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

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

CASE NOS. 23448-23455

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

CASE NOS. 23594-23601

APPLICATIONS OF READ & STEVENS, INC. FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

CASE NOS. 23508-23523

NOTICE OF EXHIBIT I, J & K

Read & Stevens, Inc. and Permian Resources Operating, LLC, applicant in the abovereferenced cases, gives notice that it is filing the attached rebuttal exhibits for acceptance into the record.

Exhibit I, J and K are rebuttal exhibits.

Respectfully submitted,

HOLLAND & HART LLP

Michael H. Feldewert
Adam G. Rankin
Julia Broggi
Paula M. Vance
Post Office Box 2208
Santa Fe, New Mexico 87504-2208
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pmvance@hollandhart.com

ATTORNEYS FOR READ & STEVENS, INC. & PERMIAN RESOURCES OPERATING, LLC

CERTIFICATE OF SERVICE

I hereby certify that on August 8, 2023, I served a copy of the foregoing document to the following counsel of record via Electronic Mail:

Darin C. Savage
Andrew D. Schill
William E. Zimsky
214 McKenzie Street
Santa Fe, New Mexico 87501
darin@abadieschill.com
andrew@abadieschill.com
bill@abadieschill.com

Attorneys for Cimarex Energy Co.

Blake C. Jones 1780 Hughes Landing Blvd., Suite 750 The Woodlands, TX 77380 blake.jones@steptoe-johnson.com

Attorney for Northern Oil and Gas, Inc.

Sealy Cavin, Jr.
Scott S. Morgan
Brandon D. Hajny
P. O. Box 1216
Albuquerque, NM 87103
(505) 243-5400
scavin@cilawnm.com
smorgan@cilawnm.com
bhajny@cilawnm.com

Attorneys for Sandstone Properties, LLC

Adam G. Rankin

Brief Historical Timeline

EXHIBIT REBUTTAL EX

October 1, 1947

NMLC 0064194 Lease Issued



September 1, 1948

NMLC 0065607 Lease Issued



February 1953

NMLC 0064194 Lease HBP'd by Hudson Oil Company



August 1959

NM LC 006507 Lease HBP'd by Hudson Oil Company



February 1, 1994

Farmout agreement from Hudson to Read & Stevens (Section 4 only)



June 1, 2009

NMNM 101115 Lease HBP'd by Read & Stevens, Inc.



August 31, 2008

NMNM 101115 Lease extended



September 1, 1998

NMNM 101115 Lease Issued



April 1, 1995

Read & Stevens acquires initial assignment in lands



January 1995-August 1996

Read & Stevens drills and completes an additional 15 wells within Section 4

pertains

ಠ

cases



November 1, 2004

Magnum Hunter (Cimarex/Coterra) acquires initial assignment in lands



December 2016

4 Read & Stevens APDs approved across Section 5 (Prior to Drill Island/Potash process instituted 2017)



April 2017

4 Read & Stevens APDs approved across Section 9



2018-Present

Read & Stevens operatorship contested by Cimarex (No new wells drilled)



August 2022

Cimarex proposes the Loosey Goosey & Mighty Pheasant Development



Periods of time Cimarex claims to have been attempting to develop. No pooling or Potash preliminary work done?

March 14, 2023

Read & Stevens formally proposes Joker wells



March 9, 2023

Cimarex files for compulsory pooling based on August 2022 proposals



February 17, 2023

Read & Stevens sends out Joker Development Area proposal & Bane well proposals



February 16, 2023

Permian Resources closes acquisition of Read & Stevens (entity survives)

Cimarex Brief Rebuttal

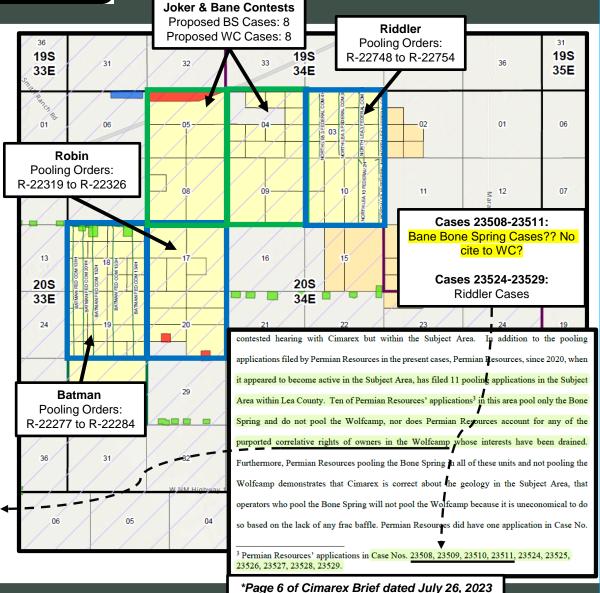
Read & Stevens Rebuttal Ex I



• WHEREAS, Cimarex cites ten (10) Permian Bone Spring Cases and one (1) Wolfcamp case since 2020 (Factually Incorrect?)

