well as the Election Form attached to this proposal, to the undersigned within 30 days of receipt of this proposal. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance to Cimarex prior to commencement of drilling operations; otherwise, you will be covered by insurance procured by Cimarex and will be responsible for your share of the cost.

If you should have any questions concerning the above, please call the undersigned at (432) 571-7862.

Respectfully,

aitlin Pierce

Exploration Landman

ELECTION TO PARTICIPATE Riverbend 12-13 Federal Com 29H

	Tap Rock Resources elects TO participate in the proposed Riverbend 12-13 Federal Com 29H well.
	Tap Rock Resources elects NOT to participate in the proposed Riverbend 12-13 Federal Com 29H well.
	, 2019.
Title:	
If your election above i	s TO participate in the proposed Riverbend 12-13 Federal Com 29H well, then:

_

_

 Cimarex Energy Co.
 Tap Rock Resources elects NOT to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

ELECTION TO PARTICIPATE Riverbend 12-13 Federal Com 30H

	Tap Rock Resources elects TO participate in the proposed Riverbend 12-13 Federal Com 30H well.
	Tap Rock Resources elects NOT to participate in the proposed Riverbend 12-13 Federal Com 30H well.
Dated this day of	, 2019.
Signature:	

Title: _____

Cimarex Energy Co.

If your election above is TO participate in the proposed Riverbend 12-13 Federal Com 30H well, then:

 Tap Rock Resources elects TO be covered by well control insurance procured by Cimarex Energy Co.
 Tap Rock Resources elects NOT to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be
deemed to have elected to be covered by well control insurance procured by

ELECTION TO PARTICIPATE Riverbend 12-13 Federal Com 31H

	Tap Rock Resources elects TO participate in the proposed Riverbend 12-13 Federal Com 31H well.
	Tap Rock Resources elects NOT to participate in the proposed Riverbend 12-13 Federal Com 31H well.
	, 2019.
Signature:	
Title:	

If your election above is TO participate in the proposed Riverbend 12-13 Federal Com 31H well, then:

Tap Rock Resources elects TO be covered by well control insurance procured by Cimarex Energy Co.
 Tap Rock Resources elects NOT to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

ELECTION TO PARTICIPATE Riverbend 12-13 Federal Com 32H

	Tap Rock Resources elects TO participate in the proposed Riverbend 12-13 Federal Com 32H well.
	Tap Rock Resources elects NOT to participate in the proposed Riverbend 12-13 Federal Com 32H well.
Dated this day of	, 2019.
Signature:	
Title:	

If your election above is TO participate in the proposed Riverbend 12-13 Federal Com 32H well, then:

 Tap Rock Resources elects TO be covered by well control insurance procured by Cimarex Energy Co.
 Tap Rock Resources elects NOT to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

ELECTION TO PARTICIPATE Riverbend 12-13 Federal Com 33H

×	Tap Rock Resources elects TO participate in the proposed Riverbend 12-13 Federal Com 33H well.
	Tap Rock Resources elects NOT to participate in the proposed Riverbend 12-13 Federal Com 33H well.
Dated this day of	, 2019.
Signature:	
Title:	

If your election above is TO participate in the proposed Riverbend 12-13 Federal Com 33H well, then:

Tap Rock Resources elects	TO be covered by	v well control	insurance produced by
· · · · · · · · · · · · · · · · · · ·		,	moundier provided by
Cimarex Energy Co.			

Tap Rock Resources elects **NOT** to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

ELECTION TO PARTICIPATE Riverbend 12-13 Federal Com 34H

	Tap Rock Resources elects TO participate in the proposed Riverbend 12-13 Federal Com 34H well.
	Tap Rock Resources elects NOT to participate in the proposed Riverbend 12-13 Federal Com 34H well.
Dated this day of	f, 2019.
Signature:	
Title:	

If your election above is TO participate in the proposed Riverbend 12-13 Federal Com 34H well, then:

 Tap Rock Resources elects TO be covered by well control insurance procured by Cimarex Energy Co.
 Tap Rock Resources elects NOT to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

ELECTION TO PARTICIPATE Riverbend 12-13 Federal Com 35H

	Tap Rock Resources elects TO participate in the proposed Riverbend 12-13 Federal Com 35H well.
	Tap Rock Resources elects NOT to participate in the proposed Riverbend 12-13 Federal Com 35H well.
Dated this day of	, 2019.
Signature:	
Title:	
If your election above is	s TO participate in the proposed Riverbend 12-13 Federal Com 35H well, then:
	Tap Rock Resources elects TO be covered by well control insurance procured by

Cimarex Energy Co.

Tap Rock Resources elects **NOT** to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

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	6	c)			COPAS 2005 Accounting Procedure Recommended by COPAS, Inc.
С	0	P	as	5	
	1 2			100000	an resources
	3				ervision not directly charged under Section II.2 (Labor)
	4				l services not directly chargeable under Section II.9 (Legal Expense)
	5				tion, other than those costs identified as directly chargeable under Section IL10 (Taxes and Permits)
	6		25		paration and monitoring of permits and certifications; preparing regulatory reports; appearances before or meetings with
	7				emmental agencies or other authorities having jurisdiction over the Joint Property, other than On-site inspections; reviewing,
	8 9			inte	rpreting, or submitting comments on or lobbying with respect to Laws or proposed Laws.
	10	Ove	erhead	i char	ges shall include the salaries or wages plus applicable payroll burdens, benefits, and Personal Expenses of personnel performing
	11	ove	rhead	funct	ions, as well as office and other related expenses of overhead functions.
	12				
	13	1.	01	ERH	EAD-DRILLING AND PRODUCING OPERATIONS
	14 15		Ar	com.	ensation for costs incurred but not chargeable under Section II (Direct Charges) and not covered by other provisions of this
	15				I, the Operator shall charge on either:
	17				
	18			Ø	(Alternative 1) Fixed Rate Basis, Section III.1.B.
	19				(Alternative 2) Percentage Basis, Section III.1.C.
	20			TE	CHNICAL SERVICES
	21 22		А,	IEC	Initioned der video
	23			(i)	Except as otherwise provided in Section II.13 (Ecological Environmental, and Safety) and Section III.2 (Overhead - Major
	24	1			Construction and Catastrophe), or by approval of the Parties pursuant to Section 16.A (General Matters), the salaries, wages,
	25				related payroll burdens and benefits, and Personal Expenses for On-site Technical Services, including third party Technical
	26				Services:
	27 28				Alternative 1 – Direct) shall be charged <u>direct</u> to the Joint Account.
	28				(Anter native x - Direct) sitem of charged miller to me John Account
	30				□ (Alternative 2 – Overhead) shall be covered by the <u>overhead</u> rates.
	31				
	32			(ii)	Except as otherwise provided in Section II.13 (Ecological, Environmental, and Safety) and Section III.2 (Overhead - Major
	33 34				Construction and Catastrophe), or by approval of the Parties pursuant to Section I.6.A (General Matters), the salaries, wages,
	34 35				related payroll burdens and benefits, and Personal Expenses for Off-site Technical Services, including third party Technical Services:
	36				
	37				☑ (Alternative 1 – All Overhead) shall be covered by the <u>overhead</u> rates.
	38				
	39 40				Alternative 2 – All Direct) shall be charged <u>direct</u> to the Joint Account.
	40				Alternative 3 - Drilling Direct) shall be charged direct to the Joint Account, only to the extent such Technical Services
	42				are directly attributable to drilling, redrilling, deepening, or sidetracking operations, through completion, temporary
	43				abandonment, or abandonment if a dry hole. Off-site Technical Services for all other operations, including workover,
	44				recompletion, abandonment of producing wells, and the construction or expansion of fixed assets not covered by Section
	45				III.2 (Overhead - Major Construction and Catastrophe) shall be covered by the overhead rates.
	46 47		No	withe	randing anything to the contrary in this Section III, Technical Services provided by Operator's Affiliates are subject to limitations
	48				in Section II.7 (Affiliates). Charges for Technical personnel performing non-technical work shall not be governed by this Section
	49				ut instead governed by other provisions of this Accounting Procedure relating to the type of work being performed.
	50				
	51	B.	OV	ERHI	AD—FIXED RATE BASIS
	52 53		(1)	The	Operator shall charge the Joint Account at the following rates per well per month:
	53 54		(1)	1 De	Operator smart enange the John Account at the following fates per well per month:
	55			Dri	ling Well Rate per month \$ 6,500.00 (prorated for less than a full month)
	56				
	57			Pro	ducing Well Rate per month \$_650.00
	58 59		(2)	A	lication of Overhead-Drilling Well Rate shall be as follows:
	60		(*)	~P1	ANALY A A A ALLER A A A A A A A A A A A A A A A A A A A
	61			(a)	Charges for onshore drilling wells shall begin on the spud date and terminate on the date the drilling and/or completion
	62				equipment used on the well is released, whichever occurs later. Charges for offshore and inland waters drilling wells shall
	63				begin on the date the drilling or completion equipment arrives on location and terminate on the date the drilling or completion
	64 65				equipment moves off location, or is released, whichever occurs first. No charge shall be made during suspension of drilling and/or completion operations for fifteen (15) or more consecutive calendar days.
	66				
					EXHIBIT
					B.5
		0	יסיעים	GHT	© 2005 by Council of Petroleum Accountants Societies, Inc. (COPAS)
		20			11



Company Entity				Date Prepared
Magnum Hunter Produ	ction Inc (430)			9/5/2019
Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	RIVERBEND 12-13 FEDERAL COM 29H Carisbad B	one Spring Prospec	t 300001-049.01	2617071
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	E/2 of Sections 12 & 13, Township 25 South, Rang Eddy County, New Mexico	ge 28 East,	7/15/2017	11/17/2018
New	Formation	Well Type 1	'tl Measured Depth	Ttl Vetical Depth
X Revision	Wolfcamp	DEV	21,061	10,750

Purpose Devon into Canaan, CWPLCO into Clayton Williams, Jr

Description

Drilling Drill and complete a horizontal test. Drill to 450°, set water string casing. Drill to 2665°, set surface casing. Drill to 10200' (KOP). Drill curve at 12°/100' initial build rate to +/- 75 degrees and set casing at +/- 10825' MD. Finish curve at +/- 4/100' to +/- 10710' TVD and drill a +/-9510' long lateral in the Wolfcamp formation. Run and cement production liner. Stage frac in stages. Drill out plugs. Run production packer, tubing and GLVs.

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$3,003,000		\$3,003,000
Completion Costs		\$7,878,750	\$7,878,750
Total Intangible Cost	\$3,003,000	\$7,878,750	\$10,881,750
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Tangible - Well Equipment	\$479,000	\$525,000	\$1,004,000
Tangible - Lease Equipment		\$1,142,250	\$1,142,250
Total Tangible Cost	\$479,000	\$1,667,250	\$2,146,250
		2002.0201-01	

Total Well Cost \$3,482,000 \$9,546,000 \$13,028,000

Comments On Well Costs

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

Well Control Insurance

Unless otherwise Indicated below, you, as a non-operating working interest owner, agree to be covered by Operator's well control Insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control Insurance, you must provide a certificate of such insurance acceptable to Operator, as to form and limits, at the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the cartificate of insurance, as provided herein, will result in your being covered by Insurance procured by Operator.

I elect to purchase my own well control insurance policy.

Marketing Election

Gravers yells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to market your share of gas with Gravers, you will be subject to all of the terms of such contracts. Upon written request to Gravers's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Gravers under the terms and conditions set forth above.

I elect to take my gas in kind.

l elect to market my gas with Cimarex pursuant to the terms and conditions of its contract.

Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorization for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

Company	Approved By (Print Name)	Approved By (Signature)	Date
a set of the set of th	Contraction of the second se		
TICE TO NONOPERATOR: O	losts shown on this form are estimates only. By executing	g this AFE, the consenting party agrees to pay its proportion	sate
	overhead will be charged in accordance with the Joint Ope		9/5



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Description	Codes	riouacion equip	Amount Code		Amount Co
Roads & Location	CON.100		PCOM.1	00	
Damages Mud/Fluids Disposal	CON.105		PCDM2	55	1
Cay Rate					1.1.1
Misc Preparation					
5/13	1		PCOM.1		1
Fuel Water for Drilling Rig (Not Frac Water)	4 D		PCOM,1		1
Mud & Additives	5 8		PCOM	33	
SWD PIPED TO XEC SWD WELL			PCOM.2	54	
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.2		
SWD HAULED TO XEC SWD WELL SWD HAULED TO 3RD PARTY SWD WELL			PCOM2		
Surface Rentals	CON.140		PCOM.1		
Flowback Labor			PCOM.1		1
Downhole Rentals · Automation Labor			PCOM. 1		1 1
Formation Evaluation (DST, Coring, etc.)	CON.150		PCOM.1	50 1	1 1
Mud Logging					
Open Hole Logging					1
Cementing & Float Equipment		1			1
Tubular Inspections Casing Craws			PCOM.10	80	
Mechanical Labor	CON.170		PCOM.11	70	
Incking/Transportation	CON.175		PCOM.17	75	A
Supervision Trailer House/Camp/Catering	CON.180		PCOM.16	90	()
Trailer House/Camp/Catering Other Misc Expenses	CON.190		PCOM.19	an Í	
Overhead			P00/96.12		
Remedial Cementing		1	PCOM.21	15	
MOB/DEMOB Directional Defiling Services	1	-			
Solids Control			1.10-12		
Well Control Equip (Snubbing Services)			FCOM.24	κi l	
Fishing & Sidetrack Services			PCOM24	15	
Completion Rig Coll Tubing Services			PCONL11		1 1 1
Coll Tubing Services Completion Logging/Perforating/Wireline		1	PCOM25		
Composite Plugs			PCOM.39	ю	
Emulation Pumping/Chemicals/Additives/Sand			PCOM.21	D	
Stimulation Water/Water Transfer/Water Storage Emares Owned Frac/Rental Equipment					1 1 1
agal/Regulatory/Curative	CON.300		PCOML30	5	
Nell Control Insurance			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Hajor Construction Overhead	CON.305		0		1 1
eal Time Operations Center	CONSOC				1 1 1
L/GL - Labor L/GL - Supervision	CON.505	3		1	
iurvey	CON.515	1	1		
WD/Other - Labor	CON.500		1	1	1 1
WD/OTHER + SUPERVISION	CON.605 CON.220		PCON 22		
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Total Intargible Cost		و این در به بردی در این در این در به بین در به میدید و در ایران میهای ایران میهای در باید در دارد.	0		
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Atter String	1	2.0 2			
urtace Casing	1	1			
ntermediate Casing 1		-			1 1
ntermediate Casing 2 Willing Liner		į	1		
roduction Casing or Uner	-	1	j		
roduction Tie-Back		1	and in	3	
ubing Felthead, Tree, Chokes			PCONT.10		
reithead, Tree, Cholais ner Hanger, Bolation Packer	1		PCOMT.12	2 1	
acker, Nipples	1		PCONT.40		
umping Unit, Engine			PCOMT.40		1 ((
lownhole Lift Equipment urface Equipment	1	1	PCOMT.41		
efface Equipment /ell Automation Materials	1		PCOMT42		
Total Tangible - Well Equipment Cos		1. ****** ** **************************			
C Lease Equipment	CONT.400	nan ar an	n a serie de la construcción de la C	ara (n. na manania ara di na kana na kana kana kana kana kana ka	1 1
inks, Tanks Skeps, Stairs	CONT.405	а _с .	and the second		
ittery Equipment condary Containments	CONT.410 CONT.415		2		
verhead Power Distribution	CONT.420		î	8 S	
cility Electrical	CONT.425		-		1
Becommunication Equipment	CONT.425	1]		-1 - 0
leters and Metering Equipment Icility Line Pipe	CONT,445 CONT,450	i	1		
rese Automation Materials	CONTASS	4			
JGL - Materiais	CONT.550	· ·	-	1	
/GL - Line Pipe	CONT.555	- 2	-		6
MD/Other - Materials MD/OTHER - LINE PIPE	CONT.650 CONT.655				1 0
Total Tangible - Losso Equipment Cos					
					, , , , , , , , , , , , , , , , , , , ,

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Hunter Production Inc (430)

Company Entity

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Authorization For Expenditure Drilling

AFE # 26618050 Date Prepared 9/5/2019

Magnum Hunter Produ	cubit the (450)			3/3/2019
Exploration Region	Well Name Pr	rospect	Property Number	AFE
Permian Basin	RIVERBEND 12-13 FEDERAL COM 30H Carlsbad Bone	e Spring Prospe	act 300001-067.01	26618050
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	W/2 of Sections 12 & 13, Township 25 South, Range Eddy County, New Mexico	28 East,	7/2/2018	11/15/2018
New	Formation W	/ell Type	Ttl Measured Depth	Ttl Vetical Depth
Supplement X Revision	Wolfcamp	DEV	20,177	9,750

Purpose Canaan Into Devon, CWPLCO into Clayton Williams, Jr

Description

Drilling Drill and complete a horizontal test. Drill to 450°, set water string casing. Drill to 2665°, set surface casing. Drill to 9240° (KOP). Drill curve at 12°/100° Initial build rate to +/- 75 degrees and set casing at +/- 9865° MD. Finish curve at +/- 4°/100° to +/- 9750° TVD and drill a +/- 9180° long lateral in the Wolfcamp formation. Run and cement production liner. Stage frac in stages. Drill out plugs. Run production packer, twbina and GLVs.

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,539,000		\$2,539,000
Completion Costs		\$7,699,750	\$7,699,750
Total Intangible Cost	\$2,539,000	\$7,699,750	\$10,238,750
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Tangible - Well Equipment	\$449,000	\$523,000	\$972,000
Tangible - Lease Equipment		\$1,142,250	\$1,142,250
Total Tangible Cost	\$449,000	\$1,665,250	\$2,114,250
Total Well Cost	\$2,988,000	\$9,365,000	\$12,353,000

Comments On Well Costs

Confinence Off Weil Costa

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

Well Control Insurance

Unless otherwise indicated below, you, as a non-operating working interest owner, agree to be covered by Operator's well control insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance acceptable to Operator, as to form and limits, at the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the certificate of insurance, as provided herein, will result in your being covered by insurance procured by Operator.

I elect to purchase my own well control insurance policy.

Marketing Election

Cimarex sells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to market your share of gas with Cimarex, you will be subject to all of the terms of such contracts. Upon written request to Cimares's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Cimarex under the terms and conditions set forth above.

I elect to take my gas in kind.

I elect to market my gas with Cimarex pursuant to the terms and conditions of its contract.

Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorization for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

Company	Approved By (Print Name)	Approved By (Signature)	Date
	นออกสารการการการสองสารสองให้เสียที่สารการการการการการการการการการการการการกา	page e e aperganeme e canad al de canador de canador de canador de canador de canador de canador de canadora d A	Adaptive and a set of
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NOICE TO NOROPERATOR. Costs shown on this form are estimates and, by executing this Arc, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 9/5/2019

COM 3	OH										E # 266180
	BCP -	Drilling	ACP -	Difiling	Com	p/Stim	Productio	n Equilip	Post Con	npietion	Total
Description Roads & Location	Codes DIDC.100	Amount	Codes	Amount		Amount	Codes ;	Amount	Codes	Amoun	
Camages	DIDC_100				5TIM.100		CON 100		PCDNL100		
Mud/Fluids Dispesal	DEC255				STIM.255		COREIOS		PCOM255		
Day Rate	DIDC.115		DICC.120								
Misc Preparation	DIDC.120				1						
Bits	DIDC.125		DICC.125		STIM.125				PCOM.125		1
Fuel Water for Drilling Rig (Not Frac Water)	DIDC.135		DICC.130						PCOM,130		
Mud & Additives	DIDC145		DICC.135		STIM.135		1		PCOM.135		1
SWD PIPED TO XEC SWD WELL		1							PCOM 254		1
SWD PIPED TO 3RD PARTY SWD WELL	1	1		1					PCOM257		
SWD HAULED TO XEC SWD WELL					8 1				PCOM258		1
SWD HAULED TO 3RD PARTY SWD WELL	1.0.1								PCOM259		
Surface Rentals	DIDC.150	1	DICC.140		STIM. 140	1	CON.140		PCOM.140		
Flowback Labor Downhole Rentals	DIDC.155				STIM.141 STIM.145				PCONL141 PCONL145		
Automation Labor	Dice.135				31106143		CONL150		PCOML145		
Formation Buluation (DST, Coring, etc.)	DIDC.160		1		STIM.150						3
Mud Logging	DIDC.170	1							÷		1
Open Hale Logging	DIDC.180			1							1
Cementing & Float Equipment	DIDC.185		DICC.155	11(14)		1					
Tubular Inspections Casing Grews	DIDC.190 DIDC.195		DICC.160 DICC.165		STIM 160 STIM 165	1			PCOM.160		1
Mechanical Labor	DIDC.195	1	DICC.165 DICC.170	1	STDA.165		CONLITO		PCOM.170		
Trucking/Transportation	DIDC.205	1	DICC175	i	STIM.175		CONLITS		PCOM.175		1 8 – 17
Supervision	DIDC210	Î	DICC.180		STIM.180		CON 180		PCOM.180		
Trailer House/Camp/Catering	DIDC.280		DICC255		STIM.280	1					1
Other Misc Expenses	DIDC.220	5	DICC.190	í	STIM.190	1	CON 190		PCOM.190 :		L
Overhead Remedial Cementing	DIDC225	1	DICC 195	21.54	-	1					
Nemedial Cementing MOB/DEMOB	DIDC.231 DIDC.240	1			STIM.215	- 1			PCOM215)
Directional Drilling Services	DIDC245	1. C				3			6		
Solids Control	DIDC.260			100		í					
Wall Control Equip (Snubbing Services)	DIDC.265		DICC240	3	STIM.240		1		PCOM240		1
Fishing & Sidetrack Services	DIDC.270	1	DICC245		STIM.245		1		PCOM245		
Completion Rig		1			STIM 115				PCOM.115		1
Coll Tubing Services			12		STIM.260 STIM.200				PCOM260		
Completion Logging/Perforating/Wireline Composite Plugs	(1		5	STIML200	-			PCOM.200 PCOM.390		
Stimulation Pumping/Chemicals/Additives/Sand				1	STIM.210	1	i		PCOM.390 PCOM.210		
Stimulation Water/Water Transfer/Water Storage		1		1	STIM 395	-			- Comit Io		
Cimeres Owned Frac/Rental Equipment		ing:	1	1	STIM.305		1	1	PCOM.305	8. Se e	
Legal/Regulatory/Curative	DIDC.300	i		1		1	CON.300				
Well Control Insurance	DIDC.285	1	1	-		1	1				
Major Construction Overhead		1		the second	1220000		CON.305	0			
Real Time Operations Center RL/GL - Labor	DIDC.560			1	STIM.560		CON.500				
FL/GL - Supervision		1	1	Ì	1	1	CON SOS				
Survey				1	1		CON.S15				
SWD/Other - Labor				1		1	CON.600				
SWD/OTHER - SUPERVISION				40.00			CON 605				
Contingency	DIDC.435		DICC220	1	STIM.220		CON.220		PCOM.220		
Contingency	Difference	5	0.000			1.41	CON.221				
P&A Costs Total Intangible Cost	DIDC.295	ļ	DICC275								
Drive Pipe	DWEB.150	have a second			Sector 2 () - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	in species and a second	**************************************			Springer of property of a second	و و رو به عبر فرد به رو به و هر و
Conductor Pipe	DW68,130	1010									
Nater String	DWE8.135										
Surface Casing	DWEB.140	1.00				1					
ntermediate Casing 1	DWEB.145	1		1.1		-					
ntermediate Casing 2 Drilling Liner	DWEB.155						1	00		-	
Drilling Liner Production Casing or Liner	UWEB.160	1000	DWEA100	ļ		25	i	3	1		
Production Tie-Back	1		DWEA.165	-	STIMT.101		1				
lubing	1	2			STIMT.105		1	1	PCOMT.105		
Wellhead, Tree, Chokes	DWEB.115		DWEA120	1	STIMT.120				PCOMT.120		
iner Hanger, Solution Packer	DWEB.100		DWEA.125		1			1			
Packer, Nipples		1			STIMT.400	1		1	PCOMT.400	1	
Aumping Unit, Engine				2	STIMT.405	1			PCOMT.405		
Jownhole Ult Equipment Surface Equipment		i i		1	STIMT.410	5. mar		1	PCOMT.410	1	
Well Automation Materials		-				1			PCOMT.455		
Total Tangible - Well Equipment Cos				i)	1		
V/C Lease Equipment				1	1		CONT.400				
Tanks, Tanks Steps, Stairs	i i	1		1			CONT.405	100		1	
Sattery Equipment		4					CONT.410				
iecondary Containments Overhead Power Distribution	i i	í.			1		CONT.415 CONT.420				
Sverhead Power Distribution acility Electrical		1		20.0		1	CONT.420 CONT.425		1	-	
elecommunication Equipment		,	1	1			CONT.425			1	
Meters and Metering Squipment		2.2		1	1		CONT.445				
adlity Line Pipe		· /		1.000			CONT.450	1			
ease Automation Materials		1			·	1	CONT.455				
L/GL - Materials				ĩ			CONT.550	;		-	
UGL - Line Pipe	1	1		1			CONT.555	1		1	
WD/Other - Materials	1 E	3	1	-			CONTIESO	1	. I.	3	
WD/OTHER - LINE PIPE							CONT.635				

