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

CASE NO. 20590

Examiner Docket: July 11, 2019

Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, and 7H



Earl E. DeBrine, Jr. Lance D. Hough

MODRALL SPERLING

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CIMAREX'S EXHIBITS

Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, and 7H

	A-1	Application
	A-2	Lease Tract Map
	A-3	Well Proposal Letter
	A-4	Authorizations for Expenditures
Exhibit B	Affida	avit of Harrison Hastings
	B-1	Deep Structure Map
	B-2	Winerack Diagram
	B-3	Cross-Section Locator Map – Upper Wolfcamp
	B-4	Gross Interval Isopach Map – Upper Wolfcamp
	B-5	Stratigraphic Cross-Section – Upper Wolfcamp
	B-6	Cross-Section Locator Map – Lower Wolfcamp
	B-7	Gross Interval Isopach Map – Lower Wolfcamp
	B-8	Stratigraphic Cross-Section – Lower Wolfcamp
Exhibit C	Affida	avit of Lance D. Hough
	Certif	ied Mail Log / Notice - June 21, 2019
	Certif	ied Mail Log / Report - July 10, 2019

Certified Mail Log / Notice - July 8, 2019 (Additional ORRI)

Certified Mail Log / Report - July 10, 2019 (Additional ORRI)

Affidavit of Publication - June 27, 2019

Affidavit of Caitlin Pierce

Exhibit A

Earl E. DeBrine, Jr.
Lance D. Hough

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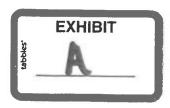
CASE NO. 20590

AFFIDAVIT OF CAITLIN PIERCE

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Caitlin Pierce, being duly sworn, deposes and states:

- 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 case and the land matters involved. Pursuant to NMAC 19.15.4.12.A(1), the following information is submitted in support of the above-referenced compulsory pooling applications filed by Cimarex.
- 3. This case involves a request for an order from the Division for compulsory pooling of interest owners who have refused to voluntarily pool their interests for the proposed Wolfcamp horizontal spacing unit described below, and in wells to be drilled in the horizontal spacing unit. In its Application, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a 640-acre Wolfcamp horizontal spacing unit underlying the W/2 of Section 34 and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, and 7H** wells, to be horizontally drilled. The Application is attached as **Exhibit A.1**.



- 4. Prior to filing the application, Cimarex made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells. I identified 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 wells are to be 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 all but one potential overriding royalty owners with notice of this application. Cimarex also published notice of the hearing on the applications in a newspaper of general circulation in Eddy County. None of the above mentioned interest holders have entered an appearance in opposition to Cimarex' applications.
- 6. One additional potential overriding royalty owner was discovered this week, after prior notices of the application were mailed and the newspaper advertisement was published. Notice to this potential overriding royalty owner has been mailed to his last known address.
- 7. Cimarex plans to drill the Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, and 7H wells to a depth sufficient to test the Wolfcamp formation, and laterally and in a southerly direction within the formation to the bottom hole locations referenced below:
 - The Hayduke 34-3 Federal Com 1H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 330' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,610'.

- The Hayduke 34-3 Federal Com 2H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 990' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,830'.
- The Hayduke 34-3 Federal Com 3H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 1650' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,610'.
- The Hayduke 34-3 Federal Com 4H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 2310' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,830'.
- The Hayduke 34-3 Federal Com 5H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 330' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 9,555'.
- The Hayduke 34-3 Federal Com 6H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 1310' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 9,340'.
- The Hayduke 34-3 Federal Com 7H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 2310' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 9,555'.
- 8. The wells will develop the Purple Sage Wolfcamp Gas Pool (Pool ID: 98220), which is a gas pool.

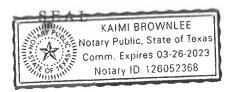
- 9. The producing interval for the well will be orthodox and will comply with the Division's special set back requirements in Order No. R-14262 as the first and last take points will be no closer than 330' from the spacing unit boundary, and the completed lateral will be no closer than 330' from the spacing unit boundary.
- 10. A lease tract map outlining the unit to be pooled is attached hereto as **Exhibit A.2**. 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.
 - 11. There are no depth severances within the proposed Wolfcamp spacing unit.
- 12. **Exhibit A.3** is a sample well proposal letter sent to each of the interest owners seeking their voluntary participation in the well.
- 13. **Exhibit A.4** are the Authorization for Expenditure for the proposed wells. The estimated cost of the wells set forth therein are as follows:
 - a. Hayduke 34-3 Federal Com 1H: \$10,108,340
 - b. Hayduke 34-3 Federal Com 2H: \$9,946,340
 - c. Hayduke 34-3 Federal Com 3H: \$9,946,340
 - d. Hayduke 34-3 Federal Com 4H: \$9,946,340
 - e. Hayduke 34-3 Federal Com 5H: \$9,960,340
 - f. Hayduke 34-3 Federal Com 6H: \$9,960,340
 - g. Hayduke 34-3 Federal Com 7H: \$9,960,340

These estimated costs of the wells are 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.

- 14. 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.
- 15. 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.
 - 16. Cimarex requests that it be designated operator of the wells.
- 17. Cimarex requests that it be allowed a period of one (1) year between when the wells are drilled and when the first well is completed under the order.
 - 18. The parties Cimarex is seeking to pool were notified of this hearing.
 - 19. Cimarex requests that overriding royalty interest owners be pooled.
- 20. Based upon my knowledge of the land matters involved in this case, my education training and experience, it is my expert opinion that the granting of Cimarex's application in this case is in the interests of conservation and the prevention of waste.
- 21. The exhibits attached to my Affidavit were prepared by me or compiled from company business records.
- 22. I attest that the information provided herein is true, correct and complete to the best of my knowledge and belief.

Caitlin Pierce

SUBSCRIBED AND SWORN to before me this 10th day of July 2019 by Caitlin Pierce.



Vaunu Brownler

Notary Public

My commission expires: 3 26 2023

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY 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 W/2 of Section 34, Township 25 South, Range 26 East, and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy 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 of Section 34, Township 25 South, Range 26 East, and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico to form a 640-acre, more or less, spacing unit.
- 3. Cimarex plans to drill the **Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H,** and **7H** wells to a depth sufficient to test the Wolfcamp formation, and laterally and in a southerly direction within the formation to the bottom hole locations referenced below:
 - The Hayduke 34-3 Federal Com 1H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 330' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,610'.



- The Hayduke 34-3 Federal Com 2H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 990' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,830'.
- The Hayduke 34-3 Federal Com 3H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 1650' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,610'.
- The Hayduke 34-3 Federal Com 4H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 2310' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 8,830'.
- The Hayduke 34-3 Federal Com 5H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 330' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 9,555'.
- The Hayduke 34-3 Federal Com 6H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 1310' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 9,340'.
- The Hayduke 34-3 Federal Com 7H well is a horizontal well with a surface location 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, Eddy County, and the intended bottom hole location is 330' FSL and 2310' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, Eddy County. This well will be drilled vertically to a depth of approximately 9,555'.
- 4. These wells will be located within the Purple Sage Wolfcamp Gas Pool (Pool ID: 98220) and will comply with the Division's setback requirements in Order No. R-14262.
- 5. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

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

WHEREFORE, this case is set for hearing before an Examiner of the Oil Conservation Division on July 11, 2019, Cimarex requests that, after notice and hearing as required by law, the Division enter its order:

- A. Creating a horizontal spacing unit in the Wolfcamp formation comprised of W/2 of Section 34, Township 25 South, Range 26 East, and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico;
- B. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the W/2 of Section 34, Township 25 South, Range 26 East, and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico;
- C. Designating Cimarex as operator of this unit and the wells to be drilled thereon;
- D. Authorizing Cimarex to recover its costs of drilling, equipping and completing these wells;
- E. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;
- F. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

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

By:_

Earl E. DeBrine, Jr.

Lance D. Hough

Post Office Box 2168
500 Fourth Street NW Suite 1000

500 Fourth Street NW, Suite 1000 Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 edebrine@modrall.com lance.hough@modrall.com Attorneys for Applicant

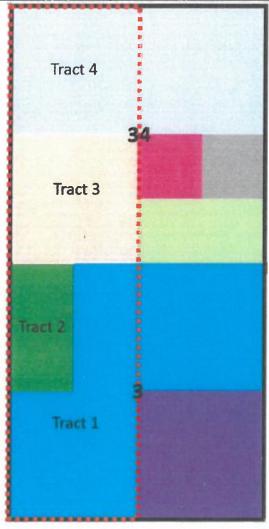
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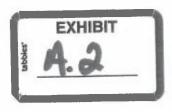
CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 640-acre, more or less, Wolfcamp horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Section 34, Township 25 South, Range 26 East, and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, and 7H wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 8.5 miles southeast of Whites City, New Mexico.

Hayduke 34-3 – Wolfcamp Wells

W/2 of Section 34, Township 25S, Range 26 East, Eddy County, NM W/2 of Section 3, Township 26 South, Range 26 East, Eddy County, NM

Owner – Wolfcamp	Tract	Net	Working Interest Percentage	Force Pool Interest
Cimarex Energy Co.	1,4	335	52.34375%	No - Operator
EOG	2,3,4	259	40.468750%	Yes
Oxy Y-1	2	16	2.500000%	Yes
Partnership Properties Company	3	30	4.6875%	Yes
TOTAL			100%	







April 24, 2019

Partnership Properties Company c/o Petro-Lewis Co P.O. Box 20352 Billings, MT 59104

Re:

Proposal to Drill

Hayduke 34-3 Federal Com Wells

Section 34, Township 25 South, Range 26 East Section 3, Township 26 South, Range 26 East

Eddy County, New Mexico

Dear Working Interest Owner,

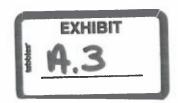
Cimarex Energy Co. hereby proposes to drill the Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H, 10H & 11H wells at a legal location in Section 34, Township 25 South, Range 26 East, NMPM, Eddy Co., New Mexico.

Hayduke 34-3 Federal Com 1H - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 330' FSL and 330' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 8,610' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Havduke 34-3 Federal Com 2H - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 330' FSL and 990' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 8,830' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Hayduke 34-3 Federal Com 3H - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 330' FSL and 1650' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 8,610' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Hayduke 34-3 Federal Com 4H - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 330' FSL and 2310' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 8,830' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.



Hayduke 34-3 Federal Com 5H - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 330' FSL and 330' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 9,555' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Hayduke 34-3 Federal Com 6H</u> - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 330' FSL and 1310' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 9,340' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Hayduke 34-3 Federal Com 7H - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 330' FSL and 2310' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 9,555' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Hayduke 34-3 Federal Com 8H - The intended surface hole location for the well is approximately 390° FNL and 1310° FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 100° FSL and 660° FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 7,300° to the Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Hayduke 34-3 Federal Com 9H</u> - The intended surface hole location for the well is approximately 390° FNL and 1310° FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 100° FSL and 1980° FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 7,300° to the Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Hayduke 34-3 Federal Com 10H</u> - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 100' FSL and 660' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 7,680' to the Harkey formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

<u>Hayduke 34-3 Federal Com 11H</u> - The intended surface hole location for the well is approximately 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, and the intended bottom hole location is approximately 100' FSL and 1980' FWL of Section 3, Township 26 South, Range 26 East. The well is proposed to be drilled vertically to a depth of approximately 7,680' to the Harkey 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 Hayduke 34-3 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

Caitlin Pierce 432.571.7862

ELECTION TO PARTICIPATE Hayduke 34-3 Federal Com 1H

	Partnership Properties Company elects TO participate in the proposed Hayduke 34-3 Federal Com 1H
	Partnership Properties Company elects NOT to participate in the proposed Hayduke 34-3 Federal Com 1H
Dated this day of	, 2019.
Signature:	
Title:	
If your election above is	TO participate in the proposed Hayduke 34-3 Federal Com 1H well, then:
	Partnership Properties Company elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Partnership Properties Company 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.

CIMAREX	Authorization For Expenditure	Drilling		AFE # 26621001
Company Entity			414	Озте Prepared 4/23/2019
Exploration Region Permian Basin	Well Name HAYDUKE 34-3 FEDERAL COM 1H	Prospect Carlsbad Bone Spring Prospec	Property Number t 300001-128.01	AFE 26621001
County, State Eddy, NM	Location SHL: W/2 of Section 34, Township 25 Eddy County, NM BHL: W/2 of Section 3, Township 26 County, NM		Estimated Spud 1/1/2021	Estimated Completion 2/1/2021
X New Supplement Revision	Formation Wolfcamp	Well Type T	ti Measured Depth 18,403	Ttl Vetical Depth 8,610

Purpose Drill and complete well

Description

Drilling Drill and complate a horizontal test. Drill to 450', set water string casing. Drill to 1876', set surface casing. Drill to 8133' (KDP), Drill curve at 12'/100' initial build rate to +/- 90 degrees 8610' TVD and drill a +/- 9420' long lateral in the Wolfcamp formation. Run and cement production casing. Stage frac. Drill out plugs. Run production packer, tubing and GLVs.

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,262,000		\$2,262,000
Completion Costs		\$6,338,340	\$6,338,340
Total Intangible Cost	\$2,262,000	\$6,338,340	\$8,600,340
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$84,000	\$794,000	\$878,000
Lease Equipment		\$630,000	\$630,000
Total Tangible Cost	\$84,000	\$1,424,000	\$1,508,000
Total Well Cost	\$2,346,000	\$7,762,340	\$10,108,340

Comments On Well Costs

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

l elect to take my gas in ki	nd.
i elect to market my gas w	th Cimarex pursuant to the terms and conditions of its contract

Comments on AFE

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

Nonoperator Approval Company	Approved By (Print Name)		Approved By (Signature)	Date
		was dieze		
	Costs shown on this form ore estimates only. Overhead will be charged in accordance with		VE, the consenting party agrees to pay its propor Agreement	rlanase 4/23/2019



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

Month 1000mb 0000mb 1000mb 10	Description	Codes	- Drizing Amoun	Codes	- Dritting Amou		mp/Stan		action Egalp Amount	Post C	Amount	Total
Commontained Comm	Roeds & Location	DECTO			Amou		10 00	CON.100	AMOUNT g con	PCOMENTO		
Dept. Dept	Demages				i	+	114,000		4,00		24,000	7.00
Description		010C255	160,000):	,	FTM253	62,000	oʻ.	, ,,,,,,,	PC014253	90,000	
December Control Con		,			104,00	0		i	1	2		\$46,00
File								p	*			000,28
John Land Configure (1) of Fire Vision)			-	
John St. A.									1			82,000
Decided Factors Decided Process Decided Process Decided Process Decided Decide					1	0: STULLTUS	24,000	٥.	Э.	PODULIES	0	
District March Dist			104,000	I DECEMB	1	0. 5001340	100.000		1 2000		20.000	200,000
Planet December			97,000		!		laspoo) COME MA	2,000			323,900 97,000
December	Flowback Labor	1	2.,000	:	1				;		-	13,440
Description					+			CONTR	37,500	PCOML190		37,500
Digital Residence Discuss Section Discus Section	Femation Braketion (DST, Coring, etc.)		0	1	1	STIM 150	. 0	,	1			
Committed States Equipment DDC 59 GCC 500 CDC					1	1			× 1			19,000
Disched processor Discharge Discharg		1				Ť		î	1 ;			
Color Colo	Tubular inspersions											225,000
Machael Labor OCC.200 SQ0,000 SQC,000 SQC,000 SMLTTY AUG CONTYD 154,000 CONTATO O				,				,	1 1	POMULED	0	27,000
Tumber T							-	0001700	1 154000	B073LI 176		184,000
Description	Tredding/Transportation	DIDCARS	18,000	DICCTTS						PCOM 175		49,000
District											-,	190,000
Document					6,000							73,000
Description DECEST 19,800 DECEST 19,800 DECEST 19 DECEST						STB4.190		CONL190	10,000	PCCML190	0	130,000
DODG/DICTO DODG/SM 151,000 DOGG D				0100195	5,000							15,000
District Control Chiffy Services DOCA56 T.7,000 DOCA56 T.7,000 DOCA56 T.7,000 T.					I	STEM215	0		1 [PCOM215	0	0
Mode Control (opt) Control									, !			150,000
Month Control Contro						:	- 0	f	, 1		1	225,000
Part	Well Control Equip Shobbling Services			9400,240	5000	STD4.240	27 000		i :	PCOM 240		72,000
STMAND SELECTION SELECTION STMAND SELECTION	Flating & Solvand: Services		0						1		-,	158,000
Contribution Services	Completion Rig	1	i				-				-	21,000
Compagnita Target Comp		j							1	PCOM260	170	368,000
STMALTH 2,205,000 PCSMATE 0 2,000 PCSMATE 0		i		i			400,000		}			400,000
STMARS S		:	=								0	96,000
Appendix		1	i			,			1 1	PCOM210	0	2,926,000
Age	Commonweal Control Control Control Control	:	i						. ;			702,000
Med Control Note Note 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997		0000.000	10,000	1		91/9/7/02	40,000	ACM 340	į į	PCCINCION	0	40,000
April Company Compan	Well Control Interesco					:	i	COPCION			- 1	10,000 7,000
Part Temporation Centure DIDC-560 B SERASSIO CONASTO \$2,800 SERASSIO SERVICE			.,,	:			1	CONJOS	21 900		,	21,500
Description		DIDCSED	0	1		STB4540	0					0,
Description			1				- 4	CONSTR	54,500			54,500
SMAPLE SUPERISON CONTACT SUPERISON SUPERISON CONTACT SUPERISON SUPERISON CONTACT SUPERISON S		•	1	- 1			- 4		3,500			3,500
SWOOTHER - SUPER-YSCOM			1				- 1	CONLIN	0.		1.	0,
Contingency			i	1			1		0			o,
Conditionary Cond	Continency	00000	100,000	00770	47.000	*******				-		0
PAA CASD	Contingency	,	100,000	!	17,000		200,			COMME	0	469,500°
Delication Del	PRA Costs	000386	0	0102.275	0				4000		9	2,000
Content Cont			2,262,000		356,000		5,401,000		48,000		162 340	8,600,340
Marker String		SWIELES		1	1					• • •	1	C
Description							1		!		1	o'
Defend fact Carlog 2				- 1	:				į		7	16,000
Description				i			i	- 1			1	48,000
Description			- 1	- 1			i		į		4	0
Production Cashing or Lines Production Cashing					- 1		1	I	- 1		*	o _j
Product Teles 420				DATE A TOO	489,000		- :		7		1	489,000
WHISHMENT TIME CRODERS WHISE \$115 20,000 DWIAR \$125 0 DWIAR \$1			71	DAMEA 183	0	STEMT_101	0		1		*3	
WidShand, They, Chokes	Trubing		1	j	1	STOUT.105	53,000	- 1	i Pi	CON.CT. 105	0	53,000
Therefore, barbalann Packer					25,000	DELTHINE	60,000		36	00MT.130		105,000
Description		DWEL100	0,1	PANEA 125	0		i	1	1		+	0.
Downhold LN Colphanest STAUT_A10 BQ,000 PCCAT_LEO GQ RCQ STAUT_A10 SQ SQ SQ SQ SQ SQ SQ S			i	,			28,000					28,000
Notice N				1	1		0				_	O,
Wild Authoration Mitterfelts Well Engineeric Cost			1	1	1	ATMIT #190	80,000	:				80,000
Total Tracks - well Expenses Cert S44000 S24000 S240000 S240000 S2400000 S24000000000000000000000000000000000000	Wolf Automation Materials		i		-			- 1				\$9,000
NC Lisas Equipment Contracts Introly Equipment Contracts Contr	Total Targible - Well Equipment Cest		84,000	* · ·	\$14,000		231,0007	1	!"			879,000
Trails, Tuels Saper, Sairy Introl, Foldman Introl F	NVC latase Equipment	9.5	-	+ 1		(14.466.1	mirt in	183,000	- '	34,000	183,000
Entroly Englaneses CONTLIN TPUCOD	Yanks, Tanks Steps, Stairs			-1	1		1.6	CONTAGS .				64,500
Secondary Constitution Secondary Constitut	Britoy Equipment		1	- 1	9		10	00117400	179,000		1	179,000
Facility Facility Conflicts Section	Secondary Containments		1	:	1		: 6	CONTAINS	34,000			34,000
Telecomensistation Equipment CONTLOSS Q CON			- 1	1							9.1	31,500
Albert and Microring Equipment CONT-455 20,000 20,11					1						1	36,500
Feeling Uses Pape			1	1	:				- 1			0,
ASSESTANCE ASS	Facility Line Pipe		2	1	:						1	30,000
### FURZ - Manerchia #### CONTESSE 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7,500 7	Latter Automation Materials		1	-	- 1						2	43,000
Ruda - Usus Rips CONTESS 11.500 11.6 CONTESS 0 0 CON			1	1	1						9	7,500
SWINDOW - Materials CONTLESS 0					!							11,500
Treat Tampbin - Leave Epiphorat Crist. 630,000 (630,000)				i		0.00					1	0
		4 1	100		i			EZATNO			-	0
	Total Engine Support Con Total Entirested Cost					-	1	1		1	Ī	630,000 20,108,340

		BCP - Drilling				ACP - Drilling		Comp/Silm	
Description	· Codes	DO - Mary		anount	Codes	No -unag.	Amou	nt Codes	Amount
Roads & Lecation	DIDC.100)		40,000				STRA.100	10,000
Dormeges	: DEDC.105	i		6,000				12	1
Mod/Fields Oliperal	DEDC.255		1-	60,000				5134255	62,000
Doy Race	DIDC.115	16 days at \$26,000 Atry	1 4	(2,000	DICC.120	4 days at \$26,000/tby	194,00	00:	
Mac Proportion	DEDC.120			35,000				4	
B2rs	DIDC:125			000,27	DICC.125			0 STD-L725	: 0
Ford		1,300 gal/day at 13,00/5pt		12,000	DICC.130			0	
Water for Drilling Kig (Het Frac Water)	DEDC:140				DICC.135			0 STD4.135	24,000
Mard & AdelDaves	000CHS			00,000					4
Surface Rentals		Por Day (DCP)/day			DIOC.140			0 STB4.140	189,000
Downhole Rootals	DEDC-123		1	97,000				STEALIAS	0
Flowback Labor	1						4	\$794,141	0
Arassution Labor	4							3.5	7
Formation Brekation (DST, Coring, etc.)	DEDC-160			0				STIMUSO	. 0
Ated Logging		12 days at \$1,200,45ay		19,000				1	1
Open Hole Logging	DEDCTRO			0					:
Comercing & Floet Equipment	DEDC.185				DIOC155		160,00	o į	ŷ.
Tubular Inspections	DEDC190		+	pr0000	DECC_160		- 5,00		4,000
Casing Cress	DEDC-195		. 1	ю,000	DECCUES		20,00		0
Mechanical Labor	DIDC200				DECC.170		10,00		. 0
Tracking/Transportation	- DEDC205		1	8,000	DICC.175		8,00		4,000
Supervision	DEDC.210				D80C180		16,00		74,000
Traffer House/Cemp/Catering	1 DEDC.280				DIOC255		6,00		28,000
Other Misc Expenses	DEDC2200				DIOC.190			O STINLING	115,000
Overhead	2000225		1		DICC.195		5,00		1
Remedial Coversing	DIDC231		1	0				* STB4.215	; 0
MOE/DEMOS	DEDC240		15	0,000;					*
Directional Dritting Services	DIDC245			5,000				1	1
Solids Control	D000,2600		7	2000				9	
Wid Control Equip (Snubbling Services)	DIOC562		7	2,000	DKCC240		5,00	O. STRAIGHT	81,000
Fishing & Sloctradi Services	PEDC270			0	DICC245			D ₁ STBLEAS	. 0
Completion Rig			*	:				1 STBARTS	21,000
Coll Tebing Services				- 0				ET194260	368,000
Completion Logging/Personsing/Wirefine	1			- 0			4	STIM200	400,000
Composite Plugs	:						7	STIMUSED	96,000
Sómidados					107			\$78A210	2,926,000
Schooleston Weter/Water Transles/Water	;			- 5				STR4395	702,000
Classeur Deried Frag/Kortal Equipment				i			1	\$194305	40,000
Legal/Regulatory/Carathya	DEDC.SOC		+ 1	0,000;					1
Well Control Insurance	DIDC285	\$0.35/R		7,000					1
Major Construction Overhead	1			.,,,,,				1	1
Aca: Time Operations Center	DEDC.560		+	0			17	\$784560	i o
FL/GL - Labor				- 3			0.5	1	1 7
SIAGL - Supervision				- 1				7	i
Survey	4			- 7				1	i
SWO/Other - Luther	1		1	- 1	F 19			•	i d
SWOVOTHER - SUPERVISION	į				- 0			ļ	
Covelingency	! nmc435	500 % of Drilling Internatioles	. 10	2000	DCC 220		17.00	S794.2200	257,000
Condrigoncy				1				1	
PRA Costs	0000295		:	a.	DIOC.275 .		Ť	3!	1
Total Intangible Cod			2.26	2,000	:		356.00		5,401,000
Date Pipe	DWEA150			0			- PROTE		
Candactor Pipe	DWBL130			o.			+	1	i I
Water String	DWELT35		,	1,000				i	1 4
Sustance Casino		9 3/6" - 1,900ft at \$25,00/R		8,000			ī	1	i l
Intermediate Casing 1	DWEB.145			o.			·		1
Intermediate Casing 2	OWEL155			0:			4	i	1
Drilling Liner	DWDL160			0,				1	1
Production Casing or Univ					DWEA 101	5 1/2" ~ 18,596tt at \$25,00/F	489,000	<u>,</u> !	1 1
Production Te-Back	•				DWIA 165			STRATE-901	
Sabing Service	Į.		τ.				×	STBMT.105 27/6"-7,5200 at \$7,00/0	53.000
Wellhard Tree Chokes	DWGL115		-	000	WEA.120		25.00		60,000
Uner Hanger, Isolation Packer	DWILLIO		. 0		WEA125		. 22,000		
Padar, Noples		1 1	+ :	01.				STENTIARO	28,000
Passaing Unit, Engine					7 10			STIMELAGE	0
Downhole Lift Equipment				5			4	STRATATO	80,000
Serioco Equipment				- 1			1	1	1
Minit Automotion Materials	-			1			100		100000
Total Dregitio - Well Equipment Cost	4		ä	(000)			514,000		221,000
Total English - Well Englances Cost. N/C Lesse Equipment				7	146		1 21500	10401 461 1400	- District
Tanks, Tanks Steps, Stales				- 1	- 2			•	1 1
Bettery Ecoloment	r						2	t	1
Secondary Costainments			-	2	-			1	1 1
Overhead Pener Distribution			20	- 5				1	1 1
Facility Electrical				- 5				F	1 1
rand parents				- 6	100			I	1 1
Education Continues									
Felegoramunication Equipment									
Maters and Metering Equipment			-		100		2		1 1
Makes and Metering Equipment Facility Line Pipe							î		1. 3
Makers and Metering Equipment Facility thre Pipe Lease Assortation Materials							î		
Maters and Metering Egylpment Facility time Pipe Lease Assortation Materials FLACE - Meterials				1			i		
Matters and Metzefug Egylipment Facility Live Pipe Leane Assortation Manedals PLACE - Meterials PLACE - Exercises							i	1 h	
Matters and Metterlog Equipment Facility the Pipe Lease Assoration Materials PAUGL - Materials PAUGL - Materials PAUGL - Materials				-			1		to appear
Matters and Metering Egylpment Facility Live Pipe Lease Assoration Manedals PLACE - Meterials PLACE - Euro Pipe							1		

