#### **CASE NO. 22297**

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

## CIMAREX ENERGY CO.'S EXHIBIT LIST (PART I)

- 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. 22297

### 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 (Purpose Sage; Wolfcamp, Gas; Pool Code: 98220) underlying a standard 640-acre,

EXHIBIT



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

## 6. Under Case No. 22297:

- a. Cimarex seeks to dedicate the **Southern Hills 32-29 State Fed Com 3H 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 NW/4 NW/4 (Unit D) of Section 29; approximate TVD of 8,830'; approximate TMD of 18,830'; FTP in Section 32: 827' FSL, 330' FWL; LTP in Section 29: 100' FNL, 330' FWL.
- b. Cimarex seeks to dedicate the **Southern Hills 32-29 State Fed Com 4H 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 8,830'; approximate TMD of 18,830'; FTP in Section 32: 834' FSL, 2,112' FWL; LTP in Section 29: 100' FNL, 2,2112' FWL.
- 7. The wells will be unorthodox in location, and the 100' setback of the take points do not comply with the special field rules for the Purple Sage, Wolfcamp, pursuant to Order No. R-14262; Cimarex will be applying administratively to the NMOCD for approval of the non-standard locations.
- 8. Cimarex has a horizontal well, the Cottonwood Hills 32 State Com (API No. 30-015-39967), in the W/2 of Section 32, in the Wolfcamp formation. The proposed HSU will overlap this 320-acre unit in the W/2, and Cimarex respectfully requests approval, to the

extent necessary, for the overlapping units.

- 9. The proposed C-102 for each well is attached as Exhibit A-1.
- 10. 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.
- 11. 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.
  - 12. There are no depth severances in the Bone Spring formation in this acreage.
- 13. 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.
- 14. 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.

15. 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.

16. 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.

17. 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.

18. 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.

- 19. Cimarex requests the maximum cost, plus 200% risk charge be assessed against non-consenting working interest owners to the extent needed.
  - 20. Cimarex requests that it be designated operator of the units and wells.

Form C-102

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

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 Departn
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

ATTACHMENT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 98220	Purple Sage; Wolfcamp, Gas	
<sup>4</sup> Property Code	So. Hills 32-29 State Fe	roperty Name ed Com	6 Well Number 3H
<sup>7</sup> OGRID No. 215099	8 OI	perator Name EX ENERGY CO.	9 Elevation 3244.5'

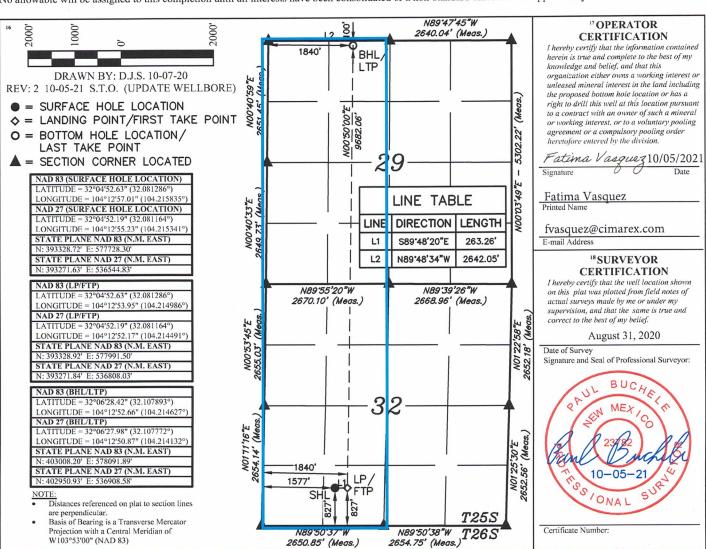
#### <sup>10</sup> Surface Location

UL or lot no. N	Section 32	Township 25S	Range 27E	Lot Idn	Feet from the 827	North/South line SOUTH	Feet from the 1577	East/West line WEST	County EDDY
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#### "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 1840	East/West line WEST	County EDDY
12 Dedicated Acre	es 1	<sup>3</sup> Joint or Infill	14 Conso	olidation Code	15 Order No.				

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



District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

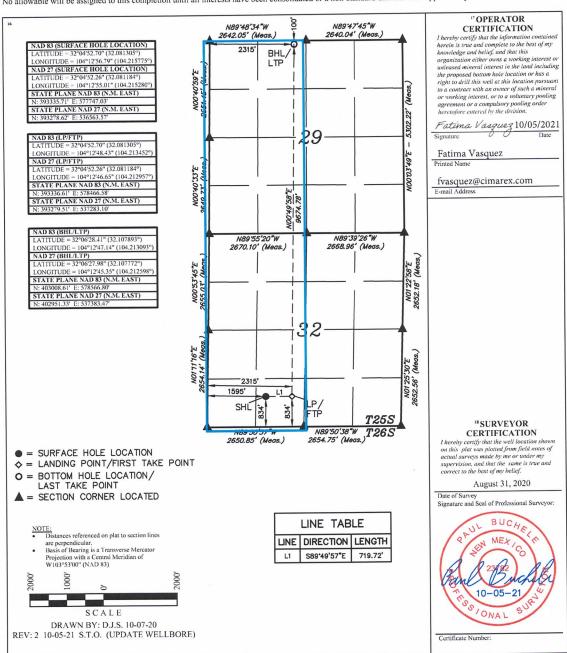
API Number	<sup>2</sup> Pool Code 98220	Purple Sage; Wolfcamp, G	as
4 Property Code	So. Hills 32-29 S	Property Name	6 Well Number 4H
7 OGRID No. 215099		Operator Name REX ENERGY CO.	9 Elevation 3244.7'

UL or lot no. Section Township Range Lot Idn Feet from the North/South line SOUTH 1595 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 2315	East/West line WEST	County EDDY
12 Dedicated Acr	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.



Page 8 of 37

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	0.00000000
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

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

United States of America

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

1104 N. Shore Drive

Carlsbad, NM 88220

Released to Imaging: 2/11/2022 8:35:09 AM

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



September 3, 2021

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

Re:

Proposal to Drill

Southern Hills 32-29 State Fed Com 3H & 4H

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

Eddy County, NM

Dear Working Interest Owner,

Cimarex Energy Co. hereby proposes to drill the Southern Hills 32-29 State Fed Com 3H & 4H 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 3H - The intended surface hole location for the well is 827'FSL & 1,577'FWL of Section 32, Township 25 South, Range 27 East, and the intended bottom hole location 100'FNL & 1,840'FWL of Section 29, Township 25 South, Range 27 East. The well is proposed to be drilled vertically to the Wolfcamp 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 8,830'.

Southern Hills 32-29 State Fed Com 4H - The intended surface hole location for the well is 834'FSL & 1,595'FWL of Section 32, Township 25 South, Range 27 East, and the intended bottom hole location 100'FNL & 2,315'FWL of Section 29, Township 25 South, Range 27 East. The well is proposed to be drilled vertically to the Wolfcamp 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 8,830'.

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:

- 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.