	м зон							
Description	BCP - Drill Codes		Codes	ACP - Drilling	Amount	Codes	Comp/Stim	
Roads & Location	DIOC.100		cover			STIM.100		1
Damages	DIDC.105							į
Mud/Fluids Disposal	DIDC.255					STIM.255		-
Day Rate Misc Preparation	DIDC.115 DIDC.120		DICC.120					
Ets	DIDC.125	14	DICC125		1.98	STIM.125		1
Fuel	DIDC.135		DICC130		12.5	3100.165		1
Water for Drilling Rig (Not Frac Water)	DIDC.140	1	DICC.135		1	STIM.135		
Mud & Additives	DIDC.145				1 23 33			1
SWD FIPED TO XEC SWD WELL		1						1
SWO PIPED TO 3RD PARTY SWD WELL)				12 1.			1
SWD HAULED TO XEC SWD WELL SWD HAULED TO 3RD PARTY SWD WELL		1						1
Surface Rentals	DIDC.150	-	DICC.140		See.	STD4,140		1
Flowback Labor						STM.141		1
Downhole Rentals	DIDC.155					STDAL145		Į.
Automation Labor								ł.
Formation Evaluation (DST, Coring, etc.)	DIDC.160					STEM.150		ŧ.
Mud Logging Open Hole Logging	DIDC.170 DIDC.180				1 - 1			-
Open Hote Logging Cementing & Float Equipment	DIDC.185		DKC155					ŝ
Tubular Inspections	DIDC.190		DICC.160		1	STDA 160		
Casing Crevs	DIDC.195		DICC165			STIM.105		
Mechanical Labor	DIDC.200		DICC.170		1	STM.170		-
Trucking/Transportation	DIDC.205		DICC175		1	STIM.175		
Supervision	DIDC210	1 1	DICC180			STEA.180		
Trailer House/Camp/Catering Other Misc Expenses	DIDC280 DIDC220		DICC.255 DICC.190			STIM.280 STIM.190		1
Overhead	DIDC.225		DICC.190 . DICC.195			31101130		-
Remedial Cementing	DIDC.231	1 1				\$TIM.215		
MOB/DEMOS	DIDC.240	1 1						
Ofrectional Drilling Services	DIDC.245	1						
Solids Control	DIDC.260		1		1 1			
Well Control Equip (Snubbing Services) Fishing & Sidetrack Services	DIDC.265	[DICC240			STIM.240		
Completion Rig	DIDC270	1	DICC245		1	STIM.245 STIM.115		1
Coil Tubing Services		1			1	STIM.115		
Completion Logging/Perforating/Wireline			1			STIM.200		1
Composite Plugs		1.00			L 1	STIM.390		1
Stimulation		1				STIM.210		1
Stimulation Water/Water Transfer/Water		5	- i			STIM.395		1
Ciments Owned Frac/Rental Equipment		£ 1				STIM.305		
Legal/Regulatory/Curative Well Control Insurance	DIDC.300 DIDC.285	1 1			3.6			1
Major Construction Overhead	S DIOCLEDS							1
Real Time Operations Center	DIDC.560				한 문제	STIM 560		1
FL/GL - Labor								
FL/GL - Supervision								1
Survey			1					
SWD/Other - Labor SWD/OTHER - SUPERVISION								1.14
Contingency	DIDC.435		DICC.220			STIM.220		
Contingency	0,00,000		UNCLED			31(0.220		Κ.
P&A Costs	DIDC.295		DKC.275					i.
Total Intangible Cost		1			1			· [
Drive Pipe	DWEB.150		and the second second second second		1	n nanan di ana ya ang nang nang nang nang nang nan	Contraction for the local production of	1
Conductor Pipe	DWEB.130	1						1
Water String Surface Casing	DWEB.135 DWEB.140							-
Intermediate Casing 1	DWEB.140 DWEB.145				1			
Intermediate Casing 2	DWEB.155				4 N N			1
Drilling Liner	DWEB.160	1						-
Production Casing or Liner		1	DWEA.100		1			
Production Tie-Back			DWEA165) [STIMT.101		
Tubing	00000115				I É	STINT.105		
Wellhead, Tree, Chokes Liner Hanger, Isolation Packer	DWE8.115 DWE8.100		DWEA.120 DWEA.125		1	STIMT.120		
Packer, Nipples	STATE 100 ;	1 1	UNCA.123		1	STIMT 400		
Pumping Unit, Engine			i		1	STIMT 405		1
Downhole Lift Equipment						STIMT.410		į.
Surface Equipment			1		1 1			1
Well Automation Materials					ļļ	l		
Total Tangible - Well Equipment Cost				na nagadi alian ana ang ang ang ang ang ang ang ang a	hannan	: 		
N/C Lease Equipment Tanks, Tanks Steps, Staks								
Battery Equipment		1			1			1
Secondary Containments			1. 2.4		1 1			1
Overhead Power Distribution	1				1	· 1		Í
Facility Electrical					l = 1			
Telecommunication Equipment					1			1
Meters and Metaring Equipment					1.1.1			
Facility Line Pipe		1			1			
Lease Automation Materials FL/GL - Materials					1			
FL/GL - Materials FL/GL - Line Pipe								1
SWO/Other - Materials								-
		1			1 3			2
SWD/OTHER ~ LINE PIPE Total Tangible - Lasse Equipment Cost					1	Constant and the second second		2

CIMAREX Autho	rization For Expenditure - RIVEF 30H			AFE # 2	6618050
Description	Production Equip Codes	Amount		Amount	
Roads & Location Damages	CON.100 CON.105		PC0H4.100		o
Mud/Fluids Disposal			PCOM255		0.
Day Rate		4			0
Misc Preparation Bits	1	ŕ	00001107		0
Bits Fuel	1		PCOM.125		0
Water for Drilling Rig (Not Frac Water)			PCOM.135		0
Mud & Additives		1.1			ő
SWO PIPED TO XEC SWD WELL			PCOM254	1	0
SWD PIPED TO 3RD PARTY SWD WELL SWD HAULED TO XEC SWD WELL	1		PCOM.257 PCOM.258	1	0
SWD HAULED TO 3RD PARTY SWD WELL			PCOML259		0
Surface Rentals	CON.140		PCOML140		0
Flowback Labor			PCDM.141	10.00	0
Downhole Rentals Automation Labor	CON.150		PCOM.145 PCOM.150	1.11	٥.
Formation Evaluation (DST, Coring, etc.)	CONCISU		PCOMLISO	1	0)
Mud Logging		1		and	0
Open Hole Logging		1			0
Cementing & Roat Equipment		1 3			0
Tubular Inspections Casing Crews		÷	PCOM-150		0
Mechanical Labor	CON.170	1	PCOM.170		0
Trucking/Transportation	CON.175	1	PCONL175		0
Supervision	CON.TRO	1	PCOM.180		0
Trailer House/Camp/Catering					0
Other Misc Expenses Overhead	CON.190		PCOM,190		0
Remedial Comenting			PCOM215	1 1	0
MOB/DEMOB		1			0
Directional Drilling Services		1			0
Solids Control Well Control Equip (Snubbing Services)		-	PC011340		0
Fishing & Sidetrack Services		1	PCOM.240 PCOM.245		0
Completion Rig		1	PCOM.115		0
Coll Tubing Services			PCOM,260		O
Completion Logging/Perforating/Wireline			PCOM.200	1 3	0
Composite Plugs Stimutation Pumping/Chemicals/Additives/Sand			PCOM.390 PCOM.210		0
Stimulation Water/Water Transfer/Water Storage			recomination in the second sec	-	0
Cimarex Owned Frac/Rental Equipment		1	PCOM.305	1 1	o
Legal/Regulatory/Curative	CON.300	1		1.10	0
Well Control Insurance Major Construction Overhead	CON.305				0
Real Time Operations Center		0			0
FL/GL - Labor	CQN.500	1			0
FL/GL - Supervision	CON.505	1 1		1114	0
Survey SWD/Other - Labor	CON.515 CON.600	1 1			0
WO/OTHER - SUPERVISION	CON.605	1			0
Contingency	CON-220	1	PCOM.220	1	0
Contingency	CON.221	1 1			0
SuA Costs Total Intangible Cost		0			0
Drive Pipe			an an tha anna 1927 ann an tha ann	a mana sa na sangan na sana bana na matana ka ka	0
Conductor Pipe Nater String		1			0
Nater String Surface Casing		1			0
ntermediate Casing 1		1	1		0
ntermediate Casing 2		1		6	0
Orifling Liner		1	1 - AL		٥
Production Casing or Liner Production Tie-Back		1			0
fubing	i	1 1	PCOMT.105		0
Veilhead, Tree, Chokes		1	PCOMT.120		0
Jnar Hanger, isolation Packer				1	o
hacker, Nipples humping Unit, Engine	1	1	PCOMT.400 PCOMT.405	1	0
Sownhole Lift Equipment		1	PCOMTA05	and the second se	0
iurface Equipment		1 1	PCOMT/20	al estas	0
Vell Automation Materials		1]	PCONT.455		0
Total Tangitze - Well Equipment Cos		-			0
VC Lease Equipment anks, Tanks Steps, Stairs	CONT.400 CONT.405	1		1	0
anks, ranks steps, scars	CONT.410	1	1		0
econdary Containments	CONT.415	1			0
Werhead Power Distribution	CONT.420	-	-		0
adiity Electrical	CONT.425				0
elecommunication Equipment deters and Metering Equipment	CONTA25 CONTA45	1			0
Aeters and Metering Equipment adlity Line Pipe	CONT.445	1 1			0
sality line ripe sase Automation Materials	CONTASS	1		1	0
UGL - Materials	CONT.550	1			0.
L/GL - Line Pipe	CONT.555	1 .1			0
WD/Other - Materials WD/OTHER - LINE PIPE	CONT.650	-			o
	CONT.655	1			0'
Total Tangible - Lease Equipment Cor		- (C)			0

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Company Entity

			ence included
			9/5/2019
Well Name Pr	rospect	Property Number	AFE
RIVERBEND 12-13 FEDERAL COM 31H Carlsbad Bone	Spring Prospec	t 300001-140.01	26620017
Location		Estimated Spud	Estimated Completion
W/2 of Sections 12 & 13, Township 25 South, Range Eddy County, NM	28 East,	7/15/2019	8/15/2019
Formation W	/ell Type 1	Itl Measured Depth	Ttl Vetical Depth
Wolfcamp	DEV	21,085	9,918
	RIVERBEND 12-13 FEDERAL COM 31H Carlsbad Bone Location W/2 of Sections 12 & 13, Township 25 South, Range Eddy County, NM Formation W	RIVERBEND 12-13 FEDERAL COM 31H Carlsbad Bone Spring Prospec Location W/2 of Sections 12 & 13, Township 25 South, Range 28 East, Eddy County, NM Formation Well Type	RIVERBEND 12-13 FEDERAL COM 31H Carlsbad Bone Spring Prospect 300001-140.01 Location Estimated Spud W/2 of Sections 12 & 13, Township 25 South, Range 28 East, 7/15/2019 Eddy County, NM Formation Well Type

Purpose Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 400°, set water string casing. Drill to 2566°, set surface casing. Drill to 9408° (KOP). Drill curve at 12°/100° initial build rate to +/- 75 degrees and set casing at +/- 10033° MD. Finish curve at +/- 4°/100° to +/- 9920° TVD and drill a +/-9740° long lateral in the Wolfcamp formation. Run and cement production liner. Stage fracDrill out plugs. Run production packer, tubing and GLVs.

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,785,000		\$2,785,000
Completion Costs		\$6,825,500	\$6,825,500
Total Intangible Cost	\$2,785,000	\$6,825,500	\$9,610,500
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$409,000	\$544,000	\$953,000
Lease Equipment		\$685,500	\$685,500
Total Tangible Cost	\$409,000	\$1,229,500	\$1,638,500
Total Well Cost	\$3,194,000	\$8,055,000	\$11,249,000

Comments On Well Costs

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

Well Control Insurance

Unless otherwise indicated below, you, as a non-operating working interast owner, agree to be covered by Operator's well control insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance acceptable to Operator, as to form and limits, at the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the certificate of insurance, as provided herein, will result in your being covered by insurance procured by Operator.

I elect to purchase my own well control insurance policy.

Marketing Election

Gravers sells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to marker your share of gas with Clmarex, you will be subject to all of the terms of such contracts. Upon written request to Climarex's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Clmarex under the terms and conditions set forth above.

I elect to take my gas in kind.

I elect to market my gas with Cimarex pursuant to the terms and conditions of its contract.

Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorization for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

			Approved By (Print Name)	Company
TICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate	te	a this AFE, the consenting party garees to pay its proportional	ts shown on this form are estimates only. By execu	TICE TO NONOPERATOR: Cos

CIMAREX Author						12-13 FE				AFC	# 26620017
COM 3		Drilling	۸ ۵۲ -	Drilling	Con	ng/Stim	Product	on Equip	Post Co	mpletion	Total
Description	Codes	Amount	Codes	Amount	Codes	Arnount	Codes	Amount	Codes	Arnount	Cost
Roads & Location	DIDC,100	25,000			STIM.100	10,000		3,000		10,000	48,000
Damages Mud/Fluids Disposal	DIDC.105 DIDC.255	6,000			-		CONL105	4,000]	10,000
Day Rate	DIDC.115	150,000		104000	STIM.255	62,000			PCOM.255	252,000	474,000
Misc Preparation	DIDC.120	35,000		104,000							722,000 35,000
Bits	DIDC.125	75.000		0	STIM.125	0			PCOM.125	0	75,000
Fuel	DIDC.135	108.000		0		U			PCOM.130	0.	108,000
Water for Drijfing Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	24,000			PCOM.135	0	29,000
Mud & Additives	DIDC.145	198,000	k.							3	198,000
SWID PIPED TO XEC SWID WELL			2		ŝ.				PCOM254	o';	0
SWD PIPED TO 3RD PARTY SWD WELL	1		1		2				PCOM 257	0	0
SWD HAULED TO XEC SWD WELL SWD HAULED TO 3RD PARTY SWD WELL									PCOM258	0	a
Surface Rentals	DIDC.150	131,000	DICC.140	٥	STIM 140		CONL140	4 844	PCOM259 PCOML140	0	0
Downhole Rentals	DIDC 155	177,000		U	STIM 145	237,000		1,500	PCOM.145	45,000	414,500
Flowback Labor	1	111,000			STIN.141	0			PCOM.141	33,000	33,000
Automation Labor			ł			, in the second s	CON.150	45.000	PCONL150	0	45,000
Formation Evaluation (DST, Coring, etc.)	DIDC.160	0	1		STIM.150	0				1	0
Ned Logging	DIDC.170	27,000								-	27,000
Open Hale Logging	DIDC.180	0			4					1	o
Cementing & Float Equipment	DIDC.185	145,000		63,000	and and					1	208,000
Tubular Inspections	DIDC.190	50,000		5,000		4,000			PCOM.160	0	59,000
Casing Craws	DIDC.195	20,000	DICC.165	13,000	STIM 165	0	-			1	33,000
Mechanical Labor Trucking/Transportation	DIDC200	20,000		10,000	STIM 170	. 0	CON 170 CON 175	181,000		0	211,000
Inicking/Transportation	DIDC205	25,000		8,000	STIM.160	4,000	CON.180	18,000		0	55,000
supervision Trailer House/Camp/Catering	DIDC.210	115,000	1	16,000	STIM 160	94,000	CON.180	10,000	PC.UM. 180	0	235,000
Other Misc Expenses	DIDC.220	- 49,000		6,000	STIML280	34,000	CON.190	12 000	PCOM190	0	89,000
Overhead	DIDC225	10,000		5.000	a rent (and	135,000		12,000			172,000
Remedial Cementing	0000231	0,000		5,000	STIM215	0			PCOM215	0	15,000
MO8/DEMO8	DIDC240	50,000	5							. · · · ·	50,000
Directional Drilling Services	DIDC.245	383,000									383,000
Salids Control	DIDC260	99,000	1.00.00						1.000	5 V S .	99,000
Well Control Equip (Snubbing Services)	DIDC.265	99,000	DICC.240	5.000	STIM.240	109,000			PCOM.240	0	213,000
Fishing & Sidetrack Services	DIDC.270	0	DICC.245	0	STIM.245	٥			PCOM245	0	0
Completion Rig			(STIM.115	21,000			PCOM.115	0	21,000
Coll Tubing Services					STIM.260	368,000			PCOM260	0	368,000
Completion Logging/Perforating/Wireline Composite Plugs			<u> </u>		STIM.200	432,000			PCOM.200	0	432,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.390	96,000 2.926,000			PCOM.390 PCOM.210	0	96,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	702,000			PCOMEIO	0	2,926,000
Cimarex Owned Frac/Rental Equipment					STIM.305	40,000	1		PCOM.305	59.000	99.000
egal/Regulatory/Curative	DIDC.300	10,000				10,000	CONJOO	0		33,000	10,000
Well Control Insurance	DIDC285	7,000						°,		100	7,000
Wajor Construction Overhead							CONL305	25,000	(R	1	25,000
Real Time Operations Center	DIDC.560	0	<u>.</u>		STIM SEO	0	1				0
9/GL - Labor							CONLSOO	153,500		4	153,500
PL/GL - Supervision			1				CON.505	22,000			22,000
Survey							CON.515	4,000		1	4,000
SWD/Other - Labor SWD/Other - SUPERVISION	:						CON.500 CON.605	0		1	0
Contingency	DIDC.435	133.000	DICC220	12,000	STIM.220	266,000	CON 220	96 500	PCOM.220	e.	
Contingency	UDCAU3	133,000	Unclass	12,000	JUMLERO	200,000	CON 221	30,000	PCOMLEZO	u,	497,500
AtA Costs	DEC295	0	DICC275	0			i i	30,000		1	35,000
Total Intangible Cod		2,785,000		247,000		5,584,000		\$95,500	(399,000	9,610,500
Drive Pipe	DWEB.150	0	1			and the stated of orthography	1				0
Conductor Pipa	DWE8.130	0		-						Ş	o
Water String	DWEB.135	14,000						1	1	1	14,000
Surface Casing	DWE8.140	67,000			1					1	67,000
niermediate Casing 1	DWEB.145	308,000					(î			1	308,000
niermediste Casing 2 Drilling Liner	DWEB.155 DWEB.160	0									0
Production Casing or Liner	DimEd. 100	0	DWEA.100	166.000			1			6	166 000
roduction Tie-Back			DWEA.165	166,000	STIME 101	0				-	166,000
ubing		· · · ·]		0	STIMT.105	77,000	i		PCOMT.105	0	77,000
Wellhead, Tree, Chokes	DWEB.115	20.000	DWEA.120	25.000	STIMT.120	60,000			PCOMT.120	10,000	115,000
iner Hanger, isolation Packer	DWEB.100		DWEA,125	98,000					1		98,000
Packer, Nipples	i				STIMT.400	28,000			PCONT.400	0	28,000
Pumping Unit, Engine	1				STIMT.405	0		1	PCONT.405	0	0
Sownhole Lift Equipment			<u>8</u>		STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment							1		PCOMT.420	0	0
Well Automation Materials			11						PCOMT,455	0.	0
Total Tangible - Well Equipment Cos	****	409,000		289,000		245,000	1			10,000	953,000
V/C Lease Equipment	243						CONT.400	176,500			176.500
Tanks, Tanks Steps, Stalra			1. 1.				CONT.405 CONT.410	51,500	1.1		51,500
Sattery Equipment Secondary Containments	1 Jan						CONT.410	191,500		Ť	191,500
Dverhead Power Distribution	1						CONT.413	12,000	1	1	12,000
adity Electrical			2				CONT.425	30,000		1	30,000
felecommunication Equipment	1	1		1			CONT.425	50,000	X	1	30,000
Veters and Metering Equipment							CONT.445	22,500		1	22,500
adity Line Pipe			1				CONT.450	23,000		1	23,000
ease Automation Materials		. 3			100		CONTASS	37,500			37,500
R/GL - Matarials			1				CONT.550	63,500			63,500
L/GL - Line Pipe	35	N. 1					CONT.555	52,500			52,500
WD/Other - Materials							CONT.650	0		1	0
WD/OTHER - LINE PIPE							CONT.655	0		j	0
Total Tangible - Lease Equipment Cos			T		E		1	685,500	1	1	685,500
Total Estimated Cost		3,194,000		535,000		S,829,000		1,281,000		409,000	11,249,000