CIMAREX Autho	rization For E	Expenditure - HAY	/DUKE 34-:	3 FEDE	RAL COM	AFE # 2	662100
in a second		Production Equip			Post Completion		Yotal
Description	Codes		Amount	Codes	!	Amount	Co
Rosels & Location Demografi	CONLIGO		1,000	PC084100	Pad/Road Clean Up	28,000	186,51 7,00
Mad/Flakis Okspecal	60610		, ton	PCOM255	6,000 BMPO for 60 days @ 5025/bbl	90,000	212,00
Day Rate			12		1		546,00
Misc Properation 57s	4		1	PCOML12S	ī	1 0	35,00
Fael			4	PCOML125	!	0	82.00
Water for Delling Rig (Not Free Water)	1		9	PCD14.135		- 0	29,00
Mind & AddRives	1 CON 140				[200,00
Surface Rentals Downhole Rentals	COPCHO		2,000	PC094349	\$1,030/d for Production Target of 30 Days	30,900	325,90 97,00
Howback Labor			33		\$960/d for Production Target of 14 Day	13,440	13,4
Automation Labor	CON:150		37,500	PC0044150		D	37,50
Formation Evaluation (DST, Coding. etc.)						7	
Mad Lagging Open Hele Lagging	1					10	19,00
Committing & Flore Equipment	1					5 F	225,00
Pubular Impections	1			PC014.160	1	0	27,00
Casing Crees					1	9 J	30,00
Mechanical Labor Tsucking/Issusportation	CONLT75			PCOMLT70 PCOMLT75	ŧ	0	184,00
Supervision	CONLIBO		12,000	PCOM.180	f	1 0	190,00
Tester House/Comp/Caterlog	,		*				73,00
Other Misc Experses Overhead	CON190		10,000	PCCML190	1	1 0	130,00
Vernero Vernero Vernero			4	PCOM215			15,00
MORADIMOS					1	45	150,00
Directional Dalling Services					1	1 4	225,00
Solids Control							72,00
Well Committees (Snuthing Services) Fishing & Sidetrack Services			95	PCOM240 PCOM245		0	158,00
Completion Kg				PCOMJI 15	l	0'	21,00
Call Tubling Services				PODMARD	1	0,	368,00
Completion Logging/Perforsiting/Wilmshre Composite Plags				PCOM-200 PCOM-200		1 0	400,00
Compount Pargo Standardon Pumpling/Charakasis/Additives/Sand				PCDML210		0	2,925,00
Sticondution Water/Water Transfer/Water						0.	702,00
Christica Owned Frac/Restal Equipment				PCOMJ05		1 0	40,00
Legal/Regulatory/Curative Mell Control Inserancy	CONUSCO		0				10,00
Mejor Control sessency	CONTROL		21,500			74	7,00 21,50
Real Time Operations Center			1,500			1	
PL/GL - Labor	CONLEGG		S4.500	8			54,50
R _e (CL+Supervision Survey	CON-505 CON-515		3,500			1 1	3,50
DWD/Deler - Labor	CONLEGO		0	- 1		1	
SWID/OTHER - SUPERVISION	CONLETS		0	•			
Distributional	CDN 220			PCCNLZ20	1	0	469,50
Carolinguncy	CONIZZI		8,000			, ;	8,00
NAVA Conto			479,000	gi n 1 1 1 1		162,340	8,600,34
Nive Pipe		No.	1000			1	
Conductor Pips			(4)				
Meter Saring Ionface Classing						: !	16,00
etermediata Cadeg 1				-		1	40,00
ntermediate Caslog 2				1		1	
Odling Liner				_		1	
roduction Closing or Uner roduction Tie-Back			1	,		1	489,000
roduction tie-duck				CONT.105 !			\$3,00
Velikend, Tren, Osokes				CONT.120			105,000
Iner Hongos, Isolation Packer				!			
actus, Nipples				CONTACO		0,	20,000
Nampling Unit, Empire Inventiols Lift Equipment				CONTARS		0	80,000
written Equipment .			1 1	CONTAGO	XEC Owned Send Separator	59,000	59,000
Add Antomation Materials				CONTASS		0	
Total Tangala - this Engineer Class.	CONTAGO		183.000	. [100	59,000	163,000
nells, Tarries Steps, States	CONT.405		183,000 64,000	,			64,000
Many Equipment	CONTA10		179,000	[1 1	179,000
scendary Containments	CONTAIS		24,000			:	24,000
resheed Power Distribution City Bearlot	CONTLAS		31,500 36,500	1			31,500
decommunication Equipment	CONTA26		1 0	- 1		i i	0
eters and Meterlog Equipment	CONT.445		20,000	- 1			20,000
	CDNTAGO		30,000	- 1		!	30,000
MISIO Antomatico Meterinis UFSL - Materiais	CONTAGS CONTAGS		7,500	1		i i	43,000 7,500
July - Line Pipe	0047.535		11,500			1	11,500
MC/Other-Months	CONTROL		0	1		1	0
	CONTASS		0			-	630,000
Total Tangkin - Lesso Siguiproses Cont.			630,000				



Authorization For Expenditure Drilling

AFE # 26621002

Company Entity

Date Prepared 4/23/2019

Exploration Region Permian Basin

Well Name

Property Number Prospect 300001-129.01 AFE

County, State

HAYDUKE 34-3 FEDERAL COM 2H Carlsbad Bone Spring Prospect

26621002

Eddy, NM

Location

Estimated Soud

Estimated Completion

SHL: W/2 of Section 34, Township 25 South, Range 26 East,

1/1/2021

2/1/2021

Eddy County, NM BHL: W/2 of SEction 3, Township 26 South, Range 26 East, Eddy

County, NM

Ttl Velical Depth

Suppla

Formation

Well Type

Til Measured Depth

Revision

Wolfcamp Upper

DEV

19,000

8,700

X New

Purpose Drill and complete well

Description

Ording Drill and complete a horizontal test. Drill to 450°, set water string casing, Drill to 1876°, set surface casing. Drill to 8133° (XOP). Drill curve at 12°/100° initial build rate to +/- 90 degrees 8610° TVD and drill a +/- 9420° long lateral in the Wolfcamp formation. Run and cement production casing. Stage fracDrill out plugs. Run production packer, tubing and GLVs.

Intanofble	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,108,000	Alle Casing I Cont	\$2,108,000
Completion Costs		\$6,338,340	\$6,338,340
Total Intangible Cost	\$2,108,000	\$6,338,340	\$8,446,340
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$83,000	\$787,000	\$870,000
Lease Equipment		\$630,000	\$630,000
Total Tangible Cost	\$83,000	\$1,417,000	\$1,500,000
Total Well Cost	\$2,191,000	\$7,755,340	\$9,946,340

Comments On Well Costs

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

I elect to purchase my own well control insurance policy.

Marketing Election

Cimarex selfs 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 Gimarex, you will be subject to all of the terms of such contracts. Upon written request to Gimares's Marketing Department, we will share with you the terms and conditions manuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Cimarex under the terms and conditions set forth above.

I elect to take my gas in kind.

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

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

Nonoperator Approval		
Company Approved By (Print Name)	Approved By (Signature) Date	
		- [
	•	!

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consensing pumy agrees to pay its proportionate share of actual casts incurred. Overhead will be charved in accordance with the Joint Operatina Agreement.

4/23/2019

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

1	MT.	- Drilling	400	-Drilling	Com	ma /THen	David on	ton Earth	David Co		744
Description	Codes	Amou			nt Codes	Amount		on Equip Amount	Codes	Amount.	Total
Reeds & Lecution	* DIDC:100	70,00	oʻ		STDL100	10,000	CONLTOS	8,500	PCONLICO	28,000	116,
Dameges	1 0000105	6,00		1			CONUMS	1,000	1	1	7.
AllerG/Fluids Disposal	_ DIDC253	160,00			S79M.253	62,000			PCON-255	90,000	312,
Day Rate	DIDC.115		O. DECC_120	104,00	Φ.				1	2	546
Miss Properation	. DEDC.120	35,00		1			20.				35,
Fuel	DIDC125		0: DECC.125		O STIMULES	D	i		PCOM-125	0	55,
Water for Drilling King (hter Frac Water)	1 DDC340	82,00			0. 0. STIML153	24,000			PCOM.120	0	82, 29,
Mud & Additions	DECHS	200,00		1	0	2000			PCOMCIOS	0.	200
Serface Rentals	00C150	104.00		į	0 5784140	- UIS 000 -	CONTIN	2 000	PC094,140	30,900	325
Downhole Renials	- DDC183	97,00	o'	1	\$784.145	0			PC004_145	0	97.
Howtack Labor			1		50M.141	0	9 .		PCDM-141	13,440,	13,
Autorsation Labor				4	1		CON 150	37,500	PCOMLTS0	0	57.
Fonestion Evaluation (DST, Coding, etc.)	0000100		0	1	1 STIM150	0,	!		1	7.	
Mad Logging	DEDC-180	19,00			t				1		19,
Open Hole Logging Comercing & Finet Equipment	DIDC185			1	1		1				
Legarita parameter programme	DDC.190	18,000	0 010C122	190,000		4,000	:		PC014,160	0	225
Casing Crews	DIDC.185	10,000	DICC.165	30,000	SIMILES	4,000			- PULL NEW	0	30,
Micchanical Labor	1 DEC200	20.000	DICC.170		STEALTE		CONLTTO]	124.000	PCOMLT70	0	184.1
Freehing/Tramportation	DIDC265	18,000	DECC.175	8.00	STELLTS	4,000	CONTE		PODMLT75	0	49.
Supervision	DIDC210	88,000	0100,180	16,000		74,000	COPL180		PCON4.180	o.	190.1
Traffer House/Comp/Cate/ing	DIDC.280	39,000	: DICC255	6,000		28,000					73,4
Other Misc Erperoes	DIDC.220		010C190		STIALTED	115,000	CON. 190	10,000	PC0ML190	0	130,0
Overhead	. DIDCZZS		, DECC 592	5,000							15,0
Remedial Coversion	\$ DEC231			i	STINUSTS	٥	- 1		PODMESTS	0,	
MONODADS	DIDC340	75,000			1						75.0
Directional Drilling Services Selfds Control	DIDC265	225,000		1	1	1	. !	1		;	225,0
	DEDC260	72,000			ī	:	8 .	1			72,0
Well Control Equip Greatising Services Fishing & Sidetrack Services	DEDC290		DICCAS		STRAL240	81,000	•		PCOM245	o,	158,0
Patrang at Stactrick Services Completion Mg	DUCZIO	0	UNCORS.	, ,	\$794.245 \$794.115	0.		1	PODMANS PODMANS	0,	
Coll Yabling Services				I	ST04.260	21,000 368,000	1	1	PCOMATIS	0	21,0 368,0
Completion Leggleg/Perforating/Westice				1	ST04200	400,000		į	PCDMANO	a'	400,0
Composite Plags	1			ı	STIMUREO	96,000	1	i	PCCMADO	a	96,0
Stimulation Pumping/Characts/Additives/Sand	1			1	STB4.250	2,926,000			PCCD4250	a,	2,926,0
Stiresteine Water/Water Transfer/Water Storage	1		!		STBALES	702,000				-1	702,0
Climatex Owned Frac/Restel Equipment	1				STIM 305	40,000	1		PCOMUIES	o'	40,0
Logal/Regulatory/Constive	DIDC300	10,000				100	CONJOD =	0,			10,0
Well Control Inducanos	D00C285	6,000	:	1	į.	*	1	į		-	6,0
Major Construction Overhead	* DIDC.560			1	1		CDN1305	21,500		0.0	21,5
Heal Time Operations Center PLFSL - Labor	DUCSON	0			STIMESED	•i	CON. 200	54,500			
FLAGL - Supervision	£			1			CONUES	3,500			3,5
Servey	:		5 8		1		CONSTS	1,300		1	3,3
SWD/Other - Labor	1						CONLEGO				
SWO/CINER - SUPERVISION	:						CONUES	a!		+	
	· DEC/GS	100,000	DECC220	17,000	\$104,230	257,000	CON 220	B7.500	PCDM220	o'	461.54
Condegency							CONJET	8,000		•	8,00
PBA Costs	DOCUS	0	DIOC.275	0		- 13	1.				
Tube betregten Con	DWEELISO	2,108,000	4 16	356,000	4	5,400,000	. 1,	48,000		162,340	8,446,3
Orber Pipe	DWEE.150	0					1	-			
Conductor Pipe Alater Selng	DWEX.130	16,000				į	1	1		- 1	
Section Casino	DWELLIS DWELIAC	47,000						1		- 7	16,00
oscoro Casing oscorosifete Caring 1	DWELTHE	47,000					:	į		:	47,00
ntermediate Cadog 2	DWEELTSS :	ŏ	1	-		:	1	£.			
≥fling Liner	DWDL160	6				:	4			1	
hoducilon Caulog or Liner		Ϋ.	DWEATED	484,000		0	1	1		-	484,00
suclection Tie-Seck			DWEALES .	0	STIME 161	0	t			i	
Whiteg		,	1		STIMILIOS	51,000		- 1	COMIT. 105	o'	51,00
Willhand, Tare, Cholas	DWE8.115	20,000	DWEA120	25,800	STIMILIZO	60,000 i	•		COMITATIO	0	105,00
iner Hanger, Itolation Packer	DAMEB. 100	0,	DWEA.125	0							
racker, Hippies					\$19MT.400	28,000			CONTACO	0	25,00
umping Unit, Engine			ł	1	STIME.	0			CONT.405	0	
lownhole LIR Egylpment					STINTAGE	80,000			00MT/410	0.	80,00
arface Equipment			- 1			:	1		COL/T.420	59,000	59,00
Act Autorasiicos Meterials Total Tengilio - Well Soulproust Cos	4 100 11	92.845	;	1222		· · · · · · · · · · · · · · · · · · ·			COPILV22	0	11.75
AC Lause Equipment		83,000		509,000		513,000	contino			59,000	870,00
A. Laise Equipment into, Timbs Steps, States	100			:			DHT-465	183,000		1	183,00
			1	i			DORTATO ;	64,000 179,000		1	64,00 179,00
		19	- 1				DMIAS	24,000		7	24,00
			1				DKT.429	31,500		1	31.50
econdary Containments			. !	;			ONTACE	36,500		T	35,50
econdary Containments workend Power Oktobedon				i			1 39.790	p!		1	30,50
econdary Containments workend Power Distribution IdDity Bletifical											
econdary Containments werhead hover Gistathiston acting Destrict decorronmentation Equipment leters and Meterley Equipment		1		ì			DREAS	20,000			20,00
econdary Containments verhead Power Gisstbuston udfley Elecutori deconomientation Equipment leters and Meteriery Equipment udfley Une Ripc		1	!	ì		10	DHT/S0	30,000		i	
acondary Containments vortheed Power Gastbuston addity Bestrike delky Bestrike dekonsomerication Equipment, letters and Meteriest Equipment; addity Libre Pipe mass Automatelon Meteriest and Automatelon Meteriest						10	DMEASO ; DMEASS	30,000 43,000		Ĭ	30,00 43,00
acondary Containments benthead Power Distribution stifling Bestries decamanumikation Equipment, letters and Materials Equipment; addity Une Fipe man Automation Materials (All - Metatelis)		-		1		0	DREASO : DREASS DREASS	30,000 43,000 7,500		1	30,00 43,00 7,50
acondary Containments betherde Power Steitherdon addity Bestderd addity Bestderd electronic projectory leters and Matterforg Epolyponom; addity the Pipe mans Handoweldon Materials JULA - Middledtis JULA - Middledtis JULA - Middledtis						0	CERTING CERTING CERTING CERTING	30,000 43,000 7,500 11,500		1	30,00 43,00 7,50 11,50
Jatony Replanease Jeondary Containments Devrhead Power Glestburden addity Bestelded Active Stational Spagnacers Actives and Materiesy Epotypenents addity the Ripe and Materiesy Epotypenents addity the Ripe and Antonomiene Mahorisch UKGL - Materielde UKGL - Liben Ripe MOUGHER - Libes Pure MOUGHER - Libes Pure 1.05 Pu				0 va 10 va 1		0	DREASO : DREASS DREASS	30,000 43,000 7,500		1	20.00 30.00 43.00 7,50 11,50

0 DWLATES

2,191,000

Feelity Line Pipe

SMO/OTHER - LINE PIPE

STIME AND

509,000

28,000

218,000

5,620,000



CIMAREX Authorization For Expenditure - HAYDUKE 34-3 FEDERAL COM 2H

AFE # 26621002

The same	Production Equip			Post Completion			Total
Description Reads & Location	Codes	Amount	Codes			Amount	C
	CONLIGS		PCOMLTOD	Pad/Road Clean Up		25,000	1165
Distrages Mind/Fixids Obspessi	CONCIOS	1,000	PCDM255	8,000 8WPD for 60 days @ \$0.25/bbl		90,000	7,0 312.0
	1		PCOMCZSS	ECODO BANGO SOL SOL SOL SIÁN CO. 24T-25/SEC		90,000	
Day Rate	i.	30		1		į	546,0
Misc Preparation		2		1		į.	35,0
Food		1	PCOM-125	1		o,	55,0 82,0
	27	i	PCOM,135				
Water for Diffing Rig (Not Fee: Water) Aded & Additions	£0		PCONCISS	!	. 11	0	29,0
Surface Scottles	CONLINO			In addition to the French of the Com-			200,0
Downhole Rantats	CONCHO	2,000	PCOME145	\$1.030/d for Production Target of 30 Days	*	30,900	325,9 97,0
Flowback Labor	80			\$960/H for Production Target of 14 Day		13,440	13,4
Automation Lebor	CON.150		PODM-150	Target in Microscott miles of the beat		13,040	37,5
Forwerlan Evaluation (DST, Coring, etc.)	1	37,300	PCLINE: 130	:		ŭ,	2,12
Netural Language	£3				-		19,0
Open Hels Logging	2	- 23		,		1	12,0
Gementing & Rost Equipment	1	30 30		•		!	225,0
Tubular impections	5		PC084.160	i .		0.	27,0
Casing Cravs	•	100	-	I	*		30,0
Medianical Libor	: CON.170	154000	PCDML170	ı	+	o¹	184.0
Treatding/Tomoportation	CONLITS		PODM-175	I	+	ŏ.	49,0
Supervision	CONTIN	17,000	PCOM4180	1		ě.	190,0
Trailar House/Camp/Catering	(K)	12,000	, COM, 160	•		4	73,0
Other Mac Supowers	· CONLISO	46.04	PC014,190	ı			130,0
Overhand	1	14,000	-COM.130	1		٠.	15,0
Covernage Remedial Conversing		40	PCOM215	1		0	15,0
MOMORACE CONTRACTOR	95		rum(215	ı	*	0	
Directional Diffing Services		100		(- 1	75,0 225,0
Solida Control	1			!	ŧ.,	t	72.0
Well Control Equip (Snubbling Services)	f:		PCONL240	i	+	o'	158,0
Well Columbiop priuming services Refring & Steletrack Services		1	PCOMAMS	I			158,00
Orașietica Ng			PCOML115	1		0	21,0
Cell Tubbing Sorvices	i .	11 19	PODM280	l		0	958.0
Completion Lagging/Perforeting/Whether		10	PCOM200			0	400,0
Companie Plags	1		PCOM.250	f	*	0	96.0
	3		PCEML210				
Disadulius Pumping/Chemicsts/Additives/Sund Disadulius Weter/Noter Transfes/Ather	I		PCDMC210		7	0	2,526.00 702,00
Dissipate Control Frace/Acres Laulpiness	1	13	PODALJOS I		+ :	o.	
	CONLIND		PONUES !			۰,	40,00
agsi/Regulatory/Curstive Mdl Casted Issurance	Cara	0					10,00
Anjor Construction Overhead	CONUSCS						6,00
Real Time OperaGoos Covary	condes	21,500				- 1	21,50
RAGE - Labor	CON.SEO	4	- 9			- 1	
RL/GL - Supervision	CORLEGE	\$4,500					54.50
Landy	CONSIS	3,500	- 1				3,50
WO/Other - Labor	- CON-800	1 0				į	
SWO/CORGO - CUPTRYISION	CONLORS	. 0	1			1	
Contingency	CONZE					- 1	
Contegency	CON-221		PC01-L220]			0	461,50
	CARGE!	8,000				í	8,00
VBA Costs		THE RESERVE		tel minio more tel de		-	
The second second	4 44 44 4	419,000	1			162,340	
the Fipe anductor Pipe		1			4	į	
Aster Serina					± .		16,00
urface Clasing		1				Ť	
stermediate Casing 1			1			1	47,00
Rentradulate Cating 1 Rentradulate Cating 2		i				1	
		4	ł			1	
rilling Uner rodaction Casing or Uner			1		1	-	484.00
roduction Casing or Unier roduction Tie-Back		1	- 1		1	1	484,00
roouction Tie-Black ubling		9			÷	-1	
atting Arthered, Tetre, Chokes			CONT.105			0,	51,00
		1 L	CONT.120			0	105,00
ntr Hanger, Isolation Packer Icher, Nicoles	C C	1 1	CONT.400		4	1	
					4	0	28,00
staying Link, Engine			CONTAGS			0	
postbole UR Equipment			00ME/10			0	80,80
eriton Equipment hill Antonovicos Materials				IEC Owned Sand Separator		59,000	59.00
SE LANCOLANGE DATEMENT	10.5.05 990	200	CONTASS	90 990 800 EDG 40	g in	0	-
Tend Targette - Well Day Spenner Cont	CONTRACTOR OF STREET	44			-	\$9,000	870,00
Total Tanglish - Well By Apanes Cost C Leave Ecological one, Tanks Scott, States	CONT.400 CONT.405	183,000	533		1	1	193,00
	CONTLAID	64,000	7		1	1	64,00
ttery Equipment		179,000	1		1	- }	173,00
candary Containments	CONTAIS	24,000	1		ě	1	24,00
rethead Power Distribution	CONTLAGO	31,500	i		1	•	31,50
offity Electrical	CONTLOS	36,500			1	;	36,50
lemmanicalos Equipment	CONT.OS	0	- 1		7	į	
rius and Meterling Equipment	CONTLAIS	20,000					20,00
cilly Une Pipe	CONTLISO	30,000	i		i	1	30,00
tse Automotion Materials	CONTASS	43,000	-				43,00
/GL - Materials	COMT.530	7,500	1		i	1	7,500
AGL - Line Pipe	CONTLSES	11,500	,				11,500
MD/Other - Moserials	CONTLESC	0	1		1		
VOYOTHER - LINE PSPE	CONTLESS	. 0	:			1	
Total Taughtie - Leave Equipment Cost;	and the same of th	630,000					630,000

Authorization For Expenditure Drilling

AFE # 26621003

Company Entity

Date Prepared 4/23/2019

******* (* * ****			•	4/20/2013
Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	HAYDLIKE 34-3 FEDERAL COM 3H	Carlsbad Bone Spring Prosper	d 300001-130.01	26621003
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	SHL: W/2 of Section 34, Township Eddy County, NM BHL: W/2 of Section 3, Township 2		1/1/2021	2/1/2021
	County, NM			
X New	Formation	Well Type	Itl Measured Depth	Iti Vetical Depth
Supplement	Wolfcamp Upper	DEV	19,000	8,700

Purpose Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 450', set water string casing, Drill to 1876', set surface casing. Drill to 1813' (KOP). Drill curve at 12'/100' initial build rate to +/- 90 degrees 8610' TVD and drill a +/- 9420' long lateral in the Wolfcamp formation. Run and cement production casing. Stage fracDrill out plugs. Run production packer, tubing and GLVs.

