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

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

CASE NO. 20305

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

CASE NO. 20306

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

CASE NO. 20307

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

CASE NO. 20308

Examiner Docket: June 20, 2019

CIMAREX'S EXHIBITS

Dos Equis 12-13 Fed Com 8H, 47H, 73H, and 86H



Earl E. DeBrine, Jr.
Lance D. Hough
MODRALL SPERLING
500 Fourth Street NW, Suite 1000
P. O. Box 2168 / Albuquerque, NM 87103
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STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

CIMAREX'S EXHIBITS

Dos Equis 12-13 Fed Com 8H, 47H, 73H, and 86H

Exhibit A	Affidavit of 0	Cody Elliot
	A-0 Locat	or Map
	A-1.8H	Application - Dos Equis 13 Fed Com 8H
	A-2.8H	C102
	A-3.8H	Tract Exhibit Pooling
	A-4	Well Proposal
	A-5.8H	AFE's
	A-1.47H	Application - Dos Equis 13 Fed Com 47H
	A-2.47H	C102
	A-3.47H	Tract Exhibit Pooling
	A-4.	Well Proposal
	A-5.47H	AFE's
	A-1.73H	Application - Dos Equis 13 Fed Com 73H
	A-2.73H	C102
	A-3.73H	Tract Exhibit Pooling
	A-4	Well Proposal
	A-5.73H	AFE's
	A-1.86H	Application - Dos Equis 13 Fed Com 86H
	A-2.86H	C102

Tract Exhibit Pooling

Well Proposal

AFE's

A-3.86H

A-5.86H

A-4

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Exhibit B Affidavit of Lauren Copley

B-1.8H-86H Structure Map - Dos Equis 13 Fed Com 8H, 47H, 73H, 86H

B-2.8H-86H Net Porosity Map

B-3.8H-86H Proposed Development Map

B-4.8H-86H Stratigraphic Cross-Section

B-5.8H-86H Avalon Development Diagram

B-0 Welbore Diagrams - Dos Equis 13 Fed Com 8H, 47H, 73H, 86H

Exhibit C Affidavit of Lance D. Hough

Certified Mail Log / Notice February 15, 2019 - Dos Equis 13 Fed Com 8H, 47H,

73H, 86H

Certified Mail Log / Report June 19, 2019

Affidavit of Publication February 21, 2019

Earl E. DeBrine, Jr.
Lance D. Hough
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STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

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CASE NO. 20308

AFFIDAVIT OF CODY ELLIOTT

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Cody Elliott, 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 and my credentials were accepted as a matter of record by the Division.
- 2. I am familiar with the applications filed by Cimarex in the above-referenced cases and the land matters involved in each case. 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. Each of these cases each involve 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 units described below, and in wells to be drilled in the horizontal spacing unit.
- 4. Prior to filing each application, Cimarex made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed well. I identified all of the working interest and overriding royalty interest owners from a title opinion. To locate owners, I conducted a diligent search of the public records in the county where the well is located and conducted phone directory and computer internet searches to locate contact information for parties entitled to notification, and mailed all working interest owners well proposals, including an Authorization for Expenditure and a form of Operating Agreement to any owner who requested one.
- 5. No opposition is expected. Prior to filing its applications Cimarex contacted the interest owners being pooled regarding the proposed wells; the pooled interest owners have failed or refused to voluntarily commit their interests in the wells. Cimarex provided all of the working interest owners and any unleased mineral owners and overriding royalty owners with notice of these applications, published notice of the hearing on the applications in a newspaper of general circulation in Lea County and none have entered an appearance in opposition to Cimarex' applications.
- 6. A locator map outlining all of the Wolfcamp horizontal spacing units being pooled that is the subject of these applications is attached to my Affidavit as **Exhibit A.0**.
- 7. Below is a description of the facts supporting each of the compulsory pooling applications in the above-referenced cases.

8. Case No. 20305

- a. In its Application, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 W/2 of Section 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Dos Equis 12-13 Federal Com 8H** well, to be horizontally drilled. The Application is attached hereto as **Exhibit A.1.8H**.
- b. Attached as **Exhibit A.2.8H** is the proposed C-102 for the well. The well will develop the WC-025 G-08 S243213C; Wolfcamp Pool (Code 98309), which is an oil pool.
- c. The producing interval for the wells will be orthodox and will comply with the Division's set back requirements as the first and last take points will be no close than 100' from the spacing unit boundary, and the completed lateral will be no closer than 330' from the spacing unit boundary.
- d. A lease tract map outlining the unit to be pooled is attached hereto as **Exhibit A.3.8H** The working interest owners being pooled and the percent of their interests is also included as part of this Exhibit. Cimarex own a working interest in the proposed unit and has a right to drill a well thereon.
- e. There are no depth severances within the proposed Wolfcamp spacing unit.
- f. **Exhibit A.4** is a sample well proposal letter sent to each of the interest owners seeking their voluntary participation in the well.
- g. **Exhibit A.5.8H** is the Authorization for Expenditure for the proposed well. The estimated cost of the well set forth therein of \$12,862,728 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.

9. Case No. 20306

- a. In its Application, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the E/2 W/2 of Section 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Dos Equis 12-13 Federal Com 47H** well, to be horizontally drilled. The Application is attached hereto as **Exhibit A.1.47H**.
- b. Attached as **Exhibit A.2.47H** is the proposed C-102 for the well. The well will develop the WC-025 G-08 S243213C; Wolfcamp Pool (Code 98309), which is an oil pool.

- c. The producing interval for the wells will be orthodox and will comply with the Division's set back requirements as the first and last take points will be no close than 100' from the spacing unit boundary, and the completed lateral will be no closer than 330' from the spacing unit boundary.
- d. A lease tract map outlining the unit to be pooled is attached hereto as **Exhibit A.3.47H** The working interest owners being pooled and the percent of their interests is also included as part of this Exhibit. Cimarex own a working interest in the proposed unit and has a right to drill a well thereon.
- e. There are no depth severances within the proposed Wolfcamp spacing unit.
- f. **Exhibit A.4** is a sample well proposal letter sent to each of the interest owners seeking their voluntary participation in the well.
- g. **Exhibit A.5.47H** is the Authorization for Expenditure for the proposed well. The estimated cost of the well set forth therein of \$12,862,728 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.

10. Case No. 20307

- a. In its Application, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 E/2 of Section 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Dos** Equis 12-13 Federal Com 73H well, to be horizontally drilled. The Application is attached hereto as Exhibit A.1.73H.
- b. Attached as **Exhibit A.2.73H** is the proposed C-102 for the well. The well will develop the WC-025 G-08 S243213C; Wolfcamp Pool (Code 98309), which is an oil pool.
- c. The producing interval for the wells will be orthodox and will comply with the Division's set back requirements as the first and last take points will be no close than 100' from the spacing unit boundary, and the completed lateral will be no closer than 330' from the spacing unit boundary.
- d. A lease tract map outlining the unit to be pooled is attached hereto as **Exhibit A.3.73H**. The working interest owners being pooled and the percent of their interests is also included as part of this Exhibit. Cimarex owns a working interest in the proposed unit and has a right to drill a well thereon.
- e. There are no depth severances within the proposed Wolfcamp spacing unit.

- f. **Exhibit A.4** is a sample well proposal letter sent to each of the interest owners seeking their voluntary participation in the well.
- g. **Exhibit A.5.73H** is the Authorization for Expenditure for the proposed well. The estimated cost of the well set forth therein of \$12,862,728 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.

11. Case No. 20308

- a. In its Application, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the E/2 E/2 of Section 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Dos Equis 12-13 Federal Com 86H** well, to be horizontally drilled. The Application is attached hereto as **Exhibit A.1.86H**.
- b. Attached as **Exhibit A.2.86H** is the proposed C-102 for the well. The well will develop the WC-025 G-08 S243213C; Wolfcamp Pool (Code 98309), which is an oil pool.
- c. The producing interval for the wells will be orthodox and will comply with the Division's set back requirements as the first and last take points will be no close than 100' from the spacing unit boundary, and the completed lateral will be no closer than 330' from the spacing unit boundary.
- d. A lease tract map outlining the unit to be pooled is attached hereto as **Exhibit A.3.86H**. The working interest owners being pooled and the percent of their interests is also included as part of this Exhibit. Cimarex owns a working interest in the proposed unit and has a right to drill a well thereon.
- e. There are no depth severances within the proposed Wolfcamp spacing unit.
- f. Exhibit A.4 is a sample well proposal letter sent to each of the interest owners seeking their voluntary participation in the well.
- g. **Exhibit A.5.86H** is the Authorization for Expenditure for the proposed well. The estimated cost of the well set forth therein of \$12,862,728 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.
- 12. Cimarex requests overhead and administrative rates of \$7,000/month during drilling and \$700/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.

- 13. Cimarex requests that it be allowed to recover its costs for drilling, completing and equipping each of these wells and a 200% risk charge be assessed against non-consenting pooled working interest owners.
 - 14. Cimarex requests that it be designated operator of the wells.
- 15. 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.
 - 16. The parties Cimarex is seeking to pool were notified of this hearing.
 - 17. Cimarex requests that overriding royalty interest owners be pooled.
- 18. Based upon my knowledge of the land matters involved in this case, my education, training and experience, it is my expert opinion that the granting of Cimarex's applications in these cases is in the interests of conservation and the prevention of waste.
- 19. The exhibits attached to my Affidavit were prepared by me or compiled from company business records.
- 20. I attest that the information provided herein is true, correct and complete to the best of my knowledge and belief.

Cody Elliott

SUBSCRIBED AND SWORN to before me this 19th/day of June 2019 by Cody Elliott.

KAIMI BROWNLEE
Notary Public, State of Texas
Comm. Expires 03-26-2023
Notary ID 126052368

Notary Public

My commission expires: 3 24

W3447508.DOCX

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

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, LEA 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 Wolfcamp horizontal spacing unit underlying the W/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

- 1. Cimarex is an interest owner in the subject lands and has a right to drill wells thereon.
- 2. Cimarex seeks to dedicate the W/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico to form a 320-acre, more or less, spacing unit.
- 3. Cimarex plans to drill the **Dos Equis 12-13 Federal Com 8H** well to a depth sufficient to test the Wolfcamp formation. The Dos Equis 12-13 Com 8H well is a horizontal well with a surface location 330' FNL and 350' FWL of Section 12 Township 24 South, Range 32 East, Lea County, and the intended bottom hole location is 100' FSL and 330' FWL of Section 13, Township 24 South, Range 32 East, Lea County.
- 4. This well will be located within the Wildcat Wolfcamp pool and will comply with the Division's setback requirements.



- 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 well or to otherwise commit their interests to the well.
- 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.

WHEREFORE, this case is set for hearing before an Examiner of the Oil Conservation Division on March 7, 2019, Cimarex requests that, after notice and hearing as required by law, the Division enter its order:

- A. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the W/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico;
- B. Designating Cimarex as operator of this unit and the well to be drilled thereon;
- C. Authorizing Cimarex to recover its costs of drilling, equipping and completing this well;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;
- E. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted this 25th day of January, 2019.

MODRALL, SPERLING, ROEHL, HARRIS

& SISK, P.A.

By:_

Earl/E. DeBrine

Zoe E. Lees

Pøst Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 edebrine@modrall.com

zel@modrall.com

Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the Dos Equis 12-13 Federal Com 8H well, to be horizontally drilled. The producing area for this well will be orthodox. Also to be considered will be the cost of drilling and completing said well, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 26 miles southwest of Hobbs, New Mexico.

District I
1623 N. French Dr., Hobbs, NM 88240
Phone: (573) 993-6161 Fax: (575) 393-0720
District II
811 S. First St. Artesia, NM 88210
Phone: (573) 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) 476-3460

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025	¹ Pool Code	Pool Code Pool Name Wildcat Wolfcamp		
4 Property Code		roperty Name 12-13 FEDERAL COM	6 Well Number 8H	
70GRID No. 215099	*Operator Name CIMAREX ENERGY CO.		* Elevation 3607.5'	

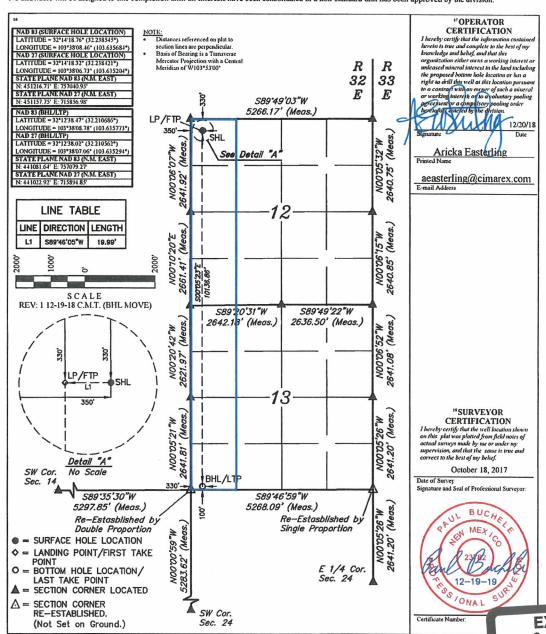
"Surface Location

D D	12	24S	32E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 350	East/West line WEST	County LEA

"Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	24S	32E		100	SOUTH	330	WEST	LEA
12 Dedicated Acre 320	ts n 1	loint or Infill	14 Conse	didation Code	15 Order No.				

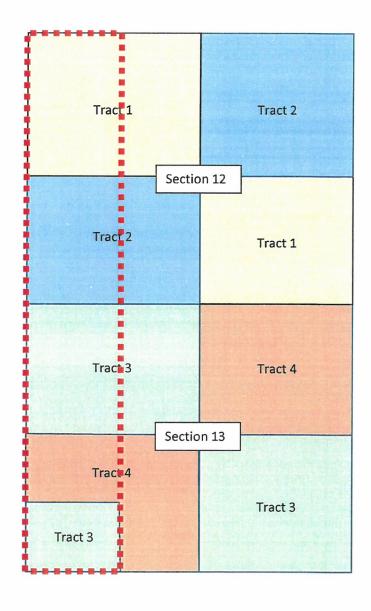
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Dos Equis 12-13 Fed Com 8H

W/2 W/2 of Sections 12 & 13-24S-32E, Lea County, NM

Owner	Tract	Net	Working Interest Percentage	Force Pool Interest
МНРІ	1	40	12.50%	no-participating
Chevron U.S.A. Inc.	1	40	12.50%	no-participating
Cimarex	2	70	21.88%	no-operator
COPC	2	10	3.13%	Yes
Devon	3	120	37.50%	Yes
Cimarex	4	40	12.50%	no-operator







December 19, 2018

Devon Energy Production Co., LP 333 W. Sheridan Ave Oklahoma City, OK 73102

Re:

Proposal to Drill

Dos Equis 12-13 Fed Com Wells

Sections 12 & 13, Township 24 South, Range 32 East

Lea County, NM

Dear Working Interest Owner,

Cimarex Energy Co. hereby proposes to drill the Dos Equis 12-13 Fed Com 1H, 8H, 3H, 47H, 5H, 73H, 6H & 86H wells at a legal location in Section 12, Township 24 South, Range 32 East, NMPM, Lea Co., NM.

<u>Dos Equis 12-13 Fed Com 1H</u> - The intended surface hole location for the well is 330' FNL and 370' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 8H</u> - The intended surface hole location for the well is 330' FNL and 350' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 13, Township 24'South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 3H</u> - The intended surface hole location for the well is 255' FNL and 1,620' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FWL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 47H</u> - The intended surface hole location for the well is 255' FNL and 1,600' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FWL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 5H</u> - The intended surface hole location for the well is 360' FNL and 2,330' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.



<u>Dos Equis 12-13 Fed Com 73H</u> - The intended surface hole location for the well is 360' FNL and 2,310' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 6H</u> - The intended surface hole location for the well is 360' FNL and 1,410' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 86H</u> - The intended surface hole location for the well is 360' FNL and 1,390' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

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 AFE reflecting estimated costs associated with this proposal, and; (ii) our proposed form of Operating Agreement to govern operations of the Dos Equis 12-13 Fed Com 1H well. If you intend to participate, please approve and return one (1) original of the enclosed AFE, one (1) original of the signature page to the Operating Agreement, along with the contact information to receive your well data, to the undersigned within thirty (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.