ATTACHMENT 3

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 White City 32-29 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

Kilay CMS

### ELECTION TO PARTICIPATE Southern Hills 32-29 State Fed Com 3H

	Chevron U.S.A. Inc. elects <b>TO</b> participate in the proposed Southern Hills 32-29 State Fed Com 3H well.
	Chevron U.S.A. Inc. elects <b>NOT</b> to participate in the proposed Southern Hills 32-29 State Fed Com 3H well.
Dated this day of	, 2021.
Signature:	
Title:	
If your election above is then:	TO participate in the proposed Southern Hills 32-29 State Fed Com 3H well,
	Chevron U.S.A. Inc. elects <b>TO</b> be covered by well control insurance procured by Cimarex Energy Co.
	Chevron U.S.A. Inc. elects <b>NOT</b> 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 # 26821008

9/3/2021

Exploration Region

Well Name

Prospect

Property Number

Permian Basin

SO HILLS 32-29 STATE FED COM 3H Carlsbad Bone Spring Prospect

300001-183.01

26821008

County, St

Location

W/2 OF SECTIONS 29 & 32, TOWNSHIP 25 SOUTH, RANGE 27

Estimated Spud

Estimated Completion

Eddy, NM

EAST, EDDY COUNTY, NEW MEXICO

5/17/2021

6/17/2021

X New Supplement

Drill and complete well

Formation Wolfcamp Well Type DEV Ttl Measured Depth 18,830 Ttl Vetical Depti 8.830

Revision

Description

Intangible Drilling Costs	Dry Hole \$2,096,000	After Casing Point	Completed Well Cost \$2,096,000
Completion Costs		\$4,805,200	\$4,805,200
Total Intangible Cost	\$2,096,000	\$4,805,200	\$6,901,200
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$402,000	\$408,000	\$810,000
Lease Equipment		\$1,138,125	\$1,138,125
Total Tangible Cost	\$402,000	\$1,546,125	\$1,948,125
Total Well Cost	\$2,498,000	\$6,351,325	\$8,849,325

#### 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 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.

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

#### 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
Costs shown on this form are estimates only.	By executing this AFE, the consenting party agrees to pay its proportionate	
		Approved By (Print Name)  Approved By (Signature)  Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate

9/3/2021

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

CIMAREX
Authorization For Expenditure - SO HILLS 32-29 STATE FED COM 3H

	BCP - D	rilling	ACP - D	rilling	Comp/		Production		Post Comp		Total
escription	Codes	Amount )	Codes	Amount :	Codes	Amount!	Codes	Amount :	Codes	Amount`	Cos
pads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	50,500	PCOM.100	7,000	192,50
amages	DIDC.105	30,000				!	CON.105	3,000			33,00
ud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000			PCOM.255	0,	178,00
ay Rate	DIDC.115		DICC.120	60,000				i		1	410,00
	DIDC.120	20,000									20,00
isc Preparation	DIDC.125	62,000	DICC.125	0	STIM.125	0.		,	PCOM.125	0	62,00
its	DIDC.135	42,000	DICC.130	0					PCOM.130	0	42,00
uel	DIDC.140	25,000	DICC.135	0	STIM.135	20,000			PCOM.135	o o	45,00
later for Drilling Rig (Not Frac Water)			0100.155	•		20,000		- 1			150,00
tud & Additives	DIDC.145	150,000							PCOM.257	244,200	244,20
WD PIPED TO 3RD PARTY SWD WELL	DIDC 150	02.000	DICC.140	0	STIM.140	132,000	CON.140	2,875	PCOM.140	60,000	286,87
urface Rentals	DIDC.150	92,000	DICC.140	•	STIM.141	132,000		-,-,-	PCOM.141	30,000	30,00
lowback Labor				į	STIM.145	35,000			PCOM,145	0	116,00
ownhole Rentals	DIDC.155	81,000		1	311ML 143	33,000	CON.150	59.375	PCOM.150	9,500	68,87
utomation Labor							CONTIN	35,373			21,00
Aud Logging	DIDC.170	21,000				i	CON 165	24 275		1	21,37
PC & EXTERNAL PAINTING		į				1	CON.103	21,375			165,00
ementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000				3	PCOM.160	oʻ	64,00
ubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM. 160	4,000		1	PCOM. 160	Ů,	30,00
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0;					308,3
dechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0,	CON.170		PCOM.170	0	
rucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175		PCOM.175	0	59,8
Supervision	DIDC.210	70,000	DICC.180	9,000	STIM.180	45,000	CON.180	29,625	PCOM.180	0	153,67
railer House/Camp/Catering	DIDC.280	38,000	DICC.255	5,000	STIM.280	23,000					66,0
	DIDC.220	5,000	DICC.190	0	STIM.190	58,000	CON.190	37,750	PCOM.190	0,	100,7
Other Misc Expenses	DIDC.225	10,000	DICC.195	5,000		- 2,000					15,0
Overhead	DIDC.240	110,000	J	3,000							110,0
MOB/DEMOB	DIDC.245					1					297,0
Directional Drilling Services		297,000		1						- 1	44,0
iolids Control	DIDC.260	44,000			CTILADAD	FO 000			PCOM.240	o o	138,0
Well Control Equip (Snubbing Services)	DIDC.265	74,000	DICC.240	5,000	STIM.240	59,000			PCOM.115	0,	21,0
completion Rig		:		1	STIM.115	21,000			PCOM.260	0	164,0
Coil Tubing Services				1	STIM.260	164,000			PCOM.200	o	235,0
Completion Logging/Perforating/Wireline				į	STIM.200	235,000		- 1		0	41,0
Composite Plugs				,	STIM.390	41,000			PCOM.390	CONTRACTOR OF THE PARTY OF THE	2.024.0
Stimulation Pumping/Chemicals/Additives/Sand		1		i	STIM.210	2,014,000			PCOM.210	10,000	
Stimulation Water/Water Transfer/Water Storage		1			STIM.395	278,000					278,0
Cimarex Owned Frac/Rental Equipment		2			STIM.305	60,000			PCOM.305	72,500	132,5
	DIDC.300	10,000					CON.300	0			10,0
Legal/Regulatory/Curative	DIDC.285	7,000								1	7,0
Well Control Insurance	DIDC203	7,000					CON.495	19,500			19,5
FL/GL - ON PAD LABOR	1						CON.500	39,125		:	39,1
FL/GL - Labor							CON.SOS	23,625		•	23,6
FL/GL - Supervision							CON.515	2,750		:	2,7
Survey					CTILATIO	462.000	CON.220	159,750	PCOM.220	o.	418,7
Contingency	DIDC.435	87,000	DICC.220	9,000	STIM.220	163,000	CON 221	12,500	7 40 11112	-	12,5
Contingency	l			10.00	222 111		CON.221		the end of	433,200	6,901,2
Total Intangible Cost	(	2,096,000		191,000		3,419,000		762,000	4	433,200	8.0
Conductor Pipe	DWEB.130	8,000			•				1		15,0
Water String	DWEB.135	15,000								1	
Surface Casing	DWEB.140	71,000					2		,		71,0
Intermediate Casing 1	DWEB.145	270,000							1		270,0
Production Casing or Liner		,	DWEA.100	127,000							127,0
					STIMT.105	52,000			PCOMT.105	0	52,
Tubing	DWEB.115	20.000	DWEA 120	18 000	STIMT.120	38,000	i		PCOMT.120	10,000	104,
Wellhead, Tree, Chokes						30,000					55,
Liner Hanger, Isolation Packer	DWEB.100	0	OWERIES	55,000	STIMT,400	20 000	i		PCOMT.400	oʻ	28,
Packer, Nipples	:		C		311W1.400	28,000	CONT.385	27,625		1	27,
PUMPS	4		!		;		,			1	15,
WALKOVERS	•						CONT.390	15,000	PCOMT.410	0	80,
Downhole Lift Equipment	1				STIMT,410	80,000		0		U,	217,
N/C Lease Equipment			1		:		CONT.400	217,750		}	
Tanks, Tanks Steps, Stairs	1				:		CONT.405	103,000		:	103,
Battery Equipment			:		:		CONT.410	355,375		1	355,
Secondary Containments			!				CONT.415	51,879		1	51,
-			1				CONT.420	85,625	:	i	85.
Overhead Power Distribution	į		;				CONT.425	78,125		•	78,
Facility Electrical	:		1				CONT.426	1,250			1,
Telecommunication Equipment	1				į.		CONT.445	37,129		1	37
Meters and Metering Equipment	1				1						45
Facility Line Pipe			!	6 2			CONT.450	45,500		i	78
Lease Automation Materials	ì		1		1		CONT.455	78,125		!	8
FL/GL - Materials	1		1		1		CONT.550	8,625			
FL/GL - Line Pipe	1		1				CONT.555	33,125			33
Yotal Tangible Co	s	402,000	4	200,000	)i	198,000	) i	1,138,12	5! !	10,000	1,948 <b>8,849</b> ,
										443,200	