EXHIBIT

- Batman: (Orders R-22277 to R-22284)
 - 4 Bone Spring Cases
 - 4 Wolfcamp Cases
- Robin: (Orders R-22319 to R-22326)
 - 4 Bone Spring Cases
 - 4 Wolfcamp Cases
- Riddler (Orders R-22748 to R-22754)
 - 4 Bone Spring Cases being overlapping spacing units pooling 1st & 2nd Bone Spring
 - 2 Bone Spring Cases pooling 3rd Bone Spring
 - 1 Wolfcamp Case to be co-developed with the above 3rd Bone pooled wells
- **Depth Severance Notes on existing Permian** Bone Spring/Wolfcamp Orders: (Moot Point Regardless)
 - Batman: One depth severance in NE of Section 19 whereas only owner impacted is Permian, owning 16 more acres in the WC
 - Robin: No depth severances
 - Riddler: No depth severances



pertains

EXHIBIT |

Joker = 1280.20 Gross Acres, Bane = 1282.20 Gross Acres

1280.20 + 1282.20 = 2562.40 Gross Total as shown below

Leasehold vs. Contractual Basis - Does it Change Correlative Rights Issues? (No)									
	Jo	ker & Bane - <u>Le</u>	asehold Inter	est	J	oker & Bane - <u>(</u>	Contractual Int	erest	
Owner	Bone Spring	Wolfcamp	Delta	ormation Favor	Bone Spring	Wolfcamp	Delta	Formation Favor?	Status
MRC Permian*	14.40	43.23	-28.82	Wolfcamp	14.40	43.23	-28.82	Wolfcamp	Neutral
HOG Partnership LP*	142.30	166.30	-24.00	Wolfcamp	136.76	158.91	-22.15	Wolfcamp	Neutral
Northern Oil & Gas*	9.94	29.84	-19.89	Wolfcamp	9.94	29.84	-19.89	Wolfcamp	PR Plan Support
Javelina Partners*	200.95	182.95	18.00	Bone Spring	191.12	174.51	16.62	Bone Spring	Cimarex Support
Zorro Partners, Ltd.*	133.40	133.40	0.00	N/A	129.64	129.64	0.00	N/A	Cimarex Support
Delmar Hudson Trust*	85.91	85.91	0.00	N/A	84.97	84.97	0.00	N/A	Term Assignmed to Cimarex
First Century	133.55	180.34	-46.79	Wolfcamp	123.98	170.78	-46.79	Wolfcamp	PR Owned
Read & Stevens	607.51	672.79	-65.28	Wolfcamp	590.22	655.50	-65.28	Wolfcamp	PR Owned
CBR Oil Prop*	5.34	16.01	-10.67	Wolfcamp	5.34	16.01	-10.67	Wolfcamp	PR Support
Ard Oil*	69.58	69.58	0.00	N/A	66.76	66.76	0.00	N/A	PR Support
Josephine Hudson Trust*	25.74	25.74	0.00	N/A	24.80	24.80	0.00	N/A	Neutral
Magnum Hunter*	513.07	287.00	226.07	Bone Spring	541.45	315.38	226.07	Bone Spring	Cimarex Owned
CLM Production Co*	0.00	1.60	-1.60	Wolfcamp	0.00	1.60	-1.60	Wolfcamp	PR Support
Highland (Texas) Energy*	4.80	1.60	3.20	Bone Spring	4.80	1.60	3.20	Bone Spring	Neutral
Diamond Star Prod.*	1.60	1.60	0.00	N/A	1.60	1.60	0.00	N/A	PR Support
Carolyn Beall*	1.60	1.60	0.00	N/A	1.60	1.60	0.00	N/A	PR Support
Tierra Encantada*	1.60	1.60	0.00	N/A	1.60	1.60	0.00	N/A	PR Support
David Luna*	1.60	1.60	0.00	N/A	1.60	1.60	0.00	N/A	Neutral
Warren Associates*	0.00	1.60	-1.60	Wolfcamp	0.00	1.60	-1.60	Wolfcamp	PR Support
Cimarex Energy*	147.23	181.23	-34.00	Wolfcamp	148.73	182.73	-34.00	Wolfcamp	Cimarex Owned
Moore & Shelton*	61.32	61.32	0.00	N/A	58.00	58.00	0.00	N/A	Cimarex Support
Lindys Living Trust*	139.15	139.15	0.00	N/A	133.52	133.52	0.00	N/A	Term Assignmed to Jav/Zorro
Challenger Crude*	51.36	51.36	0.00	N/A	51.36	51.36	0.00	N/A	Neutral
Avalon Energy Corp	10.00	0.00	10.00	Bone Spring	10.00	0.00	10.00	Bone Spring	PR Owned
Marks Oil*	10.46	20.06	-9.60	Wolfcamp	10.46	20.06	-9.60	Wolfcamp	Neutral
Prime Rock*	30.00	0.00	30.00	Bone Spring	30.00	0.00	30.00	Bone Spring	Neutral
Wilbanks Reserve*	55.56	106.56	-51.00	Wolfcamp	55.56	106.56	-51.00	Wolfcamp	Neutral
Buccholz (Union Hill)*	16.00	16.00	0.00	N/A	41.35	41.35	0.00	N/A	Neutral
Chase Oil Co*	33.43	33.43	0.00	N/A	33.43	33.43	0.00	N/A	PR Support
Foran Oil Co	49.00	49.00	0.00	N/A	53.85	53.85	0.00	N/A	Neutral
William A. Hudson II	6.00	0.00	6.00	Bone Spring	5.54	0.00	5.54	Bone Spring	Assigned to Zorro
Totals:	2562.40	2562.40		0.00	2562.40	2562.40			