In the event you would prefer to lease your interest in lieu of participating in the proposed operation(s), we would be happy to make you a competitive offer to lease.

Please call the undersigned with any questions or comments.

Respectfully,

Cody Elliott 432.571.7806

ELECTION TO PARTICIPATE Dos Equis 12-13 Fed Com 1H

Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 1H
Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 1H
Dated this , 2018.
Signature:
Title:
If your election above is TO participate in the proposed Dos Equis 12-13 Fed Com 1H well, then:
Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 3H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 3H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 3H
Dated this day or	f, 2018.
Signature:	
Γitle:	
f your election above	is TO participate in the proposed Dos Equis 12-13 Fed Com 3H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 5H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 5H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 5H
Dated this day o	f, 2018.
Signature:	
Title:	
If your election above	is TO participate in the proposed Dos Equis 12-13 Fed Com 5H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 6H

grand de Production de la constante de la cons	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 6H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 6H
Dated this day of	, 2018.
Signature:	
Title:	
If your election above is	s TO participate in the proposed Dos Equis 12-13 Fed Com 6H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
<u>-</u>	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 8H

-	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 8H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 8H
Dated this day of	, 2018.
Signature:	
Title:	
f your election above is	TO participate in the proposed Dos Equis 12-13 Fed Com 8H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 47H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 47H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 47H
Dated this day of	, 2018.
Signature:	
Title:	
If your election above is	TO participate in the proposed Dos Equis 12-13 Fed Com 47H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 73H

***************************************	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 73H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 73H
Dated this day or	f, 2018.
Signature:	
Title:	
If your election above i	is TO participate in the proposed Dos Equis 12-13 Fed Com 73H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 86H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 86H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 86H
Dated this day of	f, 2018.
Signature:	
Title:	
If your election above i	s TO participate in the proposed Dos Equis 12-13 Fed Com 86H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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.



Authorization For Expenditure

			1				Data Brass	rod		
Company Entity Cimarex Energy Co							Date Prepa		r 18, 2018	
	VI-1121		Description Field	Name	Despostu	lumbor		Drilling	AFF No.	
Region	Well Name		Prospect or Field	Name	Property N	munei		Drining	AFE NO.	
PERMIAN Dos 8	Equis 12-13 Fed Com 8	вп								
Location			County		Stat	e		Туре	Well	
W/2 W/2 of Sections 12 and 13	3-T245-R32E		Lea		NM	NM Oil Gas		X	Expl Prod	x
			2				Gus		FIU	
Estimate Type		E	st.Start Date	E	st. Comp Date		Form	ation		ured Depth
Original Estimate Revised Estimate	×						WOLFC	AMP A		Ical Depth
Supplemental Estimate									12	,300'
Project Description		A11 (A16)	400 May 200 M							
Drill and complete a horizontal test. Drill to 1200', set water string casing. Drill to 11774' (KOP). Drill curve at 12*/100' initial build rate to +/- 75 degrees and set casing at +/- 12399' MD. Finish curve at +/- 3*/100' to +/- 12300' TVD and drill a +/- 9050' long lateral in the Wolfcamp formation. Run and cement production liner. Stage frac.Drill out plugs. Run production packer, tubing and GLVs.										
Intangibles			Dry Hole Co	st	After	Casing Po	oint	Com	pleted We	eli Cost
Drilling Costs			\$3,508,000)					\$3,508,00	
Completion Costs Total Intangible Costs			\$3,508,000	<i>(((((((((((((((((((((((((((((((((((((</i>		7,319,199 7,319,199			\$7,319,19 \$10,827,1 9	
					<u> </u>	,,,				
Tangibles Well Equipment			\$451,000			\$786,000			\$1,237,00	10
Lease Equipment						\$798,529			\$798,529	
Total Tangible Well Cost			\$451,000		\$	1,584,529			\$2,035,52	.9
Plug and Abandon Cost			\$0			\$0			\$0	
Total Well Cost			\$3,959,000)	\$	8,903,728			\$12,862,7	28
Comments on Well Costs										
1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.										
	quipment is priced by	COPAS and	CEPS guidelines using	the Historic	Price Multipli	er.				
	quipment is priced by	COPAS and	CEPS guidelines using	the Historic	Price Multipli	er.				
Well Control Insurance Unless otherwise indicated beling as Operator conducts oper you must provide a certificate of commencement of drilling oper procured by Operator.	low, you, as a non-operations hereunder and of such insurance accurations. You agree the any own well control in the by Operator, provided by Operator, pr	erating wor d to pay you eptable to G at failure to nsurance po	king interest owner, ag ur prorated share of th Operator, as to form an o provide the certificate olicy. other terms, for \$20,00	ree to be co e premiums id limits, at i e of insurani	overed by Ope therefore. If the time this A ce, as provide % W.I.) of Con	erator's we you elect AFE is retu d herein, v	to purchase rned, if avai will result in gle Limit co	your own i lable, but ir your being	well contro no event covered b	ol insurance, later than ly insurance
Well Control insurance Unless otherwise indicated bel long as Operator conducts ope you must provide a certificate of commencement of drilling ope procured by Operator. I elect to purchase m Well Control insurance procure related redrilling and clean-up/	low, you, as a non-operations hereunder and of such insurance accurations. You agree the any own well control in the by Operator, provided by Operator, pr	erating wor d to pay you eptable to G at failure to nsurance po	king interest owner, ag ur prorated share of th Operator, as to form an o provide the certificate olicy. other terms, for \$20,00	ree to be co e premiums id limits, at i e of insurani	overed by Ope therefore. If the time this A ce, as provide % W.I.) of Con	erator's we you elect AFE is retu d herein, v	to purchase rned, if avai will result in gle Limit co	your own i lable, but ir your being	well contro no event covered b	ol insurance, later than ly insurance
Well Control Insurance Unless otherwise indicated beling as Operator conducts operyou must provide a certificate of commencement of drilling operocured by Operator. I elect to purchase m Well control insurance procure related redrilling and clean-up/ Cimarex sells its gas under arm volumes delivered over time. Sequest to Cimarex's Marketing shall be deemed an election to	low, you, as a non-ope rations hereunder and of such insurance accorations. You agree the control in the dot of your well control in the dot of your well control in the dot of you will be the control in the dot of you will be the your well as the will be the your gas with a sin kind.	erating wor d to pay you eptable to (at failure to nsurance po des, among evering drilli th third par market you is hare with	rking interest owner, ag ur prorated share of th Operator, as to form an o provide the certificate oblicy, other terms, for \$20,00 ing (through completion rty purchasers. Such cour share of gas with Clim you the terms and cor	pree to be co e premiums id limits, at it e of insurani 20,000 (100) n) with a S1 pontracts may harex, you widitions pure	wered by Ope therefore. If the time this A ce, as provide % W.I.) of Con ,000,000 (100 y include fees. vill be subject suant to which forth above.	erator's we you elect AFE is retuind herein, we ablined Sin W.I.) de	to purchase rned, if avai will result in gle Limit co ductible.	e your own vilable, but in your being verage for viscondarias may be in such contrain	well control on o event covered b well control curred for cts. Upon	ol insurance, later than ly insurance ol and insufficient written
Well Control insurance Unless otherwise indicated beling as Operator conducts oper you must provide a certificate of commencement of drilling oper procured by Operator. I elect to purchase me Well control insurance procure related redrilling and clean-up/ Marketing Election Cimarex sells its gas under arm yolumes delivered over time. Serequest to Cimarex's Marketing shall be deemed an election to I elect to take my gas	low, you, as a non-ope rations hereunder and of such insurance accorations. You agree the control in the dot of your well control in the dot of your well control in the dot of you will be the control in the dot of you will be the your well as the will be the your gas with a sin kind.	erating wor d to pay you eptable to (at failure to nsurance po des, among evering drilli th third par market you is hare with	king interest owner, ag ur prorated share of th Operator, as to form an o provide the certificate olicy, other terms, for \$20,00 ing (through completion rty purchasers. Such cour share of gas with Clim is you the terms and conder the terms	pree to be co e premiums id limits, at it e of insurani 20,000 (100) n) with a S1 pontracts may harex, you widitions pure	wered by Ope therefore. If the time this A ce, as provide % W.I.) of Con ,000,000 (100 y include fees. vill be subject suant to which forth above.	erator's we you elect AFE is retuind herein, we ablined Sin W.I.) de	to purchase rned, if avai will result in gle Limit co ductible.	e your own vilable, but in your being verage for viscondarias may be in such contrain	well control on o event covered b well control curred for cts. Upon	ol insurance, later than ly insurance ol and insufficient written
Well Control Insurance Unless otherwise indicated beling as Operator conducts operyou must provide a certificate of commencement of drilling operocured by Operator. I elect to purchase m Well control insurance procure related redrilling and clean-up/ Cimarex sells its gas under arm volumes delivered over time. Sequest to Cimarex's Marketing shall be deemed an election to	low, you, as a non-operations hereunder and of such insurance accurations. You agree the control in the day operator, provide /pollution expense control in the control in	erating wor d to pay you eptable to to at failure to assurance po des, among vering drilli th third par market you s hare with c Cimarex un ouble free e herein gran	rking interest owner, ag ur prorated share of th Operator, as to form an o provide the certificate oblicy. other terms, for \$20,00 ing (through completion rty purchasers. Such cour share of gas with Cirr o you the terms and cor onder the terms and cor onder the terms and cor one terms and condition operations without any sted. By approval of thi	ontracts may not so of its contracts of	overed by Ope therefore. If the time this A ce, as provide % W.I.) of Con ,000,000 (100 y include fees. will be subject suant to which forth above.	erator's we you elect AFE is retuined herein, which will be a second or the second of the head of the head will be a second or the second or t	to purchase rned, if avai will result in gle Limit co ductible. on, penaltie se terms of s se sold. Fail	e your own lable, but in your being werage for verse for verse for verse for were to make the contracture the contract	well control on to event covered b well control curred for cts. Upon e an election d the estim	ol insurance, later than ny insurance ol and insufficient written on below
Well Control Insurance Unless otherwise indicated beling as Operator conducts opeyou must provide a certificate of commencement of drilling ope procured by Operator. I elect to purchase m Well control insurance procure related redrilling and clean-up/ Cimarex sells its gas under arm volumes delivered over time. Sequest to Cimarex's Marketing shall be deemed an election to I elect to take my gas a lelect to market my Comments on AFE The above costs are estimates of without affecting the authoriza	low, you, as a non-operations hereunder and of such insurance accurations. You agree the control in the day operator, provide /pollution expense control in the control in	erating wor d to pay you eptable to to at failure to assurance po des, among vering drilli th third par market you s hare with c Cimarex un ouble free e herein gran	rking interest owner, ag ur prorated share of th Operator, as to form an o provide the certificate oblicy. other terms, for \$20,00 ing (through completion rty purchasers. Such cour share of gas with Cirr o you the terms and cor onder the terms and cor onder the terms and cor one terms and condition operations without any sted. By approval of thi	pree to be co e premiums d limits, at re e of insurani 20,000 (1009) n) with a \$1 portracts may harex, you we diltions pur- sed its cont	overed by Ope therefore. If the time this A ce, as provide % W.I.) of Con ,000,000 (100 y include fees. vill be subject suant to which forth above.	erator's we you elect AFE is retuined herein, which will be a second or the second of the head of the head will be a second or the second or t	to purchase rned, if avai will result in gle Limit co ductible. on, penaltie se terms of s se sold. Fail	e your own lable, but in your being werage for verse for verse for verse for were to make the contracture the contract	well control on to event covered b well control curred for cts. Upon e an election d the estim	ol insurance, later than ny insurance ol and insufficient written on below
Well Control Insurance Unless otherwise indicated beling as Operator conducts opeyou must provide a certificate of commencement of drilling ope procured by Operator. I elect to purchase m Well control insurance procure related redrilling and clean-up/ Cimarex sells its gas under arm volumes delivered over time. Sequest to Cimarex's Marketing shall be deemed an election to I elect to take my gas a lelect to market my Comments on AFE The above costs are estimates of without affecting the authoriza	low, you, as a non-ope rations hereunder and of such insurance accurations. You agree the ny own well control in the doy operator, provide /pollution expense co 's-length contracts with Should you choose to generate the your gas with market your gas with s in kind. gas with Cimarex pure only and anticipate the title of or expenditure I well costs under term	erating wor d to pay you eptable to (at failure to the surrance podes, among overing drilling the third par market you is share with a Cimarex unit of the surrance podes, among the third par market you is share with a Cimarex unit of the surrance podes, among the surrance podes, among the surrance podes, and the surrance podes, and the surrance podes are surrance podes.	rking interest owner, ag ur prorated share of the Operator, as to form an oprovide the certificate oblicy. other terms, for \$20,00 ing (through completion of the certificate of gas with Cimple of gas with Cimple of gas with Cimple of the terms and condition of the terms and condition operations without any sted. By approval of this toperating agreement,	pree to be co e premiums d limits, at re e of insurani 20,000 (1009) n) with a \$1 portracts may harex, you we diltions pur- sed its cont	overed by Ope therefore. If the time this A ce, as provide % W.I.) of Con ,000,000 (100 y include fees. vill be subject suant to which forth above. ract. e change in pl yorking intere order or othe.	erator's we you elect AFE is retuined herein, which will be a second or the second of the head of the head will be a second or the second or t	to purchase rned, if avai will result in gle Limit co ductible. on, penaltie e terms of s be sold. Fail actual costs grees to pa le agreemer	e your own lable, but in your being werage for verse for verse for verse for were to make the contracture the contract	well control on to event covered b well control curred for cts. Upon e an election d the estim	ol insurance, later than ny insurance ol and insufficient written on below