CIMAREX
Authorization For Expenditure - SO HILLS 32-29 STATE FED

CON	<b>M 3H</b>									
		BCP - Drilling			ACP - Drilling	in the last		Cor	np/Stim	
Description	Codes		Amount;	Codes		Amount	Codes			Amount
Roads & Location	DIDC.100		125,000			1	STIM.100	CON.100		10,000
Damages	DIDC.105		30,000							
Mud/Fluids Disposal	DIDC.255		125,000				STIM.255			53,000
Day Rate	DIDC.115	DICC.120	350,000	DICC.120		60,000			•	. 1
Misc Preparation	DIDC.120		20,000			,				
Bits	DIDC.125	DICC 125	62,000	DICC.125	S1IM 125	0	STIM.125		1	0
Account to the second s	DIDC.135		42,000	DICC.130		0			1	i
Fuel	DIDC.140		25,000		STIM.135	0	STIM.135			20,000
Water for Drilling Rig (Not Frac Water)		DICC.133			31111.133	•				
Mud & Additives	DIDC.145		150,000			1 1				
SWD PIPED TO 3RD PARTY SWD WELL				0100 110	F*ID 4 4 40	0	STIM.140	CON.140	i	132,000
Surface Rentals	DIDC.150	DICC.140	92,000	DICC.140	STIM.140	0	STIM.141	2011.140	i	0
Flowback Labor							STIM.145		1	35,000
Downhole Rentals	DIDC.155		81,000			1 .	311M.143		- 1	33,000
Automation Labor										i
Mud Logging	DIDC.170		21,000						i	
IPC & EXTERNAL PAINTING	;			,						
Cementing & Float Equipment	DIDC.185	DICC.155	110,000	DKC.155		55,000			1	
Tubular Inspections	DIDC.190	DICC.160	50,000	DICC.160	STIM.160	10,000	STIM.160			4,000
Casing Crews	DIDC.195	DICC.165	15,000	DICC.165	STIM.165	15,000	STIM.165	12-2-2-1		0,
Mechanical Labor	DIDC.200	DICC.170	28,000	DICC.170	STIM.170	10,000	STIM.170	CON.170		0
Trucking/Transportation	DIDC.205	DICC.175	18,000		STIM.175	8,000	STIM.175	CON.175		4,000
Supervision		DICC.180	70,000		STIM.180	9,000	STIM.180	CON.180		45,000
:Trailer House/Camp/Catering	DIDC.280		38,000			5,000	STIM.280		=	23,000
Other Misc Expenses		DICC.190	5,000			0	STIM.190	CON.190		58,000
	DIDC.225				311111.130	5,000	, ,=0,1000000000			
Overhead		DICC.193	10,000	DICCIO		3,000				
MOB/DEMOB	DIDC.240		110,000	1		1			į	
Directional Drilling Services	DIDC.245		297,000			į i				
Solids Control	DIDC.260		44,000	·			4=			59,000
Well Control Equip (Snubbing Services)	DIDC.265	DICC.240	74,000	DICC240	STIM.240	5,000	STIM.240			
Completion Rig	}			İ			\$TIM.115			21,000
Coil Tubing Services	5		i	1			STIM.260			164,000
Completion Logging/Perforating/Wireline	1			1			STIM.200			235,000
Composite Plugs	;						STIM.390			41,000
Stimulation	)		1	<u>'</u>			STIM.210			2,014,000
Stimulation Water/Water Transfer/Water	-		1	!			STIM.395			278,000
Cimarex Owned Frac/Rental Equipment	1			į			STIM.305			60,000
Legal/Regulatory/Curative	DIDC.300		10,000	1						
Well Control Insurance	DIDC.285		7,000							
	Diocitos		7,000							
FL/GL - ON PAD LABOR	1					1				
FL/GL - Labor										
FL/GL - Supervision				į		ŀ				
Survey	0100 435	DICC 220	07.000	DICC 220	STIM.220	9,000	STIM.220	CON.220		163,000
Contingency	UIDC,435	DICC.220	87,000	DICCZZU	31IM.220	3,000				,
Contingency	1			ļ.,		101 000				3,419,000
Total Intangible Cor			2,096,000			191,000				3,413,000
Conductor Pipe	DWEB.130	)	8,000	1						
Water String	DWEB.135	i	15,000	i		i				
Surface Casing	DWEB.140	)	71,000							
Intermediate Casing 1	DWEB.145	i	270,000	ł.						
Production Casing or Liner			i	DWEA.100	)	127,000				
Tubing	1					1	STIMT.105	i		52,000
Weilhead, Tree, Chokes	DWEB.119	DWEA.120	38.000	DWEA.120	STIMT.120	18,000	STIMT.120	)		38,000
Liner Hanger, Isolation Packer		DWEA.125		DWEA.12		55,000				
Packer, Nipples	,		,	1		22,230	STIMT.400	)		28,000
PUMPS	1		1	1		i	!			
WALKOVERS	•		:	-		1	;			
			1	i		-	STIMT.410			80,000
Downhole Lift Equipment			{	1		1	3.041.410			50,000
N/C Lease Equipment	•		i			1				
Tanks, Tanks Steps, Stairs	1		1	:		1				
Battery Equipment	1		į	ì		}				
Secondary Containments	1		1	1			;			
Overhead Power Distribution				1			1			
Facility Electrical				1						
Telecommunication Equipment	1		1	1		1				
Meters and Metering Equipment	1		İ	1			!			1
Facility Line Pipe			1	1						
Lease Automation Materials	,		-	į .		i	į			
FL/GL - Materials			1	i						
FL/GL - Line Pipe			i	i						
Total Tangible Co			402,000	í ·		200,000	1			198,000
			2,498,000			391,000				3,617,000
Total Estimated Cos	K		4,498,000	9		331,000		e lesson is		