>>>

	Total Bone Spring Net Acres	Bone Spring WI% (Full 4 Sections)	Total Wolfcamp Net Acres	Wolfcamp WI% (Full 4 Sections)
Total PR Owned:	751.06	29.31%	853.13	33.29%
PR Supporters:	124.69	4.87%	158.45	6.18%
Total PR Support:	875.74	34.18%	1011.59	39.48%
Total Cimarex Owned:	746.21	29.12%	554.14	21.63%
Cimarex Supporters:	540.83	21.11%	516.83	20.17%
Total Cimarex Support:	1287.03	50.23%	1070.97	41.80%

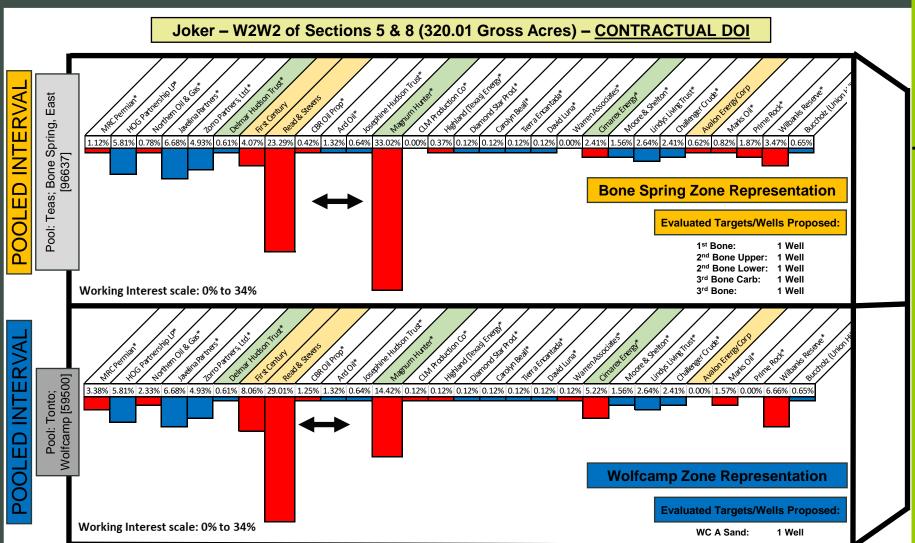
Joker & Bane – Debunking Cimarex "Support"?