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escription	Anathl					
scription		BCP - Drilling	المتحسمين ا		ACP - Drilling	1.1
	Codes		Amount	Codes		An I
ads & Location	DIDC,100		25,000			1
mages	DIDC.105		6,000		1	1
ud/Fluids Disposal	DIDC.255		160,000			1
iy Rate		23 days at \$26,000/day	618,000	DICC.120	4 days at \$26,000/day	104
sc Preparation	DIDC.120		35.000			1
5	DIDC.125			DICC.125		1
d	DIDC.135	1,300 gal/day at \$3.00/gal	108,000	DICC_130	1	
oter for Drilling Rig (Not Froc Water)	0 DC.140		5,000	DKCC.135		
ad & Additives	DIDC.145		198,000			
O PIPED TO XEC SWD WELL	-		5			1
O PIPED TO 3RD PARTY SWO WELL			1 3			
D HAULED TO XEC SWO WELL	3	1				1
O HAULED TO 3RD PARTY SWD WELL	1					
rfoce Rentals	DIDC.150	Per Day (BCP)/day	131,000	DICC.140		1
withole Rentals	DIDC.155		177,000			-
wback Labor	1	1				-
tomation Labor	1					
mation Evaluation (DST, Coring, etc.)	DIDC.160	1	0			1
id Logging	DIDC,170	18 days at \$1,200/day	27,000			
en Hole Logging	DIDC.180		0			í.
menting & Float Equipment	DIDC.185		145,000	DKCC.155		63
bular Inspections	DIDC.190	1	50,000	DICC160		1 5
sing Crews	DIDC.195			DKC165		13
chanical Labor	DIDC.200		20,000	DICC.170		10
cking/Transportation	DIDC.205		25.000	DICC.175		
pervision	DIDC.210		115.000	DICC.180		16
iler House/Camp/Catering	DIDC.280		49,000	DICC255		6
her Misc Expenses	DIDC.220		5.000	DICC.190		1
orhead	DIDC.225			DICC195		1.
nedial Cementing	DIDC.231		0		i	1
15/DEMOS	DIDC.240		50,000			1
ectional Drilling Services) DIDC.245		383.000			1

AFE	#	26620017

LINE CONTRACT LINE DUDE	<u>.</u>	-	1	1				1	
WD/Other - Materials WD/OTHER - LINE PIPE	1								
L/GL - Line Pipe	1								
zase Automation Materials L/GL - Materials	3		1			1 A M			
acility Line Pipe ease Automation Materials	2.00		1						
Acters and Metering Equipment	1				3				
adiity Electrical slecommunication Equipment	1		1	1 e.,	+ +	1			
Iverhead Power Distribution	-			2					1
lattery Equipment iecondary Containments	10.000			}				1	
anks, Tanks Steps, Stairs	-								
I/C Lease Equipment	1	nija menghanga tertengkan katalagan sebagan yang pengan yang pengan yang pengan yang pengan yang pengan yang p Pengan pengan			1		- 1999 - 1995 - 1994 - 1995 - 1995		
Veli Automation Materials Total Tangible - Well Boulprment Cou			409.000			289,000			245.0
urface Equipment									
Downhole Uft Equipment	1.				6	12.12	STIMT,410		80,0
umping Unit, Engine	1.5.4	İ					STIMT.405		20,0
iner Hanger, Isolation Packer acker, Nipples	DWEB,100	i	0	DWEA.125	5	98,000	STIMT.400		28.0
Velihead, Troe, Cholaes	DWEE.115			DWEA120		25,000	STIMT.120	1	60,0
ubing	1			1			STIMT.105	3-1/2** - 8.510h at \$9.00/h	77,0
roduction Casing or Uner roduction Tie-Back	1			DWEA.165	- 1/6 - 16, PUTE at \$13,00/TE	166,000	ST047,101		
rilling Liner roduction Casing or Liner	DWE8,160		0	DWEA 100	4 1/2" - 12,780ft at \$15.00/ft	165,000			
termediate Casing 2	DWEB.155		0						
termediate Casing 1	DWEB.145	7" - 10.130ft at \$28.00/ft	308,000		24.5				
atace Casing		9 5/8" - 2,666ft at \$25.00/ft	67,000						
onductor Pipe later String	DWEB.130 DWEB.135	1	0			1			
rive Pipe	DWEB.150		0					anna a chaile a fach faile a bha bha bha an 1960 an 19 An 1970 an 1970 An 1970 an 1970	August -
Total triangible Co	4	· · · · · · · · · · · · · · · · · · ·	2,785,000		i	247,000			5,584,0
aningency &A Costs	DIDC.295		0	DICC.275	1	0			
antingency	DIDC435	500 % of Drilling Intangibles	133,000	DICC.220		12,000	STIM.220		266,0
WD/OTHER - SUPERVISION	3								
urvey WO/Other - Labor	1								1
L/GL - Supervision arvey	I			-					
L/GL - Labor	-				fa tri d	29 g N			1
eal Time Operations Center	DIDC.560		Ö				STIM.560		Ì
lajor Control Insurance lajor Construction Overhead	UNU-263	and2/16	7,000						
egal/Regulatory/Curative	DIDC.300 DIDC.285	\$0.35/ft	10,000			10.00		1	
Imarex Owned Frac/Rental Equipment	0000 300	F .					STIM.305	1	40,0
cimulation Water/Water Transfer/Water	-						STIM 395		702,0
dimulation							\$11M.390		96,0 2,926,0
Completion Logging/Perforating/Wireline Composite Plugs	to a la construction de la const		1		1		STIM.200 STIM.390		432,0
Coll Tubing Services Completion Logging/Perforating/Wintline	5401.1				1		\$71M.260 \$71M.200		368,0
ampletion Rig	1990			-			STIM.115		21,0
ishing & Sidetrack Services	DIDC.270			DICC245	1	0	STIM.245		
Vell Control Equip (Snubbing Services)	DIDC.265		99,000	DKC240		5,000			109.0
iolids Control	DIDC.260		99,000						a second
Prectional Drilling Services	DIDC.245		383,000						
icmedial Cementing (08/DEMO8	DIDC.231		50,000				STIM.215		1
Sverhead	DIDC.225		10,000	DICC195		5,000			
Diher Misc Expenses	DIDC.220		5,000	DICC.190	1	0	STIM.190		155,0
Irailer House/Camp/Catering	DIDC.280		49,000		1	6,000	STIM.280		94,0 34,0
Frucking/Transportation Supervision	DIDC.205 DIDC.210		25,000	4	1	8,000	STIM, 175 STIM, 180		4,0
Mechanical Labor Trucking/Transportation	DIDC.200 DIDC.205		20,000			10,000	STM.170 STM.175		
Casing Crews	DIDC.195		20,000			13,000	STIM.165		
Tubular Inspections	DIDC.190	1	50,000	DICC.160		5,000	STIM.160		4,0
Cementing & Float Equipment	DIDC.185	1.	145,000			63,000			
Mud Logging Open Hole Logging	DIDC,170 DIDC,180	18 days at \$1,200/day	27,000	1					
Formation Evaluation (DST, Coring, etc.)	DIDC.160		0		:		STIM.150		
Automation Labor	1		1	1					1
Rowback Labor	1		1 177,000		:		STIM.141		1
Surfoce Rentals Downhole Rentals	DIDC.150 DIDC.155	Per Day (BCP)/day	131,000	DICC.140	1	0	STIM.140 STIM.145		237,0
WD HAULED TO 3RD PARTY SWD WELL	1		1	ļ	,				-
WD HAULED TO XEC SWO WELL	1	-	1	41.00					1
TWD PIPED TO 3RD PARTY SWD WELL	1		1		1				
Mud & Additives SWD PUPED TO XEC SWD WELL	DIDC.145		198,000	1	1				
Water for Drilling Rig (Not Frac Water)	0/DC.140		5,000		1	0	STIM, 135		24,
Birs Fuel	DIDC.125	1,300 gal/day at \$3.00/gal	75,000	DICC.125		0	STIM.125		1
Misc Preparation	DIDC.120		35.000						1
Day Rate		23 days at \$26,000/day	618,000		4 days at \$25,000/day	104,000			02,0
Mud/Fluids Disposal	DIDC.105		6,000		1		STIM 255		62,0
			25,000				STIM.100		10,
Reads & Location Compages	DIDC.100		Amount			Amount	Codes		

	1		1			0	0
Directional Drilling Services Solids Control							383,000
Well Control Equip (Soubbing Services)	1		1	PCOM.240		0	99,000 213,000
Fishing & Sidetrack Services				PCOM245		0	0
Completion Rig Coll Tubing Services				PCOM.115 PCOM.260		0	21,000 368,000
Completion Logging/Periorating/Wireline			į	PCOM.200		0	432,000
Composite Plugs Stimulation Pumping/Chemicals/Additives/Sand				PCOM.390 PCOM.210		0	96,000
Stimulation Water/Water Transfer/Water Storage							702,000
Cintarex Owned Frac/Rental Squipment Legal/Regulatory/Curative	CONL300		0	PCOM.305	XEC Owned Sand Separator	59,000	99,000
Well Control Insurance							10,000
Major Construction Overhead	CONJOS		25,000	1.1		- P	25,000
Real Time Operations Center FL/GL - Labor	CON.500		153,500				0 153,500
FL/GL - Supervision	CON.SOS		22,000			1	22,000
Survey SWD/Other - Labor	CON-515 CON-600		4,000				4,000
SWD/OTHER - SUPERVISION	CONLEOS		0	1			0
Contingency Contingency	CON.220 CON.221		86,500	PCOM.220		0	497,500
P&A Costs	CUNZZI		30,000	i		0.43	30,000
Total intengible Cost	: بعد خودو بودود: در دو بودر در	می است. می است به است از این و افغان ایر این از ایر این ایر ایر ایر ایر این ایر ایر این از ایر ایر ایر ایر ایر ایر ایس	595,500		The part of the second se	399,000	9,510,500
Drive Pipe Conductor Pipe					1		0
Water String							0
Surface Casing						1.00	67,000
Intermediate Casing 1							308,000
Intermediate Casing 2 Orilling Liner	1						0
Production Casing or Liner							166,000
Production Tie-Back							166,000
Tubing	1			PCOMT.105		0	77,000
Wellhead, Tree, Chokes				PCOMT.120	Hairpin from choke to flowline	10,000	115,000
Liner Hanger, Isolation Packer							98,000
Packer, Nipples				PCONT.400		0	28,000
Pumping Unit, Engine Dawnhole Uft Equipment				PCONT 410		0	0
Surface Equipment			la l	PCOMT.410 PCOMT.420		0	80,000
Weil Automation Materials	1		141 T 11	PCOMT.420 PCOMT.455		0	0
Total Tangible - Well Equipment Cos		and the first of the first of the second				10,000	953,000
N/C Lease Equipment	CONT.400	مېرېدې دې. د وې د وې د وې د وې د وې د وې	176,500			12000	176,500
Tanks, Tanka Steps, Stairs	CONT.405		51,500				51,500
Sattery Equipment	CONTA10		191,500				191,500
	CONTA15		12,000			l al	12,000
	CONT.420		25,000			6	25,000
	CONT.425		30,000	1.00			30,000
	CONT.426		0			i i	0
Meters and Metering Equipment	CONT.445		22,500				22,500
	CONTASO		23,000				23,000
Facility Line Pipe			37,500		1	6 B	37,500
Facility Line Pipe Lease Automation Materials	CONT.455			8 - N			
Facility Line Pipe Lease Automation Materials FL/SL - Materials	CONT.550		63,500				63,500
Facility Line Pipe Lease Automation Materials FL/GL - Materials FL/GL - Line Pipe	CONT.550 CONT.555		63,500 52,500				52,500
Facility Line Pipe Lasse Automation Materials FL/GL - Materials FL/GL - Line Pipe SWD/Other - Materials	CONT.550		63,500				



Company Entity

والمعادية والمعاصفة فبما ووادي والمهوري				9/5/2019
Exploration Region	Well Name Pr	ospect	Property Number	AFS
Permian Basin	RIVERBEND 12-13 FEDERAL COM 32H Carlsbad Bone	Spring Prospe	ct 300001-141.01	26620018
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	W/2 of Sections 12 & 13, Township 25 South, Range Eddy County, NM	28 East,	7/15/2019	8/15/2019
X New	Formation W	ell Type	Ttl Measured Depth	Ttl Vetical Depth
Supplement Revision		DEV	21,254	9,918

Purpose Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 400', set water string casing. Drill to 2666', set surface casing. Drill to 9408' (KOP). Drill curve at 12'/100' Initial build rate to +/- 75 degrees and set casing at +/- 10033' MD. Finish curve at +/- 4'/100' to +/- 9920' TVD and drill a +/-9740' long lateral in the Wolfcamp formation. Run and cement production liner. Stage frac.Drill out plugs. Run production packer, tubing and GIVs.

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,790,000		\$2,790,000
Completion Costs		\$6,825,500	\$6,825,500
Total Intangible Cost	\$2,790,000	\$6,825,500	\$9,615,500
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$409,000	\$546,000	\$955,000
Lease Equipment		\$685,500	\$685,500
Total Tangible Cost	\$409,000	\$1,231,500	\$1,640,500
Total Well Cost	\$3,199.000	\$8,057,000	\$11,256,000

Comments On Well Costs

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

Well Control Insurance

Unless otherwise indicated below, you, as a non-operating working interest owner, agree to be covered by Operator's well control insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance exceptable to Operator, as to form and limits, at the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the certificate of insurance, as provided herein, will result in your being covered by insurance procured by Operator.

l elect to purchase my own well control insurance policy.

Marketing Election

Cimarex sells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to market your share of gas with Cimarex, you will be subject to all of the terms of such contracts. Upon written request to Cimarex's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Cimarex under the terms and conditions set forth above.

I elect to take my gas in kind.

I elect to market my gas with Cimarex pursuant to the terms and conditions of its contract.

Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorization for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

Company !	Approved By (Print Name)	Approved By (Signature)	Date
			· · · · · · · · · · · · · · · · · · ·

share of actual casts incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 9/5/2019

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thorization For Expenditure - RIVERBEND 12-13 FEDERAL

COME											# 26620018
		Drilling	ACP	Drilling		p/Stim	Produc	tion Equilip		mpletion	Total
Description Roads & Location	Codes	Arnount	Codes	Amount		Amount		Amount	Codes	Amount	Cost
Roads & Location Damages	DIDC,100	25,000		1.12	STIM_100	10,000		3,000	PCOM 100	10,000	48,000
Mcd/Fluids Disposal	DIDC255	6,000	÷		5014255	(2.000	CONLIDS	4,000			10,000;
Day Rate	000115	160,000 618,000		104,000		62,000			PCOM.255	252,000	474,000
Misc Preparation	DIDC.120	35,000	5	104,000							722,000
Bits	DIDC.125	75.000	DICC.125	0	STIM 125	0			PCOM.125	d.	35,000
Fuel	DIDC.135	108,000	DICC.130	0	1.		New York		PCOM 130	0	108,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM 135	24,000			PCOM.135	0	29,000
Mud & Additives	DIDC.145	198,000								1. A.	198,000
SWD PIPED TO XEC SWD WELL	1		5						PCOM254	0	0
SWD PIPED TO 3RD PARTY SWD WELL	1								PCOM 257	· . 0	0
SWD HAULED TO XEC SWD WELL	1								PCOM.258	0	0
SWD HAULED TO 3RD PARTY SWD WELL Surface Rentals	DIDC 150				-				PCOM.259	0	0
Downhole Rentals	DIDC.150 DIDC.155		DICC.140	0		237,000	CONL140	1,500	PCOM.140	45,000	414,500
Firwback Labor	DIDC 155	177,000	1		STIM 145 STIM 141	0			PCOM.145	0	177,000
Automation Labor	1				511M 141	0	CON 150	15 444	PCOM.141	33,000	33.000
Formation Evaluation (DST, Coring, etc.)	DIDC.160	0	i i		STIM.150	0	CONLISO	45,000	PCOM.150	0	45,000
Mud Logging	DIDC.170	27.000			3118.130	0				1	0
Open Hale Logging	DIDC.180	27,000	i			1			1	4	27,000
Cementing & Float Equipment	DIDC.185	145,000	OICC.155	63,000				1 3		1	0
Tubular Inspections	DIDC.190	50,000	DICC.160	5,000	STIML160	4,000		1	PCOM.160	0	208,000
Casing Crews	D/DC.195	20,000	DICC.165	13.000	STINL165	4,000			- concise i	01	59.000 33,000
Mechanical Labor	DIDC.200	20,000		10.000	STIM.170	0	CON.170	181 000	PCOM.170	0	
Tracking/Transportation	DIDC.205	25,000	DICC.175	8,000	STIM.175	4,000	CONL175		PCONL175	0	211,000 55,000
Supervision	DIDC210	115,000	DICC.180	16,000	STIM.180	94,000	CON.180	10,000	PCOML180	0	235,000
Trailer House/Camp/Catering	DIDC.280	49,000	DICC.255	6,000	STIM280	34,000				1	89,000
Other Mise Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	155,000	CON.190	12,000	PCOM190	o!	172,000
Overhead	DIDC.225	10,000	DICC.195	5.000						1	15,000
Remedial Cementing	DIDC.231	0			STIM215	0		-	PCOM215	o;	0
MOB/DEMOB	DIDC.240	50,000		1 1				4			50,000
Directional Onilling Services	DIDC245	388,000				201					388,000
Solids Control	DIDC.260	99,000	2 total				<	1		1	99,000
Well Control Equip (Snubbing Services)	DIDC.265 DIDC.270	99,000	DICC240		STIM248	109,000			PCOM.240	0	213,000
Fishing & Sidetrack Services Completion Rig	DIDC.270	0	DICC.245	0		0		1	PCOM245	0	. 0
Coll Tubing Services		f		1	STDAL115 STIM.260	21,000		t.	PCOM.115	0	21,000
Completion Logging/Perforating/Wireine	1				STIM.200	368,000		(PCOM.260	0	368,000
Composite Plugs		1			STIM.390	432,000			PCOM.200 PCOM.390	0	432.000
Stimulation Pumping/Chemicals/Additives/Sand					STIM210	96,000	•	1	PCOM210	0	96,000
Stimulation Water/Water Transfer/Water Storage	1 1				STIM.395	702,000		1	PCCML2TO ,	0	2,926,000
Cimarax Owned Frac/Rental Equipment					STIM.305	40,000		ĺ	PCOM.305	59,000	702,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON 300	0		55,000	10,000
Well Control Insurance	DIDC.285	7,000				14			1	-	7,000
Major Construction Overhead	1					Y	CONJOS	25,000		1	25,000
Real Time Operations Center	DIDC.560	0			STIM.S60	0		Ę	:	1	0
FL/GL - Labor							CONSOO	153,500		2	153,500
FL/GL - Supervision		1					CONSOS	22,000			22,000
Survey			• •		1	5	CON.515	4,000		1	4,000
SWD/Other - Labor SWD/OTHER - SUPERVISION							CONLEOO	0		1	0
	DIDCASS				-		CON.605	0		- 1	0
Contingency Kontingency	UNCASS	133,000	DICC.220	12,000	STIM.220	266.000	CON.220 CON.221		PCOM220	0	497,500
P&A Costs	DEC 295	اه	DICC.275	0		1	CONSEL	30,000		1	30,000
Total Intengible Cod		2,790,000	with the second	247,000		5,584,000		595,500		399.000	9,615,500
Drive Fipe	DWEB.150	0		647,000		3,304,000		393,300		333,000	9,615,500
Conductor Pipe	DWEB.130	01	i 1		1	1		1	i	i.	0
Water String	DWE8.135	14,000						Ĩ		075.4	14,000
Surface Casing	DWEB.140	67,000		1		1	1		284	1	67,000
Intermediate Casing 1	DWEB.145	308,000	S			1.1		1			308,000
Intermediate Casing 2	DWEB.155	0				1	1			5	0
Drilling Liner	CWEB.160	0	lan e d					1			0
Production Casing or Liner			DWEA100	168,000	1	1		-			168,000
Production Tie-Back		-	DWEA.165	0	STIMT.101	0				·	. 0
Tubing		1			STIMT.105	77,000			PCOMT.105	o	77,000
Wellhead, Tree, Chokes	DWE8.115		DWEA120	25,000	STIMT.120	60,000			PCOMT.120	10,000	115,000
Liner Hanger, Bolstion Packer	DWEB.100	0	DWEA125	98,000				1		5	98,000
Packer, Nipples Pursuina Unit Englise		1		Ş	STIMT.400	28,000			PCONTADO	0	28,000
Puniping Unit, Engine Downhole Lift Equipment	6			5	STIMT.405 STIMT.410	0			PCOMT.405	0	0
Surface Equipment	8			-		80,000			PCOMT.410 PCOMT.420	0	80,000
Well Automation Materials	e 13		1	1 1	1	1			PCOMT.455	0	0
Total Tangable - Well Equipment Cos		409,000		291.000		245,000		;		10,000	955.000
N/C Lease Equipment			16 M Barry 1 & 1 M 1 Mail 10			1	CONT.400	176,500	non min nin		176,500
Tanks, Tanks Steps, Stairs		1	3			7	CONT.405	51,500		1	51,500
Battery Equipment		3		į		i i	CONT.410	191,500		- 1	191,500
Secondary Containments		. 3					CONT.415	12,000	equan à		12,000
Overhead Power Distribution		1	2				CONT.420	25,000	1	1000	25,000
Facility Electrical		·		1			CONT.425	30,000	4	100	30,000
Telecommunication Equipment				1		4	CONT.426	0		1	0
Meters and Metering Squipment		i			1	3	CONT.445	22,500		1	22,500
FadIlty Line Pipe		ţ)			CONT.450	23,000		1	23,000
Lease Automation Materials		1					CONTASS	37,500			37,500
FL/GL - Materials		Ì					CONT.550	63,500		1	63,500
FL/GL - Line Pipe SWD/Other - Materials		ć		1			CONT.555	52,500			52,500
SWD/Other - Materials SWD/OTHER - LINE PIPE		1		1			CONT.650	0			0
Total Tangible - Leuse Equipment Cor						·	CONT.655	0			0
Total Estimated Cost		2 400 400		538,000		1 030 000	2	685,500)	100	685,500
	1	3,199,000	1	336,000		5,829,000		1,281,000		409,000	11,256,000