CIMAREX
Authorization For Expenditure - SO HILLS 32-29 STATE FED COM 3H

	Production Equip			Post Completion		Total
escription	Codes	Amount	Codes		Amount	(
eads & Location	CON.100	50,500	PCOM.100	Road Repair	7,000	192,
	CON.105	3,000			,	33,0
mages			PCOM.255		0,	178,
sd/Fluids Disposal		i			1	410,
/ Rate		1			4	20,
c Preparation	!				o.	62,
1	:		PCOM.125		0	42,
4			PCOM.130		100	833.5
ter for Drilling Rig (Not Frac Water)			PCOM.135	:	0	45,
d & Additives		. 1			•	150,
			PCOM.257	5500 BWPD for 2 months to BBR @ \$0.74/bbl	244,200	244,
D PIPED TO 3RD PARTY SWD WELL		2075	PCOM.140	\$1,500/d for 40 days	60,000	286
face Rentals	CON.140	2,875		\$2,000/d for 15 days	30,000	30
wback Labor		1	PCOM.141	\$2,000/d for 13 days	0.	116
winhole Rentals		1	PCOM.145		-,	68
tomation Labor	CON.150	59,375	PCOM.150	Sand Separator Hookup	9,500	
ad Logging					;	21
& EXTERNAL PAINTING	CON.165	21,375				21
The state of the s	Con.ics					165
menting & Float Equipment		- {	PCOM.160		0	64
bular Inspections		1	1 401111100			30
sing Crews					oʻ.	308
chanical Labor	CON.170	270,375	PCOM.170	- 1	0	59
icking/Transportation	CON.175	29,875	PCOM.175		1	
pervision	CON.180	29,625	PCOM.180		0	153
ailer House/Camp/Catering					1	66
	CON.190	37,750	PCOM.190		0	100
her Misc Expenses		37,730			1	15
rerhead						110
OB/DEMO8					- 1	29
rectional Drilling Services		1				44
lids Control					.!	
ell Control Equip (Snubbing Services)			PCOM.240		0	138
ampletion Rig			PCOM.115		0	21
			PCOM.260		0	164
il Tubing Services			PCOM.200		o'	235
empletion Logging/Perforating/Wireline			PCOM.390		0	4
omposite Plugs				State of the state	10,000	2,02
timulation Pumping/Chemicals/Additives/Sand			PCOM.210	Initial Chem Install	10,000	27
timulation Water/Water Transfer/Water Storage						
imarex Owned Frac/Rental Equipment			PCOM.305	XEC Owned Spherical Plus Iron	72,500	132
egal/Regulatory/Curative	CON.300	0				10
		-			1	7
/ell Control Insurance	6011 105	10 500		'		19
L/GL - ON PAD LABOR	CON.495	19,500			i	39
L/GL - Labor	CON.500	39,125				2
L/GL - Supervision	CON.505	23,625		a .	1	
urvey	CON.S15	2,750			i	
ontingency	CON.220	159,750	PCOM.220		0	41
	CON.221	12,500	l	9	1	1.
ontingency	CON.221			(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	433,200	6,90
Total Intangible Cost	ye, seed a company of the seed	762,000		THE R. P. LEWIS CO., LANSING, MICH.		
anductor Pipe		(			i	1
/ater String						
urface Casing					i	7
termediate Casing 1			i			27
roduction Casing or Liner					i	12
A STATE OF THE STA		i	PCOMT.105		0.	5
ubing		i	1	Welded Hairpin	10,000	10
/ellhead, Tree, Chokes			COMI.120	TTEROCU FREEPHI	.0,000	5
iner Hanger, Isolation Packer			1			
acker, Nipples			PCOMT.400		0	2
UMPS	CONT.385	27,625		141		. 2
VALKOVERS	CONT.390	15,000			i	1
		12,000	PCOMT.410	1	0	3
ownhole Lift Equipment	5017 100	242750	*			21
/C Lease Equipment	CONT.400	217,750			[ [	10
anks, Tanks Steps, Stairs	CONT.405	103,000			: !	35
attery Equipment	CONT.410	355,375			1	
econdary Containments	CONT.415	51,875			:	:
overhead Power Distribution	CONT.420	85,625			1 1	8
	1000	78,125			1	7
acility Electrical	CONT.425				1	
elecommunication Equipment	CONT.426	1,250			1 1	
deters and Metering Equipment	CONT.445	37,125			!	
acility Line Pipe	CONT.450	45,500	),			
Lease Automation Materials	CONT.455	78,125	i.		1	
	CONT.550	8,625				
FL/GL - Materials		33,125				3
L/GL - Line Pipe	CONT.555				10,000	
Total Tangible Cos		1,138,129				

# ELECTION TO PARTICIPATE Southern Hills 32-29 State Fed Com 4H

	Chevron U.S.A. Inc. elects TO participate in the proposed Southern Fins 32-29 State Fed Com 4H well.
	Chevron U.S.A. Inc. elects <b>NOT</b> to participate in the proposed Southern Hills 32-29 State Fed Com 4H well.
Dated this day of	, 2021.
Signature:	
Title:	
If your election above is then:	s TO participate in the proposed Southern Hills 32-29 State Fed Com 4H well,
	Chevron U.S.A. Inc. elects <b>TO</b> be covered by well control insurance procured by Cimarex Energy Co.
	Chevron U.S.A. Inc. elects <b>NOT</b> 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 # 26822010

9/3/2021

Company Entity Exploration Region

Prospect

300001-190.01

26822010

Permian Basin

Estimated Spud

Eddy, NM

Section 32, Township 25 South, Range 27 East

SO HILLS 32-29 STATE FED COM 4H Carlsbad Bone Spring Prospect

5/11/2022

X New

Supplement Revision

Formation Wolfcamp DEV

Itl Measured Depth 19,083

Ttl Vetical Depth

9,083

Purpose

Drill and complete well

Description

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	\$2,096,000		\$2,096,000
Completion Costs		\$4,805,200	\$4,805,200
Total Intangible Cost	\$2,096,000	\$4,805,200	\$6,901,200
Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	\$402,000	\$408,000	\$810,000
Lease Equipment		\$1,138,125	\$1,138,125
Total Tangible Cost	\$402,000	\$1,546,125	\$1,948,125
Total Well Cost	\$2,498,000	\$6,351,325	\$8,849,325

#### 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 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.

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.

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	9/3/2021	
share of actual costs incurred.	Overhead will be charged in accordance with the Joint Operating Agreement.			