Challenger Crude, Ltd. — — — —	2.1886%	2.1884%	2.1883%	2.1881% CTRA Support
Union Hill Oil & Gas Co. Inc.	2.2680%	2.2678%	2.2676%	2.2674% CTRA Support
Highland (Texas) Energy Company	1.2049%	0.0000%	0.0000%	0.0000% CTRA Support
*Snips from Cimarex "Hearing Packet I" file	d 8.3.2023 pertaining Supporting Parties	~	ear Mr. Macha:	
We have not indicated support for Cimarex. Not	las.net> played, click here to view it in a web browser. dated and may not match the person in the "From" fiel sure where that's coming from.	ald to Pee pu int res op op ma	ong with Challenger's well requirement participate in the proposed drilling armian Resources Operating LLC and resulting operatorship in the same form erested in picking winners or losers pective wells proposed regardless of veratorship has been finally determined erating agreement to supersede and rely be in effect.	r the Joker 5-8 Federal Com lease consisting of 24 wells nts. Challenger Crude Ltd. ("Challenger") hereby elects and completion of said wells. Challenger recognizes that d Coterra Energy Inc (Cimarex Energy Co.) are each nation within the same tract of land. Challenger is not in this matter. Challenger intends to participate in the which company succeeds in being named operator. Once d, Challenger will consider execution of an appropriate eplace any existing or legacy operating agreements that
On Thu, Aug 3, 2023 at 8:45 AM Travis Macha < 1	ravis.Macha@permianres.com> wrote:	*Ide	ntical Letter for the Bane wells i	in hand, not shown here to conserve slide space
Hey Robert,				
<u>'</u>		Marks Oil, Inc	<u></u> [0.9508 0.00594271 Committed
₩ Where is any indication of "Support"?		and privileges a Regardless of th proposal on the	ssociated with both the Lands and is dispute, Marks will exercise it Lands, drilling or otherwise, with	Permian and Cimarex as to operational rights and applicable Joint Operating Agreements. ts rights of participation in any operational that a party authorized to conduct such operations ther appropriate governing body.
STATE OF NEW MEXICO §		*Above 2 Snips fr	om Cimarex Exhibits ("Hearing	Packet I, Pg. 70), and Marks written election
COUNTY OF LEA §	19976	response	o oa. =xa.o (oag	. London, . g o,, and manne miner of control
CONVEYANCE, ASSIGNMENT effective from and after 7 o'clock a.m., May 1, 2 Magnum Hunter Production, Inc., a Texas corp Wm. Foran, an individual residing in Dallas, Tex	ENT AND BILL OF SALE AND BILL OF SALE (this "Conveyance"), 004 (the "Effective Date"), is by and between oration (herein called "Grantor"), and Joseph as (herein called "Grantee");	Cimarex/Magnum Hu having <u>assigned</u> i W2W E2W W2E	t to Foran itself. This accounts f /2: 4.3721% 2: 4.3690% 2: 4.3660%	Company's <mark>49 Acres i</mark> n <u>Bane (4/9)</u> despite for the below metric: (ABOS 1434/924)
WITNES	SETH:	E2E	2: <mark>2.1814%</mark>	

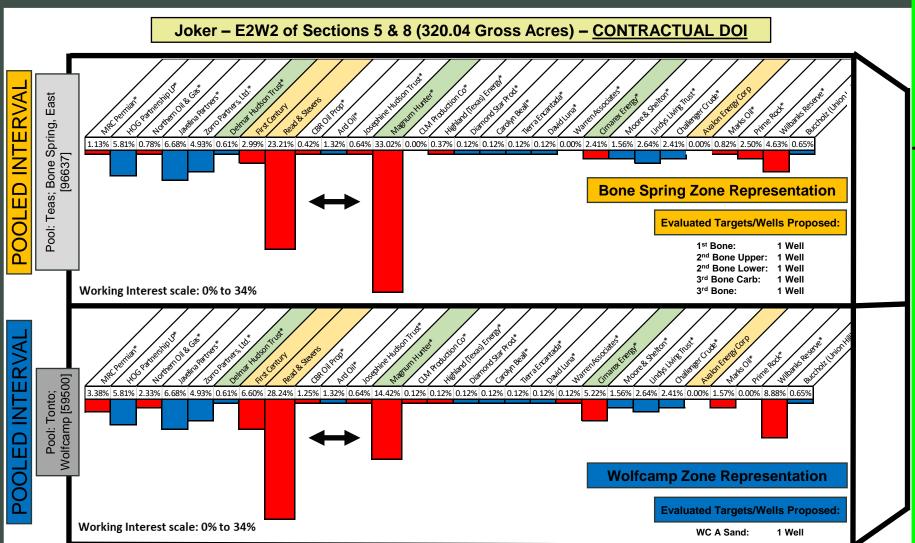
Joker – W2W2 Equivalent – Cases 23516 & 23520 Bone Spring & Wolfcamp Formations (Sections 5 & 8)





