CASE NO. 22333

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

CIMAREX ENERGY CO.'S EXHIBIT LIST (PARTI)

- A. Landman's Affidavit
- B. Geologist's Affidavit
- C. Application and Proposed Notice
- D. Affidavit of Mailing
- E. Affidavit of Publication
- F. Pooling Checklist

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

APPLICATIONS OF CIMAREX ENERGY CO. OF COLORADO FOR A HORIZONTAL SPACING UNIT AND COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 22333

SELF-AFFIRMED STATEMENT OF RILEY MORRIS

STATE OF TEXAS)
) ss
COUNTY OF MIDLAND)

I, being duly sworn on oath, state the following:

- 1. I am over the age of eighteen years and have the capacity to execute this Affidavit, which is based on my personal knowledge.
- 2. I am employed as a Landman with Cimarex Energy Co. ("Cimarex"), and I am familiar with the subject application and the lands involved.
- 3. I graduated in 2010 from Texas Tech University with a bachelor's degree in Business Administration with an emphasis on Energy Commerce. I have worked at Cimarex for approximately 3 years, and I have been working in New Mexico for 3 years. My credentials as a petroleum landman have been accepted by the New Mexico Oil Conservation Division ("Division") and made a matter of record.
- 4. This affidavit is submitted in connection with the filing by Cimarex of the above-referenced spacing and compulsory pooling applications pursuant to 19.15.4.12.A(1).
- 5. Cimarex seeks an order pooling all uncommitted mineral interest in the Bone Spring formation (Carlsbad; Bone Spring, South; Pool Code: 9670) underlying a standard 320-acre,

EXHIBIT A

more or less, horizontal spacing and proration unit comprised of the E/2 W/2 of Sections 29 and 32, Township 25 South, Range 27 East, NMPM, Eddy County, New Mexico.

- 6. Under <u>Case No. 22333</u>, Cimarex seeks to dedicate the **Southern Hills 32-29 State Fed Com 2H Well**(API 30-015-pending/####) as an initial well, horizontally drilled from a surface location in SE/4 SW/4 (Unit N) of Section 32 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 29; approximate TVD of 7,900'; approximate TMD of 17,900'; FTP in Section 32: 813' FSL, 2,112' FWL; LTP in Section 29: 100' FNL, 2,112' FWL.
 - 7. The proposed C-102 for each well is attached as Exhibit A-1.
- 8. A general location plat and a plat outlining the units being pooled is attached hereto as **Exhibit A-2**, which show the location of the proposed well within the unit. The location of each well is orthodox, and it meets the Division's offset requirements.
- 9. The parties being pooled, the nature of their interests, and their last known addresses are listed on **Exhibit A-2** attached hereto. **Exhibit A-2** includes information regarding working interest owners and overriding royalty interest owner.
 - 10. There are no depth severances in the Bone Spring formation in this acreage.
- 11. I provided the law firm of James Bruce a list of names and addresses for the uncommitted ORRI owners shown on Exhibit A-2. In compiling these addresses, I conducted a diligent search of the public records in Eddy County, New Mexico, where the wells are located, and of phone directories and did computer searches to locate the contact information for parties entitled to notification. All working interest owners were locatable and noticed; there were zero unlocatable parties who were overriding interest owners. Cimarex published notice in the Carlsbad Current Argus, a newspaper of general circulation in Eddy County, New Mexico, to account for any unlocatable parties and cover any contingencies regarding notice.

Received by OCD: 2/11/2022 6:11:22 AM

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12. Cimarex has made a good faith effort to negotiate with the interest owners, but has been

unable to obtain, voluntary agreement from all interest owners to participate in the drilling of the

well or in the commitment of their interests to the well for its development within the proposed

horizontal spacing unit. Exhibit A-4 provides a chronology and history of contacts with the

owners.

13. The interest owners being pooled have been contacted regarding the proposed wells but

have failed or refused to voluntarily commit their interest in the wells. However, Cimarex has

been in ongoing discussions with some of the interest owners to voluntarily enter into a Joint

Operating Agreement. If a mutually agreeable Joint Operating Agreement is reached between

Cimarex and another interest owner or owners, Cimarex requests that the voluntary agreement

become operative and supersede the Division's order for said parties, except to the extent the

Division deems it necessary to maintain spacing criteria for the purpose of conservation, the

prevention of waste, and protection of correlative rights.

14. The interest owners being pooled have been contacted regarding the proposed wells, and

the working interest owners have voluntarily committed their interests in the wells. This pooling

application has been submitted for approval in order to account for the overriding royalty interest

owners.