Joint Interest Approval





Well Name: Dos Equis 12-13 Fed Com 8H													
		F 22 C ST	SEE SEE	ALC: N	BCP - Drilling	10000	ACP - Drilling	Complete	n/	Production Equipment /	10000	Post	Total Well
					(Dry Hole Cost)			Stimulati	on	Equipment/	DEC.	Completion	Cost
intangibles				DIDC 100	\$100,000	min	SIIIIIIII C	M.100 \$3	CON 100	Construction	PCOM 100	\$40,000	\$162,87
Roads & Location Preparation / Restoration				DIDC.100	\$10,000	9444					1111111	minin.	\$18,85
Damages				DIDC.255	\$160,000	HHH		1.255 \$53	000 /////	minim	PCOM.255	5255,500	\$468.50
Mud / Fluids Disposal Charges Day Rate 29.00 DH Days 4.00 ACP D	N 0	\$25,000	Lear Day	DIDC.255	5750,000			mmin		HHHHH	011111	IIIIIIII	\$850,00
Day Rate 29.00 DH Days 4.00 ACP D Misc Preparation Cost (mouse hole, rat hole, pads, pile cle		323,000	(1 C7 100)	DIDC.120	\$50,000	111111		######	<i>######</i>				\$50,00
Bits	usters, misc.y			DIDC.125		DICC.125	50 518		50		PCOM.125	50	\$150,00
Fuel \$3.00 Per Gallan	1 150	Gallans Per D	lav	DIDC.135		DICC.130	50				PCOM.130	50	\$117,00
Water for Drilling Rig / Completion Fluids (Not Frac Water				DIDC.140	\$5,000		SD STIR	M.135 524	000		PCOM.135	50	\$29,00
Mud & Additives	-			DIDC.145		///////							\$350,00
Surface Rentals	\$3 000	Per Day (BCP))	DIDC.150	\$117,000	DICC.140	SO STO		000 CON.140	\$1,900	PCOM.140		\$477,90
Downhole Rentals				DIDC.155	\$178,000		3/////// STB	M.145	50		PCOM.145	50	\$178,00
Formation Evaluation (CST, Coring including evaluation, C	G&G Services)			DIDC.160	50		518	M.150	50////		1444		5
Mud Logging 21	5.75 Days @	\$1,200	Per Day	DIDC.170	\$36,000					24444444	44444		\$36,00
Open Hale Lagging				DIDC.180	50			///////////////////////////////////////	////////		44444		
Cementing & Float Equipment				\$10C.185		DICC.155	\$100,000			<i>;;;;;;;;;;</i> ;;;			\$290,00
Tubular Inspections				DIDC.190	\$50,000		\$8,000 578		000	4//////////////////////////////////////	PCOM.160		\$62,00
Casing Crews				DIDC.195	\$22,000			M.165	50				\$37,00
Extra Labor, Welding, Etc.				DIDC.200	\$20,000	DICC 170		M.170	\$0 CON.170		PCOM.170		\$267,17
Land Transporation (Trucking for tongibles)				DIDC.205	\$30,000	DICC.175			000 CON.175		PCOM.175	\$4,000 \$0	\$59,12
Supervision	\$4,000		Per Day	DIDC.210	\$140,000				000 CON.180		PCOM.180		\$237,62
Trailer House / Camp / Catering	51,000.00	Perl)ay	DIDC.280	539,000	DICC.255		M.280 537					\$80,00
Other Misc Expenses				DIDC.220	\$5,000		-	M.190 5100	000 CON 190	37,500	PCOM.190	\$0	
Overhead				DIDC.225	\$5,000	DICC.195				XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	PCOM 215	50	\$10,00
Remedial Cementing				DIDC.231	50	41111	HHHHA STO	M.215	50/////	************	PCOM.715	30	\$150,00
MOB/DEMOB				DIDC 240	\$150,000	111111	************	444444	///////	*********	44141		\$434,00
Directional Drilling Services				DIDC.245	\$434,000	111111		######	CONTRA		<i>\\\\\\</i>		\$434,00
Crane for Construction			-			<i>4444</i>	<i>}}}}}}</i>	444444	Himin	minimum in the same of the sam	YHHH		
Solids Control				DIDC.260	\$99,000	11111		M.240 \$161	000 111111	9444444	PCDM 240	So	\$99,00 \$277,00
Well Control Equip (Snubbing Svcs.)				DIDC.265	\$116,000			M.240 \$161	50	<i>}}}}}</i>	PCOM.245	\$0	\$277,00
Fishing & Sidetrack Operations				DIDCIN	manning N	DICC245		M.115 521		**************	PCOM.115	50	\$21.00
Completion Rig				4444	4444444	4444				<i>*************************************</i>	PCOM 260	50	\$368,00
Coil Tubing				111111	######	44444		M.260 \$368 M.200 \$436		99111111111	PCOM.200	50	\$436,00
Completion Logging, Perforating, WL Units, WL Surveys				<i>4444</i>	<i>}}}}}</i>	HHH		M.390 5108		9444444	PCOM.390	\$0	\$108,00
Composite Plugs	1			HHH	HHHH	HHH		M.210 \$3,182		<i>444444</i>	PCOM.210	50	53,182,00
Stimulation Pumping Charges, Chemicals, Additives, Sand Stimulation Water / Water Transfer / Water Storage	7			WHH	<i>444444</i>	4HH		M.195 \$964	200	********	111111	mmin	\$964,00
Cimarex Owned Frac / Rental Equipment				44HH	944444	4444		M 305	SO	************	<i>}}}}}</i>		\$
				DIDC.300	\$10,000	$\mathcal{G}\mathcal{H}\mathcal{H}$	HHHH	111111111111111111111111111111111111111	CDN.300	\$781	<i>\\\\\\</i>		\$10,78
Legal / Regulatory / Curative Well Control Insurance \$0.35 Per Fo	and a			DIDC.285	\$8,000	4444	HHHHHH	HHHHH					\$8.00
Contingency 5.0 % of Drilling Inter			-	DIDCASS	5167,000	DECC 230	\$13,000 511	M.720 5285			PCOM.220	533,420	\$614,51
Construction For Flow Lines				1111111	911111111	1111111	MINIMININE.	IIIIIIIII	CON.310			IIIIIII	\$111,34
								<i>(111111111111111111111111111111111111</i>					
Construction For Sales P/L							XIIIIIXII		CON 265	\$0			
					\$3,508,000		\$272,000	\$6,014		\$467,479	111111	\$\$65,720	5
		innamation common			\$3,508,000		\$272,000	\$6,014		\$0	111111	\$565,720	5
Construction For Soles P/L Total Intangible Cost Tangible - Well Equipment						8//////	\$272,000	\$6,014		\$0	111111	\$\$63,720	\$ \$10,827,19
Total Intangible Cost	Size	Feet	S/Foot		\$3,508,000		\$272,000	\$6,014		\$0	111111	\$565,720	\$ \$10,827,19
Total Intangible Cost Tangible - Well Equipment	Size 0	Feet 0	50.00	DWEB.150			\$272,000	\$6,014		\$0	111111	\$565,720	\$10,827,19
Total intangible Cost Tangible = Well Equipment Cosing	0	0	\$0.00	DWEB.150 DWEB.130	\$0 \$0		\$272,000	\$6,014		\$0	111111	\$565,720	\$10,827,19 \$10,827,19
Total Intangible Cost Tennible-Will Coolument Coning Drive Pipe Conductor Pipe Water String	0 0 133/8"	0 0 0	\$0.00 \$0.00 \$42.00	DWEB.150 DWEB.130 DWEB.135	\$0 \$0 \$0		\$272,000	\$6,014		\$0	111111	\$565,720	\$10,827,19 \$10,827,19
Total Intangible Cost Tringible = We'll Equipment Cosing Drive Pipe Conductor Pipe Water String Surface Cosing	0 0 13 3/8" 10 3/4"	0 0 0 1200	\$0.00 \$0.00 \$47.00 \$35.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140	\$0 \$0 \$0 \$0 \$42,000		5272,000	\$6,014		\$0	111111	\$565,720	\$10,827,19 \$10,827,19 \$ \$ \$ \$ \$42,00
Total Intanglible Cost Lengible SVCII Couloment Coming Drive Pipe Conductor Pipe Conductor Fing Surfex Cosing Intermediate Cosing I	0 0 13 3/8" 10 3/4" 7 5/8"	0 0 1200 12500	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145	\$0 \$0 \$0 \$42,000 \$379,000		5272,000	\$6,014		\$0	111111	5565,720	\$10,827,19 \$10,827,19 \$ \$ \$ \$ \$42,00 \$379,00
Total Intanglible Cost Lengible SVCII Couloment Coming Drive Pipe Conductor Pipe Conductor Fing Surfex Cosing Intermediate Cosing I	0 0 13 3/8" 10 3/4"	0 0 1200 12500	\$0.00 \$0.00 \$47.00 \$35.00 \$30.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145	\$0 \$0 \$0 \$0 \$42,000		5272,000	\$6,014		\$0	111111	\$565,720	\$10,827,19 \$10,827,19 \$ \$ \$42,00 \$379,00
Total Intanglible Cost Langlible SVEIL Equipment Coning Drive Pipe Conductor Fipe Water String Surfect Costing Intermediate Costing 1 Intermediate Costing 2 Diffiling Liner Diffiling Liner	0 0 1133/8" 103/4" 75/8"	0 0 1200 12500 0	\$0.00 \$0.00 \$47.00 \$35.00 \$30.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145	\$0 \$0 \$0 \$42,000 \$379,000			\$6,014		\$0	111111	5565,720	\$10,827,19 \$10,827,19 \$ \$ \$42,00 \$379,00
Total Intangible Cost Tripible SeVill Equipment Going Drive Pipe Conductor Pipe Water String Surface Cosing Intermediate Cosing I Intermediate Cosing 2 Drilling Income Pipe Production Cosing or Inner Production Cosing or Inner Production Cosing or Inner Production Cosing or Inner	0 0 113/8" 103/4" 75/8" 0 0 5.5" x 5"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000	DWIA too	5505,000		,000	\$0	111111	5565,720	\$10,827,19 \$10,827,19 \$ \$ \$ \$42,00 \$379,00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intanglible Cost Langlible SVEIL Equipment Coning Drive Pipe Conductor Fipe Water String Surface Cosing Intermediate Cosing I Intermediate Cosing 2 Driffing Liner Production Fire Production Production Fire Pack Production Fire Pack	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.145	\$0 \$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0	DWTA 100	\$505,000 \$505,000 sta	71.101	50	\$0			\$10,827,15 \$10,827,15 \$ \$ \$ \$42,00 \$379,00 \$ \$505,00
Total Intangible Cost IT IT DEL SEVEL Coulomant Couing Onnew Pipe Conductor Pipe Water String Surface Cosing Intermediate Cosing 1 Intermediate Cosing 2 Drilling Limit Cosing or Liner Production Te dack Tubing	0 0 113/8" 103/4" 75/8" 0 0 5.5" x 5"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$379,000	DWIA 100 DWIA 165	\$5,05,000 50, 510 510	87.101 87.101 87.105 \$83	50	\$0	111111		\$10,827,15 \$10,827,15 \$ \$ \$ \$42,00 \$379,00 \$ \$505,00 \$883,00
Total Intangible Cost Lingible - Well Equipment Coning Drawe Pipe Conductor Pipe Water String Surface Cosing Intermediate Cosing 1 Intermediate Cosing 2 Diffiling Line Production Fire Production Cosing or Liner Production Cosing or Liner Production Cosing or Liner Production Tee Back Tabing	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$505,000 50 510 530,000 510	#1.101 #1.105 \$83 #1.106 \$65	50 000	\$0			\$10,827,19 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost Engible SV (il Equipment Coming Drive Pipe Conductor Pipe Water String Surface Cosing Intermediate Cosing 1 Intermediate Cosing 2 Intermediate Cosing 3 Intermediate Cosing 3 Intermediate Cosing 4 Intermediate Cosing 6	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$379,000	DWTA 100 DWTA 165	\$50,000 M \$10,000 M \$10,000 M	#T.101 #T.105 \$83 #T.126 \$66	,000 50 000	\$0	PCOM 100	50	\$10,827,19 \$10,827,19 \$5 \$42,00 \$379,00 \$5505,00 \$83,00 \$120,00
Total Intanglible Cost Lenglist's XCII Equipment Couning Drive Piece Conductor Pipe Water Strong Surfers Costing Surfers Costing Intermediate Costing I Interme	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$50,000 and \$50,00	#1.001 #1.105 \$83 #1.100 \$60	000, 000, 000, 000, 000, 000,	\$0	PCOMT.05	50	\$10,827,19 \$10,827,19 \$3 \$3 \$42,00 \$379,00 \$505,00 \$120,00 \$120,00 \$28,00
Total Intangible Cost LETTIC STATE OF THE CONTROL	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 600 600 500	\$6 \$467,473	POOM ACC PCOM ACC	\$0 \$0 \$0 \$0	\$10,827,15 \$10,827,15 \$ \$ \$ \$ \$42,000 \$379,00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intanglible Cost Lenglist's XCLE Cultument Couning Drive Pice Conductor Pipe Water Strang Surfest Costing Intermediate Costing I I	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 600 600 500	\$0	POMM ASS POMM ASS POMM ASS	\$0 \$0 \$0 \$0	\$10,827,15 \$10,827,15 \$ \$ \$ \$ \$42,000 \$379,00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost Linguist S. VI (I Equipment Cosing Drive Pipe Conductor Pipe Water String Surface Cosing Intermediate Cosing I Intermediate Cosing I Intermediate Cosing I Intermediate Cosing I Production Intermediate Cosing I Production For the Production Intermediate Cosing I Willhoud I. Tee. Chokes Libring Wellhoud I. Tee. Chokes Libring Famer, Isolation Packer Packer, Isolation Packer Packer, Isolation Packer Downhold Lift Gaupment (BHP, Rods, Anchors, ESP, GVI), Thrighlis Lesses Equipment	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	,000 50 ,000 ,000 ,000 ,000 ,000 ,000	\$6 \$467,479	PCOMI AND PCOMI AND PCOMI AND	\$0 \$0 \$0 \$0	\$ \$10.827.19 \$ \$10.827.19 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost Lengible: Self-Equipment (Coning Dave Rice Conductor Dave Rice Water Strong Surface Costing Intermediate Costing I Inte	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	,000 ,000 ,000 ,000 ,000 ,000 ,000 ,00	\$6 \$467,473	PCOMT.400 PCOMT.400 PCOMT.400 PCOMT.400	\$0 \$0 \$0 \$0	\$ \$10,427,19 \$ \$10,427,19 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost Lengible SVCII Equipment Coming Drive Pipe Conductor Pipe Water String Surface Cosing Intermediate Cosing 1 Intermediate Cosing 1 Intermediate Cosing 1 Intermediate Cosing 2 Diffiling Liner Production Test Godes Traduction Test Godes Tablen Traduction Test Godes Tablen Tab	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0 27/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	\$5,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,5467,475,475,475,475,475,475,475,475,475,47	PCOMT.00 PCOMT.400 PCOMT.4E	\$0 \$0 \$0 \$0	\$ \$10.827.19 \$ \$0.827.19 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost Lendish: Style Evaluation Comm Drier Pipe Countarior Pipe Water Strang Surface Costing I Intermediate Costing I I Intermediate Costing I I Intermediate Costing I I I I I I I I I I I I I I I I I I I	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0 27/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 000 500 500 500 500 500 500 500 500	\$5,5467,473	POMM.09 POMM.400 POMM.400 POMM.400	\$0 \$0 \$0 \$0	\$ \$10,427,19 \$ \$10,427,19 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost LETHING SERVICE CONTINUES COMMUNICATION TOWN PRE CONDUCTOR PRE WATER STAND SURfort Cosing Intermediate Cosing 1 Intermediate Cosing 1 Intermediate Cosing 2 Diffiling Liner Production The Boark Tabling Traduction The Boark Tabling Tabling Liner Production The Boark Tabling Tabling Liner Production The Total Tabling Liner Production The Total Tabling Liner Production The Total Tabling Liner Stand Tablin	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0 27/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 000 000 000 000 000 000 000 000 0	\$5,5467,475,475,475,475,475,475,475,475,475,47	POMFARI POMFARI POMFARI POMFARI	\$0 \$0 \$0 \$0	\$ \$10,827,19\$ \$ \$10,827,19\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost Lendish: Style Equipment Comm Drier Pige Conduction Pige Water Strain Surface Costing I Intermediate Costing I I Intermediate Costing I I I I I I I I I I I I I I I I I I I	0 0 133/8" 103/4" 75/8" 0 0 5.5" x 5" 0 27/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 000 000 000 000 000 000 000 000 0	\$6,5467,473	PCOMTATO PCOMTATO PCOMTATO	\$0 \$0 \$0 \$0	\$ \$10.827.19 \$ \$10.827.19 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intangible Cost Ling 1915; SVCII Equipment Coming Drive Pipe Conductor Pipe Water String Surfers Costing Intermediate Costing I Intermediate I Intermediate Costing I Intermediate I Intermedia	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 50 50 50 50 50 50 50 50 50 600 600	\$5,5467,473,55467,473,55467,473,5546,555,5546,813,554,813,555	PCOMT.00 PCOMT.00 PCOMT.400 PCOMT.400	\$0 \$0 \$0 \$0	\$10,827,15 \$10,827,15 \$2,00 \$3,542,00 \$379,00 \$555,00 \$120,00 \$120,00 \$2,00 \$383,00 \$120,00 \$1
Total Intangible Cost Lendish: SVCI Equipment Conne Dance Rice Conductor Rice Conductor Rice Water Strain Surface Costing I Intermediate	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 50 50 50 50 50 600 600 600 600 600	\$6,5467,473	POMTAGE POMTAGE POMTAGE	\$0 \$0 \$0 \$0	\$10,827,15 \$10,82
Total Intangible Cost Ling Dist SVCII Equipment Coming Drive Pipe Conductor Pipe Water String Surface Cosing I Intermediate Internet Int	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	500 500 500 500 500 500 500 500 600 600	\$5 \$467,473 \$467,473 \$5467,473 \$5467,473 \$556,555 \$5576,505 \$5576,	PCOMT 400 PCOMT 400 PCOMT 400 PCOMT 400	\$0 \$0 \$0 \$0	\$10,827,155 \$10,827,155 \$10,827,155 \$10,827,155 \$10,827,155 \$12,000 \$1
Total Intangible Cost Lendish: SVCLLEGUISMENT. Comm Dane Pipe Conduction Pipe Water Strain Surface Costino I Intermediate Costino I Intermedia	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWTA 100 DWTA 165	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 50 50 50 50 50 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60	\$ \$467,473 \$467,473 \$ \$467,473 \$ \$133,255 \$ \$15,625 \$ \$24,261 \$ \$15,625 \$ \$24,261 \$ \$156,635	PCOMT AND PCOMT AND PCOMT AND	\$0 \$0 \$0 \$0	\$10,827,15 \$42,00 \$379,00 \$120,00 \$120,00 \$133,21 \$96,32 \$96,32 \$278,00 \$22,80 \$133,21 \$278,00
Total Intanglible Cost Intellible SVELLE Columnat Coning Drive Pine Conductor Pipe Water String Surface Cosing I Intermediate I Intermed	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$10 \$20 \$2,20 \$42,200 \$379,000 \$30 \$30 \$30 \$30 \$30 \$40,200 \$40	DWIA.100 DWIA.105 DWIA.125	\$545,000 111 \$50 111 \$30,000 111 \$30,000 111 \$110	71,101 11,102 11,103 11,104 11,105 11	50 50 50 50 50 50 50 600 600 60	\$5 \$467,473 \$467,473 \$5467,473 \$5467,473 \$546,555 \$556,55	PODMT.400 PODMT.400 PODMT.400 PODMT.400	\$0 \$0 \$0	\$10,827,19 \$10,827,19 \$2,00 \$370,00 \$20,00 \$120,00 \$120,00 \$131,29 \$278,00 \$131,29 \$13
Total Intangible Cost Ling Dist SVCII Equipment Coming Drive Pipe Conductor Pipe Water String Surface Cosing I Intermediate Internet Int	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0 \$10,000	DWIA.100 DWIA.105 DWIA.125	\$555,000 \$10 \$10,000 \$	#1.101 #1.105 \$83 #1.100 \$56 #1.400 \$28	50 50 50 50 50 50 50 600 600 60	\$ \$467,473 \$467,473 \$ \$467,473 \$ \$133,255 \$ \$15,625 \$ \$24,261 \$ \$15,625 \$ \$24,261 \$ \$156,635	PODMT.400 PODMT.400 PODMT.400 PODMT.400	\$0 \$0 \$0 \$0	\$10,827,19 \$10,827,19 \$2,00 \$370,00 \$20,00 \$120,00 \$120,00 \$131,29 \$278,00 \$131,29 \$13
Total Intangible Cost Lingible SVCII Equipment Coming Drive Pipe Conductor Pipe Water String Sulpiac Cosino I Intermediate I Intermedia	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWIR.150 DWIR.130 DWIR.130 DWIR.130 DWIR.130 DWIR.130 DWIR.130 DWIR.135 DWIR.130	\$10 \$2,0 \$2,70,000 \$379,000 \$30,000 \$30,000 \$30,000 \$30,000 \$451,000	DWIA.100 DWIA.120 DWIA.125	\$5.50,000 25.50 310	77.101 77	50 50 600 600 600 600 600 600 600 600 60	\$5 \$467,473 \$5467,473 \$5467,473 \$556,555 \$5578,605 \$5578	G COMPANIES	50 50 50 50	\$10,827,195 \$10,827,195 \$10,827,195 \$10,827,195 \$10,827,195 \$10,827,195 \$10,827,195 \$10,827,195 \$10,827,195 \$10,835,535 \$10,835,535
Total Intanglible Cost Intellible SVELLE Columnat Coning Drive Pine Conductor Pipe Water String Surface Cosing I Intermediate I Intermed	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.145 DWEB.145 DWEB.155 DWEB.160	\$10 \$2,0 \$2,70,000 \$379,000 \$30,000 \$30,000 \$30,000 \$30,000 \$451,000	DWIA.100 DWIA.105 DWIA.125	\$5.50,000 25.50 310	77.101 77	50 50 600 600 600 600 600 600 600 600 60	\$5 \$467,473 \$467,473 \$5467,473 \$5467,473 \$546,555 \$556,55	G COMPANIES	50 50 50 50	\$ \$10,427,19\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Total Intanglible Cost Interpolates Well Equipment Coming Drive Pipe Conductor Pipe Water String Surface Cosing 1 Intermediate Inter	0 0 13.3/8" 10.3/4" 7.5/8" 0 0 5.5" x.5" 0 2.7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$23.00 \$0.00	DWIR.150 DWIR.130 DWIR.130 DWIR.130 DWIR.130 DWIR.130 DWIR.130 DWIR.135 DWIR.130	\$10 \$2,0 \$2,70,000 \$379,000 \$30,000 \$30,000 \$30,000 \$30,000 \$451,000	DWIA 100 DWIA 105 DWIA 125 DWIA 125	\$5.50,000 25.50 310	77.101 77	500 500 500 500 500 600 600 600	\$5 \$467,473 \$5467,473 \$5467,473 \$556,555 \$5578,605 \$5578	G COMM JOS	50 50 50 50	5: \$10,827,19 5: \$-2.50 5: \$-3.