Joker – E2W2 Equivalent – Cases 23517 & 23521 Bone Spring & Wolfcamp Formations (Sections 5 & 8)

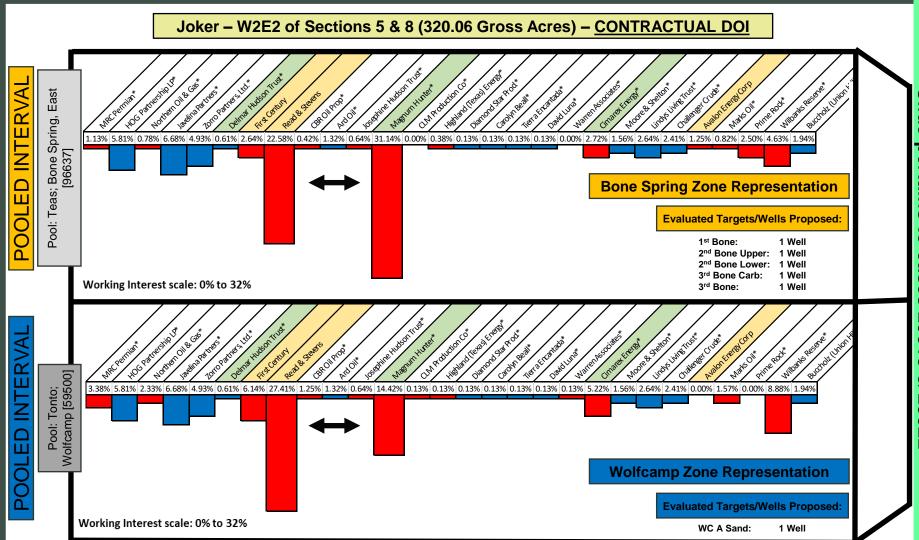




Slide pertains Ö cases 23518 23522

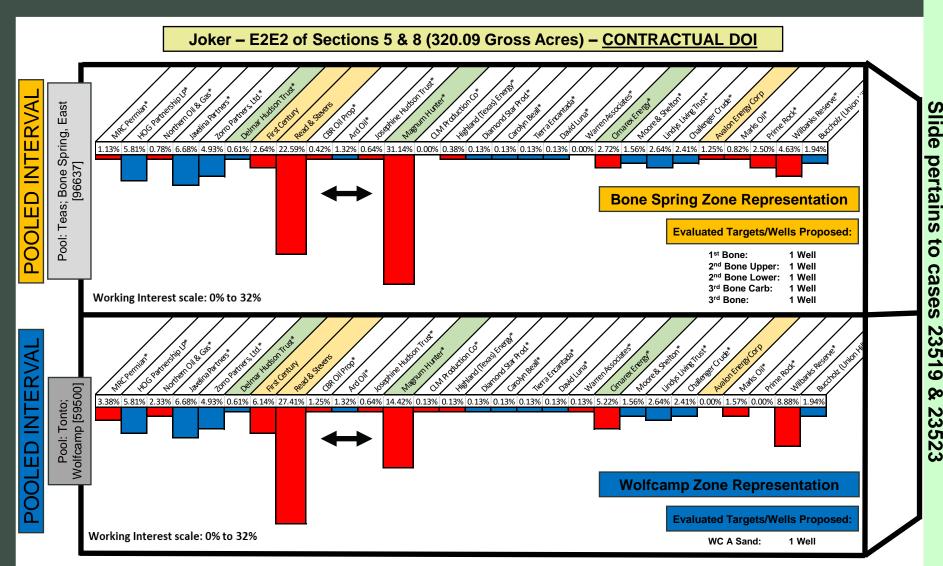
Joker – W2E2 Equivalent – Cases 23518 & 23522 Bone Spring & Wolfcamp Formations (Sections 5 & 8)