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



CIMAREX

Authorization For Expenditure - SO HILLS 32-29 STATE FED

COM 4H	BCP - D	rilling	ACP -	Drilling	Comp/		Production		Post Com		Total
i i	Codes	Amount:	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	C
escription	DIDC.100	125,000	Cours		STIM.100	10,000	CON.100	50,500	PCOM.100	7,000	192,5
eads & Location				i			CON.105	3,000		1	33,0
mages	DIDC.105	30,000		. !	STIM.255	53,000	A .		PCOM.255	0	178,0
ud/Fluids Disposal	DIDC.255	125,000		****	311WL233	33,000				1	410,0
y Rate	DIDC.115	350,000	DICC.120	60,000							20.0
sc Preparation	DIDC.120	20,000		1					PCOM.125	o	62.0
ts .	DIDC.125	62,000	<b>DICC.125</b>	0	STIM.125	0					42.0
el	DIDC.135	42,000	DICC.130	0		i			PCOM.130	0	
ater for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000		(	PCOM.135	0	45,
	DIDC.145	150,000								1	150,
ud & Additives	0100.143	130,000						:	PCOM.257	244,200	244.
VD PIPED TO 3RD PARTY SWD WELL			0155 1 10	. 0	STIM.140	132,000	CON.140	2,875	PCOM.140	60,000	286,
rface Rentals	DIDC.150	92,000	DICC.140	. 0		132,000	2011.140	2,075	PCOM.141	30,000	30,
owback Labor		- 1		ì	STIM.141				PCOM.145	0	116,
ownhole Rentals	DIDC.155	81,000			STIM.145	35,000					68,
stomation Labor							CON.150	59,375	PCOM.150	9,500	
ud Logging	DIDC.170	21,000									21,
C & EXTERNAL PAINTING				,		1	CON.165	21,375		1	21,
	DIDC.185	110,000	DICC.155	55,000		- 1					165
ementing & Float Equipment	-				STIM.160	4,000			PCOM.160	oʻ	64
ibular Inspections	DIDC.190	50,000	DICC.160	10,000						- 1	30
asing Crews	DIDC.195	15,000		15,000	STIM.165	0			DC011170	0	308
Sechanical Labor	DIDC.200	28,000		10,000	STIM.170	0;	CON.170	270,375			59,
ucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	29,875	PCOM.175	0	
pervision	DIDC.210	70,000	DICC.180	9,000	STIM.180	45,000	CON.180	29,625	PCOM.180	0,	153
	DIDC.280	38,000	DICC.255	5,000	STIM.280	23,000				1	66
railer House/Camp/Catering				3,000	STIM.190	58,000	CON.190	37,750	PCOM.190	0	100
ther Misc Expenses	DIDC.220	5,000		-	31141.130	30,000		27,750	A CONTROL OF COLUMN 1	-	15
verhead	DIDC.225	10,000	DICC.195	5,000		i				1	110
AOB/DEMOB	DIDC.240	110,000								1	297
Directional Drilling Services	DIDC.245	297,000									
alids Control	DIDC.260	44,000								•	44
Vell Control Equip (Snubbing Services)	DIDC.265	74,000	DICC.240	5,000	STIM.240	59,000			PCOM.240	0	138
	Dibunus	74,000		2,000	STIM.115	21,000			PCOM.115	0	21
ompletion Rig					STIM.260	164,000	:		PCOM.260	oʻ	164
ail Tubing Services				5					PCOM.200	0	235
ompletion Logging/Perforating/Wireline			í		STIM.200	235,000				0,	41
Composite Plugs			:		STIM.390	41,000	;		PCOM.390	1	
itimulation Pumping/Chemicals/Additives/Sand			i		STIM.210	2,014,000			PCOM.210	10,000,	2,024
itimulation Water/Water Transfer/Water Storage					STIM.395	278,000					278
Cimarex Owned Frac/Rental Equipment	i				STIM.305	60,000			PCOM.305	72,500	132
	0105 300	40.000			:	00,000	CON.300	0			10
egal/Regulatory/Curative	DIDC.300	10,000			i		CONTROL	·			7
Well Control Insurance	DIDC.285	7,000								•	19
FL/GL - ON PAD LABOR							CON.495	19,500	4	!	
L/GL - Labor	1				!		CON.500	39,125		1	39
L/GL - Supervision	}				-		CON.505	23,625			23
Survey	•				}		CON.515	2,750			2
	DIDC.435	87,000	DICC.220	9,000	STIM.220	163,000	CON.220	159,750	PCOM.220	0	418
Contingency		87,000	,	3,000		103,000	CON.221	12,500	i .		12
ontingency	14 Section 1			14/247			CONZZI			433 300	6,90
Total Intangible Cost		2,096,000	i	191,000	1	3,419,000		762,000	ter a	433,200	
Conductor Pipe	DWEB.130	8,000	:		:						8
Water String	DWEB.135	15,000			1					- 1	15
ourface Casing	DWEB.140	71,000	1								7
ntermediate Casing 1	DWEB.145	270,000	:							í	270
and the same of th		270,000	DWEA.100	127,000			į				127
Production Casing or Liner	1		. DIVEN.100	127,000	CTIL 47 400	F2 000			PCOMT.105	0	52
ubing			į.		STIMT.105	52,000	,				
Wellhead, Tree, Chokes	DWEB.115	38,000		, -,	STIMT.120	38,000			. PCOMT.120	10,000	10-
iner Hanger, Isolation Packer	DWEB.100	0	DWEA.12	55,000						;	55
Packer, Nipples					STIMT.400	28,000			PCOMTA00	0	28
PUMPS						20,000	CONT.385	27,625		1	2
							CONT.390	15,000			15
VALKOVERS					CT11 /=	** ***		13,000	PCOMTA10	oʻ	80
Downhole Lift Equipment	,				STIMT.410	80,000				U,	
N/C Lease Equipment			1		1		CONT.400	217,750		1	217
anks, Tenks Steps, Stairs				1			CONT.405	103,000		;	103
Sattery Equipment			i				CONT.410	355,375			355
econdary Containments	1						CONT.415	51,875		1	5
			:							- 1	8
Overhead Power Distribution	1		:				CONT.420	85,625		1	
Facility Electrical							CONT.425	78,125		1	78
Telecommunication Equipment	!						CONT.426	1,250		1	
Meters and Metering Equipment	i		i				CONT.445	37,125		i	3
Facility Line Pipe	i.				1		CONT.450	45,500			4
	:						CONT.455	78,125			7
Lease Automation Materials	i				1		•				
FL/GL - Materials					1		CONT.550	8,625		1	
							CONT.555	33,125			33
FL/GL - Line Pipe Total Tangible Co	!		!	1 10 100			CONTINUE	33,123		10,000	1,94