Authorization For Expenditure

Company Entity Cimarex Energy (Co	1000000924					Date Prepa		er 18, 2018	
Region		Well Name		Prospect or Field	Name	Property Number	a Parisher	Drilling	AFE No.	
PERMIAN		is 12-13 Fed Com	8H		in the state of th			J. IIII.	53.110.110.	
Location				County		Тур	e Well			
W/2 W/2 of Sect	ions 12 and 13-T2	245-R32E		Lea		NM	Oil Gas	X	Expl Prod	x
				2			Gas	Gus		
Estimate Type			F	st.Start Date	Es	it. Comp Date	Form	nation		ured Depth
Original Estimate Revised Estimate										,951'
Supplemental Est	rimate									,300'
Drill and complet at +/- 12399' MD. frac.Drill out plug	e a horizontal tes Finish curve at +	/- 3°/100' to +/- 1	2300' TVD a	ing casing. Drill to 11774 and drill a +/- 9050' long	lateral in th	Il curve at 12°/100' in ne Wolfcamp formati After Casing	on. Run and c	ement pro	degrees and duction line	r. Stage
Drilling Costs				\$3,508,000		Arter Casing	COMMONDAGE OF THE PARTY OF THE	Con	\$3,508,00	
Completion Costs						\$7,319,1	99		\$7,319,19	9
Total Intangible (Costs			\$3,508,000		\$7,319,1	99		\$10,827,19	99
Tangibles										
Well Equipment Lease Equipment				\$451,000		\$786,00			\$1,237,00	
Total Tangible W				\$451,000	<u> </u>	\$798,52 \$1,584,5			\$2,035,52	
Plug and Abando	lug and Abandon Cost					\$0			\$0	
Total Well Cost				\$3,959,000		\$8,903,7	20		\$12,862,72	00
long as Operator you must provide commencement of procured by Oper lelect 1 Well control insur	indicated below, conducts operation a certificate of sum of drilling operation rator. to purchase my o rance procured by	ons hereunder an uch insurance acc ons. You agree th wn well control in y Operator, provid	d to pay you eptable to (nat failure to nsurance po des, among	king interest owner, agi ur prorated share of the Operator, as to form and o provide the certificate olicy. other terms, for \$20,00 ng (through completion	e premiums d limits, at t of insurance	therefore. If you ele he time this AFE is re te, as provided herein 6 W.I.) of Combined	ct to purchase turned, if ava n, will result in Single Limit co	e your own ilable, but i n your bein	well contro in no event g covered b	ol insurance, later than y insurance
Marketing Glection 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 t	to market my gas	with Cimarex pu	rsuant to th	ne terms and conditions	s of its cont	ract.				
without affecting	re estimates only the authorization	for expenditure	herein gran	operations without any ited. By approval of this t operating agreement,	s AFE, the w	orking interest owne	r agrees to pa	y its propo	rtionate sha	
				Cimarex Energy C	O Appro	ual .				
Preparediby			Drilling and	Completion Manager	-o. Appro	CONTRACTOR PROPERTY.	Manager			
							741			
				Joint Interest	Annrous!			***************************************	***************************************	
Company			Ву	Joint Interest	~hhi ovgi	Date				
				4						