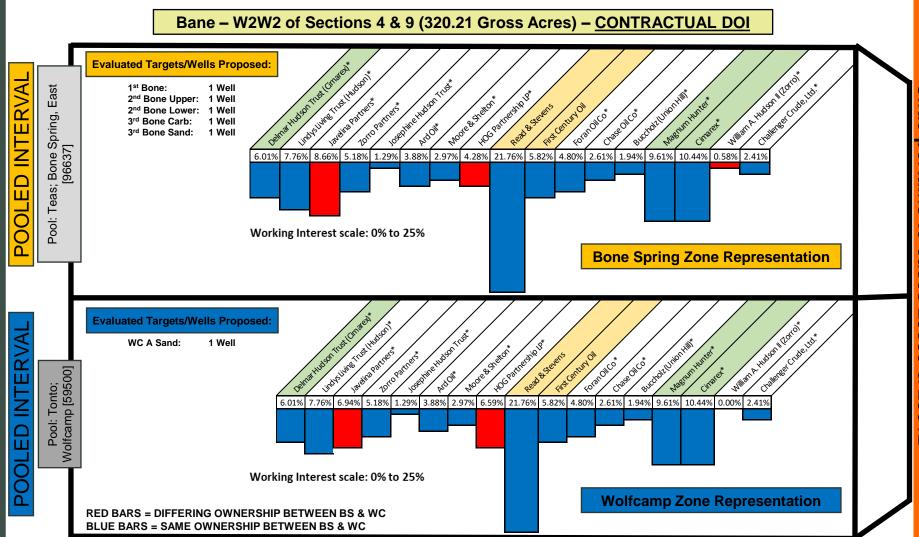
Joker – E2E2 Equivalent – Cases 23519 & 23523 Bone Spring & Wolfcamp Formations (Sections 5 & 8)





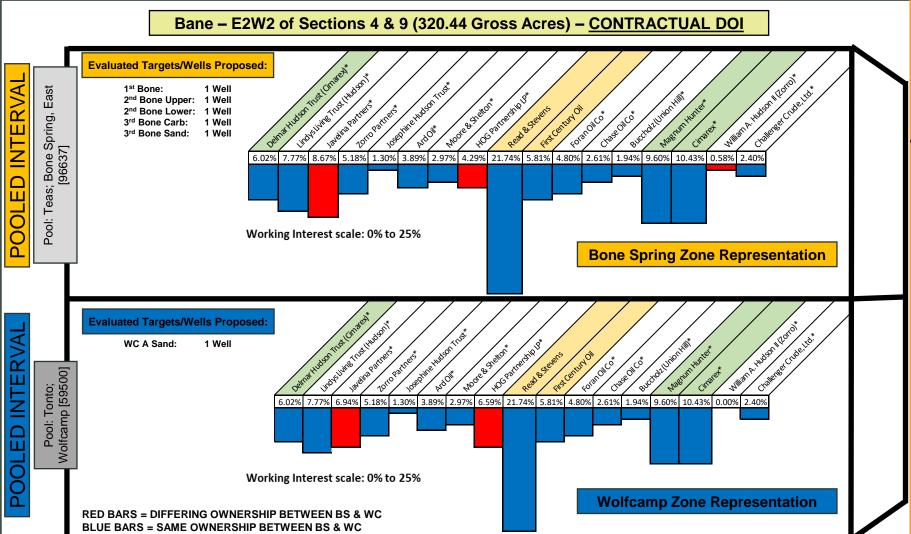
Bane – W2W2 Equivalent – Cases 23508 & 23512 Bone Spring & Wolfcamp Formations (Sections 4 & 9)





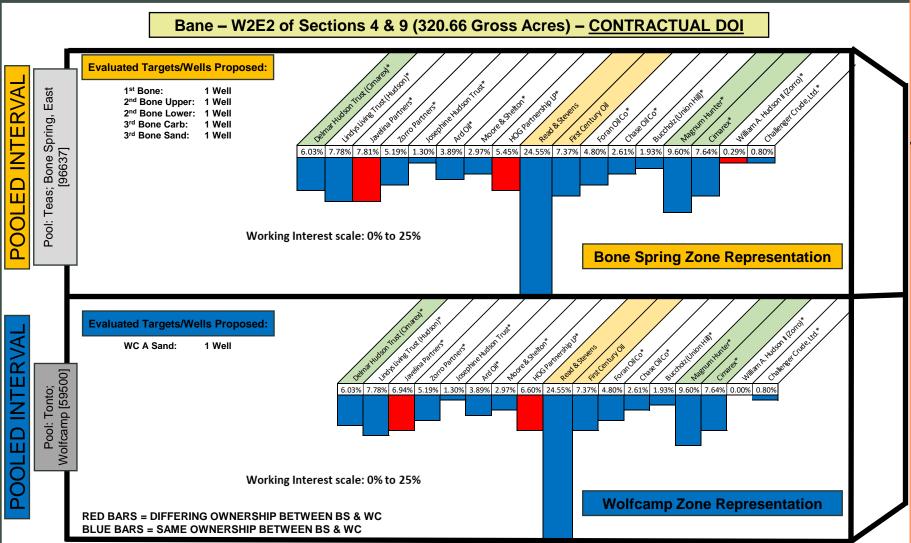
Bane – E2W2 Equivalent – Cases 23509 & 23513 Bone Spring & Wolfcamp Formations (Sections 4 & 9)