15. Exhibit A-3 is a sample proposal letter and the AFEs for each proposed well. The estimated

cost of the wells set forth in the AFEs is fair, reasonable, and comparable to the costs of other wells

of similar depths and lengths drilled in this area of New Mexico.

16. Cimarex requests overhead and administrative rates of \$8,000/month for drilling each well

and \$800/month for producing each well. 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. Cimarex requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

- 17. Cimarex requests the maximum cost, plus 200% risk charge be assessed against non-consenting working interest owners to the extent needed.
 - 18. Cimarex requests that it be designated operator of the units and wells.
- 19. The Exhibits to this Affidavit were prepared by me or compiled from Cimarex's company business records under my direct supervision.
- 20. The granting of this Application is in the best interests of conservation, the prevention of waste, and the protection of correlative rights, and will avoid the drilling of unnecessary wells.
 - 21. The foregoing is correct and complete to the best of my knowledge and belief.

[Signature page follows]

I understand that this Self-Affirmed Statement will be used as written testimony in these cases. I affirm that my testimony in paragraphs 1 through 21 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below. Vily M8

Date: 2/10/22

Riley Morris

ATTACHMENT

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

Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

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

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

x AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

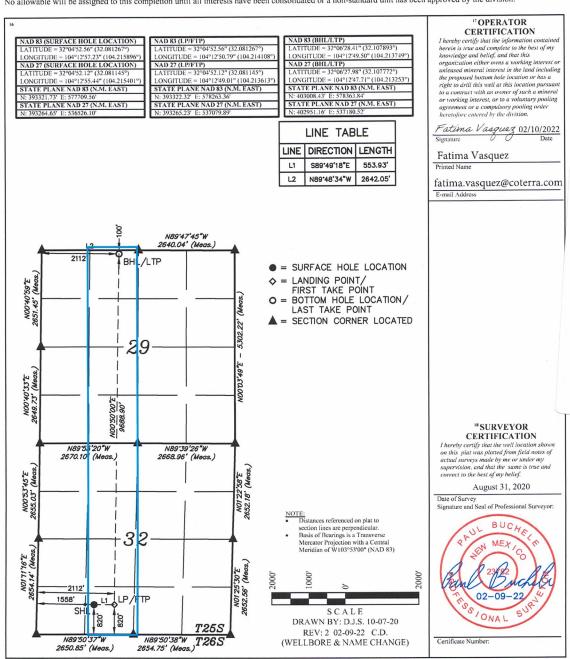
	WELL LOCATION A	THE ACKLAGE DEDICATION TEAT	
30-015- API Number	9670 Pool Code	Carlsbad; Bone Spring, South	
4 Property Code	SO. HILLS	⁵ Property Name S 32-29 STATE FED COM	6 Well Number 2H
⁷ OGRID No. 215099	CIMA	⁸ Operator Name AREX ENERGY CO.	9 Elevation 3244.2'

					Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	32	25S	27E		820	SOUTH	1558	WEST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no.	Section 29	Township 25S	Range 27E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 2112	East/West line WEST	County EDDY
12 Dedicated Acre 320	es 13 J	oint or Infill	14 Conso	olidation Code	15 Order No.				

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



Owner	Address	Total Unit WI	Total Unit NRI	Total Unit ORRI/RI
Cimarex Energy Co.	600 N. Marienfeld St., Ste. 600 Midland, TX 79701	0.67775000	0.55553333	0.00000000
ABO Petroleum, Inc.	P.O. Box 900 Artesia, NM 88211	0.11110000	0.09721250	0.00000000
Chevron USA Inc.	1400 Smith Street Houston, TX 77002	0.10000000	0.08333333	0.0000000
Oxy Y-1 Company	5 Greenway Plaza, Ste. 110 Houston, TX 77046	0.11115000	0.09725625	0.00000000
COG Operating, LLC	600 W. Illinois Ave. Midland, TX 79701	0.00000000	0.00000000	0.02083125
United States of America	c/o Bureau of Land Management 301 Dinosaur Trail Santa Fe, NM 87508	0.00000000	0.00000000	0.06250000
State of New Mexico	c/o Commissioner of Public Lands 310 Old Santa Fe Trail Santa Fe, NM 87501	0.00000000	0.00000000	0.08333334

Chevron USA Inc. 6301 Deauville Blvd. Midland, TX 79706

MRC Permian Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

MRC Permian LKE Co. LLC 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Premier Oil & Gas Inc. 1096 Mechem Drive, Suite G-16 Ruidoso, NM 88345