Authorization For Expenditure - SO HILLS 32-29 STATE FED COM 4H

		BCP - Drilling			ACP - D	rilling		Comp/Stim	
escription	Codes		Amount .	Codes		Amoun			Amour
oads & Location	DIDC.100		125,000				STIM.100	CON.100	10,00
	DIDC.105		30,000						]
amages						1	STIM.255		53,00
lud/Fluids Disposal	DIDC.255		125,000			50.00			
ay Rate	DIDC.115	DICC.120	350,000	DICC.120		60,000	1,		
lisc Preparation	DIDC.120		20,000						
its	DIDC.125	DICC.125	62,000	<b>DICC.125</b>	STIM.125		511M.125		1
	DIDC.135		42,000				)		i .
uel			1		CTIL4 126		STIM.135		20,00
Vater for Drilling Rig (Not Frac Water)	DIDC.140	UK.C.135	25,000	DICC.133	311ML 133		1		
Aud & Additives	DIDC.145		150,000				ì		1
WD PIPED TO 3RD PARTY SWD WELL							1		
urface Rentals	DIDC.150	DICC.140	92.000	DICC.140	SIIM.140	1 1	STIM.140	CON.140	132,00
							STIM.141		1
lowback Labor							STIM.145		35,00
ownhole Rentals	DIDC.155		81,000						i
utomation Labor	i						į.		
Aud Logging	DIDC.170		21,000						
C & EXTERNAL PAINTING							1		1
	DIDC.185	DECTE	110,000	DICC.155		55,00	o'.		
ementing & Float Equipment				DICC.160	STILL 160	10,00	and the second second second second		4,0
ubular Inspections		DICC.160							
asing Crews	DIDC.195	DICC.165	15,000		STIM.165	15,00	1	CON 170	i
techanical Labor	DIDC.200	DICC.170	28,000	DICC.170	STIM.170	10,00		CON.170	1
	DIDC.205		18,000	DICC.175	STIM.175	8,00	): STIM.175	CON.175	4,0
rucking/Transportation				DICC.180		9,00		CON.180	45,0
upervision	1	DICC.180							23,0
railer House/Camp/Catering	DIDC.280		38,000		STIM.280	5,00		CON 100	58,0
Other Misc Expenses	DIDC.220	DICC.190	5,000	DICC.190	STIM.190		57IM.190	CON.190	50,0
	DIDC.225		10,000	DICC.195		5,00	0;		1
Overhead	5		110,000	1			1		
MOB/DEMO8	DIDC.240			1		i			1
Directional Drilling Services	DIDC.245		297,000	•		1	1		i
Solids Control	DIDC.260		44,000						
Well Control Equip (Snubbing Services)	DIDC 265	DICC.240	74,000	DICC240	STIM.240	5,00	0: STIM.240		59,0
			1	(			STIM.115		21,0
Completion Rig	i						STIM.260		164,0
Cail Tubing Services	1		•	i			STIM.200		235,0
Completion Logging/Perforating/Wireline	ì		1	1			1		41,0
Composite Plugs							ST1M,390		
Stimulation	:		į	i		(	STIM.210		2,014,0
			*	1		1	STIM.395		278,0
Stimulation Water/Water Transfer/Water			:	ì		;	STIM.305		60,0
Cimarex Owned Frac/Rental Equipment	į		1	•		1	31IM.303		00,0
Legal/Regulatory/Curative	DIDC.300		10,000			1	1		1
Well Control Insurance	DIDC.285		7,000	1			:		i
	, 0,00,000						ì		. 1
FL/GL - ON PAD LABOR							ì		
FL/GL - Labor	•					1	1		
FL/GL - Supervision				1		1			
Survey			1			1	1		i
	DIDC 435	DICC.220	87 000	DICC 220	STIM.220	9,00	O: STIM.220	CON.220	163,0
Contingency	, 0100.433	DRUCE	67,000						- 1
Contingency	er com		1	1		401.0	<u>.</u>		3,419,0
Total Intangible Co	st		2,096,000	li .		191.00	N:		2,
Conductor Pipe	DWEB.130	3	8,000	la:			•		1
Water String	DWEB.135		15,000				ì		
							j		
Surface Casing	DWEB.140		71,000				1		
Intermediate Casing 1	DWEB.145	j.	270,000						
Production Casing or Liner	i			DWEA.10	0	127,0			
Tubing	1		1	,		. 1	STEMT.10	5	. 52,0
-	DUICE 11	5 DWEA.120	38,000	DWEA 12	0 STIMT.120	18,0	0 STIMT.12	)	38,0
Wellhead, Tree, Chokes	1					55,0			1
Liner Hanger, Isolation Packer	DWEB.100	0 DWEA.125		DWEA.12		33,0	STIMT.40	1	28,0
Packer, Nipples	ì			i		i i	51W1,40	•	20,0
PUMPS						5			
WALKOVERS	3					25			÷
				i.		1	STIMT.41		80,0
Downhole Lift Equipment				i i					
N/C Lease Equipment			1	1			1		
Tanks, Tanks Steps, Stairs	1			1		1	Ì		1
	,		1			1			1
Battani Equipment			į.	ì					1
Battery Equipment			8	i.			1		- 1
Secondary Containments			i	1		i			
Battery Equipment Secondary Containments Overhead Power Distribution			1	1			;		1
Secondary Containments Overhead Power Distribution	į								
Secondary Containments Overhead Power Distribution Facility Electrical	į						,		12.0
Secondary Containments Overhead Power Distribution Facility Electrical Telecommunication Equipment							1		1
Secondary Containments Overhead Power Distribution Facility Electrical Telecommunication Equipment Meters and Metering Equipment									
Secondary Containments Overhead Power Distribution									
Secondary Containments Overhead Power Distribution Facility Electrical Telecommunication Equipment Meters and Metering Equipment									
Secondary Containments Overhead Power Distribution Facility Electrical Telecommunication Equipment Meters and Metering Equipment Facility Line Pipe Lesse Automation Materials							•		
Secondary Containments Overhead Power Distribution Facility Electrical Telecommunication Equipment Meters and Metering Equipment Facility Line Pipe Lesse Automation Materials FL/GL - Materials				***					
Secondary Containments Overhead Power Distribution Facility Electrical Telecommunication Equipment Meters and Metering Equipment Facility Line Pipe Lease Automation Materials			402,000			200,0	M		198



# Authorization For Expenditure - SO HILLS 32-29 STATE FED COM 4H

	Production Equip		Code	Post Completion	Amount,	Total
Description	Codes	Amount				192,500
oads & Location	CON.100	50,500	PCOM.100	Road Repair	7,000	
amages	CON.105	3,000				33,000
lud/Fluids Disposal			PCOM.2SS		0,	178,000
Nay Rate					ŧ	410,000
Aisc Preparation						20,000
Process of the same of the sam			PCOM.125		0	62,000
its		1	PCOM.130		o'	42,000
uel		1	PCOM.135		0,	45,000
/ater for Drilling Rig (Not Frac Water)			PCOM. 133		•	150,000
Aud & Additives		1			044300	
WD PIPED TO 3RD PARTY SWD WELL			PCOM.257	5500 BWPD for 2 months to BBR @ \$0.74/bbl	244,200	244,200
urface Rentals	CON.140	2,875	PCOM.140	\$1,500/d for 40 days	60,000	286,87
lowback Labor			PCOM.141	\$2,000/d for 15 days	30,000	30,000
Downhole Rentals		i i	PCOM.145		0	116,00
	CON.150	59,375	PCOM.150	Sand Separator Hookup	9,500	68,87
	2011.134	33,3.3		i		21,00
tud Logging	*******	24.275				21,37
the second secon	CON.165	21,375			;	165,00
ementing & Float Equipment		1			o'	
ubular Inspections		į į	PCOM.160		0	64,00
asing Crews		1			:	30,00
	CON.170	270,375	PCOM.170		0	308,37
	CON.175	29,875	PCOM.175		0	59,87
	CON.180	29,625	PCOM.180		0,	153,62
***************************************	CONTRACTOR	23,023			- (	66,00
railer House/Camp/Catering	CON 100	37.750	PCOM.190		0	100,75
	CON.190	37,750	PCOM. 190		,	15,00
Werhead				i i		
IOB/DEMOB						110,00
irectional Drilling Services		1			3	297,00
olids Control					1	44,00
Vell Control Equip (Snubbing Services)		i	PCOM.240		0	138,00
ompletion Rig			PCOM.115	!	0	21,00
		i	PCOM.260		o o	164,00
oil Tubing Services			PCOM.200	4	oʻ	235,00
Completion Logging/Perforating/Wireline		1				
Composite Plugs		1	PCOM.390		0	41,00
timulation Pumping/Chemicals/Additives/Sand			PCOM.210	Initial Chem Install	10,000	2,024,00
timulation Water/Water Transfer/Water Storage						278,00
imarex Owned Frac/Rental Equipment		i	PCOM.305	XEC Owned Spherical Plus Iron	72,500	132,50
egal/Regulatory/Curative	CON.300	0				10,00
Vell Control Insurance	2011.300					7,00
	CON.495	10 500			;	19,50
L/GL - ON PAD LABOR		19,500				39,12
L/GL - Labor	CON.500	39,125	200		- 1	23,62
L/GL - Supervision	CON.505	23,625				
urvey	CON.515	2,750				2,75
Contingency	CON.220	159,750	PCOM.220		0	418,75
contingency	CON.221	12,500				12,50
Total Intangible Cost	THE PERSON NAMED IN COLUMN TO THE PE	762,000	1		433,200	6,901,20
onductor Pipe	contract to making a first term					8,00
Vater String					:	15,00
						71,00
urface Casing		1			:	270,00
ntermediate Casing 1		;				
roduction Casing or Liner						127,00
ubing		;	PCOMT.105		0	52,00
Vellhead, Tree, Chokes		1	PCOMT.120	Welded Hairpin	10,000	104,00
iner Hanger, Isolation Packer		į				55,00
acker, Nipples		,	PCOMTA00		0	28,0
	CONT.385	27.625		, -	3	27,6
	CONT.390	15,000	•			15,0
1		13,000	PCOMT.410		0	80,0
ownhole Lift Equipment			PCOMIA10		J.	217.7
/C Lease Equipment	CONT,400	217,750			1	
anks, Tanks Steps, Stairs	CONT.405	103,000	;			103,0
attery Equipment	CONT.410	355,375				355,3
econdary Containments	CONT.415	51,875			1	51,8
	CONT.420	85,625			1	85,6
	CONT.425	78,125	;	a la sp	,	78,1
		4	i		ì	1,2
	CONT.426	1,250	į		1	37,1
	CONT.445	37,125				
	CONT.450	45,500			1	45,5
	CONT.455	78,125				78,13
L/GL - Materials	CONT.550	8,625	:	- N		8,6
L/GL - Line Pipe	CONT.555	33,125	!	a substance of		33,1
Total Tangbie Cos		1,138,125		A CONTRACTOR OF THE CONTRACTOR	10,000	1,948,1
		1,900,125			443,200	8,849,3