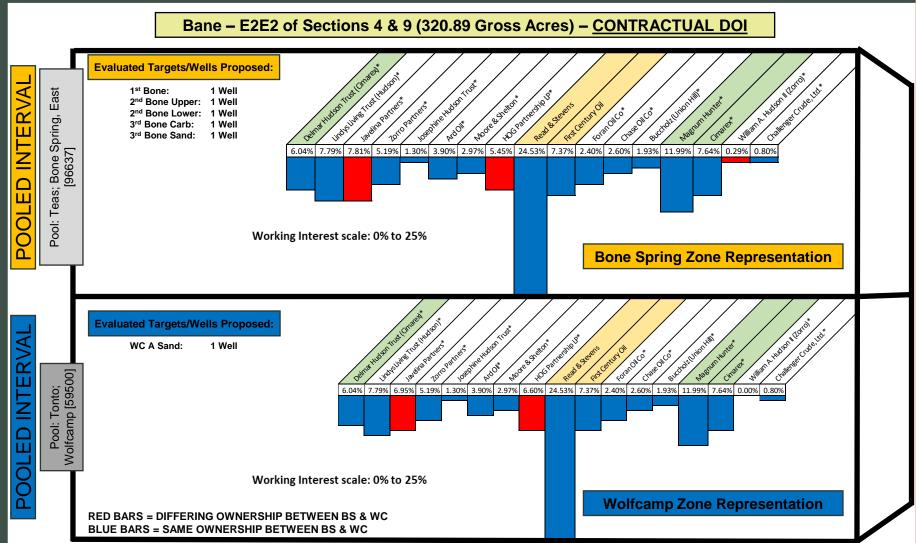
Bane – W2E2 Equivalent – Cases 23510 & 23514 Bone Spring & Wolfcamp Formations (Sections 4 & 9)





Bane – E2E2 Equivalent – Cases 23511 & 23515 Bone Spring & Wolfcamp Formations (Sections 4 & 9)





CHASE OIL CORPORATION



Post Office Box 1767 Artesia, New Mexico 88211-1767 Office (575) 746-9853 FAX (575) 748-7374

August 1, 2023

Read & Stevens, Inc. c/o Permian Resources LLC 300 N. Marienfeld Street, Suite 1000 Midland, Texas 79701

> RE: Bane Development Township 20 South, Range 34 East Sections 4 & 9

> > anders

To Whom It May Concern:

The purpose of this letter is for Chase Oil Corporation, an impacted working interest owner in the above-referenced development, to adopt and ratify the statements and conclusions in the letter dated July 13, 2023 between Permian Resources LLC & Northern Oil & Gas, Inc. concerning the same.

Sincerely,

Chase Oil Corporation

Staci D. Sanders Vice President - Land



From: Robert Buchholz <robert@bigdallas.net>
Sent: Thursday, August 3, 2023 7:49 AM

To: Travis Macha

Subject: Re: -EXTERNAL- T20S-R34E Union Hill Oil and Gas

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

We have not indicated support for Cimarex. Not sure where that's coming from.

On Thu, Aug 3, 2023 at 8:45 AM Travis Macha < Travis.Macha@permianres.com> wrote:

Hey Robert,

Looping back around to this, as you know the PR/Cimarex hearing is set for 8/9. They turned in some more stuff yesterday citing Union Hill as an active supporter of Cimarex's development. As of now our understanding Union Hill is a neutral party here. No hard feelings if you indeed are supporting Cimarex here but wanted to reach out your way and make that clarification.

Obviously we greatly value support here so if there's anything you need from me in the meantime feel free to let me know.

Thanks,



Travis Macha | NM Land Lead

O 432.400.1037 | travis.macha@permianres.com

300 N. Marienfeld Street, Suite 1000 | Midland, TX 79701

permianres.com

Permian Resources is a result of the merger of Centennial Resource Development and Colgate Energy effective September 1, 2022.