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Total Well Cost	\$2,191,000	\$7,755,340	\$9,946,340

Comments On Well Costs

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

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i elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval	
Company Approved By (Print Name)	Approved By (Signature) Date
NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this	AFE, the consenting party agrees to pay its proportionate
share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating	

		Drilling		- Drilling		b/zqiii	Producti		Post Con	person	Total
Description	Codes	Amount	Codes	Amount		Amount		Amount		Amount 28,000	116
Rosds & Location	DEDC100	70,000			2104,100	10,000	CON.100		PCOM.100	48,000	116
Demages	DIDC.105	6,000					CON.105 :	1,000			
Mud/Fluids Disposal	DIDC25S	160,000			STIMZES	62,000			PCONLESS	90,000	312
DayRate	0000115	442,000	DICC.120	104,000							546
Misc Preparation	DIDC.120	35,000									35
	DIDC.125	55,000	DICC.125	. 0	STILL 125	0			PCDALT2S	D	55
lits .			DIOC 130		31-12				PCDML130	0	82
Fuel	DIDC135	82,000		. 0					ACOM. 135		25
Water for Drilling Kig (Not Frac Water)	DIDC140	5,000	0100,135	0	STIMLTES	24,000			PCOMCIUS	0	
Mud & Addives	DIDC145	200,000									200
Surface Rentals	DDC150	104,000	DICC.HO	. 0	STB4,140	189,000	CON.140	2,000	PC064.140	30,900	325
Downhole Bentals	DDC153	97,000			5TH4.145	0			PCONJ145	0	97
	000.0	37,000		4	STOA 147				P00NJ141	13,440	13
4				4	21 ML 147	U	CON150	12 500	PC0ML150	0	37
Automation Labor							CORLING	37,300	, conclusion	•	
Foreasion Evaluation (OST, Coring. etc.)	DIDC160	0		7	ST04.150	0	:				
Mad Logging	DDC170	19,000									19
Open Hole Logging	DIDC183	0					- 0.0				
Comenting & Flort Equipment	DDC185	65 000	DICC.155	160,000			27				225
				. 5000	STD4160	4000	111		PC0AL160	0	27
Subular Inspirations	DEDC:190	18,000		3,000	21146.180	4,000			, , , , , , , , , , , , , , , , , , , ,	•	
Casing Crews	DIDC195	10,000		20,000	STIMLIES	0					30
Mechanical Labor	DIDC200	20,000	DICC.T70	10,000	STP4.170	0	CON.170	154,000	PCONU176	0	184
Inching/Transportation	DIDC205	18,000	DICC.175		STP4175	4,000	CON.175	19 000	PCONLT75	0	-49
	DDC-210		DICC.180				CDN.180		PCONL180	'n	190
impenision		88,000			STPALES	74,000	CONTROL	12,000	Padricina		
Tester House/Camp/Catering	DEDC.280	39,000	OKCASS		STBALZED	28,000					73
Other Misc Expenses	DIDC.220	5,000	DICC.190	, 0	STELL193	115,000	CO11190	10,000	PCOAL190	0	130
Overhead	DDC 225	10,000	DICC.193	5,000							15
temedal Comming	DEC 231	0		9:	570M215	0			PCONIZIS	0	
					an make 13	0				•	75
108/00408	DDC240	75,000									225
Vectional Drilling Services	0000245	225,000		÷							
alids Control	0000260	72,000		9							72
felt Control Equip (Saubbing Services)	DDC265		DIOC.240	5,000	STM240	81,000	1		PC084240	0	158
	DIDCZ70		DICC245	0	STBLZ4S	0			PCDN245	0	
iphing & Skietrack Services	DECCE	0	MULAG		STRAILS				PCONL115	D	21
empletion Rig				1		21,000	- 04			-	
all Tubing Services					STB4,260	368,000			PCOM250	٥	3-68
completion Logging/Perfocation/\Srefine				F	STIM200	400,000			PC0N-200	0	400
athten collaboration and were				*	STP4380	96,000			PCOM290	0	96
iompostie Plugs					STD4.210				PCOM-210	o	2.926
throughton Prompting/Chemicals/Additives/Sand				4		2,926,000			PCOMEZIO	0	
Omulation Water/Water Transfer/Water Storage					STIM.395	702,000					702
inarge Owned Frac/Rental Equipment				1 0	STB4.305	40,000	1		PCOMJ305	o	40
	DDC300	10,000					CONJOS	0			10
egal/Regulatory/Coradive				9			7	•			6
fell Control Insurance	DIDC285	6,000		ž							21
lajor Construction Overhead							CONJOS	21,500			21
eal Time Operations Center	DEDC.560	0			ST#4,560	0	1				
MGL - Labor		_				-	CON 500	\$4500			54
							CON1202 ·	3,500			3
L/GL - Supervision				1							-
urvey							CONUSTS	0			
WD/Other - Labor				1			CONCEDO	0			
WID/OTHER - SUPERVISION							CONJUS	0			
	DIDC.435		OICC220	1 17000	STIML220	207.000	CON220	87 500	PCONLZ20	0	461
antingenty	DEALAIS	100,000	UKL 220	; 17,000	3100220	257,000	CONZI			•	8.
							CORCZZI	8,000			4
ontingency	DIDC295	0	DIOCZYS	0							
BA Costs				356,000		5,401,000		419,000		162,340	8,446
BA Costs											
BLA Costs Total Intergible Cost	PUMP 190	2,108,000					- 9				
hA Costs Tomi Margible Cost	DWER.150	0									
BA Costs Team intergible Cost rive Pipe anductor Pipe	DWER.130	0		I .							
BA Costs Total Intergible Cost once Pipe onductor Pipe oter String	DWER.130 DWER.135	0 0 16,000		Ī							
BA Costs Total Intergible Cost once Pipe onductor Pipe oter String	DWER.130	0		i .							
BA Costs Total heargible Cost inve Pipe The String Inter String Inter Costing	DWER.130 DWER.135 DWER.140	0 16,000 47,000		Í			1				
LA Costs Total Intergible Cost we Pipe inductor Pipe star Sching face Casing i	DWER.130 DWER.135 DWER.140 DWER.145	0 16,000 47,000		Ī			1				
BA Costs Total Materigible Cost Trive Plipe and-user Plipe Trives Stuling Infact Costing I I Termediate Costing I Termediate Costing 2	DWER.130 DWER.135 DWER.140 DWER.145 DWER.155	0 16,000 47,000 0		1			1				
NA Costs Your Setupphe Cost view Pipe view Pipe view Stuling view Stuling view Stuling view Cosing view Cosing view Cosing 1 viewmediate Cosing 2 King Uner	DWER.130 DWER.135 DWER.140 DWER.145	0 16,000 47,000					1				47
BA Costs Your Managable Cost pive Pipe and Locar Pipe teer Sulving teer Sulving teer Sulving termediate Costing 1 termediate Costing 2 filling Liner filling Liner	DWER.130 DWER.135 DWER.140 DWER.145 DWER.155	0 16,000 47,000 0	DAVEA.100				1				47
BA Costs: Total Methodals Cost fine Pipe and-user Pipe and-user Pipe artises Sulvey artises Costry tack Costry termediate Costry 1 termediate Costry 2 filing Liner doubtion Costry or Liner	DWER.130 DWER.135 DWER.140 DWER.145 DWER.155	0 16,000 47,000 0	DAVEA.100 DAVEA.165		STEATLIN	0	1				484
NA Conts Total Intergale Cont the Pipe Industry Coding I Intermediate Coding I Interpolate Coding 2 Illing Lime Industrian Coding or Lime Ind	DWER.130 DWER.135 DWER.140 DWER.145 DWER.155	0 16,000 47,000 0					1		PCOAFF,105	0	484
NA Costs Soli Interrigible Cost five Plipe reductor Plipe reductor Plipe reductor Plipe reductor Costing 1 remediate Costing 1 remediate Costing 2 filling Liner oduction Costing or Liner oduction Costing or Liner oduction Costing or Liner oduction Costing or Liner	DWER.130 DWER.135 DWER.140 DWER.145 DWER.155 DWER.160	0 0 16,000 47,000 0 0	DAVEA 165	0	STRUT,105	\$1,000	1				484
BA Casts Total Naturalists Cost inve Pipe anducar Pipe rest Sulvey risce Casing 1 termediate Casing 1 filling Liner outsider of these reduction Casing or Liner reduction Title Back ching diffiles, Tiret, Chokes	DWER.130 DWER.140 DWER.140 DWER.145 DWER.160 DWER.153	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000			1		PCOAIT,105 PCOAIT,120	0 0	484
NA Cents Tell intergale One Inv Pipe Industry Pipe Industry Pipe Industry Pipe Industry Pipe Industry One In	DWER.130 DWER.135 DWER.140 DWER.145 DWER.155 DWER.160	0 0 16,000 47,000 0 0 0	DAVEA 165	0	STRATE,105 STRATE,120	\$1,000 60,000	1		PCONT.120	0	484 51 105
A Costs Total Interrigable Costs for Place for Costs for Place for Suffing fished Costing fished Costing fished Costing fished Costing fished Costing fished fishe	DWER.130 DWER.140 DWER.140 DWER.145 DWER.160 DWER.153	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000	STEATL105 STEATL120 STEATL400	\$1,000	1		PCONT.120 PCONT.400	0	484 51 105
NA Cents Total Interrigible Cent hire Pipe reductor Pipe reductor Pipe reductor Pipe reductor Centry reductor Centry termediale Casing 1 termediale Casing 2 filling Liner oduction Casing or Liner	DWER.130 DWER.140 DWER.140 DWER.145 DWER.160 DWER.153	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000	STEATL105 STEATL120 STEATL400	\$1,000 60,000	1 1		PCONT.120 PCONT.400	0	484 51 105
BA Casts Total stamplish Costs Trow Pipe and Cost Pipe and Cos	DWER.130 DWER.140 DWER.140 DWER.145 DWER.160 DWER.153	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0	1		PCONT.120	0	484 51 105 28
NA Costs Total Interrigible Cost five Pipe reductor Pipe reductor Pipe reductor Pipe reductor Costing reductor Costing reductor Costing remediate Costing 1 file file file file file file file file	DWER.130 DWER.140 DWER.140 DWER.145 DWER.160 DWER.153	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000	STEATL105 STEATL120 STEATL400	\$1,000 60,000 28,000	1		PCONTACO PCONTACS PCONTACS	0 0	484 51 105 28
A Costs Total Interrigable Costs tive Fige rock-Cost Pipe sets Subring risked Costing risked dock-cost risked dock-cost risked risked	DWER.130 DWER.140 DWER.140 DWER.145 DWER.160 DWER.153	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0	1 1		PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28
NA Costs Total Interrigible Costs The Pipe Track of Rep Track Costing Track	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	1		PCONTACO PCONTACS PCONTACS	0 0 0 59,000	484 51 105 28 60
NA Casts Boal Interrigible Cost for Pipe reductor Pipe reductor Pipe rescriber Casting rescriber Casting remediate Casting 1 remediate Casting 1 Remediate Casting 2 Rilling Uner soluction Tielling Casting 2 Rilling Uner soluction Tielling soluction Tie	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	1		PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 90 53
A Cests Total intergable Cost we Vigic rounds of Pipe reac Casting reac Casting remediate Casting 1 remediate Casting 2 Ring Linner duction Testing or Linner public Linner which Linner file Linner Testing Linner de Automation Materials Testing Testing or Visit Supériorent Cost Testing Testing Order T	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0	CONTLOR		PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 90 53
NA Costs Total Interrigible Costs Inter Pipe reductor Pipe reductor Pipe reductor String reduct Casting 1 remediable Casting 1 remediable Casting 2 Ring Union reduction Casting or Linear soluction Telefact thing Union reduction Casting or Linear soluction Casting Casting reduction Casting Casting reduction Casting	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000		183,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 60 55 101
A Cests Total intergible Cost we Pipe reducted Pipe feet Safing flace Casing remediate Casing 1 emediate Casing 2 Ring Lime duction Intellige displaced Casing 2 Ring Lime duction Televist Televist Engine which Ringhes Televist Engine displacement di Automation Materials Televist Engine Televist Engi	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTABS	183,000 64,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 600 539
A Cests Total Interrigible Costs we Pipe reductor Pipe reductor Sidney factor Casting factor fa	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN	183,000 64,000 179,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 90 53 182 64
A Cests Total Interrigable Cests we Pipe reductor Pipe reductor Pipe reductor String responding Cests reductor Te-Back charge reductor Te-Back charge reductor Te-Back charge reductor Te-Back	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAIN CONTAIN	183,000 64,000 179,000 24,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 60 539 537 188 64 179 24
NA Cests Total Interrigible Costs Interrigib	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAIN CONTAIN	183,000 64,000 179,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 60 535 188 64 1775 2-8
A Costs Total Interrigable Costs for Flipe Find Costs Find Flipe Find Costs Find Cos	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAIN CONTAIN CONTAIN	183,000 64,000 179,000 24,000 31,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 551 105 28 605 557 181 677 181 175 24
NA Costs Total Interrigible Costs Inter Pipe Inches of Pipe Inches of Pipe Inter Costs Interrigible	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS	183,000 64,000 179,000 24,000 31,500 36,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 551 105 28 605 557 181 677 181 175 24
BA Costs Total seargible Cost five Pipe Producer Pipe Pro	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAIN CONTAIN CONTAIN CONTAIN CONTAIN	183,000 64,000 179,000 24,000 31,500 6,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 551 105 605 553 181 607 175 243 343
A Costs Total Interrigable Costs tive Fige red. Class Fige red. Class Fige red. Class Fige red. Class Fig. red. Total Class Fig.	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS	183,000 64,000 179,000 24,000 31,500 36,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 511 105 22 605 535 182 677 177 24 24 23 34
NA Costs Total Interrigible Costs five Pipe reducted Pipe reducted Pipe reducted Pipe reducted Costing 1 termedable Casting 1 termedable Casting 2 filling Liner oduction Televic Costing or Liner oduction Televic tellular Costing or Liner oduction Costing or Liner oduction Costing or Liner oduction Costing or Liner oduction Televic tellular Costing tell	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAI	183,000 64,000 179,000 24,000 31,500 6 20,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 511 105 22 605 535 182 677 177 24 24 23 34
BA Cests Total heavytike Cost Total heavytike	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAIN CONTAIN CONTAIN CONTAIN CONTAIN CONTAIN CONTAIN	181,000 64,000 179,000 24,000 31,500 6 20,000 30,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 60 59 67 103 64 179 24 31 32 30
A Costs Total Interrigate Costs for Place for Place for Place for Place for String fished Casing 1 formedable Casing 2 formeda	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTARS	183,000 64,000 179,000 24,000 36,500 6 20,000 30,000 43,000	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 100 22 55 55 57 100 64 177 72 24 24 33 34
BA Costs Total starrythis total for Pipe for Pipe for String fisce Costin fisce	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAI	183,000 64,000 179,000 24,000 31,500 6 20,000 30,000 43,000 7,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 60 539 877 188 64 1797 24 331 343 443
BA Costs Total starrigible Costs free Place rever Place rever Sturing urface Costing urface urf	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTAIN CONTAI	183,000 64,000 179,000 24,000 31,500 6 20,000 30,000 43,000 7,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 60 539 877 188 64 1797 24 331 343 443
rine Pipe rine Pipe rines String rines Casing rines Casing rines Casing rines Casing stremediale Casing 1 stremediale Casing 2 stifling Liner rinduction Testing or Liner rinduction Testing or Liner rinduction Testing or Liner rinduction Testing rinduction Testing rinduction Testing rinduction reliable rines rin	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTASS	183,000 64,000 179,000 24,000 31,500 36,500 0 20,000 30,000 43,000 7,500 11,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51, 105, 28, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20
BA Costs Total Interrigible Costs Trive Pipe and Justing Pipe rector String unless Costing accomposition Costing 1 scennedable Costing 2 reduction Costing or Linear reduction The Back things Uner reduction The Back Total Trippies unerping Usel, Engine Total Trippies — Well Engineered those Engineered Total Trippies — Well Engineered To	DWELTIO DWELTIS DWELTIO DWELTIS DWELTIS DWELTIS DWELTIS DWELTIS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTLASS	183,000 64,000 179,000 24,000 31,500 0 20,000 30,000 43,000 7,500 0	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	16, 47, 484, 51, 105, 28, 20, 20, 20, 21, 21, 31, 36, 20, 30, 30, 43, 43, 7, 11, 11, 11, 11, 11, 11, 11, 11, 11,
BA Costs Total seargible Cost for Pipe and Joseph Pipe	DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS DWELLUS	0 0 16,000 47,000 0 0 0	DAVEA 165	25,000 G	STRATLIOS STRATLIZO STRATLAGO STRATLAGS	\$1,000 60,000 28,000 0 80,000	CONTASS	183,000 64,000 179,000 24,000 31,500 36,500 0 20,000 30,000 43,000 7,500 11,500	PCONTAGO PCONTAGO PCONTAGO PCONTAGO PCONTAGO	0 0 0 59,000	484 51 105 28 60 59 57 183 64 179 24 23 31 36 20

		SCP - Drilling			ACP - Deline			-Comp/Silm	
Description	Codes	20, 0,449	Amount	Codes	ACP-Differ	Amoun!	Codes		Armo
Roads & Location	D0DC.100		70,000				STBM.100)	10,0
Danages	DEDC.105		6,000						1 1
Mad/Flaids Disposal	DIOCESS		160,000				STB4.255		62/
		5 16 days at \$26,000/day			14 days at \$26,000/day	104,000			1 anti-
Day Rarbe					14 mays at actions und	104,000			:
Misc Preparation	000C130		35,000						1
,Blus	DEDC.125			0100.125		0	STRAL 125		
Fuel	DIDC.135	1,300 gal/day at \$3,00/gal	82,000	DICC130		. 0			
Water for Drilling Kig (Not Frac Water)	DEDC340	,	5,000	DICC185		0	STIMU135	(T)	24,0
Nud & Addines	- DIDC345		200,000	.!					
Surface Remails	DIOC 166	Per Day (BCP)/day	101000	DICE,140		. 0	STIME 140	. 7	189,0
Downhole Resta's	DIDCISS		10000				STIM.14S	1	7000
	UIUCISS	1	97,000	4			578K141		
Flowback Labor						!	218/(34)		
Automotion Labor									
Formation Enduation (OST, Coring, esc.)	DEDC:160		0			1	STRAISO	1	
Mud Lagging	DEDC:170	12 days at \$1,200/day	19,000						
Open Hole Logging	DIDC180	,		:		1		100	
Cornenting & Float Equipment	DEDCTES		65,000	DRCC155		160,000			
Tubular Inspections	DEDC:190		18,000	DICC160		5,000	STIAL160		40
Carsing Creas	DEDC.195			DICC165		20,000			
Medianial Libor	DIDC200		10,000	Dell' I I I					
			20,000	DIOC.170		10,000			
Trading/Iransportation	DIDC205			DIOC175		8,000	STIML F75		44
Sependalon	DIDC210			DIOC180		16,000	STRAIRS		74,0
Trailer House/Camp/Ortering	DEDC.280		29,000	DIOCASS		6,000	5TINL280		28,0
Other Misc Expenses	DIDC220		5,000	DICC190		0	STIM.197	1	115,0
Overhead	DEDC.225		10,000	DICC195		5,000			
Remedial Conventing	DEDC.231		0				5794215	¥-	1
MONDENION	0000231			1			J		
			75,000						1
Directional Drilling Services	DIDC245		225,000					E.	
Solids Control	DIDC260		72,000						
Well Constal Equip (Snubbling Services)	DIDCSES		72,000	DECC340		5,000	STB.(240		81,18
Rahlag & Sidetrack Services	DIDC270		0	DICC245		0	STELLEUS		
Completion It's	1.0						STRUITS		21.0
Call Tubing Services							STP4260		368,0
							ST344.200		400,0
Completion Lagging/Performing/Wireline	1					1 3		4	
Composite Plugs	100					1 2	STINLESSO		95,0
Schwalpsion	40						\$TBL210		2,526.0
Idmelation Water/Water Transler/Water							STINUTSS		702,0
Swarer Owned Frac/Rental Equipment							511942305		40,0
egal/Regulatory/Curative	DEDC.500		10,000						
Nell Control Programo:	DIDC285	60.74 db	6,000					0.00	
	UU-200	#430/IL	4,000						
Majer Countruction Overhead								¥2	ī
Real Time Operations Center	DIDCS60		0				STINLS60	1	
RUKOL - Lisbor									
RJGL - Supervision	2.7							4.1	
Survey									
SWD,/Other - Labor									
NYD/OTHER - SUPERIVESION									
		\$60 % of Drilling Intangibles		-			PT 4 200		257,0
Canangency	DIDUCAS	500 % or orang intangions	100,000	ULLES		17,000	57794,2220		C) III
Contingency									
NA Costs	1 0000588		0	DICC275		0			
Total Istangible Car	Ř.		2,08,000			356,000			5,401.0
the Fipe	DWEL150		0						. ,
onductor Pine			_						
	DWER130		0						
Natur String	DWER130	0.500-18000-0000-0	16,000						
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CIMAREX	Authorization For Expenditure	Drilling		AFE # 26621004
Company Entity				4/23/2019
Exploration Region Permian Basin	Well Name HAYDUKE 34-3 FEDERAL COM 4H	Prospect Carlsbad Bone Spring Prospect	Property Number 300001-131.01	AFE 26621004
County, State Eddy, NM	Location W/2 of Section 34, Township 25 Souti Courty, NM W/2 of Section 3, Township 26 South		Estimated Spud 1/1/2021	Estimated Completion 2/1/2021
	County, NM			0 - 10
X New Supplement Revision	Formation Wolfcamp Upper	Well Type To DEV	Measured Depth 19,000	Til Vetical Depth 8,700

Purpose Drill and complete well

Description

Drill and complete a horizontal test. Drill to 450°, set water string casing. Drill to 1876°, set surface casing. Drill to 1876°, set surface casing. Drill to 1878° (KOP). Drill curve at 12°/100° initial build rate to +/- 90 degrees 8610° TVD and drill a +/- 9420° long lateral in the Wolfcamp formation. Run and cement production casing. Stage frac.Drill out plugs. Run production packer, tubing and GLVs.

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,108,000	- R - F	\$2,108,000
Completion Costs		\$6,338,340	\$6,338,340
Total Intangible Cost	\$2,108,000	\$6,338,340	\$8,446,340
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$83,000	\$787,000	\$870,000
Lease Equipment		\$630,000	\$630,000
Total Tangible Cost	\$83,000	\$1,417,000	\$1,500,000
Total Well Cost	\$2,191,000	\$7,755,340	\$9,946,340

Comments On Well Costs

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

Well Control Insurance

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

i elect to purchase my own well control insurance policy.

Marketing Election

Cimares 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.