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Authorization For Expenditure - RIVERBEND 12-13 FEDERAL

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Water String DVES.135 14.000 Strike Cating DVES.145 P1-10,130 at \$28,00,m 306,000 Intermediate Cating 2 DVES.151 0 306,000 Dimemciate Cating 2 DVES.153 0 0 Dimemciate Cating 2 DVES.151 0 0 Dimemciate Cating 2 DVES.151 0 0 Production Cating or Liner DVES.160 0 STMT.101 3-1/2** 4,810 h at \$9,00/h Production Cating or Liner DVES.155 20,000 DVER.165 0 STMT.101 3-1/2** 4,810 h at \$9,00/h Tubing Tech DVES.155 20,000 DVER.125 STMT.102 3-1/2** 4,810 h at \$9,00/h 77,000 State Equipment DVES.155 20,000 DVER.125 STMT.102 3-1/2** 4,810 h at \$9,00/h 60,000 State Equipment DVES.155 20,000 DVER.125 STMT.102 STMT.102 3-1/2** 4,810 h at \$9,00/h Total Targite Healt DVES.125 STMT.102 STMT.102 STMT.102 STMT.102 STMT.102 STMT.102 STMT.10			and the second second second second	0	1	2	and an address of the second		A REAL PROPERTY OF A DESCRIPTION OF A DE	Construction of the same
Surface Ching DVER.150 / 1.0 / 9.64 - 2.666h tr \$252.00/h 677.00 / 308.000 /				0		1	1			
Intermediate Cable 1 DWR.116 P-10.130 # at \$28.00/h 308.000 Dolling Liver DWR.151 0 0 Moducion Cable or Liner DWR.151 0 0 Moducion Cable or Liner DWR.151 0 0 0 Medicador Cable or Liner DWR.152 DWR.166 118.00/h 0 0 Medicador Cable or Liner DWR.153 20,000 DWR.163 127.2" - 8.510h at \$9.00/h 77,000 Liner Hanger, Iobidion Pacter DWR.115 20,000 DWR.128 98,000 STMT.101 1-7.2" - 8.510h at \$9.00/h 77,000 Paraphag Link Engine DWR.1125 20,000 DWR.128 98,000 STMT.400 28,000 Status Equipment DWR.128 Status Equipment 80,000 STMT.400 28,000 STMT.400 245,000 STMT.400 245,000	Water String	DWE8,135		14,000			1			1
Incernedize Casing 2 DVEEN 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				67,000			4.5			(
Daffing Liver DWEX 160 O Production Tacking or Liner DWEX 160 0 Defaultion Tacking Production Tacking Unling Unling Unling Unling br>Unling Unl				308,000			1.00			1
Production Carling or Liner Production Tree-Back Unlining Wellhood 1/2 ⁻ - 12,850 far \$13,00 fa				0			-			1
Production Tar-Back DWER 110 DWER 110 </td <td></td> <td>DWEB.160</td> <td>2</td> <td>0</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>		DWEB.160	2	0		1				
Turing DWE 13 DUO 15 DWE 132 DWE 133 DUO 15 DWE 132 DWE 132 <thdwe 132<="" th=""> <thdwe 132<="" th=""> <thdwe 1<="" td=""><td></td><td></td><td></td><td></td><td></td><td>4 1/2" - 12,950ft at \$13.00/ft</td><td></td><td></td><td></td><td></td></thdwe></thdwe></thdwe>						4 1/2" - 12,950ft at \$13.00/ft				
Wellhaud Tree, Cholers DVES.113 20.000 DV/L120 25.000 STMT.120 60,000 Liner Hanger, Isobion Packer DVEB.100 0 DVEB.125 \$90,000 S1MT.140 \$20,000 \$1MT.140 \$20,000 \$21MT.140 \$21MT					DWEA.165		0			0
Liner Hanges Labition Packer OWEL 100 OWEA125 SRC00 STMC140 ST							1		3-1/2" - 8.510ft at \$9.00/ft	
Liner Hanger Jobision Packer UNVEIL 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								STIMT.120		60,000
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Weit Australian Materials 245,000 Total Tanglia - Weit Regimment Cast 409,000 VC Lease Solphomet 245,000 VC Lease Solphomet 245,000 Status Status Status 245,000 Jack Tanda Status 245		1.1		1		1	- A	STIMT.410		80,000
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Jeendery Comminnens Danhed Power Distibution Calcilly Becriate Calcilly Becriate Calcilly Cancel Cancel Calcilly Cancel Cancel Calcilly Cancel Can		(S		1.0		1	.1			
Dverhead Dever Obirbation Aralley Beoreval Heatmann Status Heatmann Status Heatmann Status Heatmann Status Heatmann Status Heatmannn Heatmann Heatmann Heatmann Heatmann Heatm	Tanks, Tanks Steps, Stairs						1			
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AuGi - Materiak Liji - Linke Pipe SVO/Other - Juke Pipe SVO/Other - Linke Pipe	funka, Tanka Steps, Stairs Jattery Equipment Jesondary Construments Dvarhwad Power Distribution Sailby Bleevical Felecommunication Equipment detars and Metering Equipment			and the second second	1					
NGC - Line Mpe WG (Chen - Manrish WG (Chen - Line Mpe	Funka, Tanka Steps, Stairs Jattery Equipment Becondary Containments Svertwood Power Ostribution facility Bectrical Felecommunication Equipment Aretars and Metering Equipment Scality Line Pipe			anno 1 Annoine 1. Cellera - J						
SWO/Other - Materials SWO/OTHER - LINE PIPE	funkt, Tanks Steps, Sains Lattery Equipmont learndary Containments Dearthead Power Distribution lacility Bectrical relecommunication Equipment vetans and Metaring Equipment lacitity Line Pipe area Automaticon Materials			and a state of the	3					
SWD/CTHER - LINE PIPE	funds, Tanka Steps, Soirs Jattray Equipment Secondary Containments Destinado Power Distribution Saitling Beccilda Saitling Beccilda Saitling Beccilda Lectan surd Metarting Equipment Jacility Line Filas easte Autometion Matterials Urcl – Materials		, .	and the second		a formation of constrained to the second				
	Indra, Traka Steps, Sairs Jahrey Equipment Geordary Containments Dearhood Power Distribution saitung Bearchia felorommunication Equipment detats and Metarling Equipment saito Automation Matérials LijóL - Materials LijóL - Materials			a balanci - a di sundi si di sul su di	70 (1 4					
Total Talgible - Lease Balament Cost	funda, Tanka Steps, Sains Innas, Tanka Steps, Sains Jeanhout Dower, Dastbuttion Saitling Beardia Eriecommunication Equipment Veets and Netering Gulpment Saitling Keerdia Veets and Netering Gulpment Saitling Line Ripe Vicio – Naterials Licio – Naterials			a stradarda			an analability of a stating of start process, so the start			
Total Estimated Cost 3,199,000 538,000 538,000 538,000	Indra, Trake Steps, Soins Lattray Equipment Secondary Contributions Lattray Equipment Secondary Contribution Lattory Beenda Lattray Control Equipment Actars and Metaring Equipment Actars and Actars and Actars Actars br>Actars and Actars A						na mandabitati si 10 militati in erra (mener), ese jano menerang			

		ton Equip	a raisen a	Post Completion
Description Roads & Location	Codes CON.100	Amount 3,000		Road Repair
Damoges	CDN.105	4,000		1
Mud/Fluids Disposal			PCOM.255	6,000 5WPD for 60 Days @ \$0.70/bbl
Day Rate Misc Preparation		1.		
Bits		1	PCOM.125	
Fuel			PCOM.130	
Water for Drilling Rig (Not Frac Water) Mud & Additives		1	PCOM.135	
SWD PIPED TO XEC SWD WELL		ž	PCOM 254	per la ser se
SWO PIPED TO 3RD PARTY SWD WELL			PC0M.257	
SWO HAULED TO XEC SWD WELL		1	PCOM.258	
SWD HAULED TO 3RD PARTY SWD WELL Surface Rentals	CON.140		PCOM.259 PCOM.140	\$1500/day for anticipated 30 days
Downhole Rentals	Contract	1.300	PCOM.145	a 1500/ day for anticipated 50 days
Flowback Labor			PCOM.141	\$2200/day for anticipated 15 days
Automation Labor Formation Evaluation (DST, Coring, etc.)	CON.150	45,000	PCOM.150	t a e
Wud Logging	1	1		
Open Hole Logging		· · · · · · · · · · · · · · · · · · ·		
Cementing & Rost Equipment		-		
Tubular Inspections			PCOM.160	
Casing Crevis Mechanical Labor	CON.170		-	1 C
Trucking/Transportation	CON.175	181,000	PCOM.170 PCOM.175	
Supervision	CON.180	10.000	PCOM.180	
Trailer House/Camp/Catering				
Other Misc Expenses Overhead	CON.190	12,000	PCOM.190	
Remedial Comenting			PCOM.215	
MOB/DEMOB			and realist	
Directional Drilling Services	1			
Solids Control Well Control Equip (Snubbing Services)	1		-	
Well Control Equip (Unubbing Services) Fishing & Sidetrack Services			PCOM.240 PCOM.245	
Completion Rig			PCOM.115	
Coll Tubing Services			PCOM.260	
Completion Logging/Perforating/Wireline Composite Plugs			PCOM 200	
Compound Plags Stimulation Pumping/Chemicals/AddItives/Sand			PCOM.390 PCOM.210	
Stimulation Water/Water Transfer/Water Storage			. contaite	
Cimarex Owned Prac/Rental Equipment]		PCON.305	XEC Owned Sand Separator
Legal/Regulatory/Curative	CON.300	0		
Well Control Insurance Major Construction Overhead	CON.305	75.000		
Real Time Operations Center		25,000		
FL/GL - Labor	CON.SOD	153,500		
FL/GL - Supervision	CONLSOS	22,000		
Survey SWD/Other - Labor	CONL615 CONL600	4,000		
SWD/OTHER - SUPERVISION	CON.605			
Contingency	CON.220	86,500	PCOM.220	545
Contingency	CON.221	30,000		
P&A Costs Total Imangible Cost		TOT F00		
Drive Pipe	fer in an ar a share an a subscription and	595,500		a a ga da a se ana ana ana ang ang ang ang ang ang ang
Conductor Pipe				
Water String				
Surface Casing Intermediate Casing 1				
Intermediate Casing 1 Intermediate Casing 2				
Drilling Liner				
Production Casing or Liner		1 1		
Production Tie-Back				
Tubing Wellhead, Tree, Chokes			PCONT.105	Hairpin from choke to flowline
Liner Hanger, Isolation Packer			-L.UNET, 120	manpath from choke to flowline
Packer, Nipples			PCOMT.400	
Pumping Unit, Engine			PCOMT.405	
Dowshole Lift Equipment		12 12 12	PCOMTA10	
Surface Equipment Weil Automation Materials			PCOMTA20	
Yotal Tangible - Well Equipment Cos				
N/C Lease Equipment	CONT.400	176,500		han a name for an one con al an apply that the state for the by the state of the state of the state of the stat
Fanks, Tanks Steps, Stairs	CONT.405	51,500	d'and	
Battery Equipment	CONT.410	191,500		
Secondary Containments Dverhead Power Distribution	CONTA15 CONTA20	12,000		
Facility Electrical	CONT.425	25,000		
Telecommunication Equipment	CONT.425	0		
Vieters and Metering Equipment	CONT.445	22,500		
acility Line Pipa	CONT.450	23,000		
ease Automation Materials	CONT.455	37,500		
FL/GL - Materials FL/GL - Line Pipe	CONT.550 CONT.555	63,500 52,500		
WD/Other - Materials	CONT.650	52,500	1	
SWD/OTHER - LINE PIPE	CONT.655	0	0.00	
Total Tangible - Lease Equipment Cos	THE REPORT OF THE PARTY	685,500		



Company Entity

Authorization For Expenditure Drilling

AFE # 26620019 Date Prepared

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	- The object of the second second second second second			9/5/2019
Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	RIVERBEND 12-13 FEDERAL COM 3	3H Carlsbad Bone Spring Prospec	300001-142.01	26620019
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	W/2 of Sections 12 & 13, Township Eddy County, NM	25 South, Range 28 East,	7/15/2019	8/15/2019
X New	Formation	Well Type T	tl Measured Depth	Ttl Vetical Depth
Supplement Revision	Wolfcamp	DEV	20,651	9,714

Purpose Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 400°, set water string casing. Drill to 2666°, set surface casing. Drill to 9204' (KOP). Drill curve at 12'/100' initial build rate to +/- 75 degrees and set casing at +/- 9829' MD. Finish curve at +/- 4'/100' to +/- 9710' TVD and drill a +/-9510' long lateral in the Wolfcamp formation. Run and cement production liner. Stage frac.Drill out plugs. Run production packer, tubing and GLVs.

Dry Hole	After Casing Point	Completed Well Cost
\$2,777,000		\$2,777,000
	\$6,825,500	\$6,825,500
\$2,777,000	\$6,825,500	\$9,602,500
Dry Hole	After Casing Point	Completed Well Cost
Dry Hole \$403,000	After Casing Point \$539,000	Completed Well Cost \$942,000
The second	the second	and a second state of the last the second second state and the second seco
	\$2,777,000	\$2,777,000 \$6,825,500

Total Weil Cost \$3,180,000 \$8,050,000 \$11,230,000

Comments On Well Costs

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

Well Control Insurance

Unless otherwise indicated below, you, as a non-operating working interest owner, agree to be covered by Operator's well control insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control insurance, you must provide a cartificate of such insurance acceptable to Operator, as to form and ilmits, et the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the certificate of insurance, as provided herein, will result in your being covered by insurance procured by Operator.

I elect to purchase my own well control insurance policy.

Marketing Election

Cimarex sells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to market your share of gas with Cimarex, you will be subject to all of the terms of such contracts. Upon written request to Cimarex's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Cimarex under the terms and conditions set forth above.

I elect to take my gas in kind.

l elect to market my gas with Cimarex pursuant to the terms and conditions of its contract.

Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorizztion for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

Company	Approved By (Print Name)	Approved By (Signature)	Date
	n and a second secon	and a second statement of the second s	

share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 9/5/2019

CIMAREX	AL
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uthorization For Expenditure - RIVERBEND 12-13 FEDERAL

		Drilling	ACP	Drilling	Corr	p/Stim	Product	ton Equip	Past Cor	npletion	Total
Description	Codes	Amount		Amount		Amount		Amount		Amount	and the state
Roads & Location	DIDC.100	25,000		1	STIM.100	10,000			PCOM.100	10,000	
Damages	DIDC.105	6,000		1	1	10,000	CON.105	4,000		13,000	
Mud/Ruids Disporal	DIDC255	160,000			STIM255	62,000		4,000	PCGM255		
av Rate	DIDC115	618,000		104,000		02,000		i	-com400	252,000	4
fisc Preparation	DIDC 120	35,000	1	104,000	1		§ (\$ ÷	1	7.
its	DIDC 125		DICC 125						1		3
		75,000		0		0	í	1	PCOM.125	0	7
uel	DIDC.135	108,000		0					PCOM.130	0	10
Vater for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	5TIM.135	24,000			PCOM.135	0	
aud & Additives	DIDC.145	198,000	1		1						19
WO PIPED TO XEC SWO WELL	1				2				PCOM254	0	
WD PIPED TO 3RD PARTY SWD WELL	1		j.		1				PCOM 257	0	
WO HAULED TO XEC SWO WELL	1 1		1		i.		3		PCOM258	0	
WD HAULED TO 3RD PARTY SWD WELL	1				3				PCOM 259		
urface Rentals	DIDC-150	134 000	DICG.140		1			1.411		0	
cambale Rentals	1	131,000	DICC.140	0		237,000	CON.140	1,500	PCOML140	45,000	41
and the restriction	DIDC.155	177,000			STIM.145	0			PCOM.145	0	17
owback Labor	1				STIM.141	0			PCOM.141	33,000	3
utomation Labor	1		1		1		CON.150	45,000	PCOM,150	0	4
annation Evaluation (DST, Coring, etc.)	DIDC.160	0			1 STIM.150	0				1	
ud Logging	DIDC.170	27,000	1			1 전형				1	
pen Hole Logging	DIDC.180	0	1		1						7
ementing & Floet Equipment	DIDC.185		DICC 155		1		£ 1				
		145,000		63,000	1				t 1	1	20
ubular inspections	DIDC.190	50,000		5,000		4,000	10		PCOML160	0)	5
asing Crews	DIDC.195	20,000	DICC.165	13,000	STIM.165	0				1	3
lechanical Labor	DIDC.200	20,000	DICC.170	10,000	STIM.170	0	CON.170	181.000	PCOML170	0	21
ucking/Transportation	DIDC.205	25,000	DKC.175	8,000		4,000	CON.175		PCOML175	0	
pervision	DIDC210		DICC 180				CON.180				5
		115,000		16,000		94,000	CON.180	10.000	PCOM,180	0	23
ailer House/Camp/Catering	DIDC280	49,000	DICC.255	6,000		34,000				1	8
ther Misc Expenses	DIDC.220	5,000	DKC.190	0	STIM.190	155,000	CON 190	12,000	PCOML190	0	17
warhead	DIDC.225	10,000	DICC.195	5,000	1						1
emedial Cementing	000231	0	A CONTRACTOR OF STREET		STIM215	0			PCOM215		
O6/DEMOS	DIDC240					0		8 18		0	492
		50,000	1000	1 1		1			6 S	1	5
rectional Drilling Services	DIDC.245	376,000	E							彩	37
alids Control	DIDC260	99,000	1. 		19. 2. 2.		1				. 9
iell Control Equip (Snubbing Services)	DIDC.265	99,000	DICC240	5,000	STIM.240	109,000	3		PCOM.240	0	21
shing & Sidetrack Services	DIDC270	0	DKC245	0	STIM245	0			PCOM245	0	21
ampletion Rig					STIM 115	21,000	1		PCOM115		13 B
all Tubling Services										0	2
	1		23 108 3		\$71M.260	358,000			PCOM.260	0	36
ampletion Logging/Perforating/Wireline					STIM.200	432,000		1	PCOM200	0	43
mposite Plugs		1			STIM.390	96,000			PCOM390	0	9
mulation Pumping/Chemicals/Additives/Sand	1			1	STMA210	2,926,000			PCOM210	0	2.92
inulation Water/Water Transfer/Water Storage	1				STIM.395				- Come IV	0	
	1 1	1	· •			702,000				1. A.	70
marez Owned Frac/Rental Equipment	ł.,			1	STIM.305	40,000			PCOM305	59,000	9
gal/Regulatory/Curative	DIDC300	10,000			- 1 E	. 1	CON.300	0		í	1
ell Control Insuranca	DIDC.285	7,000		ł	1	5		1		;	1
ajor Construction Overhead	8 F			3		al a	CONJOS	25,000		1	
al Time Operations Center	DIDC.560	0		1	STIM.560	0		1.0000		1	2
/GL - Labor				1	311110200	0	CONSOO			\$	
	6 1	1000	1	4		1		153,500		1.	15
/GL - Supervision) I					3	CON 505	22,000		i.	23
iney				1		i	CONLS15	4,000		1	
ND/Other - Labor						ţ	CON.500	0':		4	
VD/OTHER - SUPERVISION		1				5	CON.605	0		1	
ontingency	DIDCASS	132,000	0100220	12 000	STIM.220	266 000	CON.220		PCONL220	a i	
	0.00000	132,000	uncescu :	12,000	STIRLEEU	266,000			PLUMIZZU ;	0	490
ntingency		5		100			CON.221	30,000		i.	30
LA Costa	DIDC.295	0]	DICC.275	01						1	
Total Intangible Cost		2,777,0001	1	247,000	1	5,584,000	i	595,500		399,000	9,60
AP Pipe	DWEB.150	0		in the second second	1	a stimps to particular with 1 a		and the second sec	100 No. 10 Pr. 41 Pr. 70 Part. 45 Pa		
nductor Pipe	DWEB,130	0	1000	· · · · · · · · · · · · · · · · · · ·		4	1	1.492		1	
ker String	DWEB 135		Sec. 1	2		4	1			1	100
		14,000	8 I		(S.	4° L	1	1.1.4		Ì	1.
rface Casing	DWEB.140	67,000				1		-		1	6
ermediate Casing 1	DWEB.145	302,000	1. I	í.				9		1	30
ermediate Casing 2	DWEB.155	0'		1	5 - C - C			1		1	200
ling Liner	DWEL160	0	C	ŕ	1	1	1	2			
aduction Casing or Liner		0	DWEA100	in the second		1	- 1	ļ			12225
	1	i i		163,000	1					1	16:
iduction Tie-Back	1	ŝ	DWEA.165	0	STIMT.101	0	1.0			3	
		3	1	10	STIMT.105	75,000		5	PCOMT.105	0	7
aing		70.000	DWEA.120	25,000	STIMT.120	60.000			PCOMT.120	10,000	11
aing	DWE8.115		DWEA.125	98,000	1		1	6	1	10,000	
aing Rhead, Tree, Choices	DWE8.115 DWE8.100			30,000	F711 07 100	20.000	1		Down in the		9
olog Rhead, Tree, Chokes er Hanger, Isolation Packer			onexies .				1	12	PCOMT.400	0'	2
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CIMAREX Authorization For Expenditure - RIVERBEND 12-13 FEDERAL COM 33H