> COG Operating LLC 600 W. Illinois Midland, TX 79701

Family Tree Corporation 915 S. Pearl Street Denver, CO 80209

Christi Lea Rucker 243 S. Buena Vista St., Apt. B Redlands, CA 92373

EnCore Permian Holdings LP P. O. Box 1113 Midland, TX 79702

> PetroLima, LLC P. O. Box 1113 Midland, TX 79702

Francine Marilyn Hepler 59500 Ramsey Rd., Apt. 568 Anza, CA 92539

> Robert Hepler 41175 Mount Rd. Anza, CA 92539

Belinda Lee Hepler 59500 Ramsey Rd. Anza, CA 92539

Zella Marie Hepler 1303 East Orchid Lane #15 Carlsbad, NM 88220

Marla Risher 2007 W. Pepper Tree Cir. Carlsbad, NM 88220

Camarie Oil & Gas, LLC 2502 Camarie Midland, TX 79705 United States of America c/o Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220

State of New Mexico Commissioner of Public Lands 310 Old Santa Fe Trail Santa Fe, NM 87501

> ABO Petroleum LLC PO Box 900 Artesia, NM 88211

OXY Y-1 Company 5 Greenway Plaza Suite 110 Houston, TX 77046

Ross Duncan Properties LLC P.O. Box 647 Artesia, NM 88211

Nora Wright 1303 E. Orchard Ln., TRLR 15 Carlsbad, NM 88220

> Betty Jonas 607 E. Hill Ave. Gallup, NM 87301

Weslyn Hepler 1303 E. Orchard Ln., TRLR 18 Carlsbad, NM 88220

> Eryn Hepler 603 N. 9th St. Carlsbad, NM 88220

> Charlene Hepler 4309 Sycamore St. Carlsbad, NM 88220

Sam L. Shackelford 1096 Mechem Drive Ruidoso, NM 88345

Doug J. Schutz P.O. Box 973 Santa Fe, NM 87504

Big Three Energy Group, LLC P.O. Box 429 Roswell, NM 88202

Featherstone Development Corp. P.O. Box 429 Roswell, NM 88202

> Prospector, LLC P.O. Box 429 Roswell, NM 88202

Xplor Resources, LLC 1104 N. Shore Drive Carlsbad, NM 88220

Xplor Resources, LLC 1104 N. Shore Drive Carlsbad, NM 88220 Cimarex Energy Co. 600 N. Marienfeld St. Suite 600 Midland, TX 79701 Main: 432.571.7800



November 1, 2021

Chevron U.S.A. Inc. 1400 Smith Street Houston, TX 77002

Re:

UPDATE LETTER

Proposal to Drill

Southern Hills 32-29 State Fed Com 1H Southern Hills 32-29 State Fed Com 2H

W2 Section 32 and 29, Township 25 South, Range 27 East

Eddy County, NM

Dear Working Interest Owner,

By letter dated September 3, 2021 Cimarex Energy Co. proposed to drill the Southern Hills 32-29 State Fed Com 1H and Southern Hills 32-29-20 State Fed Com 2H (the "Proposal to Drill"). Please let this Update Letter serve as an update of the well name of the Southern Hills 32-29-20 State Fed Com 2H to the Southern Hills 32-29 State Fed Com 2H along with the bottom hole location and AFE total for the subject well. Please note that this update is for advisory purposes only and all other information contained herein is identical to the original Proposal to Drill.

Cimarex Energy Co. hereby proposes to drill the Southern Hills 32-29 State Fed Com 1H & Southern Hills 32-29 State Fed Com 2H wells at a legal location in Section 32, Township 25 South, Range 27 East, NMPM, Eddy County, New Mexico.

Southern Hills 32-29 State Fed Com 1H - The intended surface hole location for the well is 813'FSL & 1,540'FWL of Section 32, Township 25 South, Range 27 East, and the intended bottom hole location 100'FNL & 330'FWL of Section 29, Township 25 South, Range 27 East. The well is proposed to be drilled vertically to the Harkey formation and laterally in a northerly direction within the formation to the referenced bottom hole location. Total vertical depth of the well is proposed to be approximately 7,900'.

Southern Hills 32-29 State Fed Com 2H - The intended surface hole location for the well is 820'FSL & 1,558'FWL of Section 32, Township 25 South, Range 27 East, and the intended bottom hole location 100'FNL & 2,112'FWL of Section 29, Township 25 South, Range 27 East. The well is proposed to be drilled vertically to the Harkey formation and laterally in a northerly direction within the formation to the referenced bottom hole location. Total vertical depth of the well is proposed to be approximately 7,900'.