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

Comments on AFE

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

Nonoperator Approval		~~		
Company A	oproved By (Print Name)		Approved By (Signature)	1 Date
ANOTICE TO ANOTHER PROPERTY TO BE COME A PROPERTY OF	able from our order out a sale.	A commente of the	VFE, the consenting party agrees to pay its propo	
share of actual costs incurred. Overhead will b	e charged in accordance with ti	re Joint Operating	Agreement	4/23/2019

	BQ-	Drilling	ACP-	Dd Bi ng		750m		ion Equip	Post Cor Codes	Agrapart	Total
Description	Codes	Amount	Codes	Amount	Codes	Amount 10,000	COOKS	a ton	PCOM.100	28,000	
peds & Location	DEDC100	70,000			3100,100	14,000	COPLEGS			i	
ecologis	DECKS	160,000		V.	STRAZSS	62,000		, ,,,,,,,,	PC0M255	90,000	
Aud/Fluids Disposal tey Rate	DIDCIU	442,000	DECC.120	104,000				1		1	
disc Properation	DIDC.120	35,000				1				- 2	
Rs	DIDC.125	55,000	DICC.125		370ML125	0		:	PCONL125	0	
Fore!	DIDC.135	82,000	DECC.130	0		- 1			PCONL135	0.	
Water for Dritting Elig (Mot Frac Water)	DEDC:140	2,000	DECC.135	0	STIML135	24,000			PEDMETA	i	
Much & Additions	DEC145	500,000	DECC 140		ST84,140	400.000	CON.140	1 2000	PCDNL140	30,900	
Surface Rentx's	DDC155	104,000	DICK_MID	. 0	STIMANS	185,000	CO-CO-CO	2000	PODMINS	0	
Downhole Rentals	DECTSS	97,000	1 3		STRAINT	0.			PC0NL141	13,440	
Southern Labor Setemation Labor			- 3			°i	CONLISO	37,500	PCDML150	0	
execution Evolution (DST, Coding, etc.)	DDC160		17	i	STIMITS	o¹				i	
and tagging	DEDCTTO	19,000								-	
Open Hale Logging	DIDC380	0		i		1		1		1	
Commerciag & Flort Equipment	DIDCUS	65,000	DECE155	160,000			10	1	PCDM 150		
Subular bespections.	DEDC.330	18,000	DECC160	5,000	2378AL160	4,000			POMETO	0	
Caping Crews	DEDC.135	18,000	DECC110	20,000	STRATES STRATES	0	CONLTRO	151000	PC0M-170	0	
Medianical Labor	DEDC.200	20,000		10,000 8,000	STB4.175	4,000	CONLITS	19,000	PCOML175	0	
(rading/tamportation	DECAR	18,000		16,000	\$704,180	74,000	CONTRO	17,000	PCOML180	o'	
Supervision Frailer House/Carep/Catering	DEDC.280	39,000		£000	\$704.280	28,000				:	
(paller House/Carep/Catering Other Misc Expenses	DEDC.220	5,000			57(M.190	115,000	CON.190	10,000	PC0M.190	0,	
Distributed Distributed	0000225	10,000		5,000							
Remodul Comenting	DEDC231	0		:	STIME	0			PCOM21S	0,	
MOS/DEMOS	DDC240	75,000				-					
Directional Drilling Services	DIDC345	225,000		1				I			
Solids Control	DEDC250	72,000				i				إ	
Well Control Equip (Smithbling Services)	DIDC262	72,000	DROCS40		5TMA.246	81,000	1	1	PCOM240	9	
Rishling & Sidetrack Schillers	ODCZ70	0	DRCC245	. 0	\$794245	0		:	PCOM245 PCOM115	0	
Completion Rig	i		11		STOM 115	21.000		1	PCDM.280		
Doll Tabling Services	1				ST94.260 ST94.200	368,000			PCOM200	0, 0,	
Coropietion Logging/Perfecting/Wireline				1	ST94200	400,000 96,000		1	PCOM-200	0.	
Coroposite Plugs			n' e		579AL210	2 926,000		1	PCOM210	0	2
Clembrico Pomping/Chemicals/Additives/Sand	ļ				STREAMTE	702,000		1		- 3	-
Silmulation Water/Water Transfor/Water Stomge Consum Owned Frac/Rental Equipment	1				STM.305	40,000		1	PODMLINS	0:	
Consum Owned Frac/Rental Equipment Lagal/Regulatory/Consides	0000	10,000	!	13			CONUM	. 0	1	1	
Meli Control Insurance	DIDC285	6,000		1		·		1	i i	ţ	
stator Construction Overhead				. 8			CONJUS	21,500		1	
Real Time Operations Center	DEDCS60	0	12	1	STRAS60	0		1	1	}	
R/GL - Lebor			- 7				CONUM	\$4,580	!		
RJGL - Supervision	I		;		ì		CONUMS	3,300	i		
Survey	İ						CONUSTS	. 0	4		
SWEL/Didner - taskor			1	1	1		CONUED			1	
NORWER-SUPERVISION	ĺ		1				CONLARS	0	BC0M220	أم	
Contingency	DEDCASS	100,000	DIOC220	17,000	STM.220	257,000	CONLEGE	1 87,500 8,000	, contra	v,	
Contingency					:		CUPCIE	(4,000		i	
thA Costs	DIDCZBS	0	DRCX_2/5	366.000		5,401,000		419,000		162.340	1
Yotal Inquestole Com	DWELTSO	2,108,000	4 -	356,000	0.00	Markey					
Dive Pipe Conducted Pipe	DWELTED	0	t .	:				l .	!	i	
Amer String	DWEL135	16,000						•		:	
urtace Ceding	DWEELS-60	47,000	1	1	1		į	i		ì	
niermofiete Casing 1	DWELS45	0			1				i	-	
njermediste Oning 2	DMET 322	ō			7			1	b	1	
dising Liner	DWEL163	0	1		1		Ε.			i	
Production Casing or Liner			DWEA100	,	t ,			1	1		
voduction Tie-Back	1		DWEA 165	0	STIMIT.101	0				, i	
hibling	1		ì		STEATL105	51,000		i	PQ0947,905	0,	
Wellhead, Tree, Chokes	DWEL115	20,000	DAVEA.TZO	25,000	STD-ET.120	60,000			PCOMIL130	٩	
Jner Hanger, Isolation Packer	DAMES 100	0	DWEA125	0	-		(i	PCOMT_400	, i	
Packer, Mipples					STEMT.400	28,000	1		PCDMLADS	0	
Pumping Unit. Engine		(C)		1	STEMITATE	80,800	1	!	PCOMT/110	0,	
Downhole Lift Equipment	İ	22	i		SWHIAM	40,400	ŀ	:	PCOMT,420	59,000	
Gerface Equipment Anti Automotion Materials	Į		!	1	:			•	PODMEASS	0	
		90,000		308.000	1	219,000			1	\$9,000	
Total Tangfals - Well Equipment Cod UC Lease Equipment		THE	1	Latinating.	1		CONT.400	183,000			-
UC Lease Equipment Seds, Yaoks Steps, Stain	Į.	I					CONT.405	64,000		1	
lattery Equipment	i	:	9				CONTARS	179,000	!	i	
Secondary Contributed	!		1				CONTAIS	24,000	j,	1	
Directional Planer Distribution	i						CONTAGE			į	
Section Description	1		:	1			CONTACS	36,500	:		
decommendation Equipment	1		4	!			CONTARS		1	;	
Maters and Metering Equipment			1				CONTAS	20,000	1	ì	
edity line Pipe			i	1	:		CONTASO		i	1	
ance Antomotion Materials	Ē.		1				CONTASS	43,000		i	
PL/GL - Materials				1	i		COHTSSS	7,500	ţ	4	
PLASE - Line Pipe	i						CONTRE	11,500	i	4	
William Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the C			1	į.	I .				1	1	
Senta Other - Materials							COMPANY			- 1	
Sett Chine - Materials Sett (1998 - Link) PPE Sett Brights - Land Systemat Con			96	-			CONTACT	630,000		į	•

CIMAREX AH	rthoriza I		litur	re - H	IAYDUI		AL COM			6621004
1	- 5 .	BCP - Drifting				ACP - Diffling		2.7	Comp/Scin	1.71 3
Description	Codes				Codes		Amount	Codes		Amount
Resads & Location	000C305			70,000				STRACTOR		10,000
Mani/Fluids Dispessi	DIDC255			6,000				STRILESS		62,000
Day Retr		16 days as \$26,000,40m				4 days at \$25,000 Hey	104,000			82,000
Adhe Perparation	DDC.120			35,000		- wys at secondory	10000	į		'
	- DEDC-125				DECC125		. 0	STRAIRS		i o
Food		1,300 gal/day at \$3,00/gal		82,000	DIOC.130		0	!		1
Motes for Disting Rig (Not Frac Winer)	DIDC140				DICC.13S		1 0	STPATES		24,000
Mapd & Additives	. 00046			200,000	1					; 1
Surface Services		Per Day (IKCP)/day		104,000	DICC 140		0		*	189,000
Openhale Kentals	DIDC.153			97,000			N. 13	STEALING		. 0
Rouback Labor	:							STALINI		0
Autoration Labor							:=v 19			1 1
Ferentian Britanian (DST, Coring, etc.)	DECMO			0			I	STIMU350		0
Mad Logging		12 days at \$1,200, day		19,000			100			i 1
Open Hole Loggleg	DEPC180			0						1
Censesting & Flort Equipment	DECTIO		100	65,000	DIOC122		160,000			1
Tubular laspections Casing Crees	DIDCHS			18,000	DECC160		5,000 20,000	SUPPRE		4,000
Afrehaded Labor	, DEDC300				DICC.179		10,000	STIMETON		2
Trucking/Temportation	D00C205				DICC175		8,000	STRATES	8	4,000
Separation	DEDC.210			SHOW	DECCTION		16,000	S794.300		74,000
Traffer Hoose/Comp/Consisting	. DEDC380				DICCSIS		6,000	STRAZEO		28,000
Other Misc Departures	DIDC220			5,000	DICC.190		. 0	STPALTED		115,000
Quedical	DEDC.225			10,000	DECCHIS		5,000			
Namedal Conentry	. 0000231			C				\$194213		. 0
MOS/DEMOS	DIDC.340			75,000			管 :			7
Directional Drilling Services	\$10C342		+ 2	225,000			fi si		at the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the	1
Solida Control	, DIDC280			72,000			1			- 2
Medit Central Speip Cirubbing Services	04DC265			72,000	DECC340			\$784,240		81,000
Fishing & Sidetreck Services	, mmc53.0			0	DRCC245		0,	STHANG		0
Completion Fily	1						;	STIMUTES		21,000
Call Tobbig Sanicus	4			- 13				ST3M260		368,000
Completion Logging/Perforating/Wirefree	i						ři.	STIM200		400,000
Composite Plags								STP-L390		96,000
Stimulation	1			1.6				STIME		2,926,000
Stimulation Water/Water Transfer/Water Omeans Gened Frac/Fertral Equipment	*			1			20	STIM-SUS STIM-SUS		702,000
	020C.600						\$ i	3794,305		40,000
Lagel/Regulatory/Carative PMcE Central Investorce	DEDC.285	50 TS #h		6,000			1			1
Abler Contraction Contract	1	and an	١.	4,000			. 3			t t
Rest tilere Operations Center	DEDC.560			0			. 1	STB4560		
FL/GL - Labor	Jucan						1	210000		
PLACE - Supervision	+			- 1			i			t
Sorvey	4						1			*
SWD/Other - Labor	1			2			1			1 1
SWD/OTHER - SUPERVISION	1									
Contingency	DOCASS	500 % of DelDing Intangibles	1	00,000	DICC220		17,000	STB4,220		1 257,000
Condegency	5						1.0			
PSIA Costs	DIOCASS			0	DIOC.275		. 0			1
			2,1	1000,000			356,000			5.40U00
Dive Pipe	DWEB.150			0						1
Conductor Pipe	DWEL130			0,						1 1
Water String	DMET152			16,000						
Surface Casing		9 5/8" - 1,87621 at \$25.00/81	1 .	47,000						
Intermediate Casing 1	DWEL155			0						. 1
Intermediate Casing 2	DWE8.153			0;			1			
Dritting Unor Production Casing or Unor	DHIA. NO		1	٥,	DIME!	\$ 1/2" - 18,400th at \$25,00/h				1
Production Titr-Beck			4		DWEATES	ant - relation on paymont.		191,714172		
Trobleg				- 1	_ ~~~~				2 7/6" - 7,2500: at \$7,00/0	51,000
	DWEL 115			20,000	DWEAT20			STIME, 120	· · · · · · · · · · · · · · · · ·	60,000
	ENVER-100		1		DWEATS .		8			Ī
Packer, Alpplics			-	-1				S10-07/00)		28,000
Pumping Unit, Engine	1			:			1	STANTARS		. 0
Downbole UN Equipment	t						- 1	STB-67,410		80,000
Sortace Equipment				1						1
Well Automotion Materials		100			18				2000	
Yotel Dargible - Well Equipment Cost			-	93.000 :		100	-	1		218,000
N/C Lease Egolpment						1 016 6		77.	27. 1.00	
Turaks, Taraks Steps, States				1						
Battery Equipment				1			1			
Secondary Containments	1			1			1			-
Overhead Power Distribution	0						- 1			2
Facility Bectrical Felecommunication Equipment				3			1			
Meters and Meterlag Equipment			1	- 5			! !			
Facility-Line Pipe						-	: i			
Leans Association Managhili					0.5					
R/GL - Matterials				3			. [
RL/GL - Une Pipe				2						
SWD/Other - selectors				+	1.0	19				
SMOVOTHER - LINE POPE						1.0	1			

2,191,600

E	Production Equip	Service of	_	Post Completion	A	Total
Description Reads & Location	Codes	Amount		Pad/Road Clean Up	28,000	116,50
Decarges at Location	CONLIGS	1,000	PCONL100	Padyrome Close up	20,000	7,000
Med/Fields Dispossi	CONCINO	1,000	BOOM 255	6,000 BMPD for 60 days @ \$0,25/bbl	90,000	
Day Ratu	1		roman	1	, ,,,,,,,	546,000
Misc Preparation	ž.	1			0:	35,000
Miles		i	PCOM-125		0	
Food	1	1	PCOML130	1	. 0	82,000
Winer for Drilling Rig (Not Frec Water)	T.	1	PCCMAT35	1	0	
Mad & AdSidner	1	1 0		•	1:	200,000
Surface Rentals	CONLINO	2,000	PCDAL140	\$1,030/d for Production Target of 30 Days	30,900	325,900
Downhole Restals		-	PCOMITIES	1	. 0	97,000
Flowback Labor	\$6	72	PCONLIST	15960At for Production Target of 14 Day	13,440	13,440
Automation Labor	CON. 150	37,500	PC0M150		0	37,500
Formetion Evaluation (DST, Coring, etc.)	1	1		1	E 3	
Mod Logging					\$1 P	19,000
Open Hale Lagging	4	i 5		i	1	
Cerearding & Float Equipment	T.	. 8		1		225,000
Tubelic Repedions	i.		PCOM.160	i	; 0	27,000
Casing Crews	7.	:				30,000
Med-man Labor	CON.170	154,000	PCONLT70	1	0	184,000
Trecking/Transportstion	2 CORLITS	19,000	PCOMUTES PCOMUTES	1	0	49,000
Supervision	COX.160	12,000	PCONUMB	i	0	190,000
Trailer Hossa/Camp/Critering		i			10	73,000
Other Max Expenses	C094,190	10,000	PCGMA190	9	0	130,000
Overhead		1				15,000
Remedial Conventing	I.	ì	PCDM215	:	. 0	0
MOS/DOMOS	10					75,000
Directional Desiring Services		1		ı		225,000
Solids Control Mail Control Fords (Contributes Control)	E.		BC014340		1 1	72,000
Well Control Equip (Screbbing Services) Fishing & Sidetrack Services	1	1	PCDM245	1	0	158,000
Completion No.		100	PCOAL115	;	ر ه	21,000
Coll Tubleg Services	1		PCOAL260	l .		368,000
Completion Logging/Perioreting/AW/retine		(c) (c)	PCONL200		0	400,000
Companie Page	1		PCOM-250			96,000
Situation Pumping/Chenicals/Additives/Sand	1	F	PCOMZTO			2,926,000
Stimustation Water/Water Transfer/Water		100	rounceio	:		702,000
Ornarcs Owned Frac/Rental Equipment	1	100	PCOM/305			40,000
Legal/Regulatory/Covering	CON.300	D	-		,	10,000
Wed Control Innormace	1			6	: :	6,000
Major Contraction Deathard	CONTRE	21,500				21,500
Real Time Operations Center		LI DOU			1	0
PLASL-Liber	CONSO	54,500				34,500
RJG - Supervision	CONUSES	3.500			i	3,500
Survey	CONUSTS	. 0				0
(SWD/Other - Labor	CONTESS		- 1		1	0
SMID/OTHER - SUPERVISION	CONLEGS	. 0			, 1	0
Confegorcy	CONLEGE	87,500	PCON220		o o	461,500
Contingency	CONUZ1	8,000;				8,000
NAA Costs		السيا			!	0
Total intergible Cost.		478,000			162,340	8,446,340
Delve Pipe						0
Conductor Fips	35				. :	0
Water String					. !	16,000
Sortice Casing		-		:		47,000
Intermedists Coing 1		2 20				0
Intermediate Casing 2		- 1			1	0
Dolling Uner		:	4		1	0
Production Casing or Lines Production Tie-Back					1	484000
Tobing :		14.	PODMICTOS !	i	0	51,000
Widheed, Tree, Chokes			PCOMIL 120		0,	100,000
Liner Hanger, Itolation Packer		1	:		,	115,000
Padict, Nigolics			PCZNATARO	ı	0.	28,000
Pumping Utili, lingine			PCONTLAGS :	i	0	24,000
Downhole Lift Equipment			PCONT/410		0	80,000
Surface Equipment				NEC Owned Sand Separator	59,000	000,02
Well Assemblion Materials			COMTASS		0	امتدد
Total Treatile - Well Resignant Cont		***			59,000	670,000
N/C Leane Squipment	CONTAGO	183,000	- 1		.2440	183,000
Tanks, Tanks Steps, Stales	CONTLAGS	64,000	-		1	64,000
	CONTAIN	179,000	1	1	1	179,000
Secondarly Contributests	CONTAIS	24,000			1	24,000
Overboad Power Distribution	CONT./Q0	31,500	1	i	:	31,500
	CONT.QS	36,500	1		1	36,500
Telecommunication Equipment	CONTEASS	0		8	1	0
Meters and Metering Equipment	CONTAIS	20,000		. 10	:	20,000
Facility Line Pipe	CONTASO	30,000,	1	g I	ĺ	30,000
	CONTLASS	43,000		;	1	43,000
	CONT.550	7,500	1	1	1	7,500
FUGL-Line Pipe	CONLT222	11,500	-	0.00	i	11,500
	CONTL650	0		65		0.
SWEA/OTHER - LINE PIPS Total Targetile - Lines Significant Cost	CONTLESS	630,000		to the services	10.100.00	630,000

CIMAREX	Authorization For Expenditure	Drilling		AFE # 26621005
Company Entity				Date Prepared 4/23/2019
			_	_ 1777
Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	HAYDUKE 34-3 FEDERAL COM SH	Lea Prospect	300001-132.01	26621005
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	SHL: W/Z of Section 34, Township 25 Eddy County, NM	S South, Range 26 East,	1/1/2021	2/1/2021
	BHL: W/2 of Section 3, Township 26 County, NM	South, Range 26 East, Eddy		
X New	Formation	Well Type	Tti Measured Depth	Til Vetical Depth
Supplement Revision	Wolfcamp Lower	DEV	19,900	9,600
Purpose Drill and cor	nplete well			
Description				
12°/100' in	emplete a horizontal test. Drill to 450°, set wate final build rate to +/-75 degrees and set casin lasteral in the Wolfcamp formation. Run and co	g at +/- 9455' MD. Finish curve a	t +/- 4°/100' to +/- 9340' TVD	and drill a +/-
		2 14 2 14 2	Same Village	e di mineta
Intangible		Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs		\$2,586,000	\$6,225,840	\$2,586,000 \$6,225,840
Completion Costs		£3 £85 600		\$8,811,840
Total Intangible Cost	0 9 9	\$2,586,000	\$6,225,840	36,611,640
Tangible		Dry Hole	After Casing Point	Completed Well Cost
Well Equipment		\$376,000	\$569,000	\$945,000
Lease Equipment		0.00	\$203,500	\$203,500
Total Tangible Cost		\$376,000	\$772,500	\$1,148,500
Total Well Cost		\$2,962,000	\$6,998,340	\$9,960,340
Comments On Well Cos	its			
	equipment is priced by COPAS and CEPS guid	lelines using the Historic Price M	ultiplier.	
Well Control Insurance				
Operator so long as Operato control insurance, you must	elow, you, as a non-operating working Interes or conducts operations hereunder and to pay y provide a certificate of such insurance accepts encement of drilling operations. You agree th procured by Operator.	your prorated share of the premis able to Operator, as to form and I	ims therefore. If you elect to plimits, at the time this AFE is re	purchase your own well turned, if available, but
l elect to purch	nase my own well control insurance po	oficy.		
Marketing Election				
insufficient volumes delivere Upon written request to Cim	m's-length contracts with third party purchas d over time. Should you choose to market yo arex's Marketing Department, we will share wi ned an election to market your gas with Gimar	ur share of gas with Climarex, you ith you the terms and conditions	will be subject to all of the te pursuant to which gas will be	rms of such contracts.
l elect to take n	ny gas in kind.			
I elect to marke	et my gas with Cimarex pursuant to the	e terms and conditions of it	s contract.	
Comments on AFE				

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of paud casts incurred. Overhead will be charged in accordance with the Joint Operating Agreement.

423/2011

	BCP-	Drilling	ACP-	Drilling	Com	p/Stim	Product	on Equip_	Post Con	spietion	Total
Description	Codes	Amount		Amount	Codes	Amount	Codes	Arnount	Codes	Amount	C
tands & Location	DIDC100	95,000			STINL100	10,000	CONLINO		PCCNL100	28,000	138,5
итвусь	DIDCTOS	6,000					CONTRO	1,500			7.5
bul/Fluids Dispossi	DDC253	160,000			STIML253	62,000			PCOM2SS	75,000	297,0
ay Rate	DECTIS	494,000	DICC120	104,000							598,0
fise Preparation	DIDCT20	35,000									35,0
is .	0.000,125	75,000	DIOC125	8	ST04.125	0			PCOMU125	0	75,0
	DDC133	90,000	DICC.130	0					PCOMUSED	0	90,0
Ager for Origing Rig (Not Frac Water)	DIDC140	5,000	DICC135	0	STIAL135	24,000			PCOM-125	0	29,0
hed & Additions	DDC145	198,000		•		2-48-0					198,0
rrisce Rentals	DIDC:150	112,000	DXCC.140		STD4.140	227.000	COPL140	2.500	PCONUNO	30.900	382.4
	DDC:155		DICCHO,	v	STDA.143	23/200	Care in the	2300	PCONLINS	0	142,0
overhole Rentals	DIDC133	142,000			STIMULES				PODILINI	13,440	13,4
owback Labor					STIME	0	******				
atomation Labor							CON.150	16,500	PCDAL190	0	16.5
sensities Eveluntion (DST, Coving, etc.)	DIDC.160	0	- 1		STIM 190	0	,				
ud Logging	SEC.TR	22,000									22.0
pen Hole Lagging	DIDC.180	0	1								
enersing & Float Equipmens	DIDC.18S	145,000	DECC 153	63,000							208,0
dular Improlons	DOC.190	50,000	DECC.160	5,000	STULLIED	4,000			PCCD4L160	0	59,0
ning Cres	DDC.195	20,000	DICC163	13,000	STEAL YES	D					23,0
achenical Labor	DDC200	20,000	DECC.170	10,000	ST04.170	o	CONLT70	77 500	PCOML170	0	102.5
	DIDC205	24,000	2000				CON.175		PC084,175	0	45,5
ucióng/Transportation		25,000	DICC.175		STBA.175					ő	209.5
pervision	DEC210	96,000	DICC.180 (STINALISO	94,000	CONTRO :	3,500	PC094L100	U	
ailer House/Camp/Catering	DEC.280	42,000	OICC255	6,000	21BY 580	34,000					82,0
ther Misc Expreses	DIDC220	5,000	DICC.190		ST344.190	155,000	CDNL190	13,500	PCCIAL 190	0	173.5
opticad	DIDC225	10,000	DICC.195	5,000							15.0
medial Cementing	DDC231	٥	i		STIMZIS	0			PC094215	0	
OLUDDACE	000240	100,000				•					100.0
	000245										339,6
irectional Drilling Services		339,000					1				80.6
dids Control	DIDC260	80,000							PC084240		
tell Control Equip (Stratibing Services)	0000265		DIOC240		STB4.240	109,000				0	194.0
dring & Sidetrack Services	DEDCZ70	0	DICC245	0	SUMMA	0			PCON245	0	
propietion Rig					STDATIS	21,000			PCONUTS	0	21,0
pil Tubing Services					STIM:260	368,000			PCOM260	0	368,0
ompletion Logging/Perforating/Wirefine			1		STIM 200	432,000			PCOM200	0	432,0
proposite filings					STIM-310	96,000			PCOM.399	0	96,0
inutation Pumping/Chemicals/Additives/State					STIAL210	2 926,000			PCOM210	0	2,926,0
instalion Water/Water Transfer/Water Storage			1		STIM.395	702,000					702,0
			i		STIM 305	40,000			PCCD4.30S	0	40.0
merex Owned Frac/Rental Equipment					SUMLING	40,000	CON.300	٥	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	10,0
gal/Regulatory/Catadire	DEDC.300	10,000	٠ .				CURCIO	0			
rell Control travence	ODCSE2	7,000									7.0
ajor Construction Overhead							CONJOS	12,000			12,0
ed Time Operations Center	DEDC.360	0	1		STIM.560	0					
/GL-Labor			,				CON.500	65,500			65.5
/GL - Supenisses			1				CON.505	5,000			5.0
avety			*				STEMOS	0			
A/DAOsher - Labor			:				CONLEGG	0			
			- 1				COPLETS	0			
WO/OTHER - SUPERVISION			4							_	432,0
erongency	ODCA35	123,000	DICC220	12,000	STIM.220	266,000	CDN220 1		PCOALZZ0	0	
ontingency							CON221	10,000			10,0
BA Costs	DDC285		DICC.275	0							
Yotal intergible Cost		2,586,000		247,000		5,384,000		247,500		147,340	a.atu
ive Pipe	DWEB.150	0									
nductor Fire	DW68.130	0					1				
	DWEB.135	16,000									16.0
oner Saring		48,000					1				48.0
erface Cealing	DWER 140										292.0
Sermediate Casing 1	DWER,145	292,000									252,0
sermedistz Codeg 2	DW66,153	0					1				
fling Liner	DWEL160	0									
oduction Casing or Liner			DAYEA 100 I	148,000			1				148,0
edection Tie-Back			DWEA16S		STB-IT,181	0					
ping					STIME 105	71,000			PCONT.105	0	71,0
oling offread, Tree, Cholors	DWE8.115	20.000	DWEA130	70.000	STILLT.120	60,000			PCONT.120	o	105,
	DWE3.100	24,000	DWEA125			artorn	1			•	98.1
ner Hanger, Isolation Packer	JMES.100	0	SHEALO	98,000	C74.00				PCONT,400	0	28.0
icker, Mipples					ST(M)7,400	28,000			PCONT,405		48.1
omping Unit, Engine			ŧ		STBMT AQS	0				0	
ownbale LIPL Equipment					STBMT.410	80,000			PCOMT,410	0	80.0
wisce Sepipment									PCDN/TA20	\$3,000	59,0
ell Automation Mittriels							-		PCOMPLASS		
Total Tenglisic - Wolf Equipment Com		376,000		271,000		239,000				59,000	9451
/C Lease Equipment							CONT,400	48,000			48,0
Ats, Yanks Steps, Stains							CONTA05	0			
occ, sees sucps, source exery Equipment			ŧ.				CONTATO				60.5
			1				CONTAIS	9,500			9.1
condery Contributions			1								72
rethead Power Distribution			:				CONTACO S				
dility Electrical							CONTACS	15,000			15.
leconmunication Equipment			1				CONTACE	. 0			
esers and Metering Equipment							CONTAIS	15,500			15,
dity Une Pipe			1				CONTASO	10,000			10.
ouy une repr ase Assomrées Materials							CONTASS	19,000			19.
							CONT.550	10,000			10,
/GL - Materials											16.
							CON17.555	16,000			16,
							CONT.ESO	0			
/GL - Line Pipe MT/Other - Materials											
MT/Other - Materials MT/OTHER - LINE PDFE						-	CONTASS	. 0			
	1 W 100 10 10 100 100 100 100 100 100 10						COHTASS	203,500 451,000		205,340	203