СО	101 221								
L	101213	BCP - Drilling	(<u>1891-099</u>)		ACP - Drilling	مستخد بالأ		Comp/Stim	
Description Roads & Location	Codes		Amount			Amount	Codes		Amour
Damages	DIDC.105		25,000			6 ece	STDA.100		10,00
Mud/Fluids Disposal	DIDC.255		6,000			£			1
Day Rate		23 days at \$25,000/day	160,000		4 days at \$26,000/day		STB4.255	1	62,00
Misc Preparation	DIDC.120		618,000		4 days at 320,000,089	104,000		C	1
Bits	DIDC.125		75 000	DICC.125		0	ST04.125		
Fud	DIDC.135		108,000	DICC.130		0	3194-123		1
Water for Drilling Rig (Net Frac Water)	DIDC.140		5,000			0	STDA.185		1
Muld & Additives	DIDC.145		198,000			9	31 pril. 153		24,00
SWD PIPED TO XEC SWD WELL	i Disci res		195,000	1					3
SWO PIPED TO 3RD PARTY SWD WELL	1								
SWD HAULED TO XEC SWD WELL	á					1			
SWO HAULED TO 3RD PARTY SWD WELL	3								1
Surface Rentals	DIDC.150	Per Day (BCP)/day	131 000	DICC140		0	STD4.140		237.00
Downhole Rentals	DIDC.155		177,000			, i	STRA145	2	257.00
Flowback Labor			11111000	1		1. 10	STIM.141		
Automation Labor	n i			1					1
Formation Evaluation (DST, Coring, etc.)	DIDC.160		0				STIM 150		í i
Mud Logging	DIDC.170	18 days at \$1,200/day	27.000	1					
Open Hole Logging	DIDC.180		0	1					
Cementing & Float Equipment	DIDC.185		145,000	DICC.155		63,000			
Tubular Inspections	DIDC.190			DICC.160		5,000	STIM.160	1	4,000
Casing Crews	DIDC.195			DICC165		13,000	STR4,165		1
Mechanical Labor	DIDC.200			DICC.170		10,000	STIM.170	1	
Trucking/Transportation	DIDC.205			DICC175		8,000	STIM.175		4,000
Supervision	DIDC.210		115,000	DICC.180		16,000	STIM.180	1	94,000
Trailer House/Camp/Catering	DIDC.280		49,000	DICC255		6,000	STIM.280		34,000
Other Misc Expenses	DIDC.220		5,000	DICC.190		0	STUA 190		155,000
Overhead	DIDC.225		10,000	DICC195		5,000		1 N . N	1
Remedial Comenting	DIDC.231		0	1		1	STIM.215	1	1
MOB/DEMOB	DIDC.240		50,000			6 I			
Directional Drilling Services	DIDC.245		376,000			2			ł.
Salids Control	DIDC.250		99,000						
Well Control Equip (Snubbing Services)	DIDC.265		99,000	DICC240		5,000	STIM.240		109,000
Fishing & Sidetrack Services	DIDC270		Ó	DICC245		0	STIM.245		(
Completion Rig	j.			1			STIM.115		21,000
Coll Yubing Services							STIM.260		368,000
Completion Logging/Perforating/Wireline	1)	STIM.200		432,000
Composite Plugs						1	STIM.390		96,000
Stimulation						1	STIM.210		2,926,000
Stimulation Water/Water Transfer/Water							STIM.395		702,000
Cimarex Owned Frac/Rental Equipment	1						STIM.305		40,000
Legal/Regulatory/Curative	DIDC.300	20 C	10,000						
Well Control Insurance	DIDC.285	\$0.35/#	7,000			1			
Major Construction Overhead	10	1							
Real Time Operations Center	DIDC.560		0				STIM 560	1	0
FL/GL - Labor						1			
FL/GL - Supervision									
Survey								1	
SWD/Other - Labor								1	
SWD/OTHER - SUPERVISION		in in the second						1	
Contingency	DIDC.435	500 % of Drilling Intangibles	132,000	DICC220		12,000	STIM 230		266,000
Contingency								1	
PBLA Costs Total Intangible Cost	DIDC.295		0	DICC.275		0			
Drive Pipe		e Marinet de la marca de la companya de la comp	2,777.000		ويتوحوه والاراب والملاحد الرميا والراجا والاحتراط	247.000	*****		5,584,000
	DWEB.150	34	0			1		12 A.A.	
Conductor Pipe Nater String	DWEB.130 DWEB.135		0						
			14,000					1	
		9 5/8" - 2,668/t at \$25.00/ft	67,000			1			
intermediate Casing 1	DWEB.145 DWEB.155	7" - 9,930ft at \$28.00/ft	302,000			1			
ntermediate Casing 2			0						
Drilling Liner Production Casing or Liner	DWEB.160		0	DUCION					
Production Tie-Back			1		4 1/2" - 12,550ft at \$13.00/h	163,000	-		
ubing		8		DWEA.165		0	STIMT.101	1.100	0
Wellhead, Tree, Chokes	DWEB.115			DUELON				3-1/2** - 8.300ft at \$9.00/h	75,000
Jner Hanger, Isolation Packer	DWEB.100	i l		DWEA.120			STIMT.120	1	60,000
aner Hanger, Isototion Packer Packer, Nipples	United 100		0	DWEA.125		98,000	STIMT.400		
Parker, reppter Pamping Unit, Engine			1			1	STIMT,400 STIMT,405	1	28,000
Downhole Lift Equipment			1			1			0
Surfoce Equipment				1	5 A S	1	STIMTA10	< 1	80,000
Vell Automation Materials									
Total Tangible - Weil Equipment Cost			402.000			205 050			
I/C Lease Equipment			403,000			285,000		ودور جهموعوان فيعرف تعاقد فرائدة يستقصفها والاستع	243,000
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amage Constrained					Road Repair		48.0
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Synta	Mud/Floids Disposal			PCOM.255	6.000 BWPD for 60 Days @ \$0.70/bbl	252 000	474,0
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CIMAREX

AFE # 26620020

Company Entity				Date Prepared
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Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	RIVERBEND 12-13 FEDERAL COM 34H Carisbad Bo	ne Spring Pros	pect 300001-143.01	26620020
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	W/2 of Sections 12 & 13, Township 25 South, Rang Eddy County, NM	e 28 East,	7/15/2019	8/15/2019
X New	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
Supplement Revision	Wolfcamp	DEV	20,855	9,918

Authorization For Expenditure Drilling

Purpose Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 400°, set water string casing. Drill to 2666°, set surface casing. Drill to 9408° (KOP). Drill curve at 12°/100° Initial build rate to +/~ 75 degrees and set casing at +/~ 10033° MD. Finish curve at +/~4°/100° to +/~ 9920° TVD and drill a +/-9510° long lateral in the Wolfcomp formation. Run and cement production liner. Stage frac.Drill out plugs. Run production packer, tubing and GLVs.

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,777,000		\$2,777,000
Completion Costs		\$6,825,500	\$6,825,500
Total Intangible Cost	\$2,777,000	\$6,825,500	\$9,602,500
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$409,000	\$541,000	\$950,000
Lease Equipment		\$685,500	\$685,500
Total Tangible Cost	\$409,000	\$1,226,500	\$1,635,500
Total Well Cost	\$3,186,000	\$8,052,000	\$11,238,000

Comments On Well Costs

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

Well Control Insurance

Unless otherwise indicated below, you, as a non-operating working interest owner, agree to be covered by Operator's well control insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance ecceptable to Operator, as to form and limits, at the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the certificate of insurance, as provided herein, will result in your being covered by Insurance procured by Operator.

l elect to purchase my own well control insurance policy.

Marketing Election

Gimarex sells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to market your share of gas with Cimarex, you will be subject to all of the terms of such contracts. Upon written request to Cimarex's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Cimarex under the terms and conditions set forth above.

I elect to take my gas in kind.

I elect to market my gas with Cimarex pursuant to the terms and conditions of its contract.

Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorization for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

Company	Approved By (Print Name)	Approved By (Signature)	Date
			1
	osts shown on this form are estimates only. By executing		

CIMAREX	Authorization F COM 34H	or Expenditure	- RIVERB	END 12	-13 FEC	DERAL
rescription	BOP - Codes	Amount Codes		Comp/S Codes	Amount	Productio

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Paradada.	BOP	Drilling		Drilling		vp/Stm		on Equip		npletion	Total
Description Roads & Location	Codes DIDC.100	Arnount		Amount	Codes STIM 100	Arnount	Codes	Amount		Amount	
Damages	DIDC.105	25,000			SIIM 100	10,000	CONL100 CONL105		PCOM,100	10,000	5
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	10.000	CONLIDS	4,000	PCOM 255		
Day Rate	DIDC.115	618,000		104,000		62,000			PCUM255	252,000	4
Also Preparation	DIDC.120	35,000		104,000					-		7
lius	DIDC.125	75,000		0	STIM.125	0			PCOM.125		* • <i>* -</i> • •
uel .	DIDC.135	108,000		0					PCOM.130	0	
Vater for Drilling Rig (Not Frac Water)	DIDC.140	5,000	á	0		24,000			PCOM.135	0	
Aud & Additives	DIDC.145	198,000		1		24000				0	19
AND PIPED TO XEC SWD WELL	1				1				PCOM 254	0	100
WO PIPED TO 3RD PARTY SWO WELL	1 1		1.00						PCOM.257	0	
SWO HAULED TO XEC SWD WELL	1								PCOM.258	0.	
WD HAULED TO 3RD PARTY SWD WELL			1						PCOM259	0	
urface Rentals	DIDC.150	131,000	DICC.140	0	STIM.140	237,000	CON.140	1,500	PCOM.140	45,000	4
ownhole Rentals	DIDC.155	177,000			STIM.145	0	1		PCOM.145	0	1. 17
lawback Labor					STIM.141	0			PCOM.141	33,000	
utomation Labor			1				CONL150	45,000	PCOM,150	o	
ormation Evaluation (DST, Coring, etc.)	DIDC.160	0			STIM.150	0				1	
Aud Logging	DIDC.170	27,000							8	1.1	
ipen Hale Logging	DIDC.180	0					1				
ementing & Float Equipment	DIDC.185	145,000		63,000							20
ubular Inspections	DIDC.190	50,000		5,000		4,000			PCOM.160	o'	3
asing Crews	DIDC.195	20,000	DICC.165	13,000	STIM, 165	0		and the second			3
lechanical Labor	0100200	20,000	DKC.170	10,000	STIM.170	0	CON.170		PCOML170	0	21
nucling/Transportation	DIDC-205	25,000	DICC.175	8,000	STIM.175	4,000	CONL175		PCOM.175	0	5
upervision	DIDC 210 DIDC 280	115,000	DICC,160	16,000		94,000	CON,180	10,000	PCOM.180	0	23
railer House/Camp/Catering Other Misc Expenses	DIDC.280	49,000	DKC.255 DKC.190	6,000	STIM.280	34,000	CON.190	10.000	DC014105	di la constante	8
Auter Misc Expenses Averhead	DIDC.225	5,000	DICC.190	0	a 1104.190	155,000	LUN(190	12,000	PCOML190	0	17
emedial Cementing	DIDC.225	10,000	Direct 193	5,000	STIM215	_	1		PCOM215	2	
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itrectional Drilling Services	DIDC.245	376,000		1.63						-	5
olids Control	DIDC.260	99.000					1				37
Vell Control Equip (Snubbing Services)	DIDC.265	99,000	DICC.240	5,000	STD4.240	109.000			PCOM240	0	
shing & Sidetrack Services	DIDC.270	0.000	DICC 245	3,000	STIM.245	03,000			PCOM245	0	21
ompletion Rig			Dictory		STD4115	21,000	8 - E		PCOM115		
ioil Tubing Services					STIM 260	368,000	. I.	1	PCOM260	0	2
ompletion Logging/Perforating/Aviraline					STIM 200	432,000	8 - A		PCOM.200	o'	36
omposite Plugs					STIM.390	95,000			PCOM.390	o,	43
timulation Pumping/Chemicals/Additives/Sand					STIM 210	2.926.000	 S 		PCOM210	0	9
timulation Water/Water Transfer/Water Storage					STIM 395	702,000		1	reomato	0	2.92
Imarez Owned Frac/Rental Equipment			1		STIM BOS	40,000			PCOM.305	59,000	70
egal/Regulatory/Curative	DIDC.300	10.000			310000	40,000	CON.300	0	PCOMDUS	23,000	. 1
Vell Control Insurance	DIDC.285	7.000		3		1 1 1					
fajor Construction Overhead		1,000				1	CON 305	25,000			2
eal Time Operations Center	DIDC.560	0		1	STIM.560	0		23,000			4
L/GL - Labor		i					CONLSOO	153 500			15
L/GL - Supervision			1			2	CON 505	22,000			2
urvey						ł	CON.515	4,000	1	1	-
WD/Other - Labor							CON.500	0			
WD/OTHER - SUPERVISION							CON.605	0		1	
antingency	DIDC.435	132,000	DICC.220	12,000	STIM.220	266,000	CON.220	86,500	PCOM.220	0	49
antingency						1 000/000	CON.221	30,000			3
BLA COSTS	DIDC.295	0	DICC 275	0		1				1	
Total Intangible Cost		2,777,000		247,000	1	5,584,000		\$95,500		399,000	9,50
five Pipe	DWEB,150	0		and suffy the made a	1	an Marin (al anti- i) anganan (-	ar en d'a da da da da ange an a	-		son's to be set to be
enductor Pipe	DWEB.130	0				-		ç			
later String	DWEB.135	14,000			1.5 1	ł	1	[1
urface Casing	DWEB.140	67,000	(I			1				1	6
termediate Casing 1	DWEB.145	308,000				1		e F		1	30
Lermadiate Casing 2	DWEB.155	0		1.00	1	l.	i	1			
nilling Liner	DWEB.160	0	1					3		-	
roduction Casing or Liner			DWEA.100	163,000		1		1		j	16
oduction Tie-Back			DWEA165	0	STIMT.101	0)		1	
ibing		-			STIMT.105	77,000			PCOMT.105	0	7
elhead, Tree, Chokes	DWEB.115		DWEA.120		STIMT.120	60,000	1		PCONT.120	10,000	11
ner Hanger, Isolation Packer	DWEB,100	٥	DWEA.125	98,000				2			9
icker, Nipples					STIAT.400	28,000	S. 1	5	PCOMT.400	0	2
imping Unit, Engine		1		1	STIMT,405	0			PCOMT.405	0	
ownhole Uft Equipment				1	STIMT.410	80,000	an el	1	PCONT.410	0	8
Inface Equipment		1		1			1		PCOMT.420	0	
ell Automation Materials Total Tangible - Woll Equipment Cos	· • · · · · · · · · · · · · · · · · · ·	100.000		200.000					PCOMTASS	0	
Total Tangible - Woll Equipment Cos. C Lease Equipment		409,000		286,000	armenere	245,000	CONT.400	1		10.000	95
nis, Tanks Steps, Stairs		1000				5. C	CONT.400	176,500			17
no, Fanio Steps, Stains Itery Equipment		-	1.0	2 1		1	CONT.410	51,500		á.	5
tery Equipment condary Containments		į	1	1			CONTA15	191,500		1	19
erhaad Power Distribution		. 1	1		· 1		CONTA15 CONTA20	12,000		- 1	1
erhead Power Distribution		1			1 a 1	1	CONT.420	25,000			2
		-	1	i	10.000	1		30,000		- [-	3
ecommunication Equipment stors and Metering Equipment	1	-	1				CONT.426	0.			43
eters and Metering Equipment	1	1		1	1.11		CONT.445	22.500	10	Se 1993	2
	2	1	1	1		1	CONTASO	23,000	1	ł.	2
ase Automation Materials	1	1				1	CONT.455	37,500		1	3
/GL - Materials			ž			1	CONT.550	63,500		5	6.
KSL - Lina Pipe		1	2			ŝ	CONT.555	\$2,500	. 1		5
/D/Other - Materials		1		į	5 V - 1	1	CONT.650	0	17 28	1	
D/OTHER - LINE PIPE Total Tangible - Lasse Equipment Car							CONT.655	685,500		-	

CIMAREX	1

Authorization For Expenditure - RIVERBEND 12-13 FEDERAL COM 34H

CO	IVI DTI								
) Duardation		BCP - Drilling	<u>(28)282</u>	halles le	ACP - Drilling	and a	and the second	Comp/Stim	
Description	Codes		Amount			Amoun			Amo
Roads & Location Damages	DIDC.100		25,000			1	STIM.100		10,
Mud/Fluids Disposal	DIDC.105		6,000			1		2	
Day Rate			160,000			1	STIM.255	1	62,
Misc Preparation	DIDC.120	23 days at \$26,000/day	618,000		4 days at \$26,000/day	104,000		1	1
Bits	DIDC.125		35,000			1	1.000	i	
Fuel	DIDC.135		75,000	1		0			
Water for Drilling Rig (Not Frac Water)	DIDC.140		108,000	·)		0		1	1
Mud & Additives	DIDC.145		5,000			d	STIM.135		24
SWD PIPED TO XEC SWD WELL	DIDC145		198,000				1	1 2	1
SWD PIPED TO 3RD PARTY SWD WELL	1			i		1	1		1
SWD HAULED TO XEC SWD WELL	1		1	1			i	8	
SWD HAULED TO 3RD PARTY SWD WELL	1			1		5	1		
Surface Rentals	DIOCIST	Per Day (BCP)/day	131.000	DICC.140		84 - M K.	STINA 140	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Downhole Rentals	DIDC.155					0	STIM.140		237
Flowback Labor	1		177,000	-		1 - 20			1
Automation Labor			1	1		1	STIN.141		1
Formation Evaluation (DST, Coring, etc.)	DIDC.160		0	1			STIM.150	1. C. 1. 1.	1
Mud Logging	DIDC.170		27,000			÷	3184.130		1
Open Hole Logging	DIDC.180	to days at a r,cotroay	27,000			1 6	1.2		1
Cementing & Float Equipment	DIDC 185			DICC155		CT 000	1		1
Tubular Inspections	DIDC.190		50.000			63,000			
Casing Crews	DIDC.195		20,000			5,000			1 4
Mechanical Labor	DIDC.200		20,000			13,000			1
Trucking/Transportation	DIDC.205		25,000			10,000			1
Supervision	DIDC210	-	115,000			8,000		1	4
Trailer House/Camp/Catering	DIDC.280	1	49,000			16,000		1	94
Other Misc Expenses	0100220	1	49,000			6,000			34,
Overhead	DIDC225					0	511ML190	1	155,
Remedial Cementing	DIDC223		10,000	DKC195		5,000	CT1	1	1
MO8/DEMOB	DIDC240						STIM215		
Directional Drilling Services	DIDC245		50,000 376,000			1			1
Salids Control	000245		376,000				1		
Well Control Equip (Snubbing Services)	DIDC.265			DICC.240			STIM.240		1
Fishing & Sidetrack Services	DIDC.270	5	99,000			5,000		15 E	109,
Completion Rig	1 Success		0	UNCC45		0	STIM.245 STIM.115		
Call Tubing Services	1	14.72					STIM.260		21,
Completion Logging/Perforating/Wireline	1								368,
Composite Plugs				왕 김			STIM.200 STIM.390		432,
Stimulation		1.0		6 9	1				96,
Stimulation Water/Water Transfer/Water						1	\$TIM.210 \$TIM.395		2.926/
Omarex Owned Frac/Rental Equipment		2 - H					STIM.305		702
Legal/Regulatory/Curative	DIDC.300	'	10,000				31100,203		40,0
Well Control Insurance	DIDC.285	\$0.35/ft	7,000						i i
Malor Construction Overhead	ene caces	1 accounts	7,000						
Real Time Operations Center	DIDC.560	1 ⁻¹	0				STIM.560		i.
RJGL - Labor			U			1	3110.300		
FL/GL - Supervision			- E - 3		2. C			1 8 M M	1
Survey		·							
WD/Other - Labor								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SWD/OTHER - SUPERVISION									
Contingency	DIDC.435	500 % of Drilling Intangibles	132 000	DKC.220		12,000	STIM 220	1 S S	266,
Contingency			152,000			12,000	JIII		200,
ASIA Costs	DIDC.295		0	DICC.275		0		1	
Total Intangible Cost	1		2.777,000			247.000			5.584
Ave Pipe	DWER,150	n analaran manusaran ara tara tara tara tara tara tara t	0	·**********	an a		1.547.47.17.16.17. 19.1 .1	بر اور این ایندر در و انوانیا در او کوانی او او ایر ایر ایر او او او	3,30%
Conductor Pipe	DWEB.130	<	0			g sast		1	
Nater String	DWEB.135		14,000						
iurface Casing		9 5/8" - 2,666ft at \$25.00/ft	67.000		1			P	
ntermediate Casing 1		7" - 10.130ft at \$28.00/ft	308,000		5				
nternvediate Casing 2	DWEB,155		500,000	1					
arilling Liner	DWEB.160		0						
roduction Casing or Liner		1		DWEA 100	4 1/2" - 12,550ft at \$13.00/ft	163,000			
roduction Tie-Back			. 1	DWEA 165		Δ	ST247.101		
ubing		0.0203	3			0		3-1/2 8,510ft at \$9.00/ft	77,
Valthead, Tree, Chokes	DWEB.115	2 10 ¹⁰ 10	20.000	DWEA 120		25.000	STIMT.120	- ye operation as as with	
iner Hanger, Isobtion Packer	DWEB,100	- 90 N. N		DWEA 125		98,000		3 8 8	60,0
		3 (Sec. 1997)	0		· · · · ·	30,000	STIMT.400		30.4
			1.1	i		1.20	STIMT.405	8	28,0
Packer, Nipples Pumping Unit, Engine		1					STIMT.410		80,0
acker, Nipples							a . p M	999 <u>3</u> 95	80,0
Packer, Nipples Pumping Unit, Engine									
lacker, Nipples Iumping Unit, Engine Downhole Lift Equipment Iurface Equipment									
acker, Nipples umping Unit, Engine kownhole Lift Equipment urface Equipment			409.000			286.000		!	745
acker, Nipples umping Unit Engline ownhole Lift Equipment urface Equipment Kei Automston Naterials Total Tangbie - Well Eculomere Cost	100 - 100 Jan 4 9 17 17		409.000			286,000	ar an oad haaramaan sirsaa		245.0
acker, Nipples umping Unit, Engine ownhole Liff Equipmont unface Equipment fel Automston Materials Total Tapabe - Wall Beginment Cest Zr Lösse Equipment	94 11 January 1 11		409.000		national V College In Contestion and	286,000	ar an an Angeler an Arag		245.0
acker, Nipples umping Unit, Engline kownhole Lift Equipment unfane Equipment Weil Automation Materials Toral Tangble – Weil Equipment Caste Equipment August Tanks Step Statis			409.000			286,000	********		245.0
acker, Nipples umpling Link, Engline winhole Lift Equipment unface Equipment Tool Targber– Wild Equipment Cost, Cl Sanke Equipment anks, Tarles Stepi, Stairs			409.000			286,000	********************************		245.
acter: Noples ampling Luit, Engline ampling Luit, Engline unfree Equipment (et Automation Nateriells Treel Tangbe – Well Equipment Coste Equipment Story Equipment Secondary Containments		in a Thirthean	409.000			286,000			245.0
acker, Nipples umping Luki, Engline winhole Lift Equipment virties Equipment Toel Tangble - Virdi Equipment Cast, Z'E Saste Equipment and, Tanla Stope, Skriss ettery Equipment secondary Containments werhand Power Distribution	1928 1928		409.000			286,000	ar an sa barranga sarang		245.0
acter: Nopals umping Link: Engline exercise Litt Equipment unfree Soutpment See Automation Naterists Toral Tangbe - Will Equipment Cast. C Seale Equipment actery Equipment actery Equipment Seendary Centaliments werhead Power Distribution adity Secretical			409.000			286,000	••••••••••••••••••••••••••••••••••••••		245
acter, Nipples umping Luit, Engline umping Luit, Engline (E. Automston Materials) Teal Tangba - Will Englineers Cast (C. Lease Englineers actory Southanness earby Southanness werhead Pener Distribution adity Encrical Becommunication Equipment			409.000		e Secologica Stationes	286,000	Part in bounds the		245
acter: Nopals umping Link: Englane ownhole Lin Equipment unfree Equipment (et Automation Nateriels) Tool Tangbe – Will Equipment Cast (Caste Equipment) and, Tanio Stopi, Stairs ettary Equipment econdary Centainments econdary Centainments econdary Centainments elscommunication Equipment elscommunication Equipment		n y Siliyeyy Siliyeyy	409.000		e Les s'an Les s	286,000			245
Letter, Noplas Lamping Link, Engline somholde Lift Edgigment; Laffase Edgigment; Verl Automstön Materials Treat Tangbe – Well Beglomene Cast: VC Lasse Edgipment; attery Edgipment attery Edgipment attery Edgipment; attery Edgipment; attery Edgipment; attery Edgipment; atters Edgipment;		n a Coléman	409.000		e Le se s San s S	286,000			245,
Itacker, Nipplas umping Unit: Engline worklobe Unit Engline Weit Automistion Maaerials Tool Tangble - Weit Englineers Cast, Vic Iosse Eliupioneers ander, Tankis Sport, Stains Mattery Equipment adding Exercical decommunication Equipment Aeters and Metering Equipment adding Exercical See Automistion Monthals			409.000		in a financia	286,000	*********************		245.
Locker, Nopales umping Link, Engline ownhole Lift Equipment furface Equipment See Automation Materials Toral Tangbe – Well Equipment Cast (C) Lease Equipment anter, Tanks Stepi, Stairs starty Equipment Secondary Containments werhoad Power Distribution adity Electrical decommunication Equipment letens and Metering Equipment letens and Metering Equipment Bease Automation Materials (U) – Netarials		n y Theorem Theorem (1997)	409.000			296,000	4° no banna sha		245.0
acter, Nipples umping Luis, Engline umping Luis, Engline (E. Automston Materials) Teel Tangba – Will Beginners Cast (E. Laster, Ston), Statis attery Equipment exercly and the stone of the statistical storey Equipment exercised exercised secondary Centralisment here and Metering Equipment eleters and Metering Equipment sale Automation Materials Vict – Une Rep			409.000		n Inn a Start Start a St	286,000	st ^a n in langua, sha		245.0
Locker, Noplas umping Link, Engline ownhole Lift Equipment Unfras Equipment See Automation Materials Total Tangbe – Will Equipment Cast () Exast Equipment altery Equipment altery Equipment Seendary Centraliments werhood Power Distribution adity Eccinical decommunication Equipment decommunication Equipment decommunication Equipment addity Line Pipe Sola – Materials UGL – Inter Rise UGC – The Pipe			409.000		e Ionar 1 - o 1 an 1 1	286,000	st ^a n na langua, shaji		245.0
acter, Nipples umping Luis, Engline umping Luis, Engline (E. Automston Materials) Teel Tangba – Will Beginners Cast (E. Laster, Ston), Statis attery Equipment exercly and the stone of the statistical storey Equipment exercised exercised secondary Centralisment here and Metering Equipment eleters and Metering Equipment sale Automation Materials Vict – Une Rep	102		409.000			286,000			245