Intentibles Reads & Lecation Preparation / Restoration Generate Mod Fields Disposal Charges Mod Fields Disposal Charges Mod Fields Disposal Charges Modis Preparation Cost (mouse hole, set hole, pas), pile culters Bits Fuel State \$ 1.00 Per Gallion Mod & Additives Mod & Additives Mod & Additives Waster for Drilling Rig / Completion Fluids (Not Frac Water) Mod & Additives														
Reads & Leadion Preparation / Restaration Demages Mud / Fluids Disposal Charges Day Rate 39.00 [Dr. Days 4.00 ACP Days C Makes Preparation Cast (moure hold, rat hole, pads, pile obusters Bits Fuel 53.00 Per Gallon Water for Drilling Rig / Completion Fluids (Not Frac Water) Mud & Addilivers Mud & Radilivers Mud & Radilivers					BCP - Brilling (Bay Hole South)	Codu	ACP-DHIIING	Forth	Sampletion / Stimulation	rasio	Production Equipment/ Construction	California	Post Completion	Total Well Cost
Demages Make Fleshis Dissocial Charges Day Rate 3.9.00 (Dir Days 4.00 ACP Days of Make Researation Cost (moore hole, rathel, path, pille clusters Bris Flesh 5.9.00 Per Gallon Water for Drilling Rig / Commiletion Fluids (Not Fire: Water) Mod & Additives Mod & Additives				DIDC.100	\$100,000		11111111	\$1MA.100	\$3,000	CON.100	519,875	PCOM.100	\$40,000	\$162,879
Den Rete 3,000 (DH Days 4,00) (ACP Days 6 Make Preparation Cast (mouse hole, rath chie, pads, pile clusters Bits Fuel 5,000 Per Gallon Water for Drilling Rig / Commiletion Fluids (Not Fros Water) Mod & Additives Water for British Rig / Commiletion Fluids (Not Fros Water)				DIDC.105	\$10,000		///////////////////////////////////////			CON.105	\$8,859	PCDM 255	\$255,500	\$18,859
Mus Preparation Cost (mouse hole, rat hole, sads, pile clusters Bits Fuel 53.00 Per Gellon Water for Drilling Big / Completion Fluids (Not Froc Water) Mud & Additives Surface Rentals		\$25,000	0 . 0	DIDC.255	\$160,000		\$100,000	STIM.255	\$53,000	HHH)	<i>444444</i>	TITITI	111111111111111111111111111111111111111	\$850,000
Bits Fuel \$3.00 Per Gollon Water for Drilling Rig / Completion Fluids (Not Froc Water) Mud & Additives Surface Rentals		525,000	Per Day	DIDC.115 DIDC.120	\$50,000	111111				*****	<i>######</i>			\$50,00
Fuel \$3.00 Per Gallon Water for Drilling Rig / Completion Fluids (Not Frac Water) Mud & Additives Surface Rentals	, must.j			DIDC.125	\$150,000	DICC.125	50	\$11M.125	\$0			PCDM.125	50	\$150,00
Water for Drilling Rig / Completion Fluids (Not Frac Water) Mud & Additives Surface Rentals	1.150	Gallons Per Do	gy	DIDC.135	\$117,000	DICC.130	\$0	11111111				PCOM.130	50	
Mud & Additives Surface Rentals				DIDC.140	\$5,000			STIM.135	\$24,000			PCOM.135	TTTTTTTTT	\$29,00
				DIDC.145										\$350,00
	\$3,000	Per Day (6CP)		DIDC.150	\$117,000	DICC,140	\$0		5189,000	CON.140	\$1,900	PCOM.140 PCOM.145	\$170,000	\$477,90 \$178,00
Downhole Rentals				DIDC.155	\$178,000			STIM.345	\$0 50	<i>///////</i>	//////////////////////////////////////	PCOM.145	30	\$178,00
Formation Evaluation (DST, Coring including evaluation, G&G:	Days @	\$1,200	Ora Davi	DIDC.160 DIDC.170	\$36,000			\$100.150	2000	<i>####</i>	<i>/////////////////////////////////////</i>	4444		\$36.00
Mud Logging 25.75 Open Hole Logging	Days &	\$1,200	rer Day	DIDC.160								//////		5
Cementing & Float Equipment				DIDC.185	\$190,000		\$100,000							\$290,00
Tubular Inspections				DIDC.190	\$50,000		\$8,000	5TIM.160	\$4,000			PCOM.160		\$62,00
Casing Crews				DIDC.195	\$22,000		\$15,000	\$TIM.165	\$0					\$37,00
Extra Labor, Welding, Etc.				DIDC.200	\$20,000			\$TIM.170	\$0	CDN.170	\$181,375	PCOM.170	\$62,800	\$267,17
Land Transparation (Trucking for tangibles)				DIDC.205	\$30,000			STIM.175		CON.175		PCOM.175 PCOM.180	\$4,000	\$59,12
Supervision	\$4,000		Per Day	DIDC.210	\$140,000	DICC.180	\$16,000		\$74,000	CON.150		//////		\$237,62
Trailer House / Camp / Catering	\$1,000.00	Per D	dy	DIDC.280 DIDC.220	\$5,000			STIM.280 STIM.190	\$100,000	CON.190		PCDM.190	50	\$112,50
Other Misc Expenses Overhead				DIDC.225	\$5,000	DICC.195		VIIIII	111111111			1111111		\$10,00
Remedial Cementing				DIOC.231	\$0		9///////	STRA.215	\$0			PCDM.215	\$0	\$
MOB/DEMOB				DIDC.240	\$150,000			XIIIIII						\$150,00
Directional Driffing Services				DIDC.245	\$434,000	///////		X44411						\$434,00
Crane for Construction							\$4444444	<i>}}}}!</i>		CON.230				\$99,00
Solids Control				DIDC.260	\$99,000					<i>4444</i>		PCOM.240	\$0	\$277,00
Well Control Equip (Snubbing Svcs.)				DIDC.265	\$116,000	DICC.245	\$0	57tM,240 51tM,245	\$161,000	*******	/////////////////////////////////////	PCOM.245		
Fishing & Sidetrack Operations Completion Ria				WIIIII	annii i	VIIII.	annii i	STIM.115	521,000			PCDM.115		
Coll Tubing				<i>\\\\\\\</i>				5TIM.260	\$368,000			PCOM.260	Sa	\$368,00
Completion Logging, Perforating, WL Units, WL Surveys								STIM.200	\$436,000			PC01M.200		\$436,00
Composite Plugs				1111111				STIM.390	\$108,000			PCOM.390	50	\$108,00
Stimulation Pumping Charges, Chemicals, Additives, Sand								STIM.210	\$3,182,000	4444		PCOM.210	\$0	
Stimulation Water / Water Transfer / Water Storage				4444		<i>\\\\\\</i>		STIM.395	\$964,000	<i>///////</i>		<i>}}}}}</i>	344444	\$964,00
Cimarex Owned Frac / Rental Equipment						44444		\$TIM.305	50	CON 300	\$781	<i>###</i>	3 <i>44444</i>	\$10,78
Legal / Regulatory / Curative				DIDC 285	\$10,000		*******	<i>}}}}}</i>		CON 300	777777777	<i>####</i>		58,00
Well Control Insurance \$0.35 Per Foot				DIDC.435		DICC.220	\$13,000	STBM.220	\$285,000	CON 220	\$115.097	PCOM.ZZO	533,420	\$614,51
Construction For Flow Lines 5.0 % of Drilling Intangible	.,			111111	millim	YIIIII	minim	XIIIII	VIIIIIII	CONJID	\$111,347	7/////	MIIIIII	\$111,34
Construction For Sales P/L										CON.265	\$0			\$
Total Intangible Cost					\$3,508,000		\$272,000)	\$6,014,000	***************************************	\$457,479		\$565,720	\$10,827,19
Tangible -Well Equipment				viiii	mmn	m	mmm	mm	· · · · · · · · · · · · · · · · · · ·	mm	mmm,	mm	mmm	mmm
	Size	Feet		DWEB.150	\$(1)1111111		<i>}}}}}</i>	<i>Y//////</i>						
Casing	0	0	\$0.00	DWI B. 150									<i>>>>>>></i>	
Drive Pipe	0	- 0		DUNER 130				<i>}}}}}</i>						
Drive Pipe Conductor Pipe	13.3/8"	0	\$47.00		\$0									\$ \$
Drive Pipe Conductor Pipe Water String	13 3/8"	1200		DWEB.130 DWEB.135	\$0									\$ \$ \$42,00
Drive Pipe Conductor Pipe		1200 12500	\$35.00 \$30.00	DWEB.185 DWEB.140	\$0 \$0 \$42,000 \$379,000									\$ \$ \$42,00 \$379,00
Drive Pipe Conductor Pipe Water String Surface Casing	13 3/8" 10 3/4" 7 5/8"	1200 12500 0	\$35.00 \$30.00 \$0.00	DWEB.145 DWEB.140 DWEB.145 DWEB.155	\$0 \$0 \$42,000 \$379,000									\$42,00 \$379,00
Drive Piac Conductor Piace Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Intermediate Casing 2	13 3/8" 10 3/4" 7 5/8" 0	1200 12500 0	\$35.00 \$30.00 \$0.00	DWEB.185 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$42,000 \$379,000									\$42,00 \$379,00
Drive Pipe Conductor Pipe Water Strina Surface Casing Intermediate Casing 1 Intermediate Casing 2 Delling Liner Production Cosing or Liner	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23,00	DWEB.185 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$42,000 \$379,000	DW(A.NO								\$42,00 \$379,00 \$379,00 \$505,00
Drive Piac Conductor Piace Water String Surface Casing Intermediate Cesing 1 Intermediate Cesing 2 Dirilling Liner Production Cosing or Liner Production Cosing or Liner Production Tell-Back	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.185 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$42,000 \$379,000			STIMT. SOL	\$0			PCOMT. 10	S Cn	\$42,00 \$379,00 \$379,00 \$505,00
Drive Pice Conductor Pipe Water String Surface Cosing Intermediate Cosing 1 Intermediate Cosing 2 Intermediate Cosing 2 Production Cosing or Liner Production Testing or Liner Production Testing Tubing Tubing	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.160	\$0 \$0 \$42,000 \$379,000 \$0	DWTA.100		STIMT.301	\$83,000			PCOMT.30	\$ \$ \$D	\$42,00 \$379,00 \$505,00 \$83,00
Drive Piac Condustor Pipe Water String Surface Coung Intermediate Coung Intermediate Coung 2 Deliting Liner Production Coung or Liner Production Coung or Liner Floydiction Tell Back Tubing Undifficed Welfined, Tree, Chokes	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.185 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$42,000 \$379,000 \$0	DWIA 100 DWIA 105	\$30,000	STIMT.301	\$83,000 \$60,000					\$42,00 \$379,00 \$379,00 \$5 \$505,00 \$83,00 \$120,00
Drive Pioc Conductor Pioe Water String Surface Cosing Intermediate Cosing 1 Intermediate Cosing 2 Drilling Liner Production Cosing or Liner Production Tierdock Tubing Weiffred, Tee, Chokel Liner Hanger, Nobicion Facker	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT.305 STRAT.305 STRAT.400	\$83,000 \$60,000 \$28,000			PCOMT.40	\$0	\$42,00 \$379,00 \$505,00 \$505,00 \$120,00 \$28,00
Drive Pice Conductor Pice Water String Surface Casing Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Casing or Liner Production Tie-Back Tubing Wellineal, Tee, Chokes Libert Hanger, Nobition Packer Packer, Vispoles Pecker, Vispoles Perming Unit, Engine	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0			PCOMT.AD	\$0	\$42,00 \$379,00 \$505,00 \$83,00 \$120,00
Drive Piac Conductor Pipe Water String Surface Cosing Intermediate Cosing I Intermediate Cosing I Intermediate Cosing 2 Doubling Liner Production Cosing or Liner Production Les Back Tubing Tubing Weithead, Tree, Chokes Liner Hanger, Isolation Packer Pecker, Lingles Pecker, Lingles Doumphol Lift, Englier Doumphol Lift, Englier Doumphol Lift, Englier	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT.305 STRAT.305 STRAT.400	\$83,000 \$60,000 \$28,000 \$0			PCOMT.40	\$0	\$42,00 \$379,00 \$505,00 \$83,00 \$120,00
Drive Pice Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Touring or Liner Production Tre-Back Tabing Underlied, Tree, Choice Liner Honger, Isolation Packer Packer, Limplet Pamigna Unit, Englie Downhold: Ut Engineent (1818, Rods, Anchors, ESP, GVLs, P.C. Linis Illication September 1	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0			PCOMT.40 PCOMT.40 PCOMT.40	\$0	\$42,00 \$379,00 \$505,00 \$83,00 \$120,00 \$28,00
Drive Piac Conductor Pipe Water String Surface Cosing Intermediate Cosing I Intermediate Cosing I Intermediate Cosing I Deliting Liner Production Cosing are Liner Production Cosing are Liner Production Teslack Tubing Tubing Frederic Time Back Tubing Frederic Time Back Tubing Frederic Time Back Diace Hanger, Industrian Facker Pecker, Kupple Pumping Unit, Englise Dewnhole Lift Enginee Dewnhole Lift Enginee Dewnhole Lift Enginee (1814, Rods, Anchors, ESP, GVLs, P.C. Lifts (1814) LIGHAN LIGH	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0	CONT.400	\$133,250	PCOMT.AD	\$0	\$42,00 \$379,00 \$505,00 \$53,00 \$120,00 \$28,00 \$90,00
Drive Pice Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Test Pick Tabing Theoretica Couns or Liner Production Test Pick Tabing Wellneed, Irec, Choice Liner Honger, Isolation Packer Packer, Linghet Permiss Unit, Englie Downhold: Uf Engineent (BHP, Rods, Anchors, ESP, GVLs, PC, Intia (Biblich) Casing MIX Casing Casing Country MIX Casing Casing Country MIX Casing Casi	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0			PCOMT.AD	\$0	\$42,00 \$379,00 \$505,00 \$53,00 \$120,00 \$28,00 \$133,20 \$505,30
Drive Piac Conductor Pipe Water String Surface Cesting Intermediate Costing 1 Intermediate Costing 2 Defiling Lines Production Costing ac Lines Production Costing ac Lines Production Tesled Tubing Westhered Tubing Tubing Tubing Device Control Lines Hanger, Industrian Lines Hanger, Industrian Device Manager, Industrian Device Manager, Industrian Device Manager, Industrian Tubing Development (Birler, Rods, Anchors, ESP, GVLs, P.C. 1676 [Discillativa-Erithman Mr.K. Leane Kaupment Turks, Turks Taylon, Stoff Turks, Turks Stops, Stoff Destrey (Heater Tesler, Separater, Gos Treating Equipment)	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0	CONT.400	\$133,250 \$96,353	PCOMT.AD	\$0	\$2,00 \$379,00 \$505,00 \$83,00 \$20,00 \$80,00 \$133,72 \$96,35 \$272,0
Drive Pice Conductor Pipe Water String Surface Casing Surface Casing Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 2 Intermediate Casing	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.410	\$133,250 \$96,353 \$278,065 \$26,053 \$15,625	PCOMT.AD PCOMT.AD PCOMT.AD	\$0	\$42,00,000 \$379,00 \$505,00,00 \$83,00 \$220,00 \$220,00 \$313,29 \$278,00 \$
Drive Piac Conductor Pipe Water String Surface Cesting Intermediate Costing 1 Intermediate Costing 2 Defiling Lines Production Costing ac Lines Production Costing ac Lines Production Tesled Tubing Westhered Tubing Tubing Tubing Device Control Lines Hanger, Industrian Lines Hanger, Industrian Device Manager, Industrian Device Manager, Industrian Device Manager, Industrian Tubing Development (Birler, Rods, Anchors, ESP, GVLs, P.C. 1676 [Discillativa-Erithman Mr.K. Leane Kaupment Turks, Turks Taylon, Stoff Turks, Turks Stops, Stoff Destrey (Heater Tesler, Separater, Gos Treating Equipment)	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.410 CONT.410 CONT.420 CONT.420	\$133,250 \$96,353 \$278,065 \$26,053 \$15,625 \$82,813	FCOMT AND FCOMT AND FCOMT AND	\$0	\$2,00,00 \$379,00 \$505,00 \$505,00 \$120,00 \$120,00 \$28,00 \$505,0
Drive Piac Conductor Pipe Water String Surface Cesting Intermediate Coting I Intermediate I In	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.410 CONT.415 CONT.425 CONT.425	\$133,250 \$96,353 \$278,065 \$26,053 \$15,625 \$82,813 \$5,145	PCOMTAIN PCOMTAIN PCOMTAIN	\$0	\$12,0,0 \$379,00 \$505,00 \$120,00 \$220,00 \$120,00 \$272,0 \$13,0
Drive Piac Conductor Piace Water String Surface Casing Intermediate Cesing 1 Intermediate Cesing 1 Intermediate Cesing 1 Intermediate Cesing 2 Intermediat	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.410 CONT.410 CONT.420 CONT.420 CONT.420 CONT.420 CONT.430	\$133,250 \$96,353 \$278,065 \$25,053 \$15,625 \$62,813 \$5,145 \$21,563	PCOMTAIN PCOMTAIN PCOMTAIN	\$0	\$42,00,000 \$379,00 \$505,00 \$83,00 \$220,00 \$3132,20 \$240,00 \$240,00 \$313,20 \$313,20 \$315,60 \$31
Drive Piec Conductor Piec Water Strins Surface Cessing Intermediate Cesting 1 Intermediate Cesting 2 Intermediate	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA 100 DWIA 105	\$30,000	STRAT. 101 STRAT. 105 STRAT. 120 STRAT. 400 STRAT. 400	\$83,000 \$60,000 \$28,000 \$0	CONT.ASO CONT.ASO CONT.ASO CONT.ASO CONT.ASO CONT.ASO CONT.ASO CONT.ASO CONT.ASO	\$133,250 \$96,353 \$178,065 \$26,053 \$15,625 \$82,813 \$5,445 \$21,563 \$106,635	PCOMT AN	\$0	\$42,00 \$379,00 \$505,00 \$53,00 \$120,00 \$20,00 \$133,21 \$24,00 \$24,00 \$24,00 \$24,00 \$25,0
Drive Piac Conductor Piace Water String Surface Cosing Intermediate Cosing 1 Intermediate Cosing 1 Intermediate Cosing 2 Intermediate Intermedia	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$0 \$0 \$42,000 \$379,000 \$30,000 \$30,000	DWIA.100 DWIA.100 DWIA.100 DWIA.100	\$10,000	STRAIL, 101 STRAIL, 105 STRAIL, 105 STRAIL, 105 STRAIL, 105 STRAIL, 405 STRAIL, 405 STRAIL, 415	\$83,000 \$60,000 \$28,000 \$0 \$60,000	CONT.AGO CONTAGO	\$133,250 \$96,353 \$178,065 \$28,052 \$15,625 \$82,813 \$5,445 \$21,562 \$106,635	PCOMT AN	0 S0 5 S0 0 S0	\$42,00,000 \$379,00 \$505,00 \$83,00 \$220,00 \$80,00 \$240,00 \$240,00 \$240,00 \$25,00
Drive Piec Conductor Piec Water Strins Surface Cessing Intermediate Cesting 1 Intermediate Cesting 2 Intermediate	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.145 DWEB.145 DWEB.145 DWEB.160	\$00 \$42,000 \$379,000 \$0 \$0 \$38,000	DWIA.100 DWIA.100 DWIA.100 DWIA.100	\$30,000	STRAIL, 101 STRAIL, 105 STRAIL, 105 STRAIL, 105 STRAIL, 105 STRAIL, 405 STRAIL, 405 STRAIL, 415	\$83,000 \$60,000 \$28,000 \$0	CONT.AGO CONTAGO	\$133,250 \$96,353 \$178,065 \$26,053 \$15,625 \$82,813 \$5,445 \$21,563 \$106,635	PCOMT AN	\$0	\$42,00,00 \$379,00 \$505,00,00 \$83,00,00 \$28,00 \$28,00 \$28,00 \$278,00 \$313,22 \$32,00 \$315,00 \$31
Drive Piac Conductor Piace Water String Surface Casing Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 2 Doubling Liner Production Casing or Liner Production Casing or Liner Production Casing or Liner Production Casing or Liner Production Testage Tubing Production Testage Tubing Production Testage Tubing Parker, Niaples Downshole Lift Engine Tarisk, Tanish Steps, Stoirs Tarisk, Tanish Steps, Stoirs States (Patient Tester, Separater, Gas Treating Equipment) Secondary Containments O'cecheage Fower Casinsholms SWD Connection SWD Connection SWD Connection SWD Connection Tubin Piace From wellhoad to central facility) Pipeline to Soles Meters and Matering Equipment Total Tanghles	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWF8.115 DWF8.140 DWF8.145 DWF8.155 DWF8.155 DWF8.150	\$10,000 \$43,000 \$379,000 \$10,000 \$10,000 \$10,000 \$10,000 \$451,000	DWA.100 DWA.100 DWA.175	\$10,000 \$10,00	5 STRAIL, 101 5 STRAIL, 105 5	\$83,000 \$60,000 \$28,000 \$80,000 \$80,000	CONT.A00 CONT.A10 CONT.A10 CONT.A15 CONT.A10 CONT.A35 CONT.A30 CONT.A35 CONT.A45	\$133,250 \$96,353 \$278,069 \$36,052 \$15,629 \$82,813 \$5,145 \$21,562 \$105,635 \$33,011 \$798,521	PCOMT AND PCOMT	90 S0	\$ \$42,000 \$379,000 \$ \$505,000 \$ \$505,000 \$ \$83,000 \$ \$280,000 \$ \$2
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Drive Pine Conductor Pipe Water String Surface County Surface County Surface County Intermediate Intermed	13 3/8" 10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	1200 12500 0 0 21951	\$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWF8.115 DWF8.140 DWF8.145 DWF8.155 DWF8.155 DWF8.150	\$10,000 \$43,000 \$379,000 \$10,000 \$10,000 \$10,000 \$10,000 \$451,000	DWIA.100 DWIA.105 DWIA.1153 DWIA.1153 DWIA.1153	\$10,000 \$10,00	STREAT, 101 STREAT, 105	\$83,000 \$60,000 \$28,000 \$80,000 \$80,000	CONT.400 CONT.410 CONT.415 CONT.415 CONT.425 CONT.425 CONT.435 CONT.445	\$133,250 \$96,353 \$278,069 \$36,052 \$15,629 \$82,813 \$5,145 \$21,562 \$105,635 \$33,011 \$798,521	PCOMTAB PCOMTAB PCOMTAB	90 S0	\$22,00 \$379,00 \$505,00 \$83,00 \$22,00 \$20,00 \$24,00 \$24,00 \$24,00 \$25,00

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

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

CASE NO.	
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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 Wolfcamp horizontal spacing unit underlying the E/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

- 1. Cimarex is an interest owner in the subject lands and has a right to drill wells thereon.
- 2. Cimarex seeks to dedicate the E/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico to form a 320-acre, more or less, spacing unit.
- 3. Cimarex plans to drill the **Dos Equis 12-13 Federal Com 47H** well to a depth sufficient to test the Wolfcamp formation. The Dos Equis 12-13 Com 47H well is a horizontal well with a surface location 255' FNL and 1600' FWL of Section 12 Township 24 South, Range 32 East, Lea County, and the intended bottom hole location is 100' FSL and 1980' FWL of Section 13, Township 24 South, Range 32 East, Lea County.
- 4. This well will be located within the Wildcat Wolfcamp pool and will comply with the Division's setback requirements.