CIMAREX Authorization For Expenditure - HAYDUKE 34-3 FEDERAL COM 5H

AFE # 26621005

Description Reads & Location									
	Codes	BCP - Drilling	Anna an	Codes	ACP - Drilling	Amount	Codes	Comp/Stim	Amount
	DEDC.100					Amount	57P4 100		
			95,000				2104100		10,000
Dominges	DEDC-105		6,000						
Mad Fleich Disposa!	DEDC255		160,000				SUDVESTS		Q,000
Day Rate		18 days 21 \$26,000/day		DICC120	4 days at \$26,000,4day	104,000			
Mise Preparation	DEDC.120		35,000						
U cs	DEDC125		75,000	DIOC.125		0	STOL 125		
feel	DEDC_135	1,500 gal/stay at \$3.00/gal	90,000	0100130		0			
Water for Drilling Rig (Not Frac Water)	DIDC.MO			DICCYIS		0	STP4.135		24,000
Med & Additives	DEDCMS		198,000				3114.150		24,000
Surface Rentits		Per Day (SOP) / day					STINLING		237.000
		PAT DUTY DICT (FORTY	112,000	5000140		0			
Downhole Rentals	DEDC.155		142,000	•			STALIAS		0
Rowback Labor							SLDY 141		0
Automotion Labor									
Formation Evaluation (DST, Coring, etc.)	DEDC160		0				STIMU150		0
Mad Lagging	DUDC.170	14 days at \$1,200/day	22,000						
Open Kate Lagging	DIDC:180		٥						
Comenting & Float Equipment	DIDC 185		145 000	DECCISS		63,000			
Tubular Inspections	DEDC.190		50,000	DIOC160		5,000	STIMU160		4,000
	DEDC.195		30,000	DICCIES		13,000	STRAIGS		0,000
Casing Gravs			20,000	0,000.00					_
Medianical Labor	DEDC200	,	20,000	DICC.170		10,000	STBL 170		0
Trudding/Traceporation	DEDCZES			DECC175		8,000	STIMIN		4,000
Supervision	DEDC210			DICC.180		16,000	STB4,180		94,000
Trailer House/Comp/Cotoring	DIDC280		47,000	DECCESS		6,000	STB4.280		34,000
Other Misc Expertses	DEDC220		5,000	DICC_190	í .	0	STB4,190		155,000
Overhead	DEDC_225		10,000	DICC195		5,000			
Remedial Cornerding	DIDC231		0				STB4215		0
MOS/DEMOS	DEDC240		100,000		,				· ·
Directional Delling Services	DIDC2/S								
	DEDC265		339,000						
Solids Correrol			80,000						
Well Coronal Equip (Sautraing Services)	DEDCSES			DKC240			STB42340		109,000
Febring & Sidetrack Services	080C270		0	DICC245		0	5784245		0
Completion Rig							STBALTIS	1	21,000
Coil Tubling Services							STIM.260		368,000
Correlation Lagging/Perforating/Wirefine							57,04,200		432,000
Companie Plags							STB4.350		96,000
Scientifican							\$134,210	1	2,926,000
							STIMATE		
Schnulzdon Water/Water Transfer/Water									702,000
Cimares Owned Trac/Rental Equipment							SUMME		40,000
lagal/Regulatory/Curative	DZDCJ300		10,000						
Well Control Insurance	D1DC285	\$0.35/k	7,000						
station Communication Overhead									
leal Time Operations Center	DFDC.560		0				STDA.S60		0
IVGL - Labor									
RL/GL - Supervision									
lavey									
SWD/Other - Labor					•				
SWO/OTHER - SUPERVISION									
Consingency		500 % of Drilling Imangibles	123,000	OXCC220		12,000	STIMUZZO		266,000
	DEDCASS								
Contingency									
	DIDC.295		0	DICC.27S		0			
Cordingency PEA Costs Total Isotrophia Co	O(DC.295		0	DICC.27S		0		1	5,584,000
PEA Costs Total Scrongbile Co	O(DC.295	1.0 × 0.00 000 000 000 000 000 000 000 00		DICC.27S	- 41 - 12 - 12 - 12				5,584,000
Tabl Israeghin Co Drive Fige	0000295	I S & BANK MANY NO SERVICE	2,586,000 0	DICC.27S	- All Marks	0			5.584,000
YEAR Costs Tatal licensylvin Co Triver Pipe Conductor Pipe	DWEA150	A COMPANY NO THE STREET	2,586,000 0 0	DICC27S		0			5.584,000
PEA Costs Yand topographs Co Trive Pipe Conductor Pipe Nater String	OIDC295 OWER150 DWER150 DWER133	5 Ser - 1 0000 - Fre cont	2,586,000 0 0 15,000	DICC.27S	- 44 - 70	0		- 1 175 and	5.584,000
Mich Costs Table Examples Co Table Examples Tab	DWEL130 DWEL130 DWEL135 DWEL140	9 SAST = 1,900th pt \$25.00/h	2,586,000 0 0 16,000 48,000	DICC.27S		0			5.584.000
MEA Crees Yand learningfilm Co Trive Pipe Conduction Pipe Natire String Indian Cooling Intermediate Geolog 1	DWER.150 DWER.150 DWER.150 DWER.150 DWER.140 DWER.145	9 SAT - 1,500n at \$25.00/h 7" - 9,560h at \$22.00/h	0 2,586,000 0 0 16,000 48,000 292,000	DICC27S		0			5.504.000
PLA Coets Yall lexengible Co Drive Fine Lendvictor Pipe Nater String struker, Crising struker, Crising struker Cating 1 mornedater Cating 2	DWEE130 DWEE130 DWEE130 DWEE135 DWEE140 DWEE145 DWEE155		2,586,000 0 0 16,000 48,000	DICC27S		0			5.584,000
MEA Crees Yand learningfilm Co Trive Pipe Conduction Pipe Natire String Indian Cooling Intermediate Geolog 1	DWER.150 DWER.150 DWER.150 DWER.150 DWER.140 DWER.145		2,586,000 0 0 16,000 48,000 292,000 0			0			5.384.000
PLA Coets Yall lexengible Co Drive Fine Lendvictor Pipe Nater String struker, Crising struker, Crising struker Cating 1 mornedater Cating 2	DWEE130 DWEE130 DWEE130 DWEE135 DWEE140 DWEE145 DWEE155		2,586,000 0 0 16,000 48,000 292,000 0		.4 1/2" - 11,250t at \$12,00/h	247,000			5384000
PEA Coets Yand boompible Co Conductor Pipe Nater String Unifice Cising Unifier Cising Harmediate Casing 1 Harmediate Casing 2 Noting Line Noting Line	DWEE130 DWEE130 DWEE130 DWEE135 DWEE140 DWEE145 DWEE155		2,586,000 0 0 16,000 48,000 292,000 0		.4 1/2" - 11,250k or 512.00/hr	247,000	STANT.161		5384000
Yand koongilin Co Sirker Pipe Canduccor Pipe Nater String Surface Cosing Surface Cosing Surface Cosing 1 recornections Casing 1 recornections Casing 2 Julius Juner Production Casing or Uner Production Casing or Uner Production Tel-Bact	DWEE130 DWEE130 DWEE130 DWEE135 DWEE140 DWEE145 DWEE155		2,586,000 0 0 16,000 48,000 292,000 0	DWEA100	.41/2" - 11,250k or 512,00/m	247,000	STAVI.101 201.TMT2	3-1/2" - 7-500h m 51 000h	D
With A Contex The Incomplish Co. Software Pipe Asker String For Losing For Cosing Fo	DWEL150 DWEL150 DWEL150 DWEL160 DWEL160 DWEL160 DWEL160 DWEL160		2,586,000 0 0 16,000 48,000 292,000 0	DWEA100 DWEA16S	.4 1/2" - 11,250ft or \$12,00/ft	247,000 247,000 148,000 0	STEATT.105	3-1/2" - 7,530h at \$1,000h	0 71,600
PEA Costs Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Total locality Individual locality Individual locality Individual loca	DWELSO DWELSO DWELSO DWELSO DWELSO DWELSO DWELSO DWELSO DWELSO DWELSO DWELSO DWELSO		0 2.586,000 0 0 15,000 48,000 292,000 0	DWEA100 DWEA16S DWEA12D	4 1/2" - 11,250k or 512,00/h	247,000 148,000 0	STANT.101 STANT.105 STANT.12C	3-1/2" - 7,530h at \$1,004	D
What Costs The Foot And Incomplish Co. And	DWEL150 DWEL150 DWEL150 DWEL160 DWEL160 DWEL160 DWEL160 DWEL160		0 2.586,000 0 0 15,000 48,000 292,000 0	DWEA100 DWEA16S	.4 1/2" - 11,250k w: 512,00/h:	247,000 247,000 148,000 0	STEAT,165 STEAT,120	3-1/2" - 7,530h at \$1,000h	0 71,600 60,000
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What Cases Yeal lecangible Co. When Foce Londwiczer Pipc Londwiczer Pipc Londwiczer Pipc Londwiczer Pipc Londwiczer Pipc Londwiczer Pipc Londwiczer Long Londwiczer Long Londwiczer Long Londwiczer Long Londwiczer Long Long Long Long Long Long Long Long	DWER.130 DWER.130 DWER.130 DWER.145 DWER.145 DWER.145 DWER.145		0 2.586,000 0 0 15,000 48,000 292,000 0	DWEA100 DWEA16S DWEA12D	.4 1/2" - 11,250k w: 512,00/h:	247,000 148,000 0	STEATLISS STEATLISC STEATLAGG STEATLAGS		0 71,600 60,000 28,000
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What Cases Tend Isosophia Co. Shere Fisc. Londvices Pipic Nater String Livitace Cosing Instrumediase Casing 1 Instrumediase Casing 1 Instrumediase Casing 2 Docting Liner Tenduction Casing ac Uner Tenduction Ties Back Using Welthead, Tree, Chokes Liner Hanger, Kohrison Packer Tacker, Hippites Lumping Diab, Engine Domeholde UII: Equipment Livitace Englipment Livitace English Livitace English Livitace English Livitace English Livitace English Liv	DWDL150 DWBL150 DWBL150 DWDL150 DWDL150 DWDL160 DWDL160 DWDL160 DWDL160 DWDL160		2,586,000 0 0 15,000 48,000 292,000 0 0	DWEA100 DWEA163 DWEA120 DWEA125	4 1/2 - 11,250k or \$12,00/Ar	0 247,000 148,000 0 25,000 99,000	STEATLISS STEATLISC STEATLAGG STEATLAGS		71,000 60,000 28,000 80,000
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What Cases Tend Iconoglish Co. When Five Londwiczer Pipc White String White Strin	DWDL150 DWBL150 DWBL150 DWDL150 DWDL150 DWDL160 DWDL160 DWDL160 DWDL160 DWDL160		2,586,000 0 0 15,000 48,000 292,000 0 0	DWEA100 DWEA163 DWEA120 DWEA125	4 1/2 - 11,250k or \$12,00/Ar	0 247,000 148,000 0 25,000 99,000	STEATLISS STEATLISC STEATLAGG STEATLAGS		21,000 60,000 28,000
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What Cases What Pose Lendwiczo Pipc Lendwiczo Pipc Lendwiczo Pipc Lendwiczo Pipc Lendwiczo Pipc Lendwiczo Pipc Lendwiczo Pipc Lendwiczo Pipc Lendwiczo Lendwig Lendwiczo Lendwig Lendwiczo Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Lendwig Le	DWDL150 DWBL150 DWBL150 DWDL150 DWDL150 DWDL160 DWDL160 DWDL160 DWDL160 DWDL160		2,586,000 0 0 15,000 48,000 292,000 0 0	DWEA100 DWEA163 DWEA120 DWEA125	.41/2* - 11,250k or \$12,00/4	0 247,000 148,000 0 25,000 99,000	STEATLISS STEATLISC STEATLAGG STEATLAGS		71,000 60,000 28,000 80,000
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What Cases Want Isosanghin Co. Shire Price Landwiczer Price Casting Casting Casting Casting Linder Casting Linder Casting Linder Casting Linder Casting Linder Casting Linder Casting Linder Casting Linder Casting Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linder Linde	DWDL150 DWBL150 DWBL150 DWDL150 DWDL150 DWDL160 DWDL160 DWDL160 DWDL160 DWDL160		2,586,000 0 0 15,000 48,000 292,000 0 0	DWEA100 DWEA163 DWEA120 DWEA125	.41/2*-11,250k or \$12,00/4	0 247,000 148,000 0 25,000 99,000	STEATLISS STEATLISC STEATLAGG STEATLAGS		71,000 60,000 28,000 80,000
What Cases Trail isotrophic Co. Shire Fine Londvictor Pipic Assisted String Indian Costing Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian Indian	DWDL150 DWBL150 DWBL150 DWDL150 DWDL150 DWDL160 DWDL160 DWDL160 DWDL160 DWDL160		2,586,000 0 0 15,000 48,000 292,000 0 0	DWEA100 DWEA163 DWEA120 DWEA125	4 1/2 - 11,250k or \$12,00/Ar	0 247,000 148,000 0 25,000 99,000	STEATLISS STEATLISC STEATLAGG STEATLAGS		71,000 60,000 28,000 80,000
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	Production Equip			Post Completion		Total
Description	Codes	Amoun	Codes		Amount	Cos
Roads & Location	CON. 180	5,500	PCOML100	Part/Road Clean Up	28,000	138,50
Comunes	CONLINES	1,500		1		7,500
Mod/Raids Disposal				5,000 BWPD for 60 days @ 10.25/bb/	75,000	297,000
Day Rate					.,,,,,,	598,000
Misc Preparation				1		35,000
Bits			PCOM.125		٥	75,000
			PCOM.125	ŧ		
Fuel					0	90,000
Water for Drilling Rig (Hot Frac Water)			PCOML135	i.	0	29,000
Med & AddAires						198,000
Surface Rentals	CON.140	2.500	PCOM4140	\$1,033/d for Production Target of 30 Days	30,900	382,400
Downhole Rentris			PCC0HL145		0	142,000
Rowback Labor			PC0M141	\$860'd for Production Target of 14 Day	13,440	13,440
Automation Labor	CON.158	16,500	PCCMA150		0	16,500
Formation Evaluation (DST, Coring, etc.)				1		
Mad Logging						22,000
Open Hole Logging						
Cementing & Flort Equipment						206,000
Tubular Impections			PCDIATED		0	59,000
Cusing Crews				1	•	23.000
Mechanical Labor	COX.170	77.500	PC004,170	r.	0	102,500
Tractice/Transportation	CONLITS			<u>e</u>		
		8,500	PCOAL175		0	45,500
Supervision	CONTES	3,500	PCOAL180	ř.	0	209,500
Traiter House/Carep/Catering						82,000
Other Mac Bronnes	CON 190	13,500	PCONLT90	1	0	173,500
Overhead						15,000
Remedial Comerting			PCON215		0	
MOB/DEMOS					,	100,000
Directional Drilling Services				1		339,000
Solids Control						80,000
Well Control Equip (Smutbling Services)			PCOM240	i	0	194,000
Fishing & Didetrack Services			PCOM245		0	0
Completion Rig			PCOM.115	1	0	21,000
Call Tubing Services			PCONL250		0	366,000
Completion Lagging/Renforating/Wireface			PCONL200		0	432,000
Composite Plugs			PCOMJ390		0	96,000
Stimulation Pumping/Chemicals/AddRives/Send			PCOIAZIO		0	2,925,000
Stimulation Water/Water Transfer/Water				•		702,000
'Gerates Daned Frat/Repts' Equipment			PCOM.305		n	40,000
Legal/Regulatory/CurrOve	CON300	D			3	10,000
Well Control Insurance		D				
	COLUMN					7,000
Major Construction Overhead	CONLINS	12,000				12,000
Real Time Operations Center						0
FL/GL - Leber	CONSO	65,500				65,500
PL/GL - Supervision	CONLEGS	000,2				5,000
Sarvey	CONUSTS					0
SWD/Other - Labor	CONLEGO	0		i		ō
SWOJOTHER - SUPERVISION	CONLEGS	0				o
Contingency	CON.220		PCON-220	1	0	432,000
Contingency	CON2Z1	10,000	runda		0	10,000
	CM441	70,000				
PSIA Cests	And the second second second second		-			0
Youl Interplale Cost	AND DESCRIPTION OF THE PARTY OF THE PARTY.	247,500				
Drive Pipe					107,340	RELIES D
Conductor Pipe					107,340	0
					107,340	0
Water String					107,340	0
Water String Serface Casing					107,340	0 16,000
Serface Casing					17,140	0 16,000 48,000
Surface Casing Intermediate Casing 1					17,340	0 16,000 48,000 292,000
Surface Casing Intermediate Casing 1 Intermediate Casing 2					17,140	0 16,000 48,000 292,000
Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Uner					17,140	0 16,900 48,000 292,000 0
Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Uner Production Casing or Liner						0 16,900 48,000 292,000 0 0
Surface Casing 1 Intermediate Casing 1 Intermediate Casing 2 Delling there Production Casing or Lines Production Tie-Back						0 16,000 48,000 292,000 0 0 148,000
Serface Casing 1 Intermediate Casing 1 Intermediate Casing 2 Drilling Uner Production Casing or Lince Production Tie-Beck Tubing			PCOBATC.10S		0	0 16,000 48,000 292,000 0 148,000 0 71,000
Sanface Carling Intermediate Casing 1 Intermediate Casing 2 Defilling lither Production Casing or Liner Production Tim-Beck Timeliate Casing Well-beak Timel Chakes Well-beak Timel Chakes			PCOMTC105 PCOMT.120			145,000 48,000 292,000 0 148,000 0 71,000 105,000
Serface Casing 1 Intermediate Casing 1 Intermediate Casing 2 Drilling Uner Production Casing or Lince Production Tie-Beck Tubing					0	145,000 48,000 292,000 0 148,000 0 71,000 105,000
Surface Earling Intermediate Cating 1 Intermediate Cating 2 Deliting Union Production Casing or Liner Production Casing or Liner Production Tie-Beck Tubbing Union Liner Hanger, Hosbiton Packer			PCOMIT.T20		0	16,000 48,000 292,000 0 148,000 0 71,000 105,000 98,000
Surface Carling Intermediate Casing 1 Intermediate Casing 2 Drilling lither Production Carling or Liner Production Tier-Back Joshing Verillment Zirec Crokes Liner Hunger, Institutor Packer Packer, Mignier			PCOMIT.T20 PCOMIT.400		0	16,000 48,000 292,000 0 142,000 0 71,000 105,000 98,000 24,000
Surface Earling Intermediate Cating 1 Intermediate Cating 2 Drilling University Production Cating or Univer Production Tie-Back Tubing Withhead Evec Orabes Unior Mangor, Induston Padeer Padeoc Nippsie Pangaing Unio, Engine			PCOMIT.120 PCOMIT.400 PCOMIT.405		0 0	16,000 48,000 292,000 0 148,000 0 71,000 105,000 98,000 28,000
Surface Cating Intermediate Cating 1 Intermediate Cating 2 Defling bluer Production Cating or Univer Production Time Sect. Tubing Wellhead Tree, Ondes Liner Hamper, Nobision Packer Packer, Mignic Design (Nobision Packer Packer, Mignic Design) Domalhial Elli Reptoment			PCOMITAGO PCOMITAGO PCOMITAGO PCOMITAGO		0	16,000 48,000 292,000 0 148,000 0 71,000 105,000 98,000 28,000
Sarface Earling Intermediate Coding 1 Intermediate Coding 2 Defling University Production Cashing or University Production Tim-Beck Tubbring Well-beak University Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production Parker Production P			PCOMT,120 PCOMT,400 PCOMT,405 PCOMT,410 PCOMT,410	VSC Owned Sand Separates	0 0	148,000 48,000 292,000 0 0 148,000 71,000 98,000 2A,000 80,000 80,000 53,000
Sarfac Lafang Intermediate Cating 1 Intermediate Cating 2 Drilling Illner Production Caming or Liner Production Time Back Tubing Wellmank Tree, Orokes Liner Hanger, Robotion Packer Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figuries Packer, Figu			PCOMITAGO PCOMITAGO PCOMITAGO PCOMITAGO	XSC Owned Sand Segurator	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,000 48,000 292,000 0 148,000 0 71,000 105,000 98,000 24,000 59,000
Sarface Cading Intermediate Cading 1 Intermediate Cading 2 Drilling lither Production Caring or timer Production Time-Back Joshing Well-back Tree_Orakes Unter Hanger, Industrian Packer Packer, Mignier Domathiel UNI, English Domathiel UNI, English Sarface Englishment Well Assession Macerials Total Targetish - Well Englishment Cani			PCOMT,120 PCOMT,400 PCOMT,405 PCOMT,410 PCOMT,410	XSC Owned Sand Separates	0 0	14,000 48,000 292,000 0 0 148,000 0 71,000 105,000 98,000 28,000 53,000 945,000
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Sanface Cading Intermediate Cading 1 Intermediate Cading 2 Drilling Iher Production Graing or Univer Production Tier-Back Tubing Wellhead, Yere, Orokes Univer Hunger, Insistion Packer Pander, Mignier Pander, Mignier Domathale Unit Englament Sanface Englament Well Assessment Internet Sanface Englament Well Assessment Internet Sanface Englament Throught - Well Englament Class NCC Cases Englament Englament Exempting Contail Venuts Exempting Contail Venuts Exempting Contail Venuts	CDMTA10 CDMTA15 CDMTA25	48,000 0 60,500 9,500	PCOMT,120 PCOMT,400 PCOMT,405 PCOMT,410 PCOMT,410	XSC Owned Sand Segurator	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	148,000 292,000 0 148,000 0 148,000 105,000 98,000 28,000 59,000 945,000 48,000 945,000 95,000 960,500 9,000
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Seria a Carlong Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 1 Intermediate Casing 2 Drilling bluer Production Graphy or Liner Production Tier-Back Tubing Welfword, Tree, Orokes Liner Hanger, Inbolion Packer Packer, Rippier Tampith - Well Equipment Serface Equipment Vict. Lause Equipment Tampith - Well Equipment Casin Vict. Lause Equipment Secondary Contal Vinners Devended or Power Octobuscus Sacing Victorial Tefecomensulation Equipment Infection Repriser	CONTLOS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS	48,000 0 62,500 9,500 0 15,000 0 15,500	PCOMT,120 PCOMT,400 PCOMT,405 PCOMT,410 PCOMT,410	XEC Owned Sand Segunder	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	148,000 48,000 292,000 0 148,000 0 71,000 105,000 28,000 59,000 59,000 48,000 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 60,500 6
Sarfac Cading Intermediate Cading 1 Intermediate Cading 2 Drilling liber Production Graing or Liner Production Time Sack Tubing Wellhead, Tree, Chakes Linder Henger, Hobistion Packer Packer, Mighed Domalhold ID Responses Domalhold ID Responses Sarface Supplement Sarface Supplement Time Langdan - Held Supplement Cod NCC Licase Supplement Times, Tenda Salang, Solini Situacy Equipment Sackard Supplement Secondary Codas Namoro Ownhead of December Codas NCC Licase Supplement Secondary Codas Namoro Ownhead of Power Cistribuscon Facility Codas Salanger Tree Communication Equipment Indexes and Meteoring Equipment Meteor and Meteoring Equipment Meteor and Meteoring Equipment Meteor and Meteoring Equipment Meteor and Meteoring Equipment Meteor and Meteoring Equipment	CONTLAS CONTAIS	48,000 0 60,500 9,500 0 15,000	PCOMT,120 PCOMT,400 PCOMT,405 PCOMT,410 PCOMT,410	XSC Overhald Samed Seguaratear	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	148,000 48,000 48,000 99,000 0 148,000 98,000 28,000 80,000 60,500 0 15,500 0 15,500 0 15,500
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Sarface Cading 1 Intermediate Cading 1 Intermediate Cading 2 Drilling Inter Production Garling or Liner Production Time Seek: Tubing Well-lead Time. Chale Tubing Well-lead Time. Chale Tubing Well-lead Time. Chale Tubing Well-lead Time. Chale Tubing Well-lead Time. Chale Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubing Tubi	CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS	48,000 0 60,500 9,500 0 15,000 10,000 19,000	PCOMT,120 PCOMT,400 PCOMT,405 PCOMT,410 PCOMT,410	XEC Owned Sund Seguanter	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	148,000 48,000 48,000 292,000 0 148,000 0 71,000 105,000 98,000 80,000 945,000 48,000 60,500 60,500 60,500 15,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000 115,000
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Sarface Cating Intermediate Cating 1 Intermediate Cating 2 Drilling Union Production Cating or Union Production Time fact Transcription Time Fact Tubing Wellhead Tree, Ondes Libert Hanger, Institution Packer Packer, Mignies Pamping Unio, Linguine Domalhale Uli Englament Sarface Englament Transcription—Hotel Englament Case NVC Leans Englament Transcription—Hotel Englament Case NVC Leans Englament Sacranic Englament Sacranic Englament Sacranic Englament Sacranic Englament Sacranic Case Institution Tree Contravention Overhead Power Castilbusion Facility Case Case Tree Castilbusion Tree Contravention Tree Contravention Tree Contravention Tree Contravention Tree Castilbusion Facility Union Fine Facility Union Fine Facility Union Fine Facility Union Fine Laure Automation Institution Facility Union Fine Laure Automation Institution Fine Laure Facility Union Fine Fine Laure Facility Union Fine Fine Laure Facility Union Fine Fine Laure Facility Union Fine Fine Laure Facility Fine Fine Laure Fine Fine Fine Fine Fine Fine Fine Fin	CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS CONTAIS	48,000 0 60,500 9,500 0 15,500 10,000 10,000 10,000	PCOMT,120 PCOMT,400 PCOMT,405 PCOMT,410 PCOMT,410	XSC Owned Sand Seguineter	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	148,000 48,000 292,000 0 0 148,000 0 0 71,000 105,000 93,000 248,000 48,000 48,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,000 93,