PT-11 N. 1991. Commission Commission Commission Commission Commission Commission Commission Commission Commi	34H	the statestic states and an end					
Description	Codes	Production Equip	Amoun	t Cades	Post Completion	Stricks Sq	Total
Roads & Location	CON.100		3,00		Road Repair	Amount- 10,000	48,0
Damages	CON.105		4,000	0	4	1	10,0
Mud/Fluids Disposal Day Rato				PCOM.255	6,000 8WPD for 60 Days @ \$0,70/bbl	252,000	474.0
Misc Preparation			-				722,0
Bits			1	PCOM.125		0	35.0 75,0
Fuel				PCOM.130		0	108,0
Water for Drilling Rig (Not Frac Water)				PCOM.135		0	29,0
Mud & Additives SWD PIPED TO XEC SWD WELL				000000000			198.0
SWD PIPED TO JRD PARTY SWD WELL	1			PCOM-254 PCOM-257		0	
SWD HAULED TO XEC SWD WELL	ł			PCOM-258	1	0	
SWD HAULED TO 3RD PARTY SWD WELL	1			PCOM.259		0	
Surface Rentals	CONL140		1,500		\$1500/day for anticipated 30 days	45,000	414,5
Downhole Rentais Rowback Labor	1.1		-	PCOM.145	17700 Mar. (no. 1961) and 187 days	0	177.0
Automation Labor	CON.150		45.000		\$2200/day for anticipated 15 days	33,000	33,0 45,0
Formation Evoluation (DST, Coring, etc.)				1		1	43,0
Mud Logging						1 3	27,0
Open Hole Logging Sementing & Float Equipment				1		1	
ubular Inspections			1	PCOM.160	1	1	208,00
asing Crews				FCONCIOU		0	59,00
lechanical Labor	CONL170			PCOM.170		0	211,00
rucking/Transportation	CON.175		18,000	PCOM.175		0	55,00
upervision miler House/Como/Caterion	CON.180		10,000) PCOM.150		0	235,00
Tailer House/Camp/Catering Other Misc Expenses	CON.190		1	PCOM.190		1 1	89,00
Dverhead			12,000		1	0	172,00
temedial Cementing				PCOM.215		0	15,00
AOB/DEMOB			2	-	· · · · · · · · · · · · · · · · · · ·		50,00
Virectional Drilling Services alids Control	X			1			376.00
olias control Vell Control Equip (Snubbing Services)			ŧ	PCOM 240	í	1 3	99,00
shing & Sidetrack Services			1	PCCM.240		0	213,00
ampletion Rig			1. 11	PCOM.115		o,	21,00
oll Tubing Services			1	PCOM.260		0	368,00
ampletion Logging/Perforating/Wireline				PCOM.200 PCOM.390		0	432,00
omposite Plugs timulation Pumping/Chemicals/Additives/Sand				PCOM.390		0	96,00
fimulation Water/Water Transfer/Water Storage			1	PLUMAIG		0	2,926,00
imares Owned Frac/Rental Equipment			1	PCOM.305	XEC Owned Sand Separator	59,000	99.00
egal/Regulatory/Curative	CON.300		0	1			10,00
fell Control Insurance				1		f)	7.00
lajor Construction Overhead eal Time Operations Center	CON.305		25,000				25,00
UGL - Labor	CON.500		153,500	1			153,50
JGL - Supervision	CON.S05		22,000		-		22,00
arvey	CON.515		4,000				4,00
ND/Other - Labor ND/OTHER - SUPERVISION	CON 605		0	ł		1	
onungency	CON.220		86,500	PCON-220			107 50
ontingency	CON.221		30,000			0	496,50 30,00
RA Costs				1	4 Mar 1 Mar		30,00
Total intangible Cost			595,500		n 1 1 1 Alan (And Maria Intelligible) an internet annot a tradition an Alanna an Alanna an Alanna an Alan an Alan Al	399,000	9,602,50
tve Pipe anductor Pipe			1	1 .			
ater String	1		1			1	
rface Casing			1				14,00
termediate Casing 1							308,00
termediate Casing 2			i	-			
illing Liner oduction Casing or Liner	1		i i				
oduction Tie-Back			1				163,00
bing				PCONT.105		0	77.00
ellhead, Tree, Choixes	1	0.2	1	PCONT.120	Hairpin from chake to flowline	10,000	115,00
er Hanger, Isolation Packer			1				98,00
cker, Nipples mping Unit, Engine	1		-	PCOMT.400		0	28,00
withale Uit Equipment			ł	PCOMT.405 PCOMT.410		0	80.00
rface Equipment				PCOMT.420		0	80,00
ell Automation Materials			1	PCOMT.455		0	
Total Tangible • Well Equipment Cos C Lease Equipment		ويعاربون والارتدار والارتدار والانتخار والمتحار المحافظ المرافع والاناري				10,000	950,00
C Lease Equipment Nos, Tanks Steps, Stairs	CONT.400 CONT.405		176,500			1	176,50
tery Equipment	CONT.410		51,500 191,500		4		51,50
condary Containments	CONTA15		12,000				191,50
erhead Power Distribution	CONT.420		25,000		A 1 A		25,00
clity Electrical	CONT.425		30,000			1 (30,00
ecommunication Equipment	CONT.426		0			E 1	S
iters and Metering Equipment Sity Line Pipe	CONT.445 CONT.450		22,500			i i	22,50
ise Automation Materials	CONT.455		23,000	i			23,00
GL - Materials	CONT.550		63,500				37,50
/GL - Line Pipe	CONT.555		52,500				52,50
D/Other - Materials	CONT.650		0			l l	
D/OTHER - LINE PIPE Total Tangible - Lazor Equipment Coc	CONT.655		0				1. 1
			685,500				685,500



Authorization For Expenditure Drilling

AFE # 26620021 Date Prepared

			÷ 7.0	9/5/2019
Exploration Region		ospect	Property Number	AFE
Permian Basin	RIVERBEND 12-13 FEDERAL COM 35H Carlsbad Bone	Spring Prosp	ect 300001-144.01	26620021
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	W/2 of Sections 12 & 13, Township 25 South, Range Eddy County, NM	28 East,	7/15/2019	8/15/2019
X New	Formation W	ell Type	Ttl Measured Depth	Tti Vetical Depth
Supplement Revision	Wolfcamp	DEV	20,651	9,714

Purpose Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 400°, set water string casing. Drill to 2666°, set surface casing. Drill to 9204' (KOP). Drill curve at 12°/100° initial build rate to +/- 75 degrees and set casing at +/- 9829' MD. Finish curve at +/- 4°/100° to +/- 9710° TVD and drill a +/-9510° long lateral in the Wolfcamp formation. Run and cement production liner. Stage frac.Drill out plugs. Run production packer, tubing and GLVs.

Intangible	Dry Hale	After Casing Point	Completed Well Cost
Drilling Costs	\$2,777,000		\$2,777,000
Completion Costs		\$6,825,500	\$6,825,500
Total Intangible Cost	\$2,777,000	\$6,825,500	\$9,602,500
Tangible	Dry Hole	After Casing Point	Completed Well Cast
Weil Eguipment	\$403,000	\$539,000	\$942,000
Lease Equipment		\$685,500	\$685,500
Total Tangible Cost	\$403,000	\$1,224,500	\$1,627,500

Total Weil Cost \$3.180.000 \$8.050.000 \$11,230,000

Comments On Well Costs

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

Well Control Insurance

Unless otherwise indicated below, you, as a non-operating working interest owner, agree to be covered by Operator's well control insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance acceptable to Operator, as to form and limits, at the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the certificate of insurance, as provided herein, will result in your being covered by insurance procured by Operator.

I elect to purchase my own well control insurance policy.

Marketing Election

Omarex sells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to market your share of gas with Gmarex, you will be subject to all of the terms of such contracts. Upon written request to Cmarex's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Climarex under the terms and conditions set forth above.

I elect to take my gas in kind.

l elect to market my gas with Cimarex pursuant to the terms and conditions of its contract.

Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorization for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

Company	Approved By (Print Name)	Approved By (Signature)	Date

share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement, 9/5/2019

CIMAREX Author	ization	For Eve	anditure	e - RIVEI	REND	12-13 55					
CIVIAREX COM 3		i oi cxpe	indicate	с I (I V Ц Ц		12-1311	DLIVAL			AFE	# 266
		Drilling		Drilling		np/Stim		on Equip	Post Co	mpietion	Te
Description Roads & Location	Codes DIDC.100	Amount		Amount		Amount		Amount	Codes	Amount	
Damages	DIDC,100	25,000		1	STIM.100	10,000	CON.105		PCOM.100	10,000	
Mud/Fluids Disposal	DIDC255	6,000		1	STIM 255	62,000		4,000	PCOM.255	252,000	
Day Rate	DIDC.115	618,000		104,000		02,000			6	432,000	
Misc Preparation	DIDC.120	35,000			197 - L						
Bits	DIDC.125	75,000		0	STIM.125	0			PCOM.125	0	
Fuel	DIDC.135	108,000		0	§	1	(10 A (PCOM.130	0	
Water for Drilling Rig (Not Frac Water) Mud & Additives	DIDC.140 DIDC.145	5,000		0	STIM.135	24,000			PCOM.135	0	
SWD PIPED TO XEC SWD WELL	0100,143	198,000	Ì	i	È	1			PCOM 254		
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SWD HAULED TO XEC SWD WELL	1			1	1				PCOM.258	0	
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Surface Rentals Downhole Rentals	DIDC.150	131,000	DICC.140	0		237,000		1,500	PCOM.140	45,000	
Flowback Labor	DIDC.155	177,000	i.	1	STIM.145	0			PCOM.145	0	
Automation Labor	1				STIM,141	0	CON.150	1	PCOM.141 PCOM.150	33,000	
Formation Evaluation (DST, Coring, etc.)	DEC.160	. 0		i i	STIM.150	0	4011.120	45,000	DCUM.150	0	
Mud Lagging	DIDC.170	27,000				0	- I				
Open Hole Logging	DIDC.180	0							8 S		
Cementing & Float Equipment	DIDC.185	145,000		63,000			N. 194		1 A A.S.		
Tubular Inspections	DEXC.190	50,000		5,000		4,000			PCOM.160	0	
Casing Crews Mechanical Labor	DIDC.195 DIDC.200	20,000		13,000	STIM.165	0					
Mechanical Labor Trucking/Transportation	DIDC.200 DIDC.205	20,000 25,000	DICC.170 DICC.175	10,000	STIM.170	0	CONL170 CONL175		PCOM.170 PCOM.175	0	
Supervision	DIDC210	115,000		16,000	STIM.1/5	4,000	CONL175		PCOM.175	0	
Trailer House/Camp/Catering	DIDC.280	49,000	DICC255	6,000	STIM.280	34,000		10.000		0	
Other Mise Expenses	DIDC.220	5,000	DICC.190	0	STIM, 190	155,000	CON.190	12.000	PCOM.190	0	
Overhead	DIDC225	10,000	DICC.195	5,000							
Remedial Cementing	DIDC231	0			STIM.215	٥			PCOM.215	0	
MOB/DEMOB Directional Drilling Services	DIDC.240 DIDC.245	50,000				1				A CONTRACT OF	
Solida Control	DIDC.243 DIDC.250	376,000					6 I				
Well Control Equip (Snubbing Services)	DIDC.265	99,000 99,000	DICC.240	5.000	STIM.240	109,000			PCOM.240	0	
Fishing & Sidetrack Services	0100270	35,000	DICC245	3,000		0.000			PCOM:245	a a	
Completion Rig					STIM.115	21,000	1		PCOM.115	o	
Call Tubing Services					STIM.260	368,000			PCOM.260	0	
Completion Logging/Perforating/Wireline	1				STIM.200	432,000			PCOM.200	0	
Composite Plugs				2	STIM.390	95,000			PCOM390	0	
Stimulation Pumping/Chemicals/Additives/Sand Stimulation Water/Water Transfer/Water Storage	. I	1			STIM.210	2,926,000			PCOM.210	Q	
Cimares: Owned Frac/Rental Equipment	1000	1			STIM.395 STIM.305	702,000 40,000	1		PCOM.305	E0.000	
Legal/Regulatory/Curative	DIDC300	10,000		1. N	2	40,000	CON 300	o	CUEMOUS	59,000	
Well Control insurance	DIDC.285	7,000	5					U			
Major Construction Overhead							CON.305	25,000			
Real Time Operations Center	DIDC.560	0			STIM.560	0				1	
FL/GL - Labor FL/GL - Supervision	1		2 Å 19	1.00			CON.500	153,500			
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SWD/Other - Labor	(I	1	8 ⁰ *	-	100		CON 600	4,000	f it as it	1.000	
SWD/OTHER - SUPERVISION							CON.605	0		İ	
Contingency	DIDC435	132,000	DICC220	12.000	STIM.220	265,000	CON 220		PCOM.220	0	
Cantingency						1	CON.221	30,000			
P&A Costs	DIDC.295	0	DICC.275	0						1	
Total intangible Cost		2,777,000		247,000	-	5,534,000		\$95,500		399,000	
Drive Pipe Conductor Pipe	DWEB.150	0		1						1	
Water String	DWE8.130	14,000						i.	i i	1	
Surface Casing	DWEB.140	67,000				1				1	
Intermediate Casing 1	DWEB.145	302,000		3		1					
Intermediate Casing 2	DWEB.155	0	1	25						ł	
Drilling Liner	DWEB,160	0			1.1.1	. 1					
Production Casing or Liner Production Tie-Back	9		DWEA100	163,000			1			1	
Tubing			DWEA.165	0	STIMT.101	75 000			PCONT.105	1	
Wellhead, Tree, Chokes	DWEB.115	20.000	DWEA.120	25.000	STIMT.105	75,000			PCOMT.105 PCOMT.120	10,000	
Liner Hanger, Isolation Packer	DWEB.100	20,000	DWEA125	98.000		90,000				10,000	
Packer, Nipples				- 4000	STIMT.400	28,000	1. A. 1.		PCONT.400	0	
Pumping Unit, Engine	1	100		1	STIMT.405	0			PCOMT.405	0	
Downhole Lift Equipment		415			STIMT.410	80,000	a 1		PCOMT.410	0;	
Surface Equipment			1	1					PCOMT.420	0]	
Well Automation Materials Total Tangible - Well Equipment Cos				707 40-		217.00			PCOMT,455	0	
N/C Lease Equipment	1.1	403,000		286,000		243,000	CONT.400	176 500		10,000	Part of the Black of Space (
Tanks, Tanks Steps, Stoirs							CONT.405	176,500		i.	
Battery Equipment			1	1	8 ⁶ 9		CONT.410	191,500		2	
Secondary Containments	1	- 1	5 N 20	1	and l		CONTA15	12,000			
Overhead Power Distribution				1		1	CONT.42D	25,000		1	
Facility Electrical				1			CONT.425	30,000	1 a 2	I	
Telecommunication Equipment		1 m)		1	CONT.426	0	1		
Meters and Metering Equipment						1	CONT.445	22,500	i i	1	
Fadility Line Pipe		1100		1		5	CONT.450	23,000	1	2	
Lease Automation Materials FL/GL - Materials		1	1			1	CONTASS	37,500		1	
FL/GL - Materials FL/GL - Line Pipe		1	i	1		-	CONT.550 CONT.555	63,500			
SWD/Other - Materials	1	-		1.1		· 1	CONT.555	52,500		-	
SWD/OTHER - LINE PIPE		1				í	CONT.655	0		1	

CHARLES THE AVE	horiza	tion For Frenced	ite une - 15	N/EDD					
CIMAREX AU	M 35H	ł			END 12-13 FEDEF	RAL		AFE # 2	662002
Description	Codes	BCP - Drilling	Amours	Codes		Amount	Codes	Comp/Stim	1 Amour
Roads & Location	DIDC.100		25,000			Allouid	STIM.100		10,00
Damages	DIDC.105		6,000			1	1		1
Mud/Fluids Disposal Day Rate	DIDC255		160,000			1	STIM 255		62,00
Visc Preparation	DIDC.115	23 days at \$26,000/day	618,000		4 days at \$26,000/day	104,000	1		
ks	DIDC.125		75.000	DKC.125		0	STIM.125		
fuel	DIDC.135	1,300 gal/day at \$3.00/gal	108,000	DICC.130		0			1 1
Vater for Drilling Rig (Nat Frac Water)	DIDC.140		5,000	DICC.135		0	STIM 135		24,00
Aud & Additives WD PIPED TO XEC SWD WELL	DIDC.145		198,000						
WO PIPED TO SED PARTY SWD WELL	1		1	1					
WO HAULED TO XEC SWD WELL	1			1					
WD HAULED TO 3RD PARTY SWD WELL	1			1					1
urface Rentals		Per Day (BCP)/day		DICC.140		0			237,000
iownhole Rentals Iowback Labor	DIDC.155		177,000	1		1 .	STBAL145		1 0
utomotion Labor	1			1		1	STDA.141		
ormation Evaluation (DST, Coring, etc.)	DIDC.160		0	1		1 100	STIM.150	2	1 .
tud Logging	DIDC.170	18 days at \$1,200/day	27,000			1 2			1
pen Hole Logging	DIDC.180		0			1	Ì	10000	1
ementing & Float Equipment Ibular Inspections	DIDC.185		145,000			63,000		1 Your 1 1	1
soing Crews	DIDC.190		50,000 20,000			5,000	STIM.160		4,000
lechanical Labor	DIDC.200			DICC.185		13,000	STIM.165 STIM.170	1	
ucking/Transportation	DIDC.205			DICC.175		8,000	STIM.175		4,000
upenvision	DIDC.210		115,000	DICC.180		16,000	STIM.180	1	94,000
railer House/Camp/Catering	DIDC.280		49,000			6,000	STIM.280		34,000
ther Misc Expenses werhead	DIDC.220		5,000			0	\$7IM.190		155,000
medial Cementing	DIDC.225		10,000	UNCINS		5,000	STIM 215		1 .
OB/DEMOB	DIDC240		50,000						į o
rectional Drilling Services	DIDC 245		376,000	i.		1			
olide Control Kell Control Equip (Snubbing Services)	DIDC.260		99,000						1
en control leguip (sinuationg services) Ihing & Sidetrack Services	DEDC.270		99,000 C	DICC.240 DICC.245		5,000	STIM.240 STIM.245		109,000
ampletion Rig				UNCLARS		0	STIM.245		0
all Tubing Services						[]	STIM.260	1	21,000
mpletion Logging/Perforating/Wireline							STIM.200		432,000
amposite Plugs Inviation							STIM.390		96,000
mulation Water/Water Transfer/Water						1	STIM.210 STIM.395		2,926,000
marex Owned Frac/Rental Equipment			1 1		i i		STIM.395		702,000
gal/Ragulatory/Curative	DIDC.300		10,000				3110303		40,000
ell Control Insurance	DIDC.285	\$0.35/1	7,000						1
ijor Construction Overhead									
al Time Operations Center /GL - Labor	DIDC.560		0				STIM.560		0
/GL - Supervision			1		1	1			
rvey			-						
vD/Other - Labor			1						
O/OTHER - SUPERVISION			1						
htingency htingency	DIDC.435	500 % of Ortiling Intangibles	132,000	DICC.220		12,000	STIM 220		266,000
A Costs	DIDC.295		0	DICC.275		0			
Yotal Intangible Cost			2.777.000:	DRCLATS	1	247,000			5,584,000
ve Pipe	DWE8.150	Ballander of a frank, the same start, they a Happen store of a party	0;	eller die siedere ofdete	ang tao ang taong tao I				5,304,000
nductor Pipe	OWEB,130		0			1			1
iter String	DWE8.135	0.5.00 - 2.6666 - 201.00	14,000						
rface Casing ermediate Casing 1		9 5/8" - 2,666h at \$25.00/h 7" - 9,930h at \$28.00/h	67,000]
ermediate Casing 2	DWEB 155	Survey of the Walk	302,000			1			
Eng Liner	DWEB.160		0		ing and	1			
duction Casing or Liner					4 1/2" - 12,550ft et \$13,00/ft	163,000			
duction Tie-Back ing			1	DWEA.165	2	0	STIMT.101	Constant and the second second	0
ang Ilhead, Tree, Chokes	DWEB.115		20.000	DWEA.120		36 444	STIMT.105	3-1/2" - 8.300ft at \$9.00/ft	75,000
er Hanger, isolation Packer	DWEB.100			DWEA 125		25,000	STIMT.120		60,000
ker. Nipples					in the same of the		STIMT.400		28,000
nping Unit. Engine							STIMT,405		20,000
whole Lift Equipment						e 1	STIMT.410		80,000
ace Equipment			1			1			
Total Tangible - Well Equipment Cost			403,000			286,000			243 000
Lazse Equipment	******	وي يعد الله الله الله الله الله الله الله الل	1	adart. Intertados.			····	هو ساورته و وها الفظار الواجو المانية العادية القاد والعاد وال	243,000
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ory Equipment					1				
ondary Containments			1						
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lity Line Pipe			1			- U-1			
a Automation Materials	- 1				and i face	1. Contraction (1. Contraction			
SL - Materials					t de la companya de l				, i i
5L - Line Pipe D/Other - Materials	1		1 1		and starts and	1		2 P	
D/OTHER - LINE PIPE		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1			
Total Tangible - Lotse Equipment Cost			1		1				
Total Estimated Cost									