- 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 well or to otherwise commit their interests to the well.
- 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.

WHEREFORE, this case is set for hearing before an Examiner of the Oil Conservation Division on March 7, 2019, Cimarex requests that, after notice and hearing as required by law, the Division enter its order:

- A. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the E/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico;
- B. Designating Cimarex as operator of this unit and the well to be drilled thereon;
- C. Authorizing Cimarex to recover its costs of drilling, equipping and completing this well;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;
- E. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted this 25th day of January, 2019.

MODRALL, SPERLING, ROEHL, HARRIS

& SISK, P.A.

Earl E. DeBrine

Zoe E. Lees Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 edebrine@modrall.com

zel@modrall.com

Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the E/2 W/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the Dos Equis 12-13 Federal Com 47H well, to be horizontally drilled. The producing area for this well will be orthodox. Also to be considered will be the cost of drilling and completing said well, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 26 miles southwest of Hobbs, New Mexico.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 993-6161 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 Bratos Road, Artec, NM 87410
Phone: (503) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (503) 476-3460 Fax: (505) 476-3460

Section 12 Township 24S Range 32E

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

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

☐ AMENDED REPORT

County

East/West line WEST

Feet from the 1600

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025	² Pool Code	Wildcat Wolfcamp	
4 Property Code		erty Name 13 FEDERAL COM	6 Well Number 47H
OGRID No. 215099		ster Name ENERGY CO.	9 Elevation 3608.0'

Surface Location

Feet from the 255

	"Bottom Hole Location If Different From Surface									
UL or lot no. N	UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/Vest line County N 13 24S 32E 100 SOUTH 1980 WEST LEA									
12 Dedicated Acre 320	es 13 J	oint or Infill	14 Conse	olidation Code	15 Order No.					

orth/South li NORTH

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.

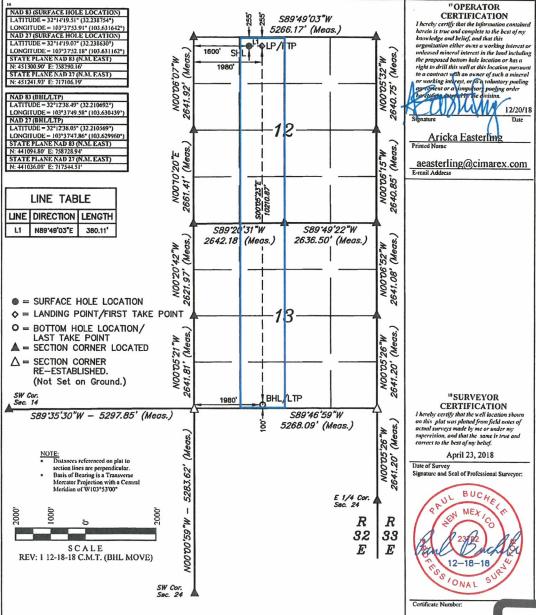
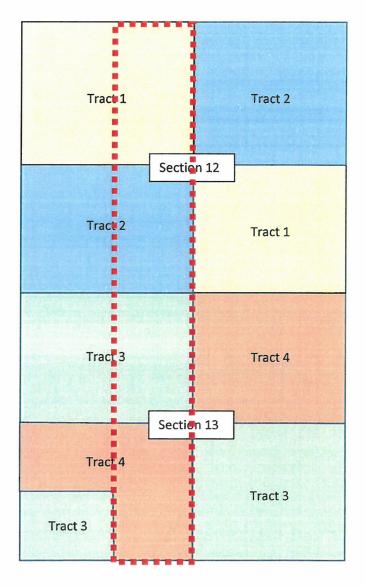


EXHIBIT
A2.47A

Dos Equis 12-13 Fed Com 47H

E/2 W/2 of Sections 12 & 13-24S-32E, Lea County, NM

Owner	Tract	Net	Working Interest Percentage	Force Pool Interest
MHPI	1	40	12.50%	no-participating
Chevron U.S.A. Inc.	1	40	12.50%	no-participating
Cimarex	2	70	21.88%	no-operator
COPC	2	10	3.13%	Yes
Devon	3	80	25.00%	Yes
Cimarex	4	80	25.00%	no-operator







December 19, 2018

Devon Energy Production Co., LP 333 W. Sheridan Ave Oklahoma City, OK 73102

Re:

Proposal to Drill

Dos Equis 12-13 Fed Com Wells

Sections 12 & 13, Township 24 South, Range 32 East

Lea County, NM

Dear Working Interest Owner,

Cimarex Energy Co. hereby proposes to drill the Dos Equis 12-13 Fed Com 1H, 8H, 3H, 47H, 5H, 73H, 6H & 86H wells at a legal location in Section 12, Township 24 South, Range 32 East, NMPM, Lea Co., NM.

<u>Dos Equis 12-13 Fed Com 1H</u> - The intended surface hole location for the well is 330' FNL and 370' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 8H</u> - The intended surface hole location for the well is 330' FNL and 350' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 13, Township 24'South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 3H</u> - The intended surface hole location for the well is 255' FNL and 1,620' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FWL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 47H</u> - The intended surface hole location for the well is 255' FNL and 1,600' FWL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FWL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 5H</u> - The intended surface hole location for the well is 360' FNL and 2,330' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.



<u>Dos Equis 12-13 Fed Com 73H</u> - The intended surface hole location for the well is 360' FNL and 2,310' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,980' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 6H</u> - The intended surface hole location for the well is 360' FNL and 1,410' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,600' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Dos Equis 12-13 Fed Com 86H</u> - The intended surface hole location for the well is 360' FNL and 1,390' FEL of Section 12, Township 24 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FEL of Section 13, Township 24 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,300' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

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 AFE reflecting estimated costs associated with this proposal, and; (ii) our proposed form of Operating Agreement to govern operations of the Dos Equis 12-13 Fed Com 1H well. If you intend to participate, please approve and return one (1) original of the enclosed AFE, one (1) original of the signature page to the Operating Agreement, along with the contact information to receive your well data, to the undersigned within thirty (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.

In the event you would prefer to lease your interest in lieu of participating in the proposed operation(s), we would be happy to make you a competitive offer to lease.

Please call the undersigned with any questions or comments.

Respectfully,

Cody Elliott 432.571.7806

ELECTION TO PARTICIPATE Dos Equis 12-13 Fed Com 1H

Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 1H
Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 1H
Dated this , 2018.
Signature:
Title:
If your election above is TO participate in the proposed Dos Equis 12-13 Fed Com 1H well, then:
Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 3H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 3H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 3H
Dated this day of	f, 2018.
Signature:	
Title:	
If your election above i	s TO participate in the proposed Dos Equis 12-13 Fed Com 3H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 5H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 5H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 5H
Dated this day of	, 2018.
Signature:	
Title:	
If your election above is	TO participate in the proposed Dos Equis 12-13 Fed Com 5H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 6H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 6H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 6H
Dated this day of	f, 2018.
Signature:	
Title:	
If your election above i	s TO participate in the proposed Dos Equis 12-13 Fed Com 6H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
-	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 8H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 8H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 8H
Dated this day of	·, 2018.
Signature:	
Title:	
If your election above is	s TO participate in the proposed Dos Equis 12-13 Fed Com 8H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 47H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 47H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 47H
Dated this day of	, 2018.
Signature:	
Title:	
f your election above is	TO participate in the proposed Dos Equis 12-13 Fed Com 47H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 73H

***************************************	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 73H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 73H
Dated this day of	f, 2018.
Signature:	
Title:	
If your election above i	s TO participate in the proposed Dos Equis 12-13 Fed Com 73H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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 Dos Equis 12-13 Fed Com 86H

	Devon Energy Production Co., LP elects TO participate in the proposed Dos Equis 12-13 Fed Com 86H
	Devon Energy Production Co., LP elects NOT to participate in the proposed Dos Equis 12-13 Fed Com 86H
Dated this day of	f, 2018.
Signature:	
Title:	
If your election above i	s TO participate in the proposed Dos Equis 12-13 Fed Com 86H well, then:
	Devon Energy Production Co., LP elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Devon Energy Production Co., LP 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.