Cimarex Energy Co. is proposing these wells under the terms of a new Operating Agreement, which is included for your review and approval. It has the following general provisions:

ATTACHMENT 3

- 100%/300% Non-Consenting Penalty;
- \$8000 Drilling and \$800 Producing Rate; and
- Cimarex Energy Co. named as Operator.

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 Southern Hills 32-29 State Fed Com wells. 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, 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.

If we do not reach an agreement within 30 days of the date of this letter, Cimarex may apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest in to a horizontal spacing unit for the proposed well.

Please call the undersigned with any questions or comments.

Respectfully,

Riley C. Morris Sr. Landman

432.620.1966

rmorris@cimarex.com

ELECTION TO PARTICIPATE Southern Hills 32-29 State Fed Com 1H

	Chevron U.S.A. Inc. elects TO participate in the proposed Southern Hills 32-29 State Fed Com 1H well.
	Chevron U.S.A. Inc. elects NOT to participate in the proposed Southern Hills 32-29 State Fed Com 1H well.
Dated this	day of, 2021.
Signature:	
Title:	
If your election then:	above is TO participate in the proposed Southern Hills 32-29 State Fed Com 1H well,
-	Chevron U.S.A. Inc. elects TO be covered by well control insurance procured by Cimarex Energy Co.
	Chevron U.S.A. Inc. elects NOT to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

Authorization For Expenditure Drilling

AFE # 26822009

Date Prepared 11/1/2021

Exploration Region Permian Basin

Company Entity

Well Name

Prospect

Property Number 300001-189.01

AFE 26822009

County, State

Location

SO HILLS 32-29 STATE FED COM 2H Carlsbad Bone Spring Prospect

Estimated Spud

Estimated Completion

Eddy, NM

E2W2 SECTIONS 32, 29 AND 20, TOWNSHIP 25 SOUTH, RANGE 27 EAST, EDDY COUNTY, NM

4/27/2022

X New Supplement

Revision

Harkey

Formation

Well Type DEV

Ttl Measured Depth 19.960

Ttl Vetical Depth 7.900

Purpose

Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 440 Set Surface casing. Drill to Drill to 2635', set surface casing. Drill to 9490' (KOP). Drill curve at 12°/100' initial build rate to +/- 75 degrees and set casing at +/- 10115' MD. Finish curve at +/- 4°/100' to +/- 10000' TVD and drill a +/-9470' long lateral in the Wolfcamp A formation. Run and cement production liner. Stage frac. Drill out plugs. Run production packer, tubing and GLVs.

Total Well Cost	\$2,500,000	\$6,166,925	\$8,666,925
Total Tangible Cost	\$476,000	\$1,595,125	\$2,071,125
Lease Equipment		\$1,138,125	\$1,138,125
Well Equipment	\$476,000	\$457,000	\$933,000
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Total Intangible Cost	\$2,024,000	\$4,571,800	\$6,595,800
Completion Costs		\$4,571,800	\$4,571,800
Drilling Costs	\$2,024,000		\$2,024,000
Intangible	Dry Hole	After Casing Point	Completed Well Cost

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Approved By (Print Name)	Approved By (Signature)	Date
	Approved By (Print Name)	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 actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement.