L COM	254		BEND 12			AFE # 26	020
COM	Stated 23	Production Equip	ane ja		Post Completion		1.44
Description	Codes	Recorded the second second second second second second second second second second second second second second	Amoun	Codes	Post Completion	Amounti	Tet
Roads & Location	CONLICO		3,000		Road Repair	10,000	48
Damages Mud/Fluids Disposal	CON.105		4,000			-	10
Day Rate				PCOM.255	6,000 BWPD for 60 Days @ \$0.70/bbl	252,000	47-
Misc Preparation			1			1 1	72
Bits			1. 1. 1.	PCOM.125		0	31
Fuel	1 1			PCOM.130		0	108
Water for Drilling Rig (Not Frac Water)				PCOM.135		0	29
Mud & Additives SWD PIPED TO XEC SWD WELL	1 1		1	(eren all	personal sector and		198
SWD PIPED TO 3RD PARTY SWD WELL	2		1	PCON254		0	
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SWD HAULED TO BRD PARTY SWD WELL				PCOM 259		0	
Surface Rentals	CONL140		1,500	PCOM.140	\$1500/day for anticipated 30 days	45,000	414
Downhole Rentals				PCOM.145		0	177
Flowback Labor Automation Labor			1	PCOM.141	\$2200/day for anticipated 15 days	33,000	33
Formation Evaluation (DST, Coring, etc.)	CON.150		45,000	PCOM.150		0	45
Mud Logging			1.01				~
Open Hole Logging			1			1	27
Cementing & Ploat Equipment	1						208
Tubular Inspections	1			PCOM.160		0	59
Casing Crews			1	1		1	33
Mechanical Labor Trucking/Transportation	CON.170 CON.175		181.000			0	211
Supervision	CON.175		18,000			0	55
Trailer House/Camp/Catering			10,000	1 00 00 100		0	235
Other Misc Expanses	CONL190		12,000	PCOM.190		0	172
Overhead			1			1	15
Remedial Comenting			1	PCOM.215		0	
MOB/DEMOB Directional Drilling Services	1		4			ALC: N	50
Solids Cantral						1	376
Well Control Equip (Snubbing Services)	i i			PCOM.240		0	99 213
Fishing & Sidetrack Services				PCOM.245		0	213
Completion Rig				PCOM,115		0	21
Coll Tubing Services				PCOM.260		0	368
Completion Logging/Perforating/Wireline Composite Plugs				PCOM.200		0	432
Stimulation Pumping/Chemicals/Additives/Sand	1			PCOM.390 PCOM.210		0	96
Stimulation Water/Water Transfer/Water Storage				PLOMEIU		0	2,926
Cimarex Owned Frac/Rents Equipment				PCOM.305	XEC Owned Sand Separator	59.000	702
Legal/Regulatory/Curative	CON.300		0				10
Wall Control Insurance						4.82	7.
Major Construction Overhead Real Time Operations Center	CON.305		25.000			1.1	25.
FL/GL - Labor	CON.SOO		153,500				153,
FL/GL - Supervision	CON.505		22,000			1	22
Survey	CONSIS		4,000				4
SWD/Other - Labor	CON.600		0			1	
SWD/OTHER - SUPERVISION Contingency	CON.605 CON.220		0			-	
Contingency	CON 220		86,500 30,000	PCOM.220		0	496,
P&A Costs			30,000				30,
Total intangibie Cost			595,500			399,000	9,602
Drive Pipe		n ang a tao a tao ang a tao ang a tao ang a tao ang a tao ang ang ang ang ang ang ang ang ang ang	the of the selectory flat.		a server call and the server and the server of server at the server at the server of the		
Conductor Pipe	1					1	
Water String Surface Casing							14,
Surface Casing	. I						67,
Intermediate Casing 2	1		1 1				302,
Drilling Liner						1	
Production Casing or Liner			1			1	163.
Production Tie-Back	1.4		1			1	
Tubing Wellhead, Tree, Chokes				PCOMT.105		0	75,
Liner Hanger, Isolation Packer	5 - F [PLUMT.120	Hairpin from choke to flowline	10,000	115.
Packer, Nipples				PCONT.400		0	98, 28,
Pumping Unit, Engine			1	PCOMT.405		0	20,
Downhole Lift Equipment	·			PCONT.410		0	80,
Surface Equipment	÷ .			PCONT.420		0	1000
Well Automation Materials Total Tangible - Well Equipment Cos			himmen .	PCOMT.455		0	
Total Tangetze - Well Equipment Cos N/C Laase Equipment	CONT.400 !	ور در بین موان والعلوم بالی و این بالین از این بالین و این و	176,500	alta a success as an a	و من ال مراجع ما و ما و ما و ما و ما و ماور و هو و مورد و و و و مورد و مورد و مورد و و و مارد و و م	10,000	942
Tanks, Tanks Steps, Stairs	CONT.405		51,500				176.
Battery Equipment	CONT.410		191,500			1	191,
Secondary Containments	CONT.415		12,000				12,
Overhead Power Distribution	CONT.420		25,000				25,
Facility Electrical	CONT.425		30,000		a de la companya de la		30,
Telecommunication Equipment	CONTA25		0			1 5	
Meters and Metering Equipment Facility Line Pipe	CONT,445 CONT,450		22,500 23,000			1 1	22,
Lease Automation Materials	CONT.455		37,500				23, 37,
FUGL - Materials	CONT.550		63,500				57, 63,
FL/GL - Line Pipe	CONT.555		52,500				52,
SWD/Other - Materials	CONT.650		0			1 2	
SWD/OTHER - LINE PIPE Total Tangible - Lease Equipment Cos	CONT.655		0			i <u>t</u>	
			685,500				685,

Timeline of Communications with Tap Rock in regards to W/2 Riverbend Wells – Sections 12 & 13-25S-28E, Eddy County, NM

Post Receipt of Well Proposals:

12/20/2019 – Dana Arnold at Tap Rock reached out with the idea of a possible trade in lieu of Tap Rock participating in the proposed wells

1/7/2019 – Caitlin Pierce from Cimarex called and left a voicemail for Dana Arnold regarding the proposed trade of which XEC could not accept

1/23/2019 – Tap Rock reached out again, this time regarding their interest in the wells. Caitlin Pierce from Cimarex provided a working interest breakdown and snippets of the title opinion that pertained to Tap Rock's interest that same day. This information was provided to Taylor Hindes at Tap Rock who indicated that she would pass on to the landman over the specific area.



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

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO. 21021

AFFIDAVIT OF HARRISON HASTINGS

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Harrison Hastings, being duly sworn, deposes and states:

1. I am over the age of 18, I am a geologist for Cimarex Energy Co. ("Cimarex"), and have personal knowledge of the matters stated herein. I have been qualified by the Oil Conservation Division ("Division") as an expert in petroleum geology matters.

2. I conducted a geological study of the area that encompasses the horizontal spacing unit that is the subject of Cimarex's application in this case and am familiar with the geological matters involved in this case.

- 3. As part of my study, I have prepared the following geological exhibits with respect to the horizontal spacing unit that are attached hereto:
 - a. Exhibit C.1 is a Gunbarrel/Lateral Trajectory Diagram. This diagram identifies the Riverbend 12-13 development plan, which includes the Riverbend 12-13 Fed Com 29H, Riverbend 12-13 Fed Com 30H, Riverbend 12-13 Fed Com 31H, Riverbend 12-13 Fed Com 32H, Riverbend 12-13 Fed Com 33H, Riverbend 12-13 Fed Com 34H, and Riverbend 12-13 Fed Com 35H wells (hereinafter



"Proposed Wells") that are located within the Wolfcamp horizontal spacing unit that is the subject of this application.

- b. Exhibit C.2 is a Locator Map identifying the Riverbend 12-13 project area, in proximity to the Capitan Reef, for the Wolfcamp horizontal spacing unit that is the subject of this application.
- c. Exhibit C.3 is a Cross-Section Locator Map. This map identifies the cross-section running from A-A' with the cross-section well names and a blue dotted line in proximity to the Proposed Wells. It also identifies the sections in which the crosssection wells are located.
- d. **Exhibit C.4** is a Deep Structure Map on the top of the Wolfcamp formation. This map identifies each of the Proposed Wells with a red line. It also identifies the location of the cross-section running from A-A' with a blue dotted line. This map shows that the structure dips to the east.
- e. Exhibit C.5 is an Upper Wolfcamp Isopach Map. It shows that the formation is relatively uniform across the proposed unit. It also shows the location of cross-section A-A' in proximity to the Proposed Spacing Unit.
- f. Exhibit C.6 is a Stratigraphic Cross Section hung on the top of the Wolfcamp formation. The well logs on the cross-section give a representative sample of the Wolfcamp formation in the area. The target zones for the wells in this development are the Wolfcamp 'X' Sand, the Wolfcamp 'Y' Sand, and the Wolfcamp 'A' Shale, and those zones are consistent across the unit. The planned well-paths for the proposed wells are indicated by three blue dashed lines, and the letters 'LZ'.

g. Exhibit C.7 contains detailed views of the three Target Zones identified within the Stratigraphic Cross Section hung on the top of the Wolfcamp Formation. The target zones for the wells in this development are the Wolfcamp 'X' Sand, the Wolfcamp 'Y' Sand, and the Wolfcamp 'A' Shale; each are identified in bright red, and show that all three zones are consistent across the unit.

4. Based upon my study as illustrated in these exhibits, knowledge of the geology in this area, and education and training, it is my expert opinion that:

- a. The horizontal spacing unit is justified from a geologic standpoint.
- b. There are no structural impediments or faulting that will interfere with horizontal development.
- c. Each quarter section in the unit will contribute more or less equally to production.

5. The preferred well orientation in this area is either N-S. This is due to the fact that regional max horizontal stress orientation in this area is approximately N35E.

6. The producing interval for each of these wells will be orthodox and will comply with the Division's set back requirements.

7. I attest that the information provided herein is true, correct and complete to the best of my knowledge and belief.

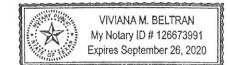
Harrison Hastings

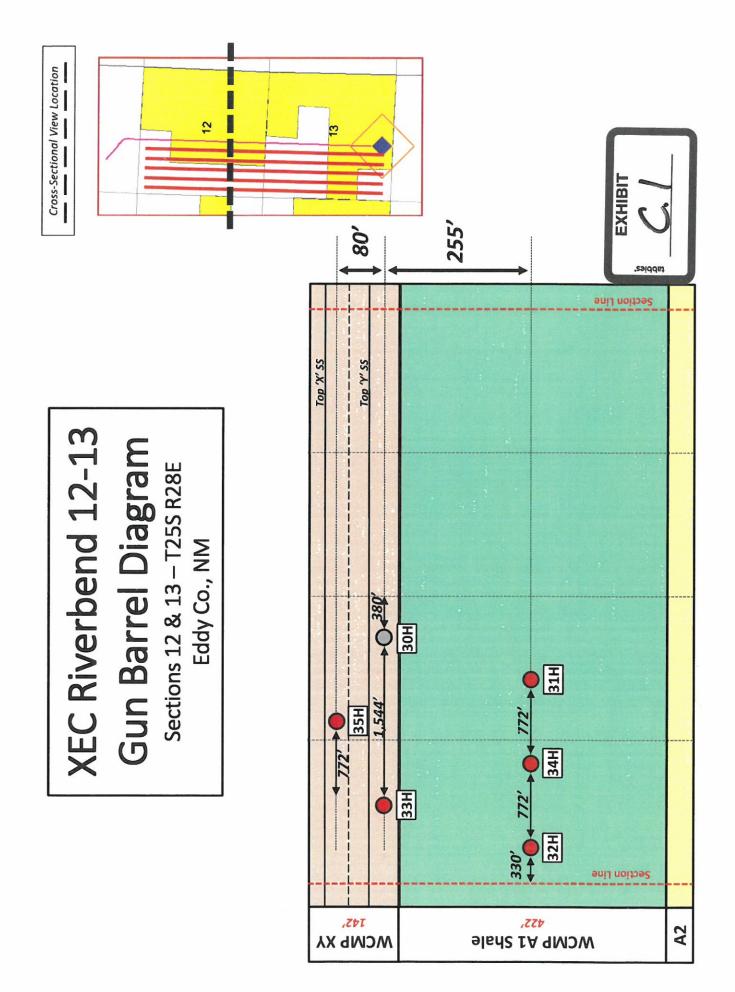
SUBSCRIBED AND SWORN to before me this 4^{++-} day of February 2020 by Harrison Hastings, on behalf of Cimarex Energy Co.