March 24, 2023

VIA U.S. REGULAR MAIL AND EMAIL TO: travis.macha@permianres.com

Mr. Travis Macha Senior Landman Permian Resources Operating, LLC 300 N. Marienfeld Street, Suite 1000 Midland, TX 79701

RE: Bane 4-9 Federal Com – Well Proposals Sections 4 & 9, Township 20 South, Range 34 East Lea County, New Mexico

Dear Mr. Macha:

On February 22, 2023, Marks Oil, Inc. ("Marks") received a letter dated February 17, 2023, from Permian Resources Operating, LLC, as operator for Reed & Stevens, Inc. ("Permian") setting forth the proposal (the "Permian Proposal") to drill the following twenty-four (24) wells: Bane 4-9 Federal Com 111H, 112H, 113H, 114H, 121H, 122H, 123H, 124H, 125H, 126H, 127H, 128H, 171H, 172H, 173H, 174H, 131H, 132H, 133H, 134H, 201H, 202H, 203H, and 204H (collectively the "Wells") located in Sections 4 & 9, Township 20 South, Range 34 East, Lea County, New Mexico (collectively the "Lands").

Marks has also received proposals from Reed & Stevens, Inc. dated September 15, 2022, Cimarex Energy Co. ("Cimarex") dated August 25, 2022, and MRC Permian Company dated August 30, 2022, all of which propose drilling multiple horizontal wells located on the Lands and targeting the same formations in the Permian Proposal.

Marks understands that a dispute exists between Permian and Cimarex as to operational rights and privileges associated with both the Lands and applicable Joint Operating Agreements. Regardless of this dispute, Marks will exercise its rights of participation in any operational proposal on the Lands, drilling or otherwise, with a party authorized to conduct such operations by the New Mexico Conservation Division or other appropriate governing body.

Mr. Travis Macha Permian Resources Operating, LLC March 24, 2023 Page 2

If you have any questions, please contact me at (303) 861-1974 or by email to Steve.Marks@MarksOil.net.

Sincerely,

MARKS OIL, INC.

Much

Stephen K. Marks

President

Permian Resources-Bane Proposals_MOI ltr 032423_SKM

CHALLENGER CRUDE, LTD



3525 Andrews Highway Midland, TX 79703 (432) 694-3000

March 20, 2023

Permian Resources Operating LLC Attn: Travis Macha 300 N. Marienfeld Street, Ste 1000 Midland, TX 79701

RE: Well Proposal – Bane 4-9 Fed Com Lease (24 Wells) Section 4 & 9, T20S, R34E Lea County, NM

Dear Mr. Macha:

Enclosed please find executed AFEs for the Bane 4-9 Federal Com lease consisting of 24 wells along with Challenger's well requirements. Challenger Crude Ltd. ("Challenger") hereby elects to participate in the proposed drilling and completion of said wells. Challenger recognizes that Permian Resources Operating LLC and Coterra Energy Inc (Cimarex Energy Co.) are each pursuing operatorship in the same formation within the same tract of land. Challenger is not interested in picking winners or losers in this matter. Challenger intends to participate in the respective wells proposed regardless of which company succeeds in being named operator. Once operatorship has been finally determined, Challenger will consider execution of an appropriate operating agreement to supersede and replace any existing or legacy operating agreements that may be in effect.

Please keep us informed as to the progress of this project. Feel free to contact me should you have further questions or comments.

Thank you.

Kymberly Holman, CPLTA, CPL

Landman

CHALLENGER CRUDE LTD. WELL REQUIREMENT SHEET

I. Prior to commencement of drilling:

A. One copy of all required governmental notices and regulatory forms

B. One copy of the Operator's well prognosis and drilling and completion program

Directed to: Challenger Crude Ltd.

3525 Andrews Highway Midland, Texas 79703 Attn: OBO File

Reports to: <u>reports@henryresources.com</u>

II. During the drilling, testing, completion and workover operations:

A. Daily Reports:

Daily reports by email to (<u>reports@henryresources.com</u>) of all operations from spud through completion.

Reports will include present total depth, status, sample descriptions (if applicable), DST or testing details, rate of penetration, pertinent mud properties and other engineering data.

B. Logs and formation Tests:

Operator shall notify as early as possible when coring, testing, logging, and other such operations are anticipated so that Non-Operator may have a representative present. Log information should be e mailed to Patrick Cohorn (PCohorn@HenryResources.com) as soon as possible following the job, but no later than 48 hours after completion of the logging job.

C. Mudlogs:

If Mudlogs are run, Daily Mudlog and morning reports should be emailed to Patrick Cohorn (<u>PCohorn@HenryResources.com</u>) no later than 9:00 AM.

D. Well Logs:

Cased Hole Compensated Neutron-GR (Base of surface casing to TD)

Minimum Requirement:

Electric Logs- if run

CNL-FDC w/GR and caliper - if run

BHC Sonic w/GR and caliper - if run

Any other logs

Final Log copies required should be delivered to:

Challenger Crude Ltd. 3525 Andrews Highway