AFE # 26621006

Company Entity

Date Prepared

			_	4/23/2019
Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	HAYDUKE 34-3 FEDERAL COM 6H	Lea Prospect	300001-133.01	26621006
County, State	Location		Estimated Found	Estimated Completion
Eddy, NM	SHL: W/2 of Section 34, Township 25	South Ranne 26 Fact	Estimated Spud 1/1/2021	2/1/2021
	Eddy County, NM	•	17 17444	4,,202.
	BHL: W/2 of Section 3, Township 26:	South, Range 26 East, Eddy		
196.0	County, NM			
X! Now	Formation	Well Type	Til Measured Depth	Til Vatical Depth
Supplement Revision	Walfcamp Lower	DEV	19,900	9,600
Purpose Drill and com	plete well			
Description				
	mplete a horizontal test. Drill to 450', set water			
	tial build rate to +/- 75 degrees and set casing steral in the Wolfcamp formation. Run and ce			
Intensible		Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	The second of the second of	\$2,586,000		\$2,586,000
Completion Costs		Let (25)	\$6,225,840	\$6,225,840
Total Intengible Cost		\$2,586,000	\$6,225,840	\$8,811,840
		•	1012 2 112 11	
Tangible	a listing to produce the	Dry Hole	After Casing Point	Completed Well Cos
Well Equipment Lease Equipment	A RESIDENCE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	\$376,000	\$569,000 \$203,500	\$945,000 \$203,500
Total Targible Cost		\$176,000	J-1	\$1,148,500
TOTAL TRANSPORT COST	######################################	\$376,000	\$772,500	21,140,000
Total Well Cost		\$2,962,000	\$6,998,340	\$9,960,340
Comments On Well Cost	s			
1. All tubulars, well or lease o	quipment is priced by COPAS and CEPS guide	Sines using the Historic Price M	ultiplier.	
Well Control insurance				
	low, you, as a non-operating working interest	country across to be covered by	Operator's well control insura	nce amouned by
Operator so long as Operator control insurance, you must p	conducts operations hereunder and to pay your covide a certificate of such insurance ecceptal neament of diffeing operations. You agree that	our prorected share of the premi ble to Operator, as to form and	ums therefore. If you elect to limits, at the time this AFE is n	purchase your own well etumed, if available, but
	rocured by Operator.			
being covered by insurance pr	rocured by Operator. ase my own well control insurance pol	lcy.		
being covered by insurance pr		lcy.		
being covered by insurance pr lefect to purch: Marketing Election Gmarex selfs its gas under arm insufficient volumes defivered Upon written request to Cimar		rs. Such contracts may include r share of gas with Cimarea, you h you the terms and conditions	u will be subject to all of the to pursuant to which gas will be	erms of such contracts.
being covered by insurance pr lefect to purch: Marketing Election Gmarex selfs its gas under arm insufficient volumes defivered Upon written request to Cimar	ase my own well control insurance pol n's-length contracts with third party purchase over time. Should you choose to market you rex's Marketing Department, we will share with old an election to market your gas with Cimare	rs. Such contracts may include r share of gas with Cimarea, you h you the terms and conditions	u will be subject to all of the to pursuant to which gas will be	erms of such contracts.
I elect to purch: I elect to purch: Marketing Election Graares sells its gas under am nosificient volumes delivered Joon written request to Graas section below shall be deeme	ase my own well control insurance pol n's-length contracts with third party purchase over time. Should you choose to market you rex's Marketing Department, we will share with old an election to market your gas with Cimare	rs. Such contracts may include if share of gas with Climares, you hyou the terms and conditions a under the terms and condition tunder the terms and condition	u will be subject to all of the to pursuant to which gas will be ns set forth above.	erms of such contracts.
l elect to purch: I elect to purch: Marketing Election Grazer sells its gas under am insufficient volumes delivered Upon written request to Cimar election below shall be deeme I elect to take m I elect to market	ase my own well control insurance pol n's-length contracts with third party purchase over time. Should you choose to market you rex's Marketing Department, we will share wit of an election to market your gas with Cimaro y gas in kind.	rs. Such contracts may include if share of gas with Climares, you hyou the terms and conditions a under the terms and condition tunder the terms and condition	u will be subject to all of the to pursuant to which gas will be ns set forth above.	erms of such contracts.
I elect to purch: Marketing Election Ginares sells its gas under am insufficient volumes desivered Upon written request to Ginar election below shall be deeme I elect to take m I elect to market Comments on AFE The above costs are estimates costs without affecting the authore of actual legal carafive.	ase my own well control insurance pol n's-length contracts with third party purchase over time. Should you choose to market you rex's Marketing Department, we will share wit of an election to market your gas with Cimaro y gas in kind.	rs. Such contracts may include in stare of grs with Climarcs, you hyou the terms and conditions with the terms and condition with the terms and condition terms and conditions of in thout any foresecable change approval of this AFE, the work	u will be subject to all of the te pursuant to which gas will be re set forth above. Its contract. Its contract. In plants. The actual costs may ling interest owner agrees to p	erms of such contracts, sold. Failure to make an exceed the estimated ay its proportionate
l elect to purcha Marketing Election Grazer sells its gas under am insufficient volumes delivered Upon written request to Ciman election below shall be deeme I elect to take m I elect to market Comments on AFE The above costs are estimates costs without affecting the aut	ase my own well control insurance pol- n's-length contracts with third party purchase over time. Should you choose to market you res's Marketing Department, we will share wit of an election to market your gas with Ginard y gas in kind. I my gas with Gimarex pursuant to the only and anticipate trouble free operations w thorization for expenditure herein granted. By	rs. Such contracts may include in stare of grs with Climarcs, you hyou the terms and conditions with the terms and condition with the terms and condition terms and conditions of in thout any foresecable change approval of this AFE, the work	u will be subject to all of the te pursuant to which gas will be re set forth above. Its contract. Its contract. In plants. The actual costs may ling interest owner agrees to p	erms of such contracts, sold. Failure to make an arms of such contracts of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the
I elect to purch: Marketing Election Gmarex sells its gas under am insufficient volumes delivered Upon written request to Gmare election below shall be deeme I elect to take m I elect to market Comments on AFE The above costs are estimates costs without affecting the authors of actual legal, cursive, this well.	ase my own well control insurance pol- n's-length contracts with third party purchase over time. Should you choose to market you res's Marketing Department, we will share wit of an election to market your gas with Ginard y gas in kind. I my gas with Gimarex pursuant to the only and anticipate trouble free operations w thorization for expenditure herein granted. By	rs. Such contracts may include r share of ges with Cimarez, you hyou the terms and conditions winder the terms and condition at the terms and condition terms and conditions of i thout any foresecable change approval of this AFE, the work aims operating agreement, regul	u will be subject to all of the te pursuant to which gas will be re set forth above. Its contract. Its contract. In plants. The actual costs may ling interest owner agrees to p	erms of such contracts, sold. Failure to make an arms of such contracts of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the

Description	Codes	- Drilling	t Codes	- Drilling	R Codes	mp/Stim Amount	Codes	ton Egido	Codes	Amount	Total
Roads & Location	DIDC:100	95,00		Armour	\$784.100	10,000			PCDAL100	28.000	138,50
Domeges	DEDC:105			:	SIBEIO	10,000	CONLIGS			24,000	7,50
Mud/Fuids Disposal	DIDC255	160,000		1	\$194255	\$2,000		[1,300	PODMASSS	75,000	297,00
Day Rate	DIDC115	494,000		10400		82,000		1		73,000	598.00
Misc Preparation	DIDC.120	35,000		1 .000				1			35,00
Bits.	DEDC.125	75.000		1 4	STIM TES	٥	11	1	PCD54,125	0	75,00
Fuel	DIDC.135	90,000		1	Di	٠	1	1	PCOM 130	o	90,00
Water for Delling Rig (Not Frac Water)	DEDC:140	5,000			STM.135	24,000		1	PODMATES	0	29,00
Mard & Actives	DIDCHS	198,000		1		2-,000	1	1		•	198,00
Surface Rentals	DEDC.150	112,000		1 4	STIMLIAD	237 000	CON.140	2 500	PCOML140	30,900	382.40
Downhole Rentals	DIDC:155	142,000			STRAINS	0			PODAL145	0	142,00
Rowback Labor				t .	STIMELIN	0	1	I.	PCONUM	13.440	13,440
Automation Labor						_	CONTSO	16 500	PCOMASSO	0	16,500
Formation Evaluation (DST, Coring, etc.)	DIDC.160),		STIM.150	. 0		1			
Afted Logging	DIDC.170	22,000									22,000
Open Hale Lagging	DIDC180		1		1			1		1.4	
Cementing & Float Equipment	DECIUS	145,000	0105,153	£3,000) i			•			208,000
Tubular Inspections	DIDC.190	50,000	: DICC.160	5,000	STIMITED	4,000		1	PCOMUTED.	0	59,000
Casing Crows	DDC195	20,000	- BICC165		: STP4.165	0		1			\$3,000
Mechanical Labor	DEDC-200	20,000	: DICC170		ST84.170	0	CONL170	72,500	PCONLT70	٥	102,500
Truding/Transportation	DEDC.205	25,000		8,000			CONTES		PCDML175	0	45.500
Supervision	DEDC210	96,000	ENCC.100		. STEALTED		CONTRO		PCONLTRO	0	209,300
Trailer House/Comp/Catering	DEDC-280	42,000	DICCESS	6,000	STIMUZED	34,000	!				82,000
Other Misc Expenses	0000220		7 DIOC,190	0	STIMUTED	155,000	CONLISO	13,500	PCONL190	0	173,500
Overhead	DIDC225		DICCISS	5,000	6					3	15,000
Remedal Cementing	DDC231	0		1	STM4215	٥			PCOM215	٥	
MOR/DDMO8	DIDC240	100,000		:		_			100	3	100,000
(Directional Drilling Services	DDC245	339,000		i				1			E39,000
Solids Control	DDC260	80,000									80,000
(Well Control Equip (Soubbing Services)	DIDC265		PROC240	5,000	. STINGE	109,000	(I 11		PCOM240	0	194,000
Fishing & Sidetrack Services	DIDC.270		0100345	0		0	18	1	PC0N2/5	0	0
Completion Rig			1	Ī	STRAITS	21,000			PC0M115	0	21,000
Coll Tetting Services	*				ST04.260	368,000	h - 23		PCDM250	0	368,000
Completion Logging/Perforating/Wrefire			1		ST04.200	432,000			PCONL200	0	432,000
Composite Plugs	1				STRAZEG	96,000			PCDM290	0	96,000
Stimulation Pumping/Chemicals/Additives/Sand			i 4		ST04.210	2,926,000			FC0M210	0	2,926,000
Stimulation Water/Maker Transfer/V/ster Storage	1		100		\$704.395	702,000		•	7-00mm215	v	702,000
Constax Owned Fox/Rental Equipment					STD4.365	40,000			PCDM/305	0	40,000
Legal/Regulatory/Curative	D/OC 100	10,000				40,000	COH.300	0		•	10,000
Well Control Insurance	DEC 285	7,000	. 1								7,000
Major Construction Overhead		,,,,,,	. !				CONJUS	12,000			12,000
Real Time Operations Center	DEDCS60	0	1		ST04.560	0.		12,000			0
FL/GL - Labor			1			0.	CONSCO	65,500			65,500
FUGL - Supervision	l'		1				CDNL505	5,000			5,000
Survey			,				CON-535	0			0
SWD/Doher - Labor							CONLEGO	a.			0
SWD/DTHER - SUPERVISION							CONLEGS	0.			o
Contingency	DIDCATS	123,000	DECC220 \$	12,000	STALZE	266,000 (CON220		PCDALZZO .	o'	432,000
Contingency							CON221	10,000			10,000
POA Costs	0000295	0	DICC273	0			1	rejeee.			0
Total Promptile Cost.		2.586,000	-	247,000	-	5,584,000	_	-247400		147,340	8,811,840
Orive Pipe	DWEBL150	0									0
Conductor Proc	DWE8.130	0					1				0
Water String	DWEL135	16,000					. !				16,000
Surface Casing	DWEB.140	48,000	9				i				48,000
Intermediate Chaing t	DWEE,145	292,000									297,000
Intermediate Casing 2	DWER155	0.	1				1				0
Diffling Liner	DWEL160	0					1				0
Production Casing or Liner			DWEA100	148,000							148,000
Production Tie-Back			DWEA165		579AT,101	0	1				P4000
Tubing			1		STEAT AGS	71,000	. 1	*1	PCCMT.105	0	71,000
Wellhead, Tirre, Chokes	DWEB.115	20,000	DWEA 120	25,000	STIDUT, 120	60,000	i		COMT.120	6	105,000
Liner Hanger, Bolation Packer	DWEB.100		DWEAT25	98,000		04,000	1			•	98,000
Packer, Nopeles				20,000	STIMIT 400	28,000	1	21	PODATIACO	0	28,000
Pumping Unit, Engine			1		STIMT AGS	0	i		PCONTAGS	0	24,000
Dow-hole Lift Equipment			!		STIMIAN	80,000	ı		POOMT/10	0	80,000
Surface Equipment			i			estima	1		NOONT,420	59,000	000,02
Well Automation Atsterfalls			- 1				1		CONTASS	000,86	38,000
Tatal Tungble - Wel fourment Con		376,000		271,000		220.000				\$9,000	945,000
N/C Lease Equipment						239,000	CONTLICO	48,000		35,000	48,000
Tanks, Tanks Steps, Smirs			,				CORTES	48,000			44,000
lattery Equipment			1				CONTA10	60,500			60,500
Secondary Consistents			- 1				CONTAIS	9,500			9,500
Overhead Power Distribution			1	1			CONTACO	9.500			3,300
Facility Electrical			ĺ				CONTACS	15,000			15,000
Felecommunication Sociement			i				CONTACE!				15,000
Arters and Metering Sculpment			1				CONTACE	0			15,500
solity Line Pipe			- 1				CONTAIS	15,500			15,500
ease Automation Materials			1				CONTASS	10,000			
2/GL - Materials			5					19,000			19,000
PUGL - Une Pipe			- 1				CONT.SSA	10,000			10,000
FL/GL - Une Pipe SWD/Other - Materials			i				CONT.555	16,000			16,000
						100	CONTASS I	۵			
											o _l
SWOYOTHER - LINE PIPE Total Targible - Laine Equipment Cost.							CONTASS	203,500			203.500

1	0.00	BCP - Delling	1450	ACP-Drilling		Comp/Stirn	List.
Description	Codes		Amount		Amount	Codes	Amou
Reads & Location	DIDC100		95,000			STIML 160	10,0
Dreege	DIDC.105		6,000		1 0		1
Need/Fluids Disposal	DIOC 255		160,000			STB4.255	62,0
Day Rate	0000115	15 days at \$28,000/day		DICC.120 , 4 days at \$26,000/day	104,000		8
Adder Pressuration	DEDC.120	,,	35,000	,,			
	DEDC.125		35,000	DICC.12S		STBA.125	
Mes			75,000	DECE123		3134.6	
Fuel		1,300 gel/day at \$3.00/gal	90,000	DICC130	0		240
Water for Drilling Kig (Hot Frac Water)	DIDCHO		5,000	DICC.135	0	STIM. 135	24,0
Maid & Addrives	DIDCHS		198,000				
Surface Revisits		1 Per Day (RCP)/day	112,000	DECC.140	0	5731/140	237,0
Downhole Revials	BIOCISS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	142,000			STRUMS	
	- DECETOR		142,000			STM 141	
Flowback Labor	•					3.00.00	
Acromation Labor							
Formation Exclustion (DST, Coring, esc.)	DEDC.160		0			\$194150	ě.
Mud Lagging	DEC170	14 days at \$1,200,66y	22,000				
Open Hale Lagging	DIDC 180		0		E - 0		
Comenting & Float Equipment	DIOCHES		145 000	DICCISS	63,000		
Tubular Inspections	DEC.190			DICC160	5,000	STIM.160	4,0
		:	30,000	Decision and the second	12,000		-
Casing Orees	DECHS		20,000	DICC16S	13,000	3194,163	
Medianical Labor	DIDC200			BIOC.170		STBALT70	
Trucking/Transportation	DIDC.205		25,000	DICC.175	8,000	STINLT75	4,0
Supervision	DEDC_210		96,000	DIOC.180	16,000	STBA.180	94,0
Trailer House/Camp/Catering	D(DC.280			DICC2SS	6.000	SYMA200	34,0
Other Mac Expenses	DEDC.220			DICC.190		\$79AL190	155,0
	DIDC 225		3,000	Perc 185	5,000		
Overhead			10,000	SICC195	2,000	STB4.215	
Remedial Comenting	DEDCZB1	4	8			2164712	
*CONTRACTOR	DIDC240		100,000				
Ofrectional Onling Services	DIDC345		339,000				Ŧ
Solids Control	DIDC 260		80,000				
	DIDC26S			DICC246	CANA	'STB4240	109,0
Well Control Equip (Snubbing Services)	DIDC283		00,000	DICCOIS		STM245	,0
Fishing & Sidetrack Services	DtDC270		0.	DICCORS	0		21.0
Completion Rig						STD4.115	21,0
Cell Tubling Services						STp4.260	368,0
Completion Logging/Perlorating/Wirefine	1 0				1	STB4.200	432,0
Composite Plays	F		É			STRA390	96,00
Seinsatation						\$71M210	2 926.00
						ST94.305	702,00
Stimutation Water/Water Transfer/Water						STD4.305	40.0
Gnurer Owned Free/Rental Equipment						STPACHOS	4400
Legal/Regulatory/Curative	DIDC300		10,000				
Well Control Insurance	DIDC285	\$0.35/6	7,000				
Aujor Construction Overhead							
	DEDC 560		0.			STB4.560	† 2
Real Time Operations Center	-		0		1		
FL/GL - Labor							
PL/GL - Supervision							
Survey							
SW0/Other - Labor							
SWOJOTHER - SUPERVISION							
Contingency	0000	SOO % of Diffing Intanghias	129 000	DICCESO .	12,000	STBA220	266,00
Contractor	0.00						
Consingency				DIDC275			
PBIA Costs	OEDC,285			DRA.2/3 .			\$584.0
Total Manghile Con	£.		2.596,000		247,000		220070
Orive Pipe	DW68.130		0				
Conductor Piec	: CWEB.130		0				
Water String	DWEL135		16,000				
Surface Casing		,9 S/F - 1,900k at \$25,00/k	48,000				3
	APPEAR OF	7 - 4,550k at \$24,00/h					
Intermediate Oning 1			292,000				Ų.
Intermediate Casing 2	DWEB,155		0		E I		
Orliting Liner	1 (DWIEL160	!	0				
Production Casing or Uner				DMEA.100 4 1/2" - 11,350k or \$13.00/	t 148,000		
Production Tie-Back				DWEA165	0	STRAT,101	
Mubing			1			STEAT.105 -8-1/2" - 7,930t at \$9.00/ft	73,0
	DWEB.115		30.000	DWEA120	25,000	STB4T,120	60,0
Wellhead, Tree, Chokes			AUU00	STATE OF T			- 400
Uner Hanger, Izobeton Packer	DWEE,100	1	. 0	DWEA125	98,000		200
Packer, Nipples				2		STINITAGE	28,0
Pumping Unit, Engine		:				STIMT/40S	
Downhole Ult Equipment						STRATAGE	80,0
Surface Equipment							
Well Automation Materials			- 375.000°	Complete statistics of the first statistics of the state of the state of	-		239,0
Total Tangible - Well Equipment Cost	and the street		3/6/000				
N/C Lease Equipment						1	*
Tanks, Yanks Steps, Stairs							
Battery Equipment					10		
Secondary Containments							
					107		
Overhead Power Distribution		4		1	100		
Facility Decarical							
Telecommunication Equipment		:		•			
Meters and Metoring Equipment							
Sacility Line Pipe		i		5	1		1
		4					
Lunda Argumedian Sartudak				2	t		
FUGL - Marterlais							
Lease Automotion Materials FL/GL - Materials FL/GL - Line Pipe							
FL/GL - Marterlais FL/GL - Line Pipe SWD/Other - Materlais							
FL/GL - Marterlats FL/GL - Line Pipe SWD/Other - Materials							
FLYCL - Marierias FLYCL - Line Pipe SWO/Other - Maserias SWO/OTHER - LINE PIPE							_
FL/GL - Marterlais FL/GL - Line Pipe SWD/Other - Materilais			2 967 000		S18 000		15,823,

15,500 10,000 19,000 10,000

16,000

CONT.ADS CONT.ASS CONT.ASS CONT.SSS CONT.SSS

PL/GL - Line Mos

SWD/Other - Materials SWD/OTHER - LINE PIPE Total Targible - Losse Equi 15,500 10,000 19,000