11/1/2021

AFE # 26822009

	BCP -	Drilling	ACP - I	Orllling	Comp		Production	The state of the s	Post Com		Total
Description	Codes	Arnount	Codes	Amount	Codes	Amount	Codes	Arnount	Codes	Amount	Cost
toads & Location	DIDC,100	125,000			STIM.100	10,000	CON.100	50,500	PCOM.100	7,000	192,500
Damages	DIDC.105	30,000					CON.105	3,000			33,000
Mud/Ffuids Disposal	DIDC.255	125,000			STIM.255	53,000			PCOM:255	0	178,000
Day Rate	DIDC.115	350,000	DICC.120	60,000							410,000
Misc Preparation	DIDC.120	20,000									20,000
	DIDC.125	62,000	DICC.125	0	STIM,125	0			PCOM.125	0	62,000
Bits	DIDC.135	42,000	DICC.130	0					PCOM.130	0	42,000
Fuel	DIDC.140	25,000	DICC.135	0	STIM.135	20,000			PCOM,135	0	45,000
Water for Drilling Rig (Not Frac Water)	DIDC.145		DICC.ISS	v		/					150,000
Mud & Additives	DIDC.143	150,000							PCOM.257	88,800	88,800
SWD PIPED TO 3RD PARTY SWD WELL	010.5.150	22.000	DICC.140	0	ST(M.140	132,000	CON.140	2,875	PCOM.140	60,000	286,875
Surface Rentals	DIDC.150	92,000	DICC.140	0	STRM.145	35,000		0,010	PCOM.145	0	116,000
Downhole Rentals	DIDC.155	81,000			STIM.141	33,000			PCOM.141	30,000	30,000
Flowback Labor					511(W)141	U	CON.150	59,375	PCOM.150	9,500	68,875
Automation Labor							CONTINUE	33,573			21,000
Mud Logging	DIDC.170	21,000					CON.165	21,375			21,375
IPC & EXTERNAL PAINTING							CO14.103	21,373			175,000
Cementing & Float Equipment	DIDC.185	120,000	DICC.155	55,000					PCOM.160	0	64,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.TOO		30,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0			05011170	0	308,375
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	270,375	PCOM.170	0	59,875
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON,175	29,875	PCOM,175	0	
Supervision	DIDC.210	70,000	DICC.180	9,000	STIM.180	45,000	CON.180	29,625	PCOM,180	0	153,625
Trailer House/Camp/Catering	DIDC.280	38,000	DICC 255	5,000	STIM,280	23,000					66,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	62,000	CON.190	37,750	PCOM.190	0	104,750
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC 245	218,000									218,000
Solids Control	DIDC.260	44,000								1	44,000
Well Control Equip (Snubbing Services)	DIDC.265	74,000	DICC 240	5,000	STIM.240	59,000			PCOM.240	0	138,000
	Disc.i.os	74,000		3,000	STIM.115	21,000			PCOM,115	0	21,000
Completion Rig					STIM.260	164,000			PCOM.260	0	164,000
Coil Tubing Services					STIM.200	235,000			PCOM:200	0	235,000
Completion Logging/Perforating/Wireline					5THM.390	41,000			PCOM.390	0	41,000
Composite Plugs					STIM.210	2,002,000			PCOM.210	10,000	2,012,000
Stimulation Pumping/Chemicals/Additives/Sand										10,000	212,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	212,000			PCOM.305	72,500	132,500
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000	CON 300	0		72,300	10,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			7,000
Well Control Insurance	DIDC.285	7,000									
FL/GL - ON PAD LABOR							CON.495	19,500		-	19,500
FL/GL - Labor							CON.500	39,125			39,125
FL/GL - Supervision							CON.505	23,625			23,625
Survey							CON.515	2,750			2,750
Cantingency	DIDC.435	84,000	DICC.220	9,000	STIM.220	159,000	CON.220	159,750	PCOM.220	0	411,750
Contingency							CON.221	12,500			12,500
Total Intangible Cos	1	2,024,000		191,000		3,341,000		762,000		277,800	6,595,800
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	18,000									18,000
Surface Casing	DWEB.140	73,000									73,000
Intermediate Casing 1	DWE8.145	339,000									339,000
Production Casing or Liner		255,000	DWEA.100	145,000						1	145,000
Tubing				. 15,000	STIMT, 105	83,000			PCOMT.105	O	83,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000		38,000			PCOMT.120	10,000	104,000
	DWEB.100	38,000	DWEA.125	55,000	2	50,000				-/	55,000
Liner Hanger, Isolation Packer	DVYEB, IUU	0	DIVER.123	22,000	STIMT.400	28,000			PCOMT.400	0	28,000
Packer, Nipples					3111111200	20,000	CONT.385	27,625			27,62
PUMPS							CONT.390	15,000			15,000
WALKOVERS					CTIME ALE	00.000	CON1.330	15,000	PCOMT.410	0	80,000
Downhole Lift Equipment					STIMT,410	80,000	CONT 100	747750		0	217,750
N/C Lease Equipment							CONT.400	217,750		1	
Tanks, Tanks Steps, Stairs							CONT.405	103,000			103,000
Battery Equipment							CONT.410	355,375		1	355,375
Secondary Containments							CONT.415	51,875			51,875
Overhead Power Distribution							CONT.420	85,625			85,625
Facility Electrical							CONT,425	78,125			78,125
Telecommunication Equipment							CONT.426	1,250			1,250
Meters and Metering Equipment							CONT.445	37,125			37,125
Facility Line Pipe							CONT.450	45,500			45,500
Lease Automation Materials							CONT.455	78,125		1	78,125
FL/GL - Materials							CONT.550	8,625			8,625
							CONT.555	33,125			33,125
FL/GL - Line Pipe Total Tangible Cos		170,000		210.000		229,000		1,138,125		10,000	2,071,125
total rangine Con		476,000		218,000		663,000		ין יוטטוני	-	10,000	8,666,925