wana n Acthron

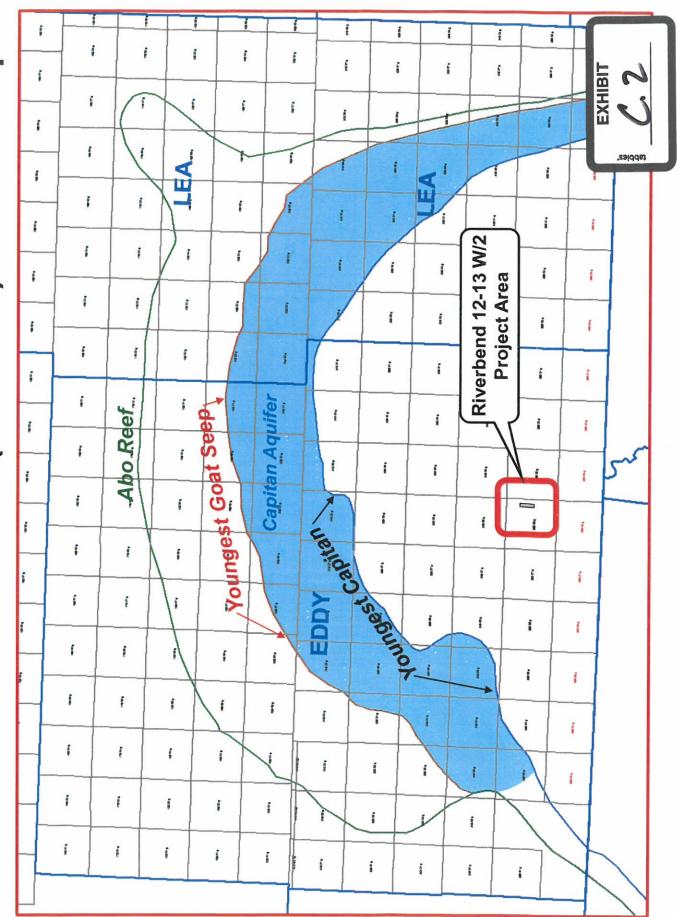
My commission expires: 09/20/2020

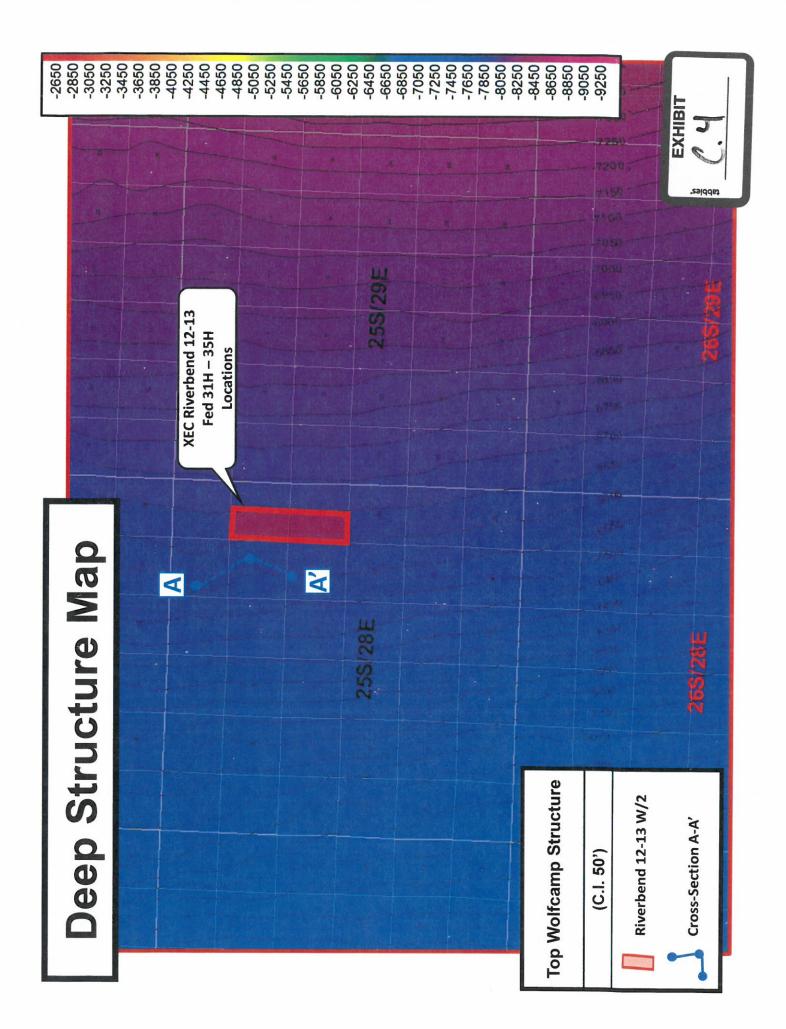
Notary Public

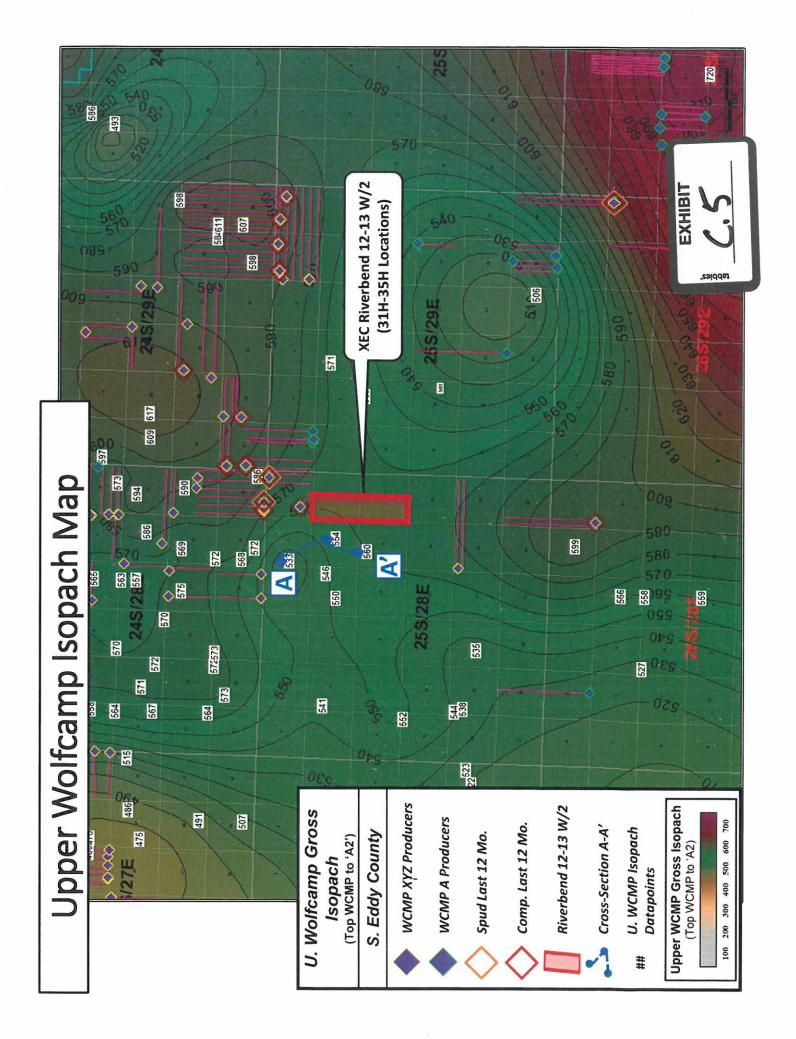


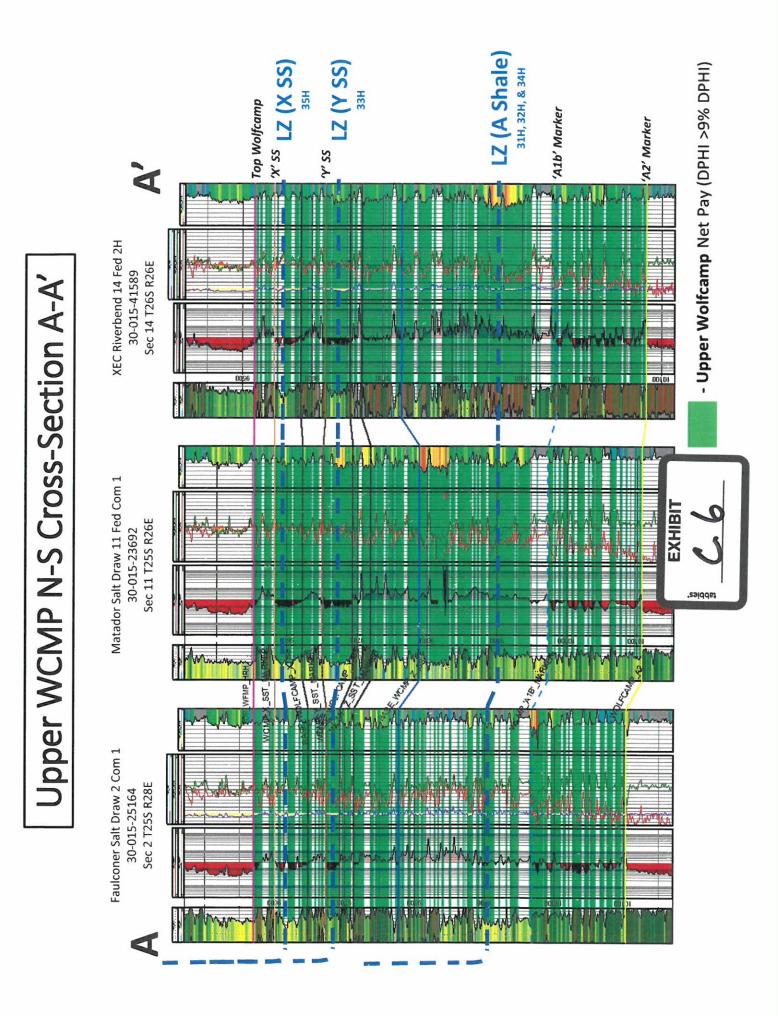


Riverbend 12-13 Fed W/2 (31H -35H) Locator Map

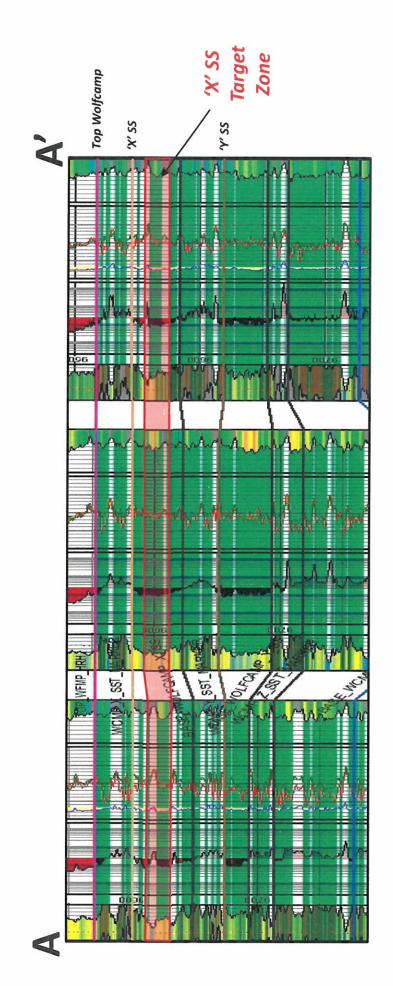








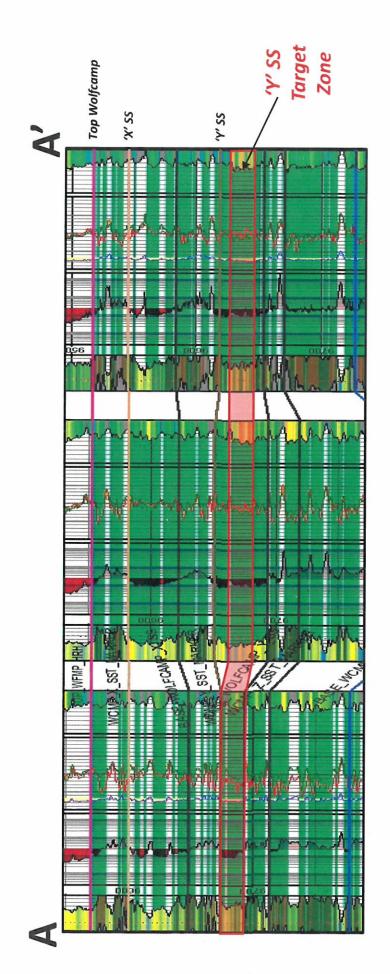






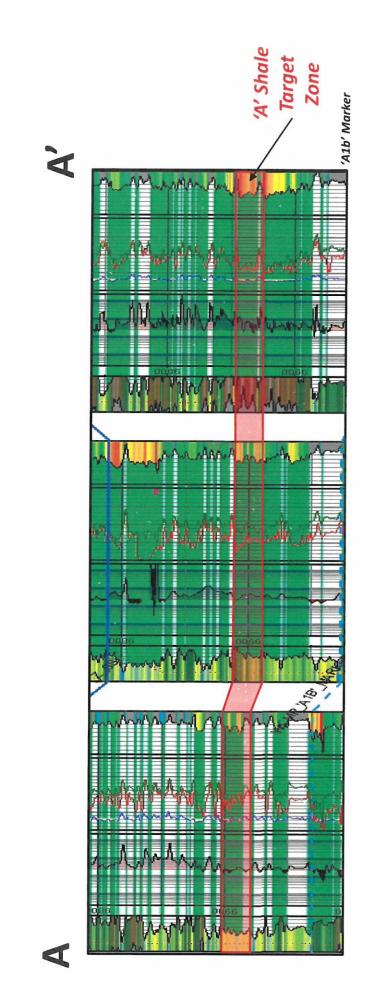
- Upper Wolfcamp Net Pay (DPHi >9% DPHI)













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

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY COUNTY, **NEW MEXICO**

CASE NO. 21021

AFFIDAVIT

STATE OF NEW MEXICO)ss. COUNTY OF BERNALILLO

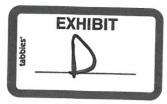
Lance D. Hough, attorney in fact and authorized representative of Cimarex Energy Co., the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications were provided under notices of hearing to parties entitled to notice; and that the following are attached hereto: a sample of said notice of hearing, a mailing list for notice of hearing, proof of mailed notice of hearing, and proof of published notice of hearing. As noted in the Affidavit of Caitlin Pierce, Cimarex Energy Co. has conducted a good faith, diligent effort to find the names and correct addresses for the interest owners entitled to receive notice of the application filed herein.

Lance D. Hough

SUBSCRIBED AND SWORN to before me this $5^{1/2}$ day of February 2020 by Lance D. Hough.



Notary Public My commission expires: 12-07-2023





January 16, 2020

Lance D. Hough Tel: 505.848.1826 Fax: 505.848.9710 Lance.Hough@modrall.com

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

TO: AFFECTED PARTIES

This letter is to advise you that Cimarex Energy Co. has filed the enclosed applications with the New Mexico Oil Conservation Division:

Case No. 21021: Application of Cimarex Energy Co. for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 640-acre. more or less, Wolfcamp horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Sections 12 and 13, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Riverbend 12-13 Fed Com 29H, Riverbend 12-13 Fed Com 30H, Riverbend 12-13 Fed Com 31H, Riverbend 12-13 Fed Com 32H, Riverbend 12-13 Fed Com 33H, Riverbend 12-13 Fed Com 34H, and Riverbend 12-13 Fed Com 35H wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 9.5 miles south of Loving, New Mexico.

These applications have been set for hearing before a Division Examiner at 8:15 a.m. on February 6, 2020. The hearing will be held in Porter Hall in the Oil Conservation Division's Santa Fe Office located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. As a party who may be affected by these applications, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the applications. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

EXHIBIT

Modrall Sperling Roehl Harris & Sisk P.A.

500 Fourth Street NW Suite 1000 Albuquerque, New Mexico 87102

PO Box 2168 Albuquerque, New Mexico 87103-2168

Tel: 505.848.1800 www.modrail.com AFFECTED PARTIES Cimarex / Riverbend 12-13 Fed Com 29H to 35H January 16, 2020 Page 2

You are further notified that if you desire to appear in these cases, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Sincerely,

Lance D. Hough Attorney for Applicant

EED/ldh/W3634823.DOCX Enclosures: as stated

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	9314 8699 0430 0067 7526 94	Bureau of Land Management General Land Office 301 Dinosaur Trail Santa Fe NM 87608		S1.15	\$3.55	S1.60	\$0.00
2	9314 8699 0430 0067 7527 00			\$1.15	\$3.55	S1.60	\$0.00
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4	9314 8699 0430 0067 7527 24			\$1.15	\$3.55	S1.60	\$0.00
S	9314 8699 0430 0067 7527 31	Morris E Schertz P.O. Box 2588 Roswell TX 88201	MEXICO.	\$1.15	S3.55	S1.60	\$0.00
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∞	9314 8699 0430 0067 7527 62	GHHunker, LLC P.O. Box 524 I ander WY 87570	12	S1.15	\$3.55	\$1.60	\$0.00
6	9314 8699 0430 0067 7527 79	Chisos Minerals. LLC 1111 Bagby St., Ste. 2150 Houston TX 77007		\$1.15	\$3.55	S1.60	\$0.00
10	9314 8699 0430 0067 7527 86			\$1.15	\$3.55	S1.60	\$0.00
Ξ	9314 8699 0430 0067 7527 93	MKHM Oil, LLC 3200 N. Tacona St. Arlineton VA 97913		\$1.15	S3.55	S1.60	\$0.00
12	9314 8699 0430 0067 7528 09	OGI, Inc 841 Hersch Avc. Pagosa Springs, CO 81147		\$1.15	\$3.55	S1.60	\$0.00
13	9314 8699 0430 0067 7528 16	Energy Properties, LP P.O. Box 51408 Casper WY 82605		\$1.15	S3.55	S1.60	S0.00
14	9314 8699 0430 0067 7579 72	DOE/ 1					



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16	9314 8699 0430 0067 7528 47	Robin K. Shackelford 108 Paradise Canyon Dr. Ruidoso NM 88345	\$1.15	\$3.55	\$1.60	\$0.00	82762.0192 Riverbend Notice
17	9314 8699 0430 0067 7528 54	The Willian N. Heiss Profit Sharing Plan Willian N. Heiss and Susan E. Ileiss. Co-Trustecs c/o Midhill P.O. Box 2680	S1.15	\$3.55	S1.60	S0.00	82762.0192 Riverbend Notice
18	9314 8699 0430 0067 7528 61	Butch-Trish Bif Company 223 W. Wall, Ste. 407 Midland TX 79701	\$1.15	\$3.55	\$1.60	S0.00	82762.0192 Riverbend Notice
19	9314 8699 0430 0067 7528 78	Matt Hinkle P.O. Box 2292 Roswell NM 88202	\$1.15	\$3.55	S1.60	S0.00	82762.0192 Riverbend Notice
20	9314 8699 0430 0067 7528 85	Rolla Hinkle, III P.O. Box 2292 Roswell NM 88202	\$1.15	S 3.55	\$1.60	\$0.00	82762.0192 Riverbend Notice
21	9314 8699 0430 0067 7528 92	3700	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
22	9314 8699 0430 0067 7529 08	Conoco Phillips Company 600 N. Dairy Ashford Rd. Houston TX 77079	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
23	9314 8699 0430 0067 7529 15	Centennial, a New Mexico Partnership	\$31.15	\$3.55	S1.60	S0.00	82762.0192 Riverbend Notice
24	9314 8699 0430 0067 7529 22	Hutchings Oil Company 3235 Calle De Deborah NW Albuquerque NM 87104	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
25	9314 8699 0430 0067 7529 39	Peter T. Balog, Trustee of the Balog Family Trust Karen J. Krohn, POA P.O. Box 111890 Anchorage AK 99511	\$1.15	\$3.55	\$1.60	\$0.00	82762.0192 Riverbend Notice
26	9314 8699 0430 0067 7529 46	Dan M. Leonard P.O. Box 3422 Midland TX 79702	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
27	9314 8699 0430 0067 7529 53	Dan M. Leonard, Trustee of 1 the DML Revocable Trus P.O. Box 3422 Midland TX 79702	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
28	9314 8699 0430 0067 7529 60	LML Propertics, LLC P.O. Box 3194 Boulder CO 80307	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
67	9314 8699 0430 0067 7529 77	Jack's Peak, LJ.C P.O. Box 294928 Kerrville TX 78029	\$1.15	S3.55	S1.60	\$0.00	82762.0192 Riverbend Notice

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PS Fo Type of Mailing: 01/1	Name, Street, City, State, Zip	Kevin K. Leonard, Trustec of the Kevin K. Leonard Child's Trust P.O. Box 50688 Midland TX 79710	Mark B. Murphy c/a Murphy Petroleum Corp P.O. Box 2545 Roswell NM 88202	Strata Production Company P.O. Box 1030 Roswell NM 88202	Valorie F. Walker, Trustee of the Jack V. Walker Revocable Trust 2341 Scarborough DR Anchorage AK 99504	Sharon Winn Scott 9626 Meadowland Dr. Houston TX 77063	Worrall Investment Corporation P.O. Box 1834 Roswell NM 88202	Mitchell Exploration Inc 6212 Homestead Blvd. P.O. Box 2415 Midland TX 79702	Permian Basin Investment Corporation c/o Bank of the Southwest P.O. Box 1638 Roswell NM 88202	Southwest Petroleum Land Services, LLC P.O. Box 702377 Dallas TX 75370	Realtimezone, Inc. 100 N. Pennsylvania Ave. Roswell NM 88203	Oak Valley Mineral & Land, LP P.O. Box 50820 Midland TX 79710	Stanley W. Light 3818 Turtle Creek Dr. Dallas TX 75219	Carlsbad National Bank Trust Department, Trustee Last Will and Testament of Bradley T. Light 2401 S. Canal Street Carlsbad NM 88270
ling NW NM 87102	USPS Article Number	9314 8699 0430 0067 7529 84	9314 8699 0430 0067 7529 91	9314 8699 0430 0067 7530 04	9314 8699 0430 0067 7530 11	9314 8699 0430 0067 7530 28	9314 8699 0430 0067 7530 35	9314 8699 0430 0067 7530 42	9314 8699 0430 0067 7530 59	9314 8699 0430 0067 7530 66	9314 8699 0430 0067 7530 73	9314 8699 0430 0067 7530 80	9314 8699 0430 0067 7530 97	9314 8699 0430 0067 7531 03
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Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fe	Service Fee RR Fee	Rest.Del.Fee	Reference Contents
58	9314 8699 0430 0067 7532 64	Ronadero Company Inc P.O. Box 746 Big Horn NY 82833	\$1.15	S3.55	\$1.60	\$0.00	82762.0192 Riverbend Notice
59	9314 8699 0430 0067 7532 71	Scaboard Oil Company P.O. Box 50180 Midland TX 79710	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
60	9314 8699 0430 0067 7532 88	Rowan Family Minerals LLC P.O. Box 107 Andrews TX 79714	S1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
61	9314 8699 0430 0067 7532 95	Cirrus Minerals, LLC P.O. Box 51746 LaFavette LA 70505	\$1.15	\$3.55	S1.60	\$0.00	82762.0192 Riverbend Notice
62	9314 8699 0430 0067 7533 01	PEP II Management, LLC 330 Marshalll St., Ste. 300 Shrevenort LA 71101	SINS WITH	\$3.55	\$1.60	\$0.00	82762.0192 Riverbend Notice
63	9314 8699 0430 0067 7533 18	BNSF Railway Company P.O. Box 676167 Dallas TX 75267	MAN 16 EDDIG	S3.55	S1.60	S0.00	82762.0192 Riverbend Notice
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Transaction Report Details - CertifiedPro.net Firm Mail Book ID= 182807 Generated: 2/4/2020 3:52:49 PM	Name 2								the Charles Getchel Wiley Trust												Last Will and Testament of Bradley T. Light					c/o Bank of the Southwest	DA12 HOMESIEAD BIVD.		the Jack V. Walker Revocable Trust		c/o Murphy Petroleum Corp	the Kevin K. Leonard Child's Trust			the DML Revocable Trus	Karee Krohe DOA								Willian N. Heiss and Susan E. Heiss, Co-Trustees						(
Transaction Report Details - Ce Firm Mail Book ID= 18 Generated: 2/4/2020 3:5	Date Greated Name 1 , Name 2	2020-01-16 1:50 PM BNSF Railway Company	2020-01-16 1:50 PM Citrus Minerals, LLC	2020-01-16 1:50 PM Rowan Family Minerals LLC	2020-01-16 1:50 PM Seaboard Oil Company	2020-01-16 1:50 PM Ronadero Company Inc		Pegasus Resources, LLC	Charles Getchel Wiley, Trustee of	2020-01-16 1-60 PM Remain Economics		2020-04-15 1-50 DAA MAANIE 5 SECTOR 50 MILLER C. Phillips	2020-01-16 1-60 DM Worms Ricest			2020-01-16 1:50 PM Joy Elizabeth Cooksey		2020-01-16 1:50 PM James Matthew Jenkins	2020-01-16 1:50 PM Benny May Jenkins	2020-01-16 1:50 PM OGX Royalty Fund, LP	Carlsbad National Bank Trust Department, Trustee	Stanley W. Light	2020-01-16 1:50 PM Oak Valley Mineral & Land, LP			Mitchall Evolution for Corporation C/0	poration	2020-01-16 1:50 PM Sharon Winn Scott	f the	Strata Production Company	c/o	d, Trustee of the	2020-01-16 1:50 PM Jack's Peak, LLC		2020-01-16 1-50 PM Dan M Leonard, if usine of the 2020-01-16 1-50 PM Dan M Leonard	rustee of the Balog Family Trust	Hutchings Oil Company	2020-01-16 1:50 PM Centennial, a New Mexico Partnership	2020-01-16 1:50 PM Conoco Phillips Company	2020-01-16 1:50 PM Magnum Hunter Production Inc	2020-01-16 1:50 PM Rolla Hinkle, III	2020-01-16 1-50 BM IN-14-F Hith Pitter	Dutch-Irish Oil Company	Dobio Michael N. meiss Pront Sharing Plan	2020-01-16 1:50 PM Samt Sharkellord	2020-01-16 1:50 PM ROECInc	2020-01-16 1:50 PM Energy Properties, LP		ric li li li li li li li li li li li li li		2020-01-16 1:50 PM Chisos Minerals, LLC			

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Carlsbad Current Argus.

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I. a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

January 22, 2020

Wallen Legal Clerk

Subscribed and sworn before me this January 22.

2020: State of Wr, County of Brown

My commission expires

CASE NO. 21021: Notice to all affected parties, as well as their heirs and devisees, of Veritas Permian Resources, LLC EOG Resources, LLC; Mewbourne Oil Company; Clayton Williams, Jr.; CWM 2000-B Ltd; CWM 2000-Bil, LTD; 3MG Corporation; Mewbourne Development Corporation; COG Acreage Fund LP; COG Operating LLC; Chevron USA Inc; CWPLCO,Inc; Empire Energy LLC; New State Gas LLC;WPX Energy Permian, LLC; Tap Rock Resources, LLC; Ronadero Company, Inc; Devon Energy Production Company, LP;BNSF Railway CompanyUnited States of America; Department of the Interior, Bureau of Land Management; Monty D McClane; Alan Jochimsen; States Royalty, LP; Morris E Schertz; Orion Oil & Gas Properties, LP; RoeE Inc; Sam L. Shackelford; Robin K. Shackelford; The Willian N. Heiss Profit Sharing Plan, Willian N. Heiss and Susan E. Helss, Co-Trustees; Dutch-Irish Oil Company; Matt Hinkle; Rolla Hin-kle, III; Curtis W Mewbourne, Trustee; Concoc Phillips Com-pany; Peter T. Balog, Trustee of the Balog Family Trust; Vermego Property Investment Company; Dan M. Leonard; Dan M. Leonard; Trustee of the DM. Revocable Trust: LM Company; Peter 1. Balog, Trustee of the Balog Family Trust; Vermego Property Investment Company; Dan M. Leonard; Dan M. Leonard, Trustee of the DML Revocable Trust; LML Properties, LLC;Jack'sPeak, LLC;Kevin K. Leonard, Trustee of the Kevin K. Leonard Child's Trust; Mark B. Murphy; Stra-ta Production Company; Valorie F. Walker, Trustee of the Jack V. Walker Revocable Trust; Sharon Winn Scott; Worrall Investment Corporation; Mitchell Exploration Inc. Permina-Jack V. Walker Revocable Trust; Sharon Winn Scott; Worrall Investment Corporation; Mitchell Exploration Inc; Permian; Basin Investment Corporation; Southwest Petroleum Land Services, LLC; Realtimezone, Inc.; Oak Valley Mineral & Land, LP; Stanley W. Light; Carlsbad National Bank Trust De-partment, Testamentary Trustee under the Last Will and Testament of Bradley T. Light; Curtis W. Mewbourne; OGX Royalty Fund, LP; Benny May Jenkins; James Matthew Jenkins; Leanne Jenkins Hacker; Joy Elizabeth Cooksey; James Monroe Cooksey, III; Douglas C Koch; Wayne Bissett; Andrew A Latham; Morris E. Schertz, et ux, Holly K Schertz; Larry G. Phillips et ux, Anne C. Phillips; Empire Energy LLC New State Gas LLC; Charles Getchel Wiley, Trustee of the Charles Getchel Wiley Trust; Pegasus Resources, LLC McMullun Minerals LLC; Ronadero Company Inc; Seaboard Oll Company; Rowan; Family Minerals LLC; Cirrus Minerals, LLC; PEP II Management, LLC; BNSF Railway Company of Cimarex Energy Co.; S Application for compulsory pooling, Oil Company; Rowan; Family Minerals, LLC; Cirrus Minerals, LLC; PEP II Management, LLC; BNSF Railway Company of Cimarex Energy Co.'s Application for compulsory pooling, Eddy County, New Mexico. The State of New Mexico through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on February 6, 2020 to consider this application. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 640-acre, more or less, Wolfcamp horizontal spacing unit; and, (2) pooling all un-committed mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Sections 12 and 13. Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Riverbend 12-13 Fed Com 31H, Riverbend 12-13 Fed Com 32H, Riverbend 12-13 Fed Com 33H, Riverbend 12-13 Fed Com 32H, Riverbend 12-13 Fed Com 35H wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 9.5 miles south of Loving, New Mexico. New Mexico.

January 22, 2020

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