Authorization For Expenditure

Company Entity									_		
CALADA MANAGERA (SANGARA)						Date Prepar			x passured Depth 21,951' erical Depth 12,300' and set casing iner. Stage Well Cost 000 199 ,199 000 529 529 529 7,728 by Operator so trol insurance, nt later than d by insurance trol and		
Cimarex Energy Co							Decembe	r 18, 2018			
Barley	Well Name		Prospect or Field t	lamo.	Property Number		Drilling	AEF NO			
Region			Prospect of Fleid	tame	Property Number		Diminis	AVE NO.			
PERMIAN	Dos Equis 12-13 Fed Com	47H									
1											
Estimate Type			County		State		Туре	Well			
E/2 W/2 of Section	oc 12 and 12-T245-R32F		1ea		NM	Oil	Х				
E/Z W/Z OI SECTION	13 12 8110 13-1243-N322					Gas		Prod			
		tea NM Oil X Sept 12 Esti-Smrt Date Esti-Comp Date Formation Type-Well 13 WOLFCAMP A The Measured 14 WOLFCAMP A The Measured 15 WOLFCAMP A The Measured 16 The Measured The Measured 17 The Measured The Measured 18 WOLFCAMP A The Measured 18 WOLFCAMP A The Measured 19 The Measured The Measured 10 The Measured The Measured 11 The Measured The Measured 12 The Measured The Measured 18 WOLFCAMP A The Measured 19 The Measured The Measured 10 The Measured The Measured 10 The Measured The Measured 11 The Measured The Measured 12 The Measured The Measured 13 The Measured The Measured 14 The Measured The Measured 15 The Measured The Measured 16 The Measured The Measured 17 The Measured The Measured 18 The Measured The Measured 19 The Measured The Measured 19 The Measured The Measured 10 The Measured The Measured 10 The Measured The Measured 11 The Measured The Measured 12 The Measured The Measured 12 The Measured The Measured 13 The Measured The Measured 14 The Measured The Measured 15 The Measured The Measured 16 The Measured The Measured 17 The Measured The Measured 18 The Measured The Measured 19 The Measured The Measured 10 The Measured The Measured 10 The Measured The Measured 11 The Measured The Measured 12 The Measured The Measured 12 The Measured The Measured 13 The Measured The Measured 14 The Measured The Measured 15 The Measured The Measured 16 The Measured The Measured The Measured 17 The Measured The Measured The Measured The Measured 18 The Measured The Me		7/130	- Tr						
	RMIAN Dos Equis 12-13 Fed Com 47H State Type Wall 1/2 of Sections 12 and 13-T245-R32E Lea NM Oil X Expl 2 Sate Type Bi-Start Date Est. Comp Date Formation Til Measured Dr. 121,951 Til Vertical Date Estimate WOLFCAMP A Til Vertical Date Permental Estimate Wolfcamp Initial build rate to +/- 75 degrees and set care 12399' MD. Finish curve at +/- 37/100' to +/- 12300' TVD and drill a +/- 9050' long lateral in the Wolfcamp formation. Run and cement production liner. Stage rill out plugs. Run production packer, tubing and GLVs. Dry Hole Cost After Casing Point Completed Well Cost S3,508,000 Setion Costs S3,508,000 S7,319,199 S7,319,199 Dites S3,508,000 S7,319,199 S7,319,199 Dites S451,000 S786,000 S7,319,199 S10,827,199 Dites S451,000 S786,000 S7,329,199 S10,827,199 Dites S451,000 S786,000 S7,329,199 S2,205,529 Intendible Well Cost S4,539,500 S1,237,000 Well Cost S3,599,000 S8,903,728 S12,862,728				9)(1)						
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Region Well Name Prospect or Field Name Property Number Drilling AFE No. PERMIAN Dos Equis 12-13 Fed Com 47H Similar Type County State Type Well Estimate Type County State Type Well Estimate Type For Annual 13-T245-R32E Lea NM Oil X Expl X Gas Prod Satimate Type Fit Start Date Fit Comp Date Formation Tit Measured Deploying International Estimate VOLFCAMP A Tit Vertical Deploying International Estimate Supplemental Estimate Wolfcamp Afe No. Tit Measured Deploying International Estimate VOLFCAMP A Tit Vertical Deploying International Estimate Drilli and complete a horizontal test. Drill to 1200', set water string casing, Drill to 11774' (KOP). Drill curve at 12'/100' initial build rate to +/- 75 degrees and set casing the frac Drilling Costs (After Casing Point Completed Well Cost Satisface) Intangibles Dry Hole Cost After Casing Point Completed Well Cost Drilling Costs Satisface (Completion Costs Satisface) Satisface Satisfa		E PORT									
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Dlug and Ahandan	Cost		\$0		l so			\$O			
riog and Abandon	COST		70		1						
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			13 A 19 M			10000	BCP - Drilling		ACP - Drilling	Completion /		Production Equipment/	1	Post Completion	Total W
ntangibles						Godet.	(Dry Hole Cost)	Codes	Codes	Stimulation		Equipment / Construction	Cedts	completion	Cost
	Preparation / Restora	etion				DIDC.100	\$100,000	111111	/////// STIM.100	\$3,000	CON 100	\$19,875	PCOM.100	540,000	\$16
amages	,		-			DIDC.105	\$10,000				CON.105	\$8,859	11111111		\$1
Aud / Fluids Dispo	osal Charges					DIDC.255	\$160,000		5TIM.255	\$53,000			PCOM.255	\$255,500	\$46
Day Rate	29.00 DH Days	4.00 ACP Days 6		525,000	Pet Day	DIDC.115	\$750,000	DICC. 120	\$100,000				94444		\$85
Misc Preparation	Cast (mouse hale, rat	hole, pads, pile clusters	s, misc.)			DIDC. 170	\$50,000				4444	<i>4444444</i>			\$5
lits						DIDC.125		DICC.125	\$0 \$11M.125	\$0	4444	<i>}}}}}</i>	PCOM.125		\$15
uel		Per Gallon	1,150	Gallons Per L	kry	DIDC.135	\$117,000		\$0//////		4444	************	PCOM.130 PCOM.135		511
	Rig / Completion Fluid	ds (Nat Frac Water)				DIDC.140	\$5,000	DICC.135	\$0 STIM.135			<i>!!!!!!!!!!</i>			52
Aud & Additives			d1.000	0 0 000		DIDC,145		DICT MO	\$0 STIM.140	5189,000					\$35 \$47
urface Rentals			53,000	Per Day 18CP		DIDC.150	\$117,000 \$178,000		501 STIM.145	\$189,000	77777		PCOM 145		\$17
Downhole Rentals	No. (DET Connected	iding evaluation, G&G !	Caminas (DIDC.160	\$0		STIMULES	SO	4HH	<i>99999999</i>	7/////		241
Mud Logging	tion (US), Coring incu		Days 63	\$1.200	Per Day	DIDC.170	536,000		HHHHhmin	JIIIIIII	HHH)		*********		\$3
Open Hale Loggin	10	23.73	During	70,100	7.11.04)	DIDC 180			9//////////////////////////////////////		//////		//////		
ementing & Floa				***************************************		DIDC.185	\$190,000		5100,000		//////				\$29
Tubular Inspections						DIDC.190	\$50,000		\$8,000 STIM.160	\$4,000			PCOM.160	50	\$6
Casing Crews						DIDC, 195	\$22,000		\$15,000 STIM.165					SIIIIIII	\$3
Extra Labor, Welding, Etc.					DIDC 200	520,000		\$3,000 STIM.170	50	CON.170		PC0M.170		\$26	
Land Transparation (Trucking for tangibles)					DIDC.205	\$30,000		\$8,000 STIM.175		CON. 175		PCOM.175		\$5	
upervision			\$4,000		Per Day	DIDC.210	5140,000	DICCABO	516,000 STIM,180	\$74,000	CON.180	\$7,625	PCOM.180	SO	\$23
railer House / Ca	imp / Catering		\$1,000.00	Per l	lay	DIDC.280	\$39,000	DICC.255	\$4,000 STIM.280	\$37,000	//////	9//////////	///////	MIIIIII	SI
ther Misc Expens	ses					DIDC.220	\$5,000	DICC.190	\$0 STIM.190		CON. 190	\$7,500	PCOM.190	50	\$1
Overhead						DIDC.225	\$5,000		\$5,000						s:
Remedial Cements	ing					DIDC.231	\$0	//////	STIM.215	50			PCOM.215	50	
MOB/DEMOB						DIDC.240	\$150,000								\$1!
Directional Drilling	g Services					DIDC.245	\$434,000								\$4
rane for Construc											CON.230		111111		
iolids Control						DIDC.250	\$99,000	1/////							\$1
Well Control Equip	p (Snubbing Svcs.)					0100,265	\$116,000	DICC.240	\$0 STIM.240	\$161,000			PCDM.240		\$27
ishing & Sidetrac						DIDC.270	50	DICC.245	\$0 STIM.245	\$0			PCOM.245		
ompletion Rig									STIM.115	521,000			PCDM.115		5
Coil Tubing									518M,260	\$368,000			PCOM.260		
	ng, Perforating, WL U	nits, WL Surveys				111111			5TtM.200	\$436,000			PCOM.200		
Composite Plugs						1111111			STRM.390	\$108,000	/////		PCOM.390		\$10
Stimulation Pumping Charges, Chemicals, Additives, Sand					111111	944444	4444	STBM.210	\$3,182,000	/////		PCOM.210	SO	\$3,11	
Stimulation Water	r / Water Transfer / W	Vater Storage				111111	///////////////////////////////////////	44444	5TIM.395	5964,000	444	<i>XXXXXXXXX</i>	<i>111111</i>		\$90
	roc / Rental Equipmen	ıt						<i>Y</i> //////	STIM.305	50			4444	XIIIIII	
Legal / Regulatory						DIDC,300	\$10,000		<i>}}}} } } }</i>	4///////	CDNL300	\$781	//////	444444	
Well Control Insur		\$0.35 Per Fact				DIDC.285	\$8,000 \$167,000							\$33.420	
Contingency	5.0	% of Drilling Intangible	75			DIDC.435	5167,000	DICC.220	\$13,000 \$1114.220	\$285,000	CON.220	\$115,092	PCOM-220	MILLIAN	\$6 \$1
Construction For F Construction For S						4444	<i>#####</i>	YHH	<i>#####################################</i>	444444	CON.310			94HHH	31.
Total Intangible C	ort .					111111	\$3,508,000		\$272,000	\$6,014,000	CONTRACTOR	\$467,479	111111	\$\$65,720	\$10,8
total intuiting total	and the second second second second	Make the same and the same and the	INCOMPRESENTATION OF THE PARTY	NATIONAL PROPERTY OF	VICENCIA DE LA CONTRACTORIO	NO.	33,300,000	THE REAL PROPERTY AND ADDRESS OF THE PERTY	3272,000	30,014,000		7107713	***************************************	5303,710	710,00
langible - Well Ed	Diament.	(ACCOUNT OF THE		CONTRACTOR			SHEET COMMENTS OF			ACCRESSION NAMED IN	1000100	TO STATE OF THE PARTY OF THE PA	CONTRACTOR OF THE PARTY OF THE	District Control	
asing	THE STATE OF THE S		Size	Feet	S/Foot	111111		777777		mmm	77/1/1	1111111111	777777	TTTTTTTTT	111111
Drive Pipe														7/////////	
			0	0	50.00	DWEB 150				444444			<i>####</i>	<i>44444</i>	
			0	0	\$0.00	DWEB.150	\$0 \$0								
Conductor Pipe			0 13 3/8"		\$0.00 \$0.00 \$42.00	DWEB.130	\$0 \$0								
Conductor Pipe Water String			0 13 3/8" 10 3/4"	0	\$42.00	DWEB.130	\$0 \$0								S
Conductor Pipe Water String Surface Casing	ing I		0 13 3/8" 10 3/4" 7 5/8"	0	\$42.00 \$42.00 \$35.00	DWEB.130	\$0 \$0								
Conductor Pipe Water String Surface Casing Intermediate Casi			10 3/4"	0 0 1200	\$42.00 \$42.00 \$35.00 \$30.00 \$0.00	DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.155	\$0 \$0 \$0 \$42,000								
Conductor Pipe Water String Surface Casing Intermediate Casi Intermediate Casi			10 3/4" 7 5/8"	0 0 1700 12500	\$42.00 \$42.00 \$35.00 \$30.00	DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.155	\$0 \$0 \$0 \$42,000 \$379,000								
Conductor Pipe Water String Surface Casing Intermediate Casin Intermediate Casin Drilling Liner	ing 2		10 3/4" 7 5/8"	0 0 1200 12500 0	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00	DWEB.130 DWEB.140 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000								\$3
Conductor Pipe Water String Surface Casing Intermediate Casin Intermediate Casin Drilling Liner Production Casing	ng 2 g or Liner		10 3/4" 7 5/R" 0	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.130 DWEB.140 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000			\$0					\$3
Conductor Pipe Water String Surface Casing Intermediate Casin Intermediate Casin Orilling Liner Production Casing Production Tie-Ba	ng 2 g or Liner		10 3/4" 7 5/R" 0	0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWEB.130 DWEB.140 DWEB.145 DWEB.155 DWEB.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0	DWIA MO	\$505,000 \$0 STIMT,101	50 5083.582			PCOMT.10		\$3
Conductor Pipe Water String Surface Casing Intermediate Casin Intermediate Interme	ing 2 g or Liner ick hokes		10 3/4" 7 5/R" 0 0 5.5" x 5" 0	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 STIMT,101				PCOMT.100		\$3 \$5 \$
Conductor Pipe Water String Surface Casing Intermediate Casin Unitermediate Casin Orilling Liner Production Casing Production Tie-Bai Tubing Wellhead, Tree, Cl Liner Hanger, Isola	ing 2 g or Liner ick hokes		10 3/4" 7 5/R" 0 0 5.5" x 5" 0	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWE8.130 DWE8.140 DWE8.145 DWE8.145 DWE8.155 DWE8.160	\$0 \$0 \$0 \$42,000 \$379,000 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TIMIT,101 \$10MT,105 \$30,000 \$10MT,120 \$0	\$83,000 \$60,000				50	\$3 \$5 \$ \$1
Conductor Pipe Water String Surface Casing Intermediate Casin Intermediate Casin Production Casing Production To-Ban Gubing Wellhead, Tree, Cl Juner Hanger, Bolt Packer, Nipples	ing Z g or Liner ick hokes ation Packer		10 3/4" 7 5/R" 0 0 5.5" x 5" 0	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$05,000 \$0 \$TIMT.101 \$TIMT.105 \$30,000 \$TIMT.120 \$0 \$TIMT.400	\$83,000 \$60,000 \$28,000			PCOMT ACC	50 50	\$3 \$5 \$1
Conductor Pipe Water String isurface Casing intermediate Casin Intermediate Casin Intermediate Casin Intermediate Casing Production Tie-Ban Urbing Wellhead, Tree, Cl uner Hanger, Boll Packer, Nipples Irumping Unit, Eng	ing 2 g or Liner ock hokes ation Packer		10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0			PCOMT.400	5 50 5 50 5 50 5 50	\$3 \$5 \$1 \$1
Conductor Pipe Water String Surface Casing Intermediate Casin Orilling Liner Production Tie-Bo Urbing Wellhead, Tree, Cl uner Hanger, Bolt Packer, Nipples Dumping Unit, Lin Dumping Unit, Lin Downhale Lift Equ	ing 2 g or Liner ock hokes ation Packer gine upment (BHP, Rods, A	nchers, ESP, GVLs, PC P	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$05,000 \$0 \$TIMT.101 \$TIMT.105 \$30,000 \$TIMT.120 \$0 \$TIMT.400	\$83,000 \$60,000 \$28,000			PCOMT ACC	5 50 5 50 5 50 5 50	\$3 \$5 \$1 \$1
Conductor Pipe Water String surface Casing Intermediate Casin Intermediate Casin Orilling Liner Production Tic-Bai Usbing Production Tic-Bai Usbing Wellhead, Tree, Cl uner Hanger, Isola Packer, Nipples Packer, Nipples Packer, Nipples Packer, Nipples Packer, Nipples	ing 2 g or Liner ick hokes ation Packer gine gine ingment (BHP, Rods, A cuipment		10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0			PCOMT.AN	5 50 5 50 5 50 5 50	\$31 \$54 \$1 \$1 \$1
Conductor Pipe Water String wirface Casing Intermediate Casin Intermediate Casin Intermediate Casin Intermediate Casin Production Tic-Bai Wellhead, Tree, Cl uner Hanger, Boll Packer, Nipples Pumping Unit, Eng Downhole Lift Equipm WC Lease Equipm	ing 2 g or Liner ick hokes otion Packer gine gine gine Culpintent culpintent teet		10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT. AND	\$133.250	PCOMT AND PCOMT AND	5 50 5 50 5 50 5 50	\$31 \$54 \$12 \$12 \$13
Conductor Pipe Water String Water String Intermediate Casis Intermediate	ing 2 g or Liner ck hokes otion Packer gine upment (BHP, Rods, A. Guijament tent s, Stairs	nchors, ESP, GVLs, PC P	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400	\$95,353	PCOMI AND PCOMI AND	5 50 5 50 5 50 5 50	\$31 \$51 \$12 \$12 \$11 \$11 \$11
Conductor Pipe Water String Water String Water String Intermediate Casin Intermediate Interme	ing 2 g or Liner ick hokes ation Packer gine gine kupment (BHP, Rods, A kupment ment iest is, Stairs		10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.410	\$95,353 \$278,065	PCOMT.AN	5 50 5 50 5 50 5 50	\$31 \$55 \$12 \$12 \$13 \$13 \$13 \$13 \$13 \$13 \$13
Conductor Pipe Water String Water	ng 2 g or Liner vck hokes otten Facker gine upment (BHP, Rods, A. Cquipins sit enest s, Stoirs reater, Separator, Gos	nchers, ESP, GVLs, PC P	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.410 CONT.415	\$95,353 \$278,065 \$26,063	PCOMT.AN	5 50 5 50 5 50 5 50	\$31 \$55 \$12 \$12 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13
Conductor Pipe Water String Surface Costing Intermediate Costs Drilling Liner Production Tice Band Tubing Production Tice Band Tubing Production Tice Band Tubing Packer, Nigola Packer, N	ing 2 gor Liner eck hokes totion Packer gine uipment (BHP), Rods. A Collifianti tenet s., Sairis reater, Separator, Gor aments	nchers, ESP, GVLs, PC P	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.415 CONT.415 CONT.415	\$95,353 \$278,065 \$26,053 \$15,629	PCOMI AND PCOMI AND	5 50 5 50 5 50 5 50	\$31 \$54 \$12 \$12 \$13 \$13 \$14 \$15 \$21 \$21 \$21 \$21 \$21 \$21 \$21 \$21 \$21 \$21
Conductor Pipe Water String Surface Casing Surface Casing Intermediate Casi Drilling Liner Production Tie-Ba Rubing Welihead, Tree, Cf Liner Hanger, Hole Pocker, Napple Unit, Eng Downhole Life Surface Downhole Life Surface Life String String Links Step Sattery Fleater Ir. Secondary Contains Overhead Power. Li Facility Electroal &	ing 2 gor Liner eck hokes totion Packer gine uipment (BHP), Rods. A Collifianti tenet s., Sairis reater, Separator, Gor aments	nchers, ESP, GVLs, PC P	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.415 CONT.415 CONT.415 CONT.425	\$96,353 \$278,065 \$26,063 \$15,629 \$82,813	PCOMI AND PCOMI AND	5 50 5 50 5 50 5 50	\$31 \$54 \$12 \$12 \$13 \$13 \$13 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15
Conductor Piper Water String Surface Caring Intermediate Casin Intermediate Intermedia	ng 2 gor Liner kk k hokes atton Packer gine gine (BHP, Rods, A Gulfmant enert s, Stoirs enert, Separator, Gos mments boxthouton felectric lin k Automation	nchors, ESP, GVLs. PC P Treating Equipment) ne to fasility)	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.415 CONT.415 CONT.415 CONT.425 CONT.425 CONT.425	\$95,353 \$278,055 \$26,053 \$15,625 \$82,813 \$5,145	PCOMT AND PCOMM	5 50 5 50 5 50 5 50	\$3 \$55 \$1 \$1 \$5 \$2 \$2 \$5 \$5
Conductor Piper Water String Surface Coning Surface	ing 2 gor Liner eck hokes totion Packer gine uipment (BHP), Rods. A Collifianti tenet s., Sairis reater, Separator, Gor aments	nchors, ESP, GVLs. PC P Treating Equipment) ne to fasility)	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.415 CONT.415 CONT.425 CONT.425 CONT.425 CONT.425 CONT.426	\$95,351 \$278,055 \$26,053 \$15,625 \$82,813 \$5,145 \$21,563	PCOMI AND PCOMI AND PCOMI AT	5 50 5 50 5 50 5 50	\$12 \$12 \$27 \$27 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2
Conductor Piper Water String undrace Cotion netermediate Cosis netermediate volution netermediate netermedia	ing 2 por Liner rk rk hokes totion Packer gine gine (BHP, Rods, A Guijament seet, Separator, Gen moment seet, Separator, Gen moment seet A homomomomomomomomomomomomomomomomomomom	nchors, ESP, GVLs. PC P Treating Equipment) ne to fasility)	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	BWEA 300 DWEA 165	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.415 CONT.415 CONT.425 CONT.425 CONT.435 CONT.435 CONT.435 CONT.435	\$95,351 \$278,055 \$26,053 \$15,625 \$82,813 \$5,145 \$21,563 \$105,635	PCOMT AND PCOMT AND	5 50 5 50 5 50 5 50	\$3 \$55 \$1. \$5. \$5. \$5. \$5. \$5. \$5. \$5. \$5. \$5. \$5
Conductor Piper Water String Surface Conting Intermediate Intermed	ing 2 por Liner rk rk hokes totion Packer gine gine (BHP, Rods, A Guijament seet, Separator, Gen moment seet, Separator, Gen moment seet A homomomomomomomomomomomomomomomomomomom	nchors, ESP, GVLs. PC P Treating Equipment) ne to fasility)	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0,500 \$50 \$50 \$52,000 \$377,000 \$00 \$380,000 \$380,000	EWIA 100 EWIA 100 EWIA 100 EWIA 125	\$50,000 STRMT,100 \$50,000 STRMT,100 \$50,000 STRMT,100 \$50,000 STRMT,100 \$50,000 STRMT,100 \$10,000 STRMT,100 \$10,000 STRMT,100 \$10,000 STRMT,100	\$83,000 \$60,000 \$28,000 \$0 \$80,000	CONT.400 CONT.415 CONT.415 CONT.425 CONT.425 CONT.425 CONT.425 CONT.426	\$95,353 \$278,055 \$26,053 \$15,625 \$82,813 \$5,145 \$21,563 \$105,635 \$33,013	PCOMT AND PCOMT AND PCOMT ATO	3 90 90 50 9 50 9 50	\$3 \$5 \$1 \$ \$ \$ \$1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
onductor Piper vater String under Cotion of vater String under Cotion of termediate Cost in the termediate Cost in	ing 2 por Liner rk rk hokes totion Packer gine gine (BHP, Rods, A Guijament seet, Separator, Gen moment seet, Separator, Gen moment seet A homomomomomomomomomomomomomomomomomomom	nchors, ESP, GVLs. PC P Treating Equipment) ne to fasility)	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0 \$0 \$42,000 \$379,000 \$0 \$0 \$0	EWIA 100 EWIA 100 EWIA 100 EWIA 125	\$505,000 \$0 \$TRMT.101 \$104T.105 \$30,000 \$TRMT.100 \$50 \$104T.100 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$83,000 \$60,000 \$28,000 \$0	CONT.400 CONT.405 CONT.415 CONT.415 CONT.425 CONT.425 CONT.435 CONT.435 CONT.435 CONT.435	\$95,351 \$278,055 \$26,053 \$15,625 \$82,813 \$5,145 \$21,563 \$105,635	PCOMT AND PCOMT AND PCOMT ATO	5 50 5 50 5 50 5 50	\$3 \$5 \$1 \$1 \$5 \$2 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
onductor Pipe visite String unface Casing states String unface Casing stermediate Casing stermediate Casing stiffing Liner orderstand Casing Casing withing Liner orderstand Casing string collection of Casing with Casing collection of Casing casing	ing 2 por Liner rk rk hokes totion Packer gine gine (BHP, Rods, A Guijament seet, Separator, Gen moment seet, Separator, Gen moment seet A homomomomomomomomomomomomomomomomomomom	nchors, ESP, GVLs. PC P Treating Equipment) ne to fasility)	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWIR.130 DWIR.145 DWIR.145 DWIR.145 DWIR.145 DWIR.150 DWIR.150	\$0,000 \$0	EWIA 100 DWIA 100 DWIA 100 DWIA 125	\$500,000 \$50 \$11041,100 \$51,000 \$100,000 \$11041,100 \$11041,400 \$11041,400 \$11041,400 \$11041,400 \$11041,400	\$85,000 \$60,000 \$28,000 \$28,000 \$80,000	CONT.400 CONT.415 CONT.415 CONT.415 CONT.430 CONT.430 CONT.430 CONT.430 CONT.445	\$95,353 \$278,055 \$26,053 \$15,625 \$22,813 \$5,145 \$21,563 \$105,635 \$33,013 \$798,525	PCOMT AND PCOMT AND	50	\$3 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
anduster Pipe arter String unface Costing termediate Costing Control Costing Code Costing Cost	ing 2 por Liner rk rk hokes totion Packer gine gine (BHP, Rods, A Guijament seet, Separator, Gen moment seet, Separator, Gen moment seet A homomomomomomomomomomomomomomomomomomom	nchors, ESP, GVLs. PC P Treating Equipment) ne to fasility)	10 3/4" 7 5/8" 0 0 5.5" x 5" 0 2 7/8"	0 0 1200 12500 0 0 21951	\$0.00 \$42.00 \$35.00 \$30.00 \$0.00 \$0.00 \$23.00 \$0.00	DWER.130 DWER.140 DWER.145 DWER.145 DWER.145 DWER.160	\$0,000 \$0	EWIA 100 EWIA 100 EWIA 100 EWIA 125	\$500,000 \$50 \$11041,100 \$51,000 \$100,000 \$11041,100 \$11041,400 \$11041,400 \$11041,400 \$11041,400 \$11041,400	\$85,000 \$60,000 \$28,000 \$28,000 \$80,000	CONT.400 CONT.415 CONT.415 CONT.415 CONT.430 CONT.430 CONT.430 CONT.430 CONT.445	\$95,353 \$278,055 \$26,053 \$15,625 \$82,813 \$5,145 \$21,563 \$105,635 \$33,013	PCOMT AND PCOMT AND	50	\$3 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5