CIMAREX
Authorization For Expenditure - SO HILLS 32-29 STATE FED
COM 2H

AFE # 26822009

		BCP - Drilling			ACP - Drilling			Comp/Stim	1000
	Codes	DCI Dinning	Amount	Codes		Amount	Codes		Amour
escription	DIDC 100		125,000				STIM.100	CON.100	10,00
nads & Location						1			
amages	DIDC 105		30,000			1	STIM.255		53,0
lud/Fluids Disposal	DIDC.255		125,000			50,000	21011221		
ay Rate	DIDC 115	DICC.120	350,000	DICC.120		60,000			
fisc Preparation	DIDC 120		20,000						
Action to the second se	DIDC 125	DICC 135	62,000	DICC.125	STIM.125	0	STIM.125		
its				DICC.130		0			
uel		DICC.130	42,000			0	STIM.135		20,0
Vater for Drilling Rig (Not Frac Water)	DIDC.140	DICC.135	25,000	DICC.135	STIM.135	0	31110,133		1 20,0
Aud & Additives	DIDC.145		150,000						
WD PIPED TO 3RD PARTY SWD WELL									1
	DIDCIES	DISC 110	92,000	DICC.140	STIM.140	0	STIM.140	CON.140	132,0
urface Rentals	DIDC.150	DRCC.140		Ericc.140	31111710		STIM.145		35,0
ownhole Rentals	DIDC.155		81,000				STIM.141		
lowback Labor							5110.141		
Automation Labor									
	DIDC.170		21,000						
Aud Logging	DIDC. 170		21,000			1			
PC & EXTERNAL PAINTING				DICCIT		55,000			
ementing & Float Equipment	DIDC.185	DICC.155	120,000	DICC.155			CT114.150		4,0
ubular Inspections	DIDC.190	DICC.160	50,000	DICC 160	STIM.160	10,000	STIM.160		**,0
	DIDC.195		15,000	DICC.165	STIM.165	15,000	STIM.165		
Lasing Crews	DIDC 200		28,000	DICC.170	STIM.170	10,000	STIM,170	CON.170	
Mechanical Labor				DICC.175	STIM.175	8,000	STIM.175	CON.175	4,0
rucking/Transportation	DIDC.205		18,000				STIM.180	CON.180	45,0
upervision	DIDC.210		70,000	DICC.180	STIM.180	9,000			
Trailer House/Camp/Catering	DIDC.280	DICC.255	38,000	DICC.255	STIM.280	5,000	STIM.280		23,0
	DIDC.220	DICC.190	5,000	DICC.190	STIM.190	0	STIM.190	CON.190	62,0
Other Misc Expenses		DICC.195	10,000	DICC.195		5,000			
Overhead	DIDC.225	DILC.195		DICCIO		3,000			
MOB/DEMOB	DIDC.240		110,000						
Directional Drilling Services	DIDC.245		218,000						
Solids Control	DIDC.260		44,000						
		DICC 310	74,000	DICC.240	STIM.240	5,000	STIM.240		59,0
Well Control Equip (Snubbling Services)	DIDC S03	DICC.240	74,000	Dicesto			STIM,115		21,0
Completion Rig							STIM.260		164.0
Coil Tubing Services									575.756.0
Completion Logging/Perforating/Wireline							STIM.200		235,0
							STIM.390		41,0
Composite Plugs							STIM.210		2,002,0
Stimulation							STIM.395		212,0
Stimulation Water/Water Transfer/Water									1
Cimarex Owned Frac/Rental Equipment							STIM.305		60,0
Legal/Regulatory/Curative	DIDC.300		10,000						
Well Control Insurance	DIDC 285		7,000						
FL/GL - ON PAD LABOR									× .
FL/GL - Labor									
FL/GL - Supervision									
Survey				DICC 220	CTIM 120	9,000	STIM.220	CON 220	159,0
Contingency	DIDC.435	DICC.220	84,000	DICC.220	STIM.220	9,000	31101.220	CONTER	135,0
Contingency									-
Total Intangible Cost			2,024,000			191,000			3,341,0
Conductor Pipe	DWEB. 130		8,000						
			1						1
Water String	DWEB.135		18,000						
Surface Casing	DWEB. 140		73,000						1
Intermediate Casing 1	DWEB.145		339,000						
Production Casing or Liner				DWEA.100		145,000			1 -
Mark Committee C				1			STIMT. 105		83,0
Tubing				Distre see	ETIL 6T 120	10,000	STIMT.120		38,0
Weilhead, Tree, Chokes		DWEA.120		DWEA.120	311M1,120	18,000	31891,120		30,0
Liner Hanger, Isolation Packer	DWEB.100	DWEA.125	0	DWEA.125		55,000			
Packer, Nipples						1	STBMT.400		28,0
PUMPS									
WALKOVERS							ETH. 17 400		00
Downhole Lift Equipment							STIMT.410		80,0
N/C Lease Equipment									
Tanks, Tanks Steps, Stairs									
Battery Equipment									
Secondary Containments									1
Overhead Power Distribution									
Facility Electrical									
Telecommunication Equipment									
Meters and Metering Equipment									
Facility Line Pipe									
Lease Automation Materials						1			
FL/GL - Materials						1			
FL/GL - Line Pipe									
			476,000			218,000			229,
Total Tangible Con									3,570,0