203,500 206,340 9,960,340

CIMAREX Company Entity	Authorization For Expenditure	Drilling		AFE # 26621007 Date Prepared
				4/23/2019
Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	HAYDUKE 34-3 FEDERAL COM 7H	Carlsbad Bone Spring Pri	ospect 300001-134.01	26621007
County, State	Location		Estimated Spud	Estimated Completion
Eddy, NM	SHL: W/2 of Section 34, Township 2	S South, Range 26 East.	1/1/2021	2/1/2021
	Eddy County, NM		4.4	-,,
	BHL: W/2 of Section 3, Township 26	South, Range 26 East, Eddy		
	County, NM			
X New	Formation	Well Type	Ttl Measured Depth	Itl Vetical Depth
Supplement Revision	Wolfcamp Lower	DEV	19,900	9,600
Purpose Drill and corr	nplete well			
Drawg Drill and co	mplete a horizontal test. Drill to 450°, set wat tial build rate to +/- 75 degrees and set casin lateral in the Wolfcamp formation. Run and o	ng at +/- 9455' MD. Finish curve	at +/- 4°/100' to +/- 9340' TVC	and driti a +/-
and GLVs.	atmat in the windows processed to the and d	and polación me. suge n	activiti out brodit toti broducti	on packer, wanty
Intangible	10.100	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs		\$2,586,000		\$2,586,000
Completion Costs		HITCH WALKER	\$6,225,840	\$6,225,840
Total Intengible Cost	Carlot Michigan Company	\$2,586,000	\$6,225,840	\$8,811,840
Tangible		Dry Hole	After Casing Point	Completed Well Cost
Well Equipment		\$376,000	\$569,000	\$945,000
Lease Equipment			\$203,500	\$203,500
Total Tangible Cost	on and and the property of the second	\$376,000	\$772,500	\$1,148,500
Total Well Cost_		\$2,962,000	\$6,998,340	\$9,960,340
Comments On Well Cost	ts .			
i. All tubulers, well or lease o	equipment is priced by COPAS and CEPS guid	lelines using the Historic Price I	viultiplier.	
Well Control Insurance Uniess otherwise indicated by	You, you as a non-operating working interes	2 owner, agree to be covered by	v Operator's well control insura	ence procured by
Uniess otherwise indicated be Operator so long as Operator control insumnos, you must p in no event later than comme peing covered by insurance p		your prorated share of the premise to Operator, as to form and urt failure to provide the certific	nlums therefore. If you elect to a limits, at the time this AFE is re	purchase your own well eturned, if available, but
Uniess otherwise indicated be Operator so long as Operator control insumnos, you must p in no event later than comme peing covered by insurance p	r conducts operations hereunder and to pay y provide a certificate of such insurance accepta anomient of drilling operations. You agree the	your prorated share of the premise to Operator, as to form and urt failure to provide the certific	nlums therefore. If you elect to a limits, at the time this AFE is re	purchase your own well eturned, if available, but
Unless otherwise indicated be Operator so long as Operator control insurance, you must on o event later than comme eing covered by insurance p il elect to purch Marketing Election Limares sells its gas under an sustificiant volumes delivered you wither request to Cimar jono written request to Cimar	r conducts operations hereunder and to pay y orowide a certificate of such insurance accepta incornent of drilling operations. You agree the recurred by Operator. asse my own well control insurance po mis-length contracts with third party purchas- iower time. Should you choose to market you means Markesting Department, we will share when means Markesting Department, we will share when	your prorated share of the pure bile to Operator, as to form and art failure to provide the certific officy. ars. Such contracts may include ur share of gas with Cimarre, your tity you the terms and condition	hums therefore. If you elect to d limits, at the time this AFE is re- arte of insurance, as provided he effect. In addition, penalties many ou will be subject to all of the te supersuant to which gas will be supersuant to which gas will be	purchase your own well eturned, if available, but erein, will result in your and the substitution of the ay be incurred for erms of such contracts.
Unless otherwise indicated be Operator so long as Operator control insurance, you must on o event later than comme eing covered by insurance p il elect to purch Marketing Election Limares sells its gas under an sustificiant volumes delivered you wither request to Cimar jono written request to Cimar	r conducts operations hereunder and to pay y oroxide a certificate of such insurance accepta incoment of drilling operations. You agree the procured by Operator. ase my own well control insurance po mis-length contracts with third party purchast over time. Should you choose to market you prec's Marketing Department, we will after will ed an election to market your gas with Circar.	your prorated share of the pure bile to Operator, as to form and art failure to provide the certific officy. ars. Such contracts may include ur share of gas with Cimarre, your tity you the terms and condition	hums therefore. If you elect to d limits, at the time this AFE is re- arte of insurance, as provided he effect. In addition, penalties many ou will be subject to all of the te supersuant to which gas will be supersuant to which gas will be	purchase your own well eturned, if available, but ereln, will result in your and the substitution of the ay be incurred for erms of such contracts.
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Roads & Location	Codes	Amour		- Drilling Amou	ne Codes	np/Sten_	Code	Amoun		ampfettan , Amount	Total
	DIDC.100	95,00	0.	,	STRALIGO	20,000	CON.100	5.50	PCOM. 100	28.000	
Demages	DIDC10S			1	311-0100	10,000	CONTRE			28,000	138,5
Aud Plain Disposi!	DECESS	160,00		ŧ	\$784.253			1,500			7,5
Day Rate	DDC115			104,00		62,000	,	F	PCONLESS	75,000	297,0
Preparation	DIDC120			104,00	ni.			ł			598,0
ta	DOCTES				_:		;	:			35,0
Food			DIOC12		Q STRA125	0	i.	1	PC004,:25	0	75,0
	DIDC136		DICCIDE		0:				PCOM,130	0	90,0
Water for Drilling Kig (Not Feac Water)	, DEDC.140	5,000		1	O STINUIS	24,000	4	1	PCOM 135	0	29,0
	DEDC:NS	196,000			ŧ						198.0
Surface Aentals	DIOC150		0100.140		0 STBL140	237,000	CONLINO	2,500	PCONU140	30,900	382,4
Downhele Rencals	DIDC155	142,000)÷		STRANS	0	i		PCOMUMS	٥	142.0
Flowback Labor			3	i	ST04141	. 0		1	PCONLIST	13,440	13,4
Asternation Libbor					4		CON 190	16 500	PC014,150	0	16,5
Females Evaluation (DST, Coring, etc.)	DIDC:160			1	ST04.150	0		1		•	10,5
Logging	OEDC.170	22,000		10		•		1			22,0
Open Hole Logging	DOCUM		1	1	i	,	1	į.			22,0
Committing & Float Equipment	DIDC185	145,000	DIOC153	63.000	.!						
shular Inspections	DEDC.190		DICC.160	5,000				1	******		208,0
Casing Crows	DDC.195	30,000	DICCHES		STEALNES	4,000			PCOMLIST	0	59,0
Mechanica Labor	DIDC200	20,000	DECETTO			0					33.0
radding/Transportation	OIDC205					0			PCCNL170	0	102.5
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refer House/Camp/Catering	DIDCZ10		DICC.180		STR4.180	94,000	CONLISO	3,500	PODILING .	0	209,5
	DIDC280	42,000			STB4280	34,000					82,0
Misc Expenses	DDC220	5,000		1 0	STB4.190	155,000	CONL190	13,500	PCOMUSO	0	173,50
prefront	000225	10,000	DICC195	5,000						-	15,0
terrents Cementing	DIDC231	0		1	STIME	0	1		PCOM215 ·	٥	.5,0
ADE/DENDE	OIDC240	100,000								•	100,00
Directional Drilling Services	DIDC3/5	339,000	2	1			1				339,00
iolids Costrol	DIDC200	80,000		:							80.00
Vell Control Equip (Snubbing Services)	DEDC266		DICC240	5,000	ST84240	109,000			PC094240		
Eching & Sidebrack Services	000270		DICC245		STDAZES	n	1		PCOM245	0	194,00
ampleton Rig		Ĭ		1	STRATIS	21,000			PCOM115	0	
of Tubing Services				1	STIM260		1		PCOM250	_	21,00
prophetion Loggikg/Perforating/Whetine		0 9		1	STB4.200	368,000				0	368,00
amposise Plugs]	STIML200	432,000	Į.		PC014.200	0	432,00
timetation Pumping/Chemicals/Additives/Sand				i		96,000			PODNUNG	0	96,00
imulation Water/Water Transfer/Water Storage					\$704218	2,926,000			PCOMEZTO	0	2,926,00
				:	STDALESS	702,000					702,00
martix Owned FracRental Equipment					STINUS	40,000		1.0	PCOt4305	Q	40,00
egsl/Regulatory/Curative	DEDC-300	10,000					CONLIGO 1	0		- 1	10,00
Aeli Control Insurance	D4DC.285	7,000									7,00
lajor Construction Overhead							CONJES	12,000			12.00
eal Time Operations Center	DIDCSSC	0		1	STR4.560	0;	1				
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/GL-Supervision							CONLINE !	\$.000		78	5.00
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	DDC285	ai.	0(00275				CONTEST	10,000			10,000
Total Intergible Cost			04.02/5	-			-				
	OWER.190	2,586,000		247,000		3.584,000		247,500		147,340	8,811,34
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riductor repe	DWEB.130	0									
	DWER.135	16,000					i				16,000
	OWERSHO :	48,000				-	- 1				48,00
ermediate Casing 1	DWEE 143	292,000									292,00
ermetters Oping 2	DWEL155	0					- 1				
ermetters Oping 2	DWELISS DWELISO						1				
Casing 2		0	DWEA100	148,000:			1				
Cusing 2 Supliner Casing or Liner Tile-Back		0	DWEA100		STIME, tot		1				148,000
Cusing 2 Supliner Casing or Liner Tile-Back		0			STMIT.101	6	1				148,000
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Casing 2 Uner Liner	DWEL180	20,000	DWEA16S	25,000 98,000	STEAT, 105 STEAT, 120	71,000 60,000 28,000		9	CON/7,128	0	148,000 71,000 103,000 90,000
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Mar Preparation	010C120	35,000		, , , , , , , , , , , , , , , , , , , ,		•		
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Fool	DIOC.135 1,300 guildley at \$3.00/got		DICC.136		0			
Vater for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135		0	STIMILES		24,0
haud & Additives	DEDC.145	198,000						
Surface Rentals	DIDC.150 Per Day (BCP)/Jay	172,000			0	STIM.140		237,0
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Rowbeck Labor		10				STRATES		
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Adud Lagging	DIDC.170 114 days at \$1,200/day	0				2104(130		
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Tubular Inspections	: DEDC.190		DICT.160			STIMU160		40
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Mechanical Labor	200(20)		BIOC.170			STALITO		
Trucking/Inseporation	BIDC205	25,000	DICC175		8,000	STIML175		4,0
Supervision	. DIDC210 ·		DECC180		16,000	STIM.180		94,0
Trailer House/Camp/Catering	DIDC280		0100233		6,000	STIMLERO		34,0
Other Mac Expenses	DIOC220	\$,000				STIML190		155.0
Overhead	DEDC.225		DICC.195		5,000			
Remedial Cementing	010C221	0				\$11M.215		
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Obrectional Orilling Services Solids Control	DIOC245 DIOC260	339,000						
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Completion Rig		•	0.000		•	STIM.115		21,0
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	Production Equip			Post Completion		Total
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a Location	CON.300			Ped/Road Clean Up	28,000	138,50
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ford			PCOMIZED	1		90,00
Water for Drilling Rig (Not Frac Water)			PCOML135	1	0	29,00
Additives				:		198,000
Surface Reviols	CONL148	2,500		\$1,090/6 for Production Target of 30 Days	30,900	382,40
Downhole Renta's			POONLINS	:	0	142,00
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Automation Labor	CONLISE	16,500	PC014.190		0	16,50
Fraluscion (DST, Coring, etc.)		- 1		1		
head Lagging						22,000
Open Hole Logging				F		208,000
Cementing & Flort Equipment Tubular Inspections			PCONL160		0	59,000
Casing Crews		4	PCOILIBO	1		33,000
Mechanical (abor	CON170	77 500	PC0NL170			102,500
Tracting/Transportation	CON.175		PCON 175		9	45,300
Supervision	CON.180		PCON. 180	477	0	209,500
Trailer House/Camp/Catering		-2-00				82,800
Other Miss Expenses	CON.190	13,500	PCON 190		0	173,500
Overhead						15,000
Remedial Comming			PCON215	1	0	
MOIL/DENO3						100,000
Directional Drilling Services				T.		333,000
Solids Control		17		1		80,000
Well Control Equip (Snubbing Services)			PCOM240	:	0	194,000
Fishing & Sidetrack Services		7	PCONLIS	I.	0	21.000
Considerion Kig Coll Tubling Services			PCDM250	E.	0	21,000 368,000
Completion Logging/Perforating/Wireline			PCONL200	:	0	432,000
Composite Plugs			PCOAL290	:	0	96,000
Simulation Pumping/Oversicals/Additives/Sand		10	PCONLETO	1	0	2,926,000
Stimulation Water/Water Transfer/Water						702,000
Dames Owned Frac/Rental Equipment			PCOMJ65	;	0	40,000
age Regulatory Constitute	CON.300	8				10,000
Well Control Insurance				}		7,000
Mafor Construction (Overhead	CON.305	12,000				12,000
Real Time Operations Center				•		0
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FL/GL - Supervision	CON-SCS	5,000				5,000
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BUD/OTHER - SUPERVISION	CONSOS	0	1.0			0
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Velbread, Tree, Choker		1	PCONT.120		0	105,000
iner Hanger, Isolation Packer		1			-	98,000
tecker, Nipples			PCONTAGO		0	28,000
temping Unit, Engine		1	PCOMT.405		0	0
Downhole LIIt Equipment			PCOMTA10		0	80,000
artice Equipment		1		XEC Owned Sand Separator	59,000	59,000
Well Automation Materials		*********	PCOMTASS		0	0
Total Tengble - Wolf Equipment Cost					59,000	945,000
VC Lease Equipment	CONT.400	48,000	i			48,000
ants. Tanks Steps, Stairs	CONTAGS	0	1			0
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econdary Containments	CONTAIS	9,500				9,500
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aolity Electrical (Recommunication Equipment	CONTAC	15,000	1			15,000
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WD/Other - Minerals	CONTASC	0				0
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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, EDDY COUNTY, NEW MEXICO

CASE NO. 20590

AFFIDAVIT OF HARRISON HASTINGS

STATE OF TEXAS)
) ss
COUNTY OF MIDLAND)

Harrison Hastings, being duly sworn, deposes and states:

- 1. I am over the age of 18, I am a geologist for Cimarex Energy Co. ("Cimarex"), and have personal knowledge of the matters stated herein. I have been qualified by the Oil Conservation Division ("Division") as an expert petroleum geologist and my credentials were accepted as a matter of record by the Division.
- 2. I conducted a geological study of the area that encompasses the horizontal spacing unit that is the subject of Cimarex's application in this case and am familiar with the geological matters involved in this case.
- This case includes a Wolfcamp proposed horizontal spacing unit located in the W/2 of Section 34 and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico, which is the focus of my study area. This proposed spacing unit is dedicated to the Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, and 7H wells.
- 4. As part of my study, I have prepared the following geological exhibits with respect to the horizontal spacing units for this case that are attached to my affidavit and described below:



- a. **Exhibit B.1** is a Deep Structure Map on the top of the Wolfcamp formation This map identifies the sections to be developed with a red shaded rectangle. It also shows that the structure dips to the east-northeast.
- b. Exhibit B.2 is a Winerack Diagram that includes the Wolfcamp formation. This diagram identifies the Wolfcamp formation in purple, and the proposed wells with green circles labeled by well number. It also shows that the wells will be 330' from the proposed unit boundaries and orthodox.
- c. Exhibit B.3 is a Cross-Section Locator Map outlining the Wolfcamp horizontal spacing unit being pooled that is the subject of this application; and referencing the location of Stratigraphic Cross Section A-A'. It identifies a line of cross-section, running from A to A', as well as the cross-section well names.
- d. Exhibit B.4 is a Gross Interval Isopach Map of the Upper Wolfcamp (Top Wolfcamp to Wolfcamp A2.) It shows that the formation is relatively uniform across the proposed well unit. It also shows the location of cross-section A-A'.
- e. Exhibit B.5 is a Stratigraphic Cross Section hung on the top of the Wolfcamp Fm. The well logs on the cross-section give a representative sample of the Upper Wolfcamp formation in the area. The target zones for the wells are the Wolfcamp Y Sand and Wolfcamp A Shale, and those zones are consistent across the unit. The planned well-paths for these wells are indicated by two blue dashed lines, and the letters 'LZ'.
- f. Exhibit B.6 is a Cross-Section Locator Map outlining the Wolfcamp horizontal spacing unit being pooled that is the subject of this application; and referencing the location of Stratigraphic Cross Section B-B'. It identifies a line of cross-section, running from B to B', as well as the cross-section well names.
- g. Exhibit B.7 is a Gross Interval Isopach Map of the Lower Wolfcamp (Top Wolfcamp C to Wolfcamp D5.) It shows that the formation is relatively uniform across the proposed well unit. It also shows the location of cross-section B-B'.
- h. **Exhibit B.8** is a Stratigraphic Cross Section hung on the top of the Wolfcamp 'C'. The well logs on the cross-section give a representative sample of the Lower Wolfcamp formation in the area. The target zones for the wells are the Wolfcamp 'C' Shale and Wolfcamp 'D' Shale, and those zones are consistent across the unit. The planned well-paths for these wells are indicated by two sets of blue dashed lines, and the letters 'LZ'.
- 5. Based upon my study as illustrated in these exhibits, my education and training, and my knowledge of the geology in this area, it is my expert opinion that:
 - a. The horizontal spacing unit in this case is justified from a geologic standpoint.

- b. There are no structural impediments or faulting that will interfere with the proposed horizontal development.
- c. Each quarter quarter section in the unit will contribute more or less equally to production.
- 6. The preferred well orientation in this area is either north to south or east to west.

 This is due to the fact that regional max horizontal stress orientation in this area runs approximately

 N45E.
- 7. The producing interval for each of the wells in this case will be orthodox and will comply with the Division's set back requirements.
- 8. Pursuant to Rule 1-011 NMRA (2019), I declare and affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct.

[Signature Page to Follow]

SUBSCRIBED AND SWORN to before me this 10 th day of July 2019 by Harrison Hastings, on behalf of Cimarex Energy Co.

Notary Public

My commission expires:

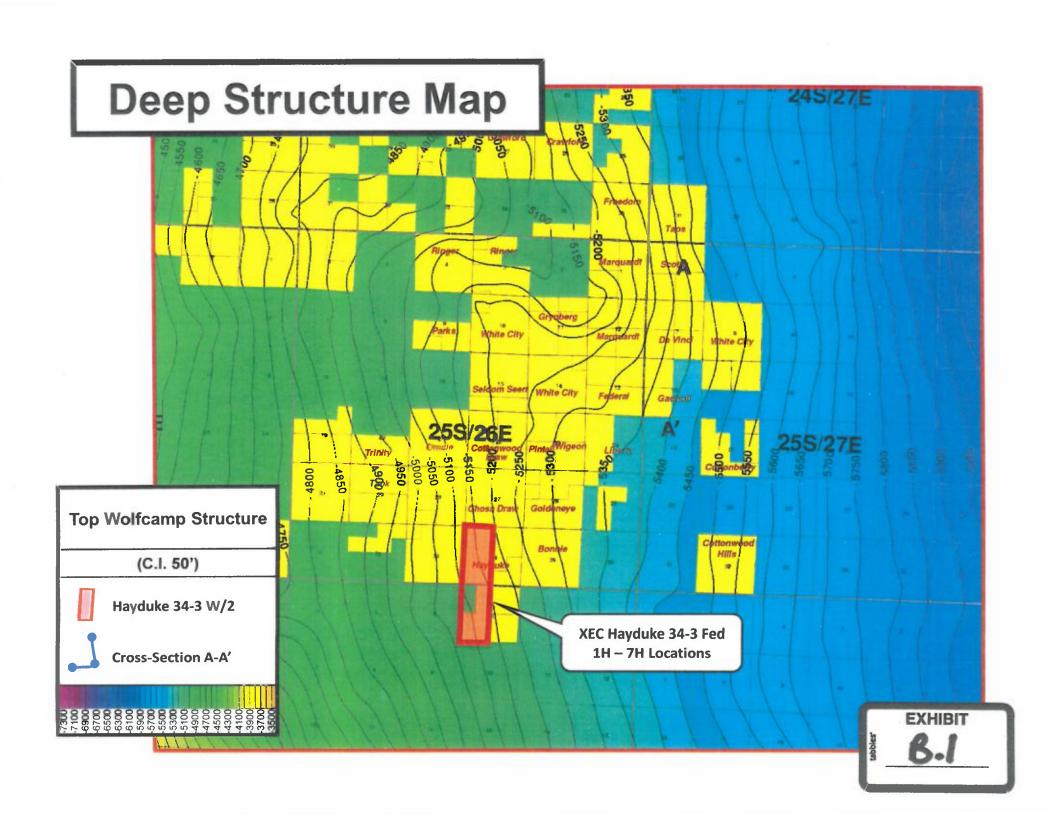
OFFICIAL SEAL

AMANDA BUSTAMANTE

NOTARY PUBLIC - STATE OF NEW MEXICO My commission expires 4-29-2033

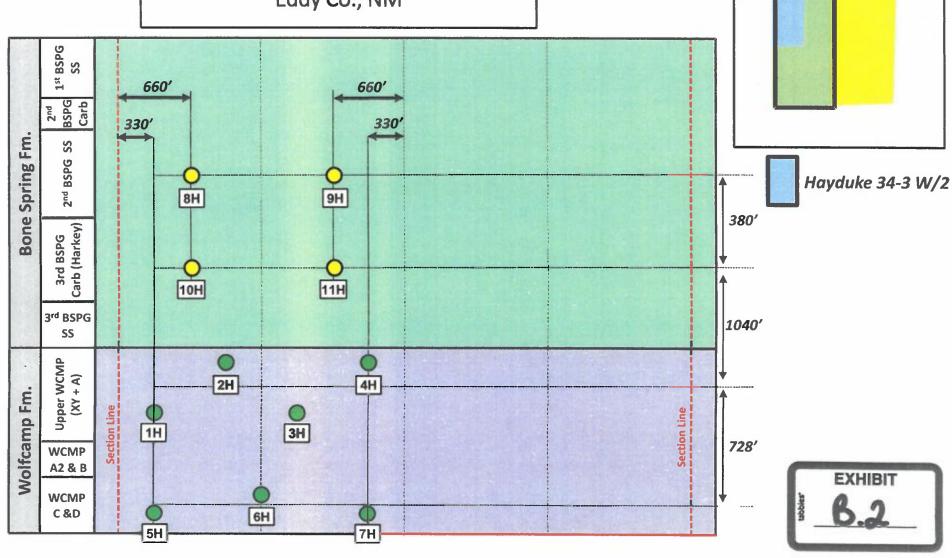
Hayduke 34-3 Fed 1H – 7H

Wolfcamp Fm. Geology Exhibits



XEC Hayduke 34-3 Fed 1H – 11H Winerack

Sec 34 - T25S/R26E & Sec 3 - T26S/26E Eddy Co., NM

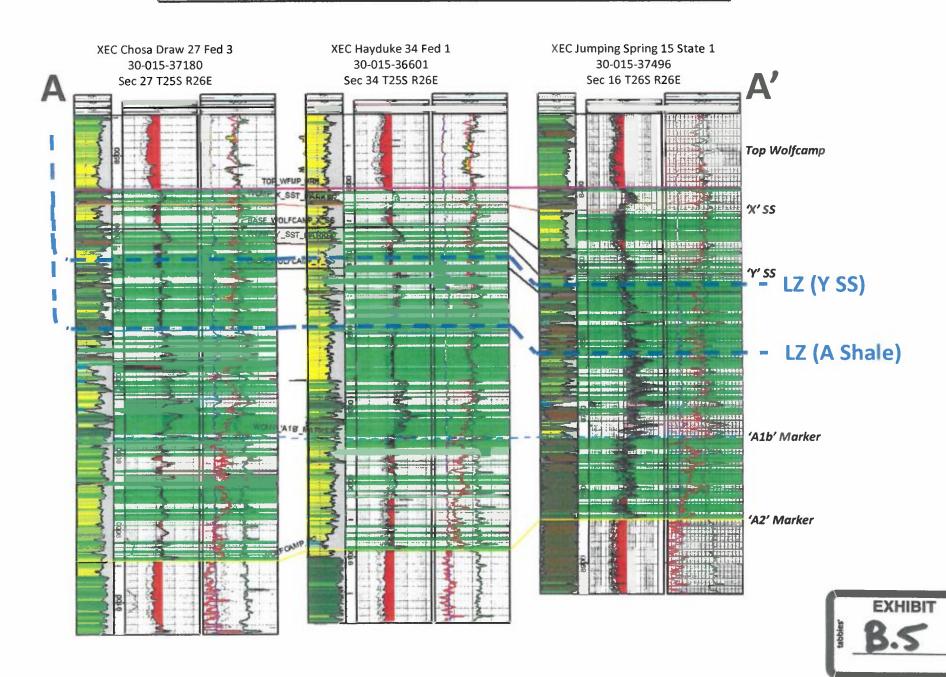


Upper Wolfcamp (1H-4H)