# 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. 22297

## 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 Wolfcamp Formation with contour interval of 20 feet. The unit being pooled is outlined by a green rectangle. The structure map shows

EXHIBIT



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 top Wolfcamp. 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 Upper Wolfcamp Z 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 Upper Wolfcamp 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.
  - 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.
    - c. 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]

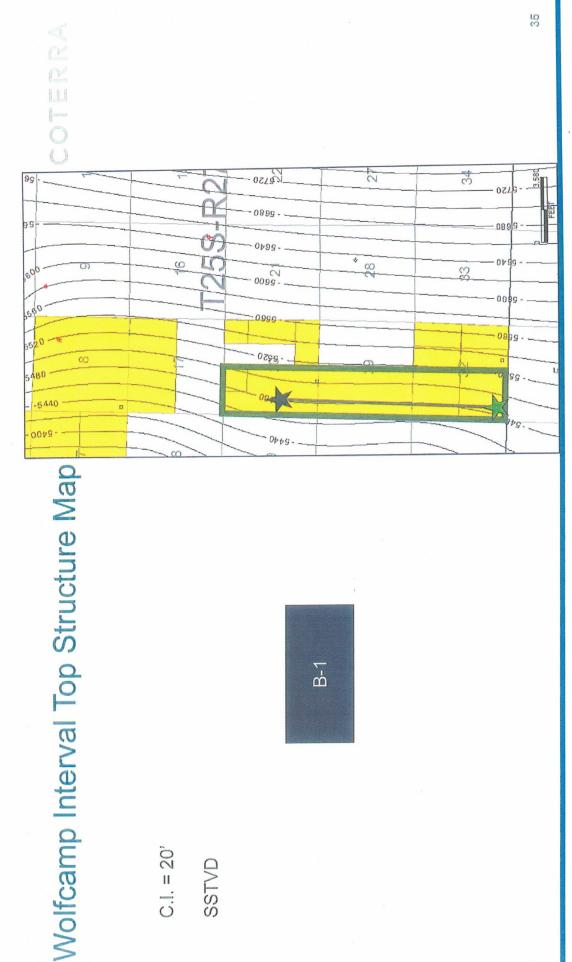
I understand that this Self-Affirmed Statement will be used as written testimony in these cases. I affirm that my testimony in paragraphs 1 through 12 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten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