AFE # 26822009

	Production Equip			Post Completion		Total
	The second secon	Amount	Codes		Amount	Co
Description	Codes	50,500	PCOM.100	Road Repair	7,000	192,50
loads & Location	CON.100		7			33,0
lamages	CON.105	3,000			0	178,0
Aud/Fluids Disposal			PCOM.255		U	
AND THE PROPERTY OF THE PROPER		1 1				410,0
Day Rate						20,0
disc Preparation			PCOM.125		0	62,0
Bits			PCOM.130		0	42,0
uel					0	45,0
Water for Drilling Rig (Not Frac Water)			PCOM,135		U	
						150,0
Mud & Additives			PCOM.257	2000 BWPD for 2 months to BBR @ \$0.74/bbl	88,800	88,88
SWD PIPED TO 3RD PARTY SWD WELL		2,875	PCOM.140	\$1,500/d for 40 days	60,000	286,8
Surface Rentals	CON.140	2,815		\$1,500/0 101 10 00/1	0	116,0
Downhale Rentals			PCOM.145	Land In the second seco		30,0
Flowback Labor			PCOM.141	\$2,000/d for 15 days	30,000	
	CON.150	59,375	PCOM.150	Sand Separator Hookup	9,500	68,8
Automation Labor						21,0
Mud Logging		24 275				21,3
PC & EXTERNAL PAINTING	CON.165	21,375				175,0
Cementing & Float Equipment						
Fubular Inspections			PCOM.160		0	64,0
		1				30,0
Casing Crews	5011570	270,375	PCOM.170		0	308,3
Mechanical Labor	CON.170	The state of the s			0	59,8
Frucking/Transportation	CON.175	29,875	PCOM.175		0	153,6
Supervision	CON.180	29,625	PCOM.180		U	
Trailer House/Camp/Catering						66,0
	CON.190	37,750	PCOM.190		0	104,7
Other Misc Expenses	South 13M	37,130				15,0
Overhead						110,0
MOB/DEMOB						
Directional Drilling Services						218,0
						44,0
Solids Control			PCOM.240		0	138,0
Well Control Equip (Snubbing Services)			PCOM.115		0	21,0
Completion Rig					0	164,0
Cail Tubing Services			PCOM.260			
Completion Lagging/Perforating/Wireline			PCOM.200		0	235,0
			PCOM.390		0	41,0
Composite Plugs			PCOM.210	Initial Chem Install	10,000	2,012,0
Stimulation Pumping/Chemicals/Additives/Sand			I COME TO	The state of the s		212,0
Stimulation Water/Water Transfer/Water Storage					77.500	
Cimarex Owned Frac/Rental Equipment			PCOM.305	XEC Owned Spherical Plus Iron	72,500	132,5
Legal/Regulatory/Curative	CON.300	0				10,0
	6011200				1	7,0
Well Control Insurance		10 500				19,5
FL/GL - ON PAD LABOR	CON.495	19,500			1	39,1
FL/GL - Labor	CON.500	39,125				
FL/GL - Supervision	CON.505	23,625				23,6
Survey	CON.515	2,750			1	2,7
	CON.220	159,750	PCOM.220		0	411,7
Contingency		Acceptance of the second				12,5
Contingency	CON.221	12,500			377.000	6,595,8
Total Intangible Cost		762,000			277,800	
Conductor Pipe						8,0
Water String						18,0
						73,0
Surface Casing						339,0
Intermediate Casing 1						
Production Casing or Liner						145,0
Tubing		and the same of th	PCOMT.105		0	83,0
Wellhead, Tree, Chokes			PCOMT.120	Welded Hairpin	10,000	104,0
						55,0
Liner Hanger, Isolation Packer			DCO(17.100		0	
Packer, Nipples			PCOMT.400		0	28,0
PUMPS	CONT.385	27,625			1	27,6
WALKOVERS	CONT.390	15,000			1	15,0
			PCOMT.410		0	80,0
Downhole Lift Equipment	CONT 100	247700				217,7
N/C Lease Equipment	CONT.400	217,750				
Tanks, Tanks Steps, Stairs	CONT.405	103,000			-	103,0
Battery Equipment	CONT.410	355,375				355,3
Secondary Containments	CONT.415	51,875				51,8
						85,6
Overhead Power Distribution	CONT.420	85,625				
Facility Electrical	CONT.425	78,125			1	78,
Telecommunication Equipment	CONT.426	1,250				1,
Meters and Metering Equipment	CONT.445	37,125			1	37,
						45,
Facility Line Pipe	CONT.450	45,500				78,
Lease Automation Materials	CONT.455	78,125				
FL/GL - Materials	CONT.550	8,625				8,6
FL/GL - Line Pipe	CONT.555	33,125				33,
					10,000	2,071,
Total Tangible Cos		1,138,125				