Authorization For Expenditure

Company Entity							Date Prepa	_	40.2040			
Cimarex Energy C	:0			l				Decemb	er 18, 2018			
Region		Well Name		Prospect or Field	Name	Property Number		Drillin	AFE No.			
PERMIAN	Dos Equi	s 12-13 Fed Com 4	17H									
Estimate Type				County	CONTRACTOR	State		Type Well				
E/2 W/2 of Section	ons 12 and 13-T2	4S-R32E		Lea	Oil Gas	X	Expl Prod	x				
				2								
Original Estimate		×		est.Start Date	E	st. Comp Date	Forn	ation	21	ured Depth ,951'		
Revised Estimate Supplemental Est	imate						WOLF	CAMP A		,300'		
Project Description		st. Drill to 1200', se	et water str	ing casing. Drill to 1177	4' (KOP). Dri	Il curve at 12°/100' in	itial build rat	e to +/- 75	degrees and	set casing		
				and drill a +/- 9050' lon								
frac.Drill out plugs. Run production packer, tubing and GLVs.												
				b - 4: 1 (1 (
Intangibles				Dry Hole Co	st	After Casing	Point	Cor	npleted We	II Cost		
Drilling Costs				\$3,508,000					\$3,508,00	0		
Completion Costs Total Intangible C		· · · · · · · · · · · · · · · · · · ·		\$3,508,000		\$7,319,1 \$7,319 ,1			\$7,319,19			
				<i>\$3,300,000</i>		1,520,10			, ,,,,,,,,			
Tangibles Well Equipment				\$451,000		\$786,00	0	T :	\$1,237,00	10		
Lease Equipment						\$798,52			\$798,529			
Total Tangible W	ell Cost			\$451,000		\$1,584,5	29		\$2,035,52	9		
Plug and Abando	n Cost			\$0		\$0			\$0			
Total Well Cost				\$3,959,000)	\$8,903,7	\$8,903,728			28		
Comments on We												
Well Control insu	venac											
Unless otherwise long as Operator you must provide	indicated below conducts operati a certificate of s of drilling operati	ions hereunder ar such insurance acc	nd to pay yo ceptable to	rking interest owner, ag our prorated share of the Operator, as to form all o provide the certificat	ne premium: nd limits, at	therefore. If you ele the time this AFE is re	ect to purchase eturned, if ava	e your owr silable, but	in no event	ol insurance, later than		
i elect	to purchase my o	own well control i	nsurance p	olicy.								
		0.0	18 O	other terms, for \$20,0 ling (through completion				overage for	well contro	ol and		
Marketing Election	Offi								40000			
Cimarex sells its g volumes delivere request to Cimar	gas under arm's-l d over time. Sho ex's Marketing De	ould you choose to epartment, we wi	market yo Il share witi	rty purchasers. Such c ur share of gas with Cir h you the terms and co under the terms and co	narex, you v nditions pur	vill be subject to all o suant to which gas w	f the terms of	such contr	acts. Upon	written		
l elect	to take my gas in	kind.										
. I elect	to market my ga	s with Cimarex pu	ursuant to t	he terms and condition	ns of its con	tract.						
without affecting	are estimates only the authorization	n for expenditure	herein gra	operations without an nted. By approval of th at operating agreement	is AFE, the	working interest own	er agrees to p	ay its prop	ortionate sh			
					_							
Prepared by			Dellinean	Cimarex Energy	-	AND DESCRIPTIONS OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	UVlanager	7345500				
and parently			Croning all	and a manufacture of the second secon		Wellowe	onennaget					
				Joint Interes	t Approva							
Company			Ву			Date						



\$3,000 (ay	DIDC.100 DIDC.105 DIDC.255 DIDC.115 DIDC.120 DIDC.125 DIDC.125 DIDC.125 DIDC.125 DIDC.135	\$750,000 \$50,000 \$150,000	DICC.120	\$100,000	STIMA.300 STIMA.200	Simulation / Stimulation \$3,000 \$53,000	CON. 100 CON. 105	Broduction Equipment/ Construction \$19,875 \$8,859	PCOM.100 PCOM.255	SHALLIAN.	\$162,8 \$18,8 \$18,8
1,150 s	Gallons Per Di Per Day (BCP)	ay	DIDC.105 DIDC.255 DIDC.115 DIDC.120 DIDC.125 DIDC.135 DIDC.140	\$10,000 \$160,000 \$750,000 \$50,000 \$150,000	DICC.120	\$100,000	STIM.255			\$19,875		SHALLIAN.	\$18,8
1,150 s	Gallons Per Di Per Day (BCP)	ay	DIDC.255 DIDC.115 DIDC.120 DIDC.125 DIDC.135 DIDC.140	\$160,000 \$750,000 \$50,000 \$150,000	DICC.120	\$100,000	STIM.255	\$53,000	COH. 105	\$8.859			
1,150 s	Gallons Per Di Per Day (BCP)	ay	DIDC.135 DIDC.120 DIDC.125 DIDC.135 DIDC.140	\$750,000 \$50,000 \$150,000	DICC.120	\$100,000	STIM.255	\$53,000	4444	4444444	PCOM.255	\$255,500	\$468,
1,150 s	Gallons Per Di Per Day (BCP)	ay	DIDC.120 DIDC.125 DIDC.135 DIDC.140	\$50,000 \$150,000	DICC.120	\$100,000							
1,150 s	Per Day (BCP)		DIDC.125 DIDC.135 DIDC.140	\$150,000	11////		4444		4444	4444444	HHH	WWW)	\$850,
\$3,000 (Per Day (BCP)		DIDC.135 DIDC.140						44440	<i>}}}}}</i>			\$50,
\$3,000 (Per Day (BCP)		DIDC.140				STIM.125	\$0		<i>}}}}}</i>	PCOM.125	\$0 \$0	\$150, \$117.
rvices)					DICC.130				ann a	<i>#####</i>	PCOM.130	\$0	\$29,
rvices)			DIDC.145	\$5,000 \$350,000		50	STIM.135	\$24,000	HHH	<i>9999999</i>	WWW.13S		\$350,
rvices)		Surface Rentals S3,000 Per Day (BCP)					STIM.140	\$189,000	CON,140	\$1,900	PCOM.140		\$477,
			DIDC.150	5178,000	DKC.140	mininininininininininininininininininin	STBM.145	5287,000	THE THE	minimin .	PCOM.145	50	\$178,
	Formation Evaluation (DST, Caring including evaluation, G&G Services)					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$18M.145	50	HHH	HHHHH	min	mmin	31/0
Duys es	Mud Lagging 25.75 Days @ \$1,200 Per Day							mmin	HHH	anninin in a sa a sa a sa a sa a sa a sa			\$36,
	31,200	reibuy	DIDC.170	\$36,000 \$0		MHHHH							
			DIDC.185	\$190,000		\$100,000			HHIM	<i>9111111111111111111111111111111111111</i>	Milli		\$290
_			DIDC.190	\$50,000			STIM. 160	54,000	HHH		PCDM_160	\$0	\$62
Tubular Inspections Casing Crews						\$15,000							\$37
			DIDC.195	\$22,000 \$20,000		\$3,000			CON.170		PCOM.170		\$267
			DIDC.205	\$30,000		\$8,000	STMA.175	\$4,000			PCOM.175		\$59
\$4,000		Per Day	DIDC.210	\$140,000		\$16,000			CON.180		PCDM.180	50	\$237
\$1,000.00	Per D		DIDC 280	\$39,000		\$4,000			11111111		(1111111		\$80
	, 27 0		DIDC.220	\$5,000		50		\$100,000			PCOM.190		\$112
			DIDC.225	\$5,000		\$5,000		VIIIIIIII	111111			XIIIIIIIII	\$10
					111111	SIIIIIIII	518M.215	\$0			PCOM.215	50	
							111111				111111	XIIIIIIII	\$150
			DIDC.245	\$434,000			111111						\$434
			1111111						CON.230				
									111111			XIIIIIIII)	\$99
						SO.	STIM.240	5161,000			PCOM.240	\$D	\$277
			DIDC.270	SO				50			PCOM.245	50	
			1111111		VIIIII	XIIIIII	STIM.115	521,000			PCOM.115	\$0	\$21
					1111111		\$11M.260	\$368,000			PCOM.260		\$368
			1111111				5TIM.200	\$436,000			PCOM.200	\$0	\$436
						V////////	STIM.390	\$108,000			PCOM.390	\$0	\$108
							STIM.210				PCOM.21D	\$0	\$3,182
						XIIIIIII	STIM.395	\$964,000					\$964
					1111111		STIM.305	50					
			DIDC.300	\$10,000		MIIIIIIIII	///////		CON 300	\$781			\$10
			DIDC.285	\$8,000		<i>\$111111111</i>						XIIIIIIIII).	\$8
			DIDC.435			\$13,000	STBM.220	\$285,000	CON 220	\$115,092	PC0M.220	\$33,420	\$614
					MILLINE	XIIIIIIIII	MANA		CON.310	\$111,347		XIIIIIII	\$111
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STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

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

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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 Wolfcamp horizontal spacing unit underlying the W/2 E/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

- 1. Cimarex is an interest owner in the subject lands and has a right to drill wells thereon.
- 2. Cimarex seeks to dedicate the W/2 E/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico to form a 320-acre, more or less, spacing unit.
- 3. Cimarex plans to drill the **Dos Equis 12-13 Federal Com 73H** well to a depth sufficient to test the Wolfcamp formation. The Dos Equis 12-13 Com 73H well is a horizontal well with a surface location 360' FNL and 2350' FEL of Section 12 Township 24 South, Range 32 East, Lea County, and the intended bottom hole location is 100' FSL and 1980' FEL of Section 13, Township 24 South, Range 32 East, Lea County.
- 4. This well will be located within the Wildcat Wolfcamp pool and will comply with the Division's setback requirements.



- 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 well or to otherwise commit their interests to the well.
- 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.

WHEREFORE, this case is set for hearing before an Examiner of the Oil Conservation Division on March 7, 2019, Cimarex requests that, after notice and hearing as required by law, the Division enter its order:

- A. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the W/2 E/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico;
- B. Designating Cimarex as operator of this unit and the well to be drilled thereon;
- C. Authorizing Cimarex to recover its costs of drilling, equipping and completing this well;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;
- E. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted this 25th day of January, 2019.

MODRALL, SPERLING, ROEHL, HARRIS

& SISK, P.A.

By:_

Earl E. DeBrine Zoe E. Lees

Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 edebrine@modrall.com

zel@modrall.com

Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 E/2 of Sections 12 and 13, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the Dos Equis 12-13 Federal Com 73H well, to be horizontally drilled. The producing area for this well will be orthodox. Also to be considered will be the cost of drilling and completing said well, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 26 miles southwest of Hobbs, New Mexico.

District I 1623 N. French Dr., Hobbs, NM 88240 Phone: (373) 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: (503) 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. Santa Fe, NM 87505

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

■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025	² Pool Code	Wildcat Wolfcamp	
Property Code	DOS EQUIS 12-	6 Well Number 73H	
10GRID №. 215099	* Operator Name CIMAREX ENERGY CO.		9 Elevation 3604.0

ULer let no. | Section | Township | Range | Let Ide | Section the | North Sec

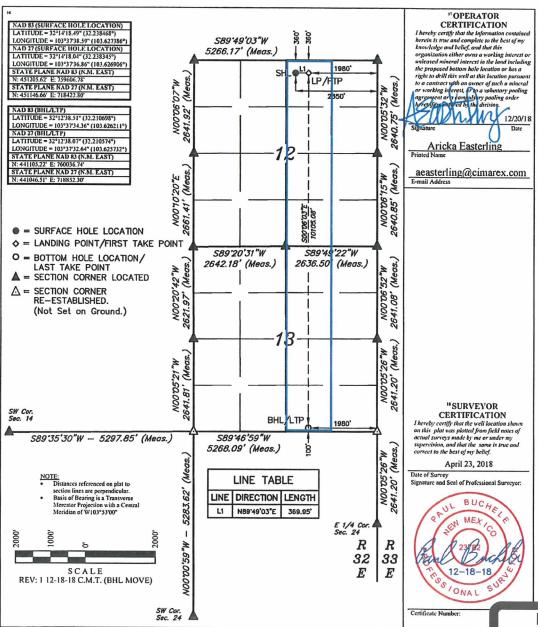
В	12	24S	32Ë		360	NORTH	2350	EAST	LEA	ı
			u	Bottom H	ole Location I	f Different From	Surface			•

Fred Corner Alex

UI. or lot no. O 13 24S 32E Lot Idn Feet from the NorthSouth line Feet from the East/West line County

Dedicated Acres 320 U Joint or Infill Consolidation Code U Order No. 320 U Order No. 32

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.



A2.73H

Dos Equis 12-13 Fed Com 73H

W/2 E/2 of Sections 12 & 13-24S-32E, Lea County, NM

Owner	Tract	Net	Working Interest Percentage	Force Pool Interest
MHPI	1	40	12.50%	no-participating
Chevron U.S.A. Inc.	1	40	12.50%	no-participating
Cimarex	2	70	21.88%	no-operator
COPC	2	10	3.13%	Yes
Devon	3	80	25.00%	Yes
Cimarex	4	80	25.00%	no-operator