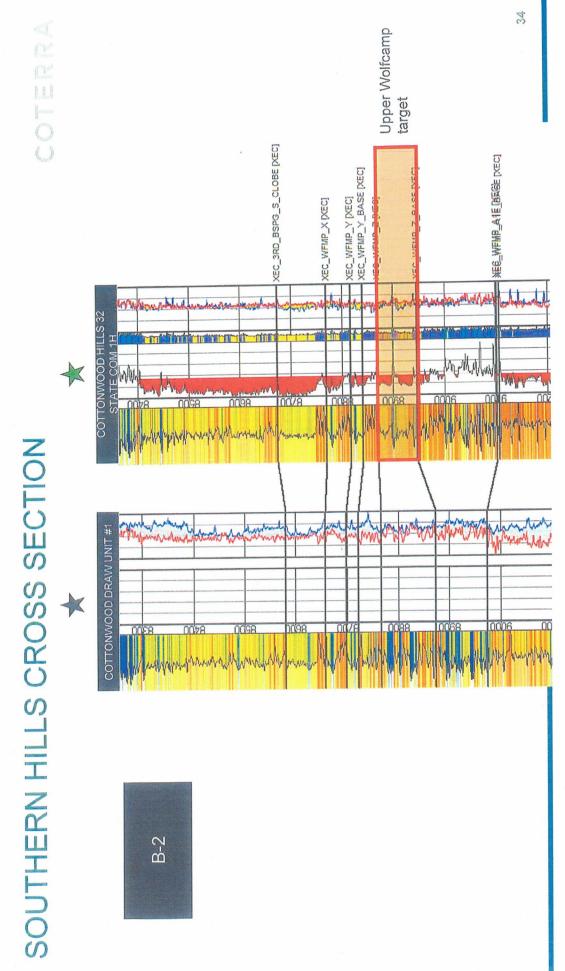
Date: 2/10/2022

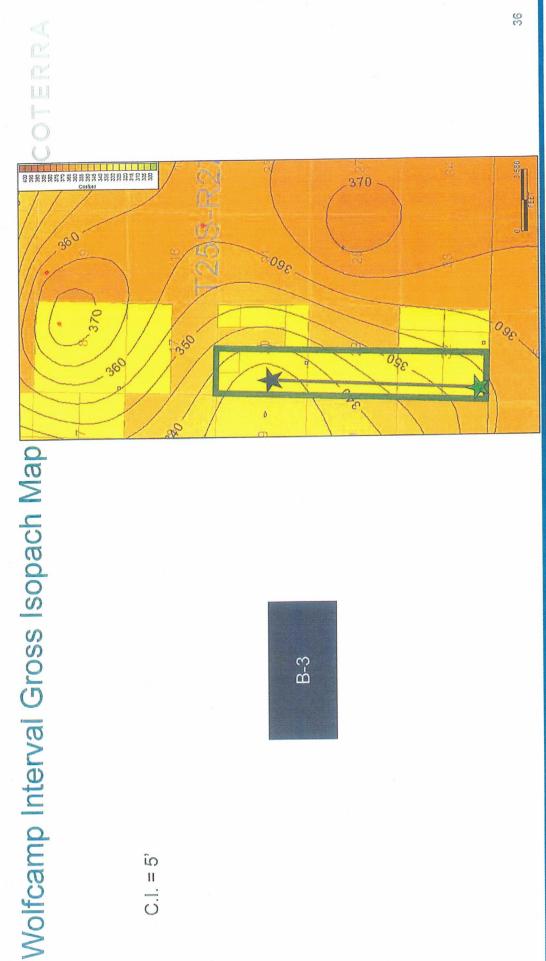
Lucas Haas

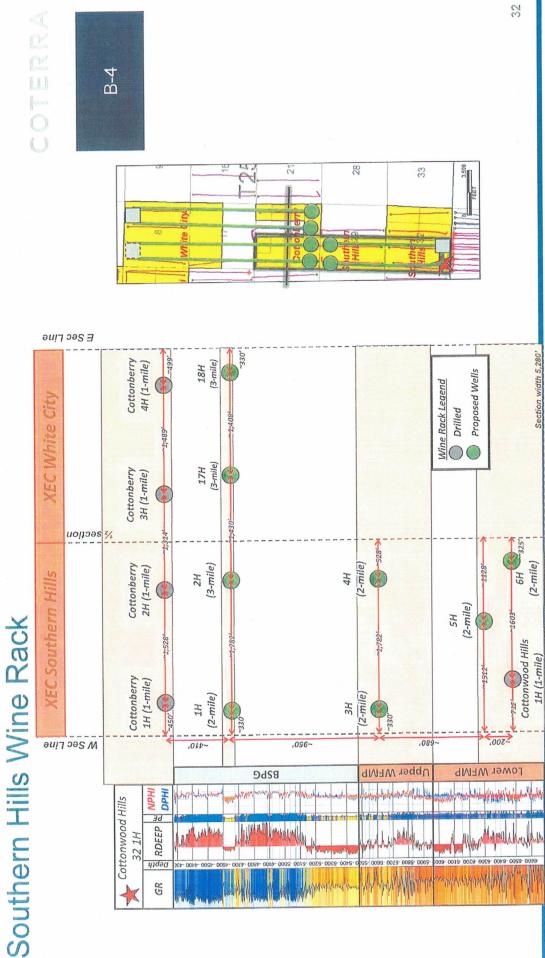
Southern Hills Wolfcamp

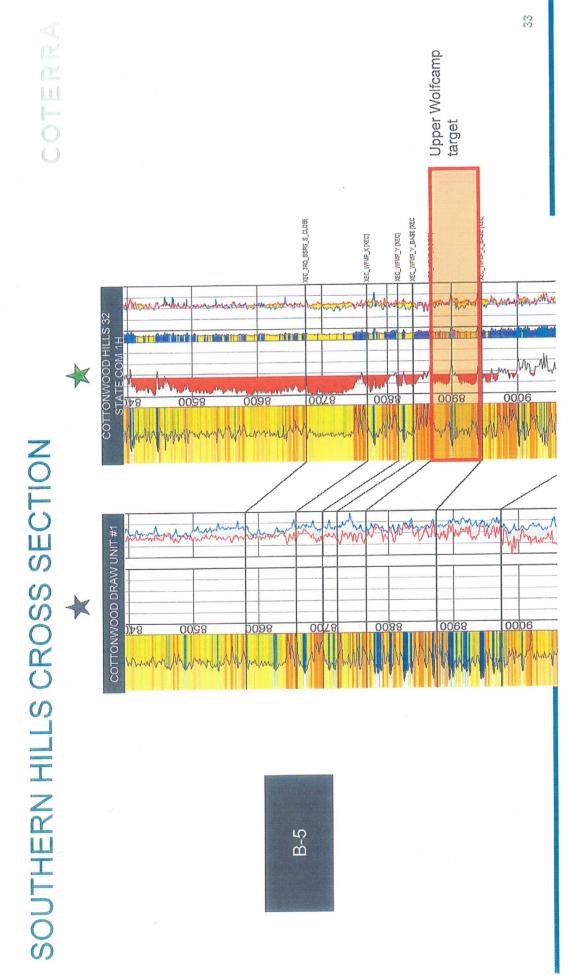
COTERRA











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

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

Case	No.	22297	

#### **APPLICATION**

Cimarex Energy Co. ("Cimarex"), OGRID No. 215099, through its undersigned attorneys, hereby files this Application with the Oil Conservation Division ("Division") pursuant to the provisions of NMSA 1978, Section 70-2-17, for an order (1) creating a standard 640-acre, more or less, spacing and proration unit comprised of the W/2 of Sections 29 and 32, Township 25 South, Range 27 East, NMPM, Eddy County, New Mexico, and (2) pooling all uncommitted mineral interests in the Wolfcamp formation, designated as a gas pool, underlying said unit.

In support of its Application, Cimarex states the following:

- 1. Cimarex is a working interest owner in the proposed horizontal spacing and proration unit ("HSU") and has a right to drill a well thereon.
- 2. Cimarex proposes and dedicates to the HSU the Southern Hills 32-29 State Fed Com 3H Well and Southern Hills 32-29 State Fed Com 4H Well as initial wells, to be drilled to a sufficient depth to test the Wolfcamp formation.
- 3. Cimarex proposes the **Southern Hills 32-29 State Fed Com 3H Well** to be horizontally drilled from a surface location in the 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.

EXHIBIT C

- 4. Cimarex proposes the **Southern Hills 32-29 State Fed Com 4H Well** to be horizontally drilled from a surface location in the 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.
- 5. The wells will be unorthodox in location, and the 100' setback of the take points do not comply with the special field rules for the Purple Sage, Wolfcamp, pursuant to Order No. R-14262; Cimarex will be applying administratively to the NMOCD for approval of the non-standard locations
- 6. Cimarex has a horizontal well, the Cottonwood Hills 32 State Com (API No. 30-015-39967), in the W/2 of Section 32, in the Wolfcamp formation. The proposed HSU will overlap this 320-acre unit in the W/2, and Cimarex respectfully requests approval, to the extent necessary, for the overlapping units.
- 7. Cimarex has sought in good faith, but has been unable to obtain, voluntary agreement from all interest owners to participate in the drilling of the wells or in the commitment of their interests to the wells for their development within the proposed HSU.
- 8. The pooling of all interests in the Wolfcamp formation within the proposed HSU, and creation of the spacing unit, will avoid the drilling of unnecessary wells, prevent waste and protect correlative rights.
- 9. In order to provide for its just and fair share of the oil and gas underlying the subject lands, Cimarex requests that all uncommitted interests in this HSU be pooled and that Cimarex be designated the operator of the proposed horizontal wells and HSU.

WHEREFORE, Cimarex requests that this Application be set for hearing on November 4, 2021, before an Examiner of the Oil Conservation Division, and after notice and hearing as required by law, the Division enter an order:

- A. Approving the creation of a standard 640-acre, more or less, spacing and proration unit comprised of the W/2 of Sections 29 and 32, Township 25 South, Range 27 East, NMPM, Eddy County, New Mexico;
- B. Pooling all uncommitted mineral interests in the Wolfcamp formation underlying the proposed HSU.
- C. Approving the Southern Hills 32-29 State Fed Com 3H Well and Southern Hills
   32-29 State Fed Com 4H Well as the wells for the HSU.
- D. Designating Cimarex as operator of this HSU and the horizontal wells to be drilled thereon;
- E. Authorizing Cimarex to recover its costs of drilling, equipping, and completing the wells;
- F. Approving actual operating charges and costs of supervision, to the maximum extent allowable, while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- G. Setting a 200% charge for the risk assumed by Cimarex in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

ABADIE & SCHILL, PC

/s/ Darin C. Savage

Darin C. Savage

William E. Zimsky Andrew D. Schill 214 McKenzie Street Santa Fe, New Mexico 87501 Telephone: 970.385.4401 Facsimile: 970.385.4901 darin@abadieschill.com bill@abadieschill.com andrew@abadieschill.com

Attorneys for Cimarex Energy Co.

Application of Cimarex Energy Co. for a Horizontal Spacing and Proration Unit and Compulsory Pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order from the Division: (1) creating a standard 640-acre, more or less, horizontal spacing and proration unit comprised of the W/2 of Sections 29 and 32, Township 25 South, Range 27 East, NMPM, Eddy County, New Mexico, and (2) pooling all mineral interests in the Wolfcamp formation, designated as a gas pool, underlying the unit. The proposed wells to be dedicated to the horizontal spacing unit are the Southern Hills 32-29 State Fed Com 3H Well to be horizontally drilled from a surface location in the 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; and the Southern Hills 32-29 State Fed Com 4H Well to be horizontally drilled from a surface location in the 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. The wells will be unorthodox in location, and the 100' setback of the take points do not comply with the special field rules for the Purple Sage, Wolfcamp, pursuant to Order No. R-14262; Cimarex will be applying administratively to the NMOCD for approval of the non-standard locations; also to be considered is the approval, to the extent necessary, of an overlapping spacing unit involving the Cottonwood Hills 32 State Com (API No. 30-015-39967) in the W/2 of Section 32; the cost of drilling and completing the wells and the allocation of the costs thereof; actual operating costs and charges for supervision; the designation of the Applicant as Operator of the wells and unit; and a 200% charge for the risk involved in drilling and completing the wells. The wells and lands are located approximately 3 miles south of Carlsbad, New Mexico, and 1 mile north of the state line.