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

APPLICATIONS OF CIMAREX ENERGY CO. OF COLORADO FOR A HORIZONTAL SPACING UNIT AND COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 22295 and 22333

SELF-AFFIRMED STATEMENT OF LUCAS HAAS

- I, LUCAS HAAS, being duly sworn, states the following:
 - 1. I am over the age of 18, and I have personal knowledge of the matters stated herein.
- 2. I am employed as a petroleum geologist for Cimarex Energy Co. ("Cimarex"), and I am familiar with the subject applications and the geology involved.
- 3. This affidavit is submitted in connection with the filing by Cimarex of the above-referenced compulsory pooling applications pursuant to 19.15.4.12.A(1) NMAC.
- 4. I have testified previously by affidavit before the Oil Conservation Division ("Division") as an expert petroleum geologist; my credentials have been made a matter of record, and I have been qualified as an expert by the Division.
 - a. I have a Bachelor of Science Degree in Geology from Binghamton
 University, and a Master of Science Degree in Geology from the
 University of Colorado.
 - I have worked on New Mexico Oil and Gas matters since January 2019.
- 5. **Exhibit B-1** is a structure map of top Bone Spring Carbonate Formation with contour interval of 20 feet. The unit being pooled is outlined by a green rectangle. The

EXHIBIT β

structure map shows that there is a regional down-dip to the east. I do not observe any faulting, pinchouts, or other geologic impediments to developing this targeted interval

- 6. Exhibit B-2 is a stratigraphic cross-section flattened on the base of the Bone Spring Sand. Each well in the cross-section contains a gamma ray, resistivity, and porosity log. The cross-section demonstrates continuity of the target zone. The well logs on the cross-section give a representative sample of the Bone Spring Sandstone target. The landing zone is highlighted by light, brown shading.
- 7. Additional exhibits for the benefit of the Division's review include **Exhibit B-3**, a gross isopach of the overall Bone Spring Carbonate interval, as well as **Exhibits B-4 and B-5**. **Exhibit B-4** is a gun barrel representation of the unit, and **Exhibit B-5** is a structural cross section built along the wellbore trajectories. Exhibits B-1 through B-5 are the same for the Bone Spring Sandstone application in both Case Nos. 22295 and 22333.
 - 8. I conclude from the attached exhibits that:
 - a. The horizontal spacing and proration unit is justified from a geologic standpoint.
 - b. There are no structural impediments or faulting that will interfere with horizontal development.
 - The target zone is continuous and of relatively uniform thickness across the well unit.
 - d. Each quarter-quarter section in the unit will contribute more or less equally to production.
- 9. The preferred well orientation in this area is North-South so that the wells run subperpendicular to the inferred orientation of the maximum horizontal stress.

- 10. The Exhibits to this Affidavit were prepared by me or compiled from Cimarex Energy Co. business records under my direct supervision.
- 11. The granting of this Application is in the interests of conservation, the prevention of waste and the drilling of unnecessary wells, and the protection of correlative rights.
 - 12. The foregoing is correct and complete to the best of my knowledge and belief.

[Signature page follows]

I understand that this Self-Affirmed Statement will be used as written testimony in these cases. I affirm that my testimony in paragraphs 1 through 12 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 3/10/2010

Lucas Haas