Cross-Section Locator Map 24S/27E Crawford Roderer Congressiona 26 26 Rooster Freedom 12 33 34 35 Taos Ringer Ringer Marquards Scorer 2 Grynberg Parks Marquarde White City White City De Vinci Seldorii Seen 14 √25E 25S/26E 25S/27E 23 Tririty Tank Chosa Drew Goldeneye 27 Scarlet Cypher Cottonwood Bonnie Hills 35 XEC Hayduke 34-3 Fed 1H - 7H Locations **EXHIBIT** A'

Upper Wolfcamp Isopach Map 480 en en 245/25E U. Wolfcamp Gross Isopach 436±4 (Top WCMP to 'A2') White City 0 S. Eddy County WCMP XYZ Producers **WCMP A Producers** 25S/27E Spud Last 12 Mo. Comp. Last 12 Mo. 400 390 Hayduke 34-3 W/2 Cross-Section A-A' XEC Hayduke 34-3 Fed WCMP Isopach 1H - 7H Locations **Datapoints Upper WCMP Gross Isopach** (Top WCMP to 'A2) **EXHIBIT**

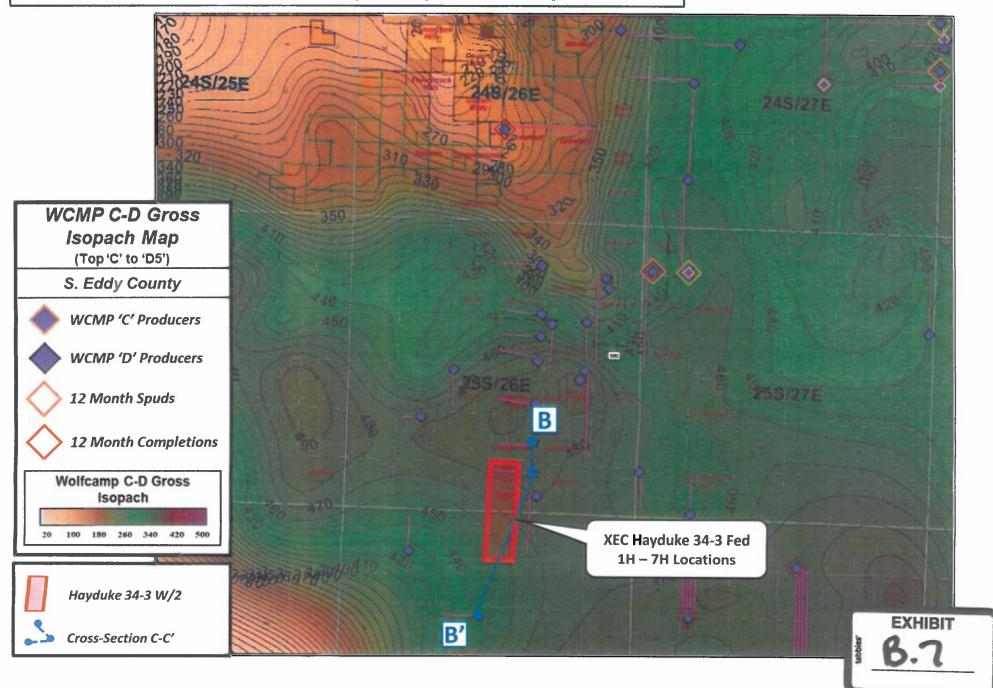
Upper WCMP N-S Cross-Section A-A'



Lower Wolfcamp (5H-7H)

Cross-Section Locator Map 24S/27E Rooster 30 25 24 Rooster Freedom Congression 12 33 ėt Taos Ringer Ringer Marquardt Scoter Grynberg Parks De Vinci White City Marquarde White City Seldom Seen White City Federal 14 3/25E 25S/26E 25S/27E Trinky Tank Chosa Draw Scarlet Cyphor Bonnie Hills XEC Hayduke 34-3 Fed 1H - 7H Locations **EXHIBIT** B' *13

Lower Wolfcamp Isopach Map



Lower Wolfcamp N-S Cross-Section B-B'

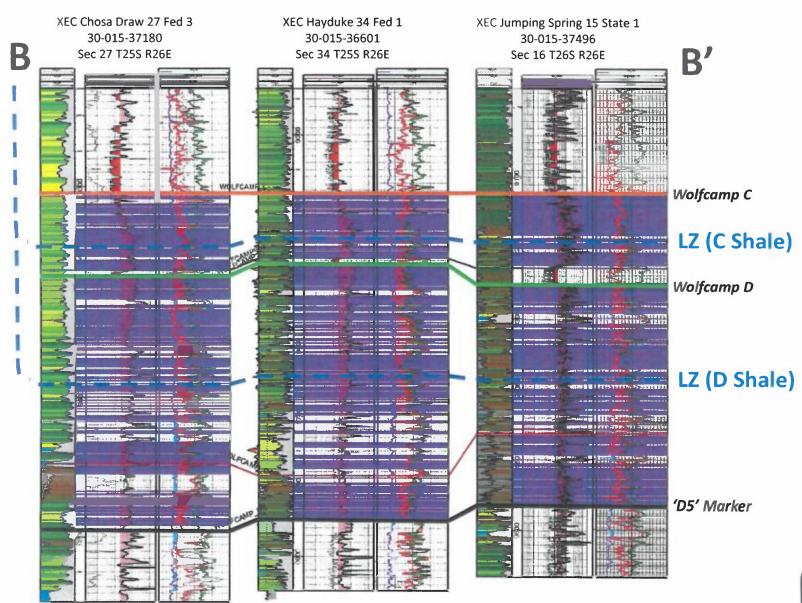


EXHIBIT B. C

Hayduke 34-3 Fed 1H – 7H

Wolfcamp Fm. Geology Exhibits

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

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

CASE NO. 20590

AFFIDAVIT

STATE OF NEW MEXICO)ss. COUNTY OF BERNALILLO

Lance D. Hough, attorney in fact and authorized representative of Cimarex Energy Co., the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application was provided under the notice letters, and that proof of mailing, receipts of mailings, and publication are attached hereto. After notice of the application was mailed to all previously identified interest holders, an additional potential overriding royalty interest holder was discovered and notice was mailed to his last known address on July 8, 2019. Cimarex Energy Co. has conducted a good faith, diligent effort to find the names and correct addresses for the interest owners entitled to receive notice of the application filed herein, and provide notice to each at their last known address.

Lance D. Hough

SUBSCRIBED AND SWORN to before me this ____ day of July 2019 by Lance D.

Hough.

SE

OFFICIAL SEAL Zina Crum My Commission Expires:

Notary Public

My complission expires: 12-07-2019

Zina Crum Modrall Sperling 500 4th Street NW Suite 1000 Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL 06/21/2019



Firm Mailing Book ID: 169626

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0060 5098 20	Irwin E Vinnik & Reva Sandra Vinnik 5062 E Princeton Ave Englewood CO 80110	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
2	9314 8699 0430 0060 5098 37	Celeste C Grynberg 5000 S Quebec St., Ste 500 Denver CO 80237	\$1.30	\$3,50	\$1.60	\$0.00	82762-0128 Notice
3	9314 8699 0430 0060 5098 44	Robert N. Enfield, Trustee Robert N. Enfield Trust c/o Wells Fargo Bank PO Box 41779 Austin TX 78704	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
4	9314 8699 0430 0060 5098 51	Engfield-Coffield Family Revocable Trust PO Box 8028 Santa Fe NM 87504	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
5	9314 8699 0430 0060 5098 68	Howard A Rubin, Inc 623 ½ Camino Rancheros Santa Fe NM 87505	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
6	9314 8699 0430 0060 5098 75	Jerune Allen 245 Nicklaus Drive SE Rio Rancho NM 87124	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
7	9314 8699 0430 0060 5098 82	Legacy Reserves Operating LP PO Box 10848 Midland TX 79702	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
8	9314 8699 0430 0060 5098 99	Chevron U.S.A. 6301 Deauville Blvd Midland TX 79706	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
9	9314 8699 0430 0060 5099 05	Mountain Lion Oil & Gas LLC 7941 Katy freeway #117 Houston TX 77024	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
10	9314 8699 0430 0060 5099 12	EOG Resources, Inc. P.O. Box 4362 Houston TX 77210	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
11	9314 8699 0430 0060 5099 29	Bryan Bell Family LLC c/o Frank Robert Janusa PO Box 24591 New Orleans LA 70184 SdSt	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
12	9314 8699 0430 0060 5099 36	Rubie Crosby Bell Family LLC c/o Frank Robert Janusa PO Box 24591 New Orleans LA 70184	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
13	9314 8699 0430 0060 5099 43	The Estate of Jerune Allen John A Budagher Pers Rep 3500 Comanche Rd NE Bldg B Albuquerque NM 87107	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
14	9314 8699 0430 0060 5099 50	DMA, Inc 9 Ambleside Drive Bellcair FL 33756	\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice

Zina Crum Modrall Sperling 500 4th Street NW Suite 1000 Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL 06/21/2019



Firm Mailing Book ID: 169626

Line	USPS Article Number	Name, Street, City, State, Zip		Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
15	9314 8699 0430 0060 5099 67	Charmar, LLC c/o Vikki H Smith 4815 Vista Del Oso Ct NE Albuquerque NM 87109		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
16	9314 8699 0430 0060 5099 74	Lisa M. Enfield. Trustee of Lisa M. Enfield Trust 405 Camino Manzano Santa Fe NM 87505		\$1.30	\$3,50	\$1.60	\$0.00	82762-0128 Notice
17	9314 8699 0430 0060 5099 81	MLE, LLC PO Box 1683 Santa Fe NM 87504		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
18	9314 8699 0430 0060 5099 98	Richard C. Deason 1301 N Havenhurst #217 West Hollywood CA 90046		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
19	9314 8699 0430 0060 5100 00	Ronald H. Mayer, Trustee of Ronald and Martha Mayer PO Box 2391 Roswell NM 88202		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
20	9314 8699 0430 0060 5100 17	SAP, LLC 4901 Whitney Lane Roswell NM 88203		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
21	9314 8699 0430 0060 5100 24	Barbara Carol Deason 2233 Rock Bridge Ct Yukon OK 73099		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
22	9314 8699 0430 0060 5100 31	Thomas D. Deason 3407 Essex Ave Lubbock TX 79407		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
23	9314 8699 0430 0060 5100 48	Oxy Y-1 Company 5 Greenway Plaza Houston TX 77046		\$1.30	\$3.50	\$1.60	\$0.00	82762-0128 Notice
			Totals:	\$29.90	\$80.50	\$36.80	\$0.00	
					Grand	l Total:	\$147.20	

List Number of Pieces Listed by Sender Total Number of Pieces Received at Post Office Postmaster: Name of receiving employee Dated:

23







Zina Crum Modrall Sperling 500 4th Street NW Suite 1000 Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL 06/21/2019



Firm Mailing Book ID: 169665

Line	USPS Article Number	Name, Street, City, State, Zip			Postage	Service Fee	RR Fec	Rest.Del.Fee	Reference Contents	
1	9314 8699 0430 0060 5213 89	Macondo Fund IV. LLC P.O. Box 4216 Midland TX 79704			\$0.50	\$3.50	\$1.60	\$0.00	82762-0128	_
				Totals:	\$0.50	\$3.50	\$1.60	\$0.00		
						Grand	Total:	\$5.60		
List Number o			Dated:							_

1

Transaction Report Details - CertifiedProunct First Mail Book ID= 169626 Generated: 7/10/2019 9:46-02 AtA

white the column of	And the second second second	Ademin Co.	71-			Address	Store 2		North 2	Date Created	USPS Article Number
Mail Delivery Dails		Mailing Status	77046	5tate	City	5 Greenway Plaza	Name 2			2019-06-21 10:13 AM Oxy Y	9314869904300060510048
06-25-2019	Return Receipt - Electronic, Certified Mail	Delivered			Houston						
06-26-2019	Return Receipt - Electronic, Certified Mail	Delivered	79407	TX	Lubbock	3407 Essex Ave				2019-06-21 10:13 AM Thom	9314869904300060510031
06-25-2019	Return Receipt - Electronic, Certified Mail	Delivered	73099	OK	Yukon	2233 Rock Bridge Ct				2019-06-21 10:13 AM Barba	9314869904300060510024
06-29-2019	Return Receipt - Electronic, Certified Mail	Delivered	88203	NM	Roswell	4901 Whitney Lane				2019-06-21 10:13 AM SAP, L	9314869904300060510017
07-03-2019	Return Receipt - Electronic, Certified Mail	Delivered	88202	NM	Roswell	PO 80x 2391	Roneld and Martha Mayer		ald H. Mayer, Trustee of	2019-06-21 10:13 AM Ronal	9314869904300060510000
06-24-2019	Return Receipt - Electronic, Certified Mail	Delivered	90046	CA	West Hollywood	1301 N Havenhurst #217			ard C. Deason	2019-06-21 10:13 AM Richard	9314869904300060509998
06-24-2019	Return Receipt - Electronic, Certified Mail	Delivered	87504	NM	Santa Fe	PO Box 1683			,uc	2019-06-21 10:13 AM MLE,	9314869904300050509981
06-24-2019	Return Receipt - Electronic, Certified Mail	Delivored	87505	NM	Santa Fe	405 Camino Manzano	Lisa M. Enfield Trust		M. Enfield, Trustee of	2019-06-21 10:13 AM Lisa N	9314869904300060509974
06-22-2019	Return Receipt - Electronic, Certified Mall	Delivered	87109	NM	Albuquerque	4815 Vista Del Oso Ct NE	c/o Vikki H Smith		rmar, LLC	2019-06-21 10:13 AM Charm	9314869904300060509967
	Return Receipt - Electronic, Certified Mail	Mailed	33756	FL	Bollopir	9 Ambleside Drive			A, Inc	2019-06-21 10:13 AM DMA,	9314869904300060509950
06-24-2019	Return Receipt - Electronic, Certified Mail	Delivered	87107	NM	Albuquerque	3500 Comanche Rd NE Bldg B	John A Budagher Pers Rep		Estate of Jerune Allen	2019-06-21 10:13 AM The E	9314869904300060509943
06-27-2019	Return Receipt - Electronic, Certified Mail	Delivered	70184	LA	New Orleans	PO Box 24591	c/o Frank Robert Janusa		te Crosby Bell Family LLC	2019-06-21 10:13 AM Ruble	9314869904300060509936
06-27-2019	Roturn Receipt - Electronic, Certified Mail	Delivered	70184	LA	New Orleans	PO Box 24591	c/o Frank Robert Janusa		n Beil Family LLC	2019-06-21 10:13 AM Bryan	9314869904300060509929
06-28-2019	Return Receipt - Electronic, Certified Mail	Delivered	77210	TX	Houston	P.O. Box 4362			Resources, Inc.	2019-06-21 10:13 AM EOG	9314869904300060509912
06-24-2019	Return Receipt - Electronic, Certified Mail	Delivered	77024	TX	Houston	7941 Katy freeway #117			untain Lion Oil & Gas LLC	2019-06-21 10:13 AM Mour	9314869904300060509905
06-24-2019	Return Receipt - Electronic, Certified Mail	Delivered	79706	TX	Midfand	6301 Deauville Blvd			vron U.S.A.	2019-06-21 10:13 AM Chevi	9314869904300060509899
05-26-2019	Return Receipt - Electronic, Certified Mail	Delivered	79702	TX	Midland	PO Box 10848			acy Reserves Operating LP	2019-06-21 10:13 AM Legac	9314869904300060509882
07-05-2019	Return Receipt - Electronic, Certified Mail	Delivered	87124	NM	Río Rancho	245 Nicklaus Drive SE			me Atlen	2019-06-21 10:13 AM Jerun	9314869904300060509875
	Return Receipt - Electronic, Certified Mail	To be Returned	87505	NM	Santa Fe	623 % Camino Rancheros			vard A Rubin, Inc	2019-06-21 10:13 AM Howa	9314869904300060509868
	Return Receipt - Electronic, Certified Mail	Forwarded	87504	NM	Sante Fe	PO Box 8028		ale Trust	field-Coffield Family Revocable	2019-06-21 10:13 AM Engfi	9314869904300060509851
06-24-2019	Return Receipt - Electronic, Certified Mail	Delivered	78704	TX	Austin	PO Box 41779	c/o Wells Fargo Bank	rt N. Enfield Trust	ert N. Enfield, Trustee Robert I	2019-06-21 10:13 AM Robe	9314869904300060509844
07-05-2019	Return Receipt - Electronic, Certified Mail	Delivered	80237	co	Denver	5000 5 Quebec St., Ste 500			este C Grynberg	2019-06-21 10:13 AM Cales	9314869904300060509837
07-01-2019	Return Receipt - Electronic, Certified Mail	Delivered	80110	co	Englewood	5062 E Princeton Ave		nnik	In E Vinnik & Reva Sandra Vinn	2019-06-21 10:13 AM trwin	9314869904300060509820
06-24-2 06-27-2 06-27-2 06-28-2 06-24-2 05-24-2 07-05-2 06-24-2 07-05-2	Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail Return Receipt - Electronic, Certified Mail	Mailed Delivered To be Returned Forwarded Delivered Delivered	33756 87107 70184 70184 77210 77024 79706 79702 87124 87505 87504 78704 80237	NM LA LA TX TX TX NM NM NM TX CO	Bolloair Albuquerque New Orleans New Orleans Houston Houston Midland Midland Rio Rancho Santa Fe Sante Fe Austin Denver	3500 Comanche Rd NE Bldg B PO Box 24591 PO Box 24591 P.O. Box 43591 P.O. Box 4362 7941 Katy freeway #117 6301 Dearville Blvd PO Box 10848 245 Nicklaus Drive SE 623 'X Camino Rancheros PO Box 8028 PO Box 41779 5000 S Quebec St., Ste 500	John A Budagher Pers Rep c/o Frank Robert Janusa c/o Frank Robert Janusa	rt N. Enfield Trust	A, Inc Estate of Jerune Allen te Crosby Bell Family LLC is Resources, Inc. untain Lion Oil & Gas LLC vron U.S.A. sery Reserves Operating LP one Allen vard A Rubin, Inc field-Coffield Family Revocable test N. Enfield, Trustee Robert I state C Grynberg	2019-06-21 10:13 AM DMA, 2019-06-21 10:13 AM The E 2019-06-21 10:13 AM Bryan 2019-06-21 10:13 AM Bryan 2019-06-21 10:13 AM Mour 2019-06-21 10:13 AM Legac 2019-06-21 10:13 AM Legac 2019-06-21 10:13 AM Howard 2019-06-21 10:13 AM Howard 2019-06-21 10:13 AM Robe 2019-06-21 10:13 AM Robe 2019-06-21 10:13 AM Robe 2019-06-21 10:13 AM Robe 2019-06-21 10:13 AM Robe 2019-06-21 10:13 AM Robe	9314869904300060509950 9314869904300060509943 9314869904300060509929 9314869904300060509912 9314869904300060509905 9314869904300060509899 9314869904300060509882 9314869904300060509888 9314869904300060509884 9314869904300060509884

11. advice

Zina Crum Modrall Sperling 500 4th Street NW Suite 1000 Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL 07/08/2019



Firm Mailing Book ID: 170393

Line	USPS Article Number	Name, Street, City, State, Zip			Postage	Service Fee	RR Fce	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0060 9434 2	5 Jack J. Greenburg 1050 17th Street, Suite 1950 Denver CO 80265			\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke
				Totals:	\$1.30	\$3.50	\$1.60	\$0.00	
						Grand	Total:	\$6.40	
List Number of Listed by Sendo			Dated:						

1

JUL - WILL

Transaction Details

Recipient:

Jess J. Ghenning 16-4 Film Strau State (96) Dumer GC 1006th

Sender

Buggarque Massarton

Transaction created by:

User ID: 20017

Firm Mailing Book ID: 17429

Batch ID:

USPS Article Number:

95-26 50430000 -- 1562.

Return Receipt Article Number: Mad A processor

Service Options:

Return Receipt - Electronic

Certified Mail

Mail Service: Reference #: Certified

82762-0183 Hayduke

Postage: Fees: Status: \$1.30 \$5.10 Mailed

Custom Field 1: Custom Field 2: Custom Field 3: 82762-0183 Hayduke 82762-0183 Hayduke

82762-0183 Haydeke

Transaction History

Event Description

JSPS Curfre to J SSFs. Control Dat USPS: Control Dat **Event Date**

08-2015-11-25-AM 114-6-2016-03-36-764 13-03-2019-09-03-F14 07-08-2019-09-10-F14 Details

[MALZ] - Firm Mailing Book 179393 generated by - zinacrum [RISPS] - PRESHIPMENT INFO SENT - USPS AWAITS ITEM at TEMECULA CA

(USFS) - PROCESSED THROUGH USPS FACILITY III ALBUQUERQUE, NM

(USPS) - DEPART USPS FACILITY MI ALBUQUEROUS NM

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CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No. 0001289788

MODRALL SPERLING ROEHL HARRIS & SISK 500 4TH ST NW STE 1000

ALBUQUERQUE NM 87102

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

06/27/19

Legal Clerk

Subscribed and sworn before me this 27th of June 2019.

State of WI, County of Brown NOTARY PUBLIC

My Commission Expires

HOTARY

PUBLIC SOLUTION

NOTARY

PUBLIC SOLUTI

CASE NO. 20590: Notice to all affected parties, as well as the heirs and devisees of, IR-WIN E VINNIK AND REVEN SANDA VINNIK; CELESTEC GRYNBERG ROBERTN. ENFIELD TRUSTEE ROBERT N. ENFIELD ENGFIELD-COFFIELD FAMILY REVOCABL TRUST; HOWARD A. RUBIN, INC.; JERUNEAL-LEN: LEGACY RESERVES OPERATING LP CHEVRONU.S.A.; MOUNTAIN LION OIL & GAS LLC; EOGRESOURCESINC.; BRYANBELLFAM-ILY LLC; RUBIECROSBYBELLFAMILY LLC; THE ESTATE OF JERUNE ALLEN; DMA, INC; CHARMAR, LLC; LISAM. ENFIELD, TRUSTEROF LISA M. ENFIELDTRUST; MLE, LLC; RICHARD C. DEASON; RONALDH. MAYER, TRUSTEEOF RONALD MARTHA MAYER; SAP, LLC; BARBARA CAROL DEASON; THOMAS D. DEASON OXY Y-1 COMPANY; and MACONDO FUND IV, LLC, of Cimarex Energy Co.'s application for approval of compulsory pooling, Eddy County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on July 11,2019. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 640-acre, more or less, Wolfcamp horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Section 34, Township 25 South, Range 26 East, and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Hayduke 34-3 Federal Com 1H, 2H, 3H, 4H, 5H, 6H, and 7H wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 8.5 miles southeast of Whites City, New Mexico. June 27, 2019

CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No. 0001289789

MODRALL SPERLING ROEHL HARRIS & SISK 500 4TH ST NW STE 1000

ALBUQUERQUE NM 87102

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

06/27/19

Subscribed and sworn before me this 27th of June 2019.

egal Clerk

State of WI, County of Brown NOTARY PUBLIC

My Commission Expires

CASE NO. 20591: Notice to all affected parties, as well as the heirs and devisees of, IR-WIN E VINNIK AND REVEN SANDA VINNIK; CELESTEC GRYNBERG ROBERTN. ENFIELD TRUSTEE ROBERT N. ENFIELD TRUST: ENGFIELD-COFFIELD FAMILY REVOCABL TRUST; HOWARD A. RUBIN, INC.; JERUNEAL-LEN; LEGACY RESERVES OPERATING LP; CHEVRONU.S.A.; MOUNTAIN LION OIL & GAS LLC; EOGRESOURCESINC.; BRYANBELLFAM-ILYLLC; RUBIECROSBYBELLFAMILYLLC; THE ESTATE OF JERUNE ALLEN; DMA, INC; CHARMAR, LLC; LISAM. ENFIELD, TRUSTEBOF LISA M. ENFIELDTRUST; MLE, LLC; RICHARD C. DEASON; RONALDH, MAYER, TRUSTEEOF RONALD MARTHA MAYER; SAP, LLC; BAR-BARA CAROL DEASON; THOMAS D. DEASON OXY Y-1 COMPANY; and MACONDO FUND IV, LLC, of Cimarex Energy Co.'s application for approval of compulsory pooling, Eddy County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on July 11, 2019. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 640-acre, more or less, Bone Spring horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 of Seczontal spacing unit underlying the W/2 of Section 34, Township 25 South, Range 26 East, and W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Hayduke 34-3 Federal Com 8H, 9H, 10H, and 11H wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 8.5 miles southeast of Whites City, New Mexico.

June 27, 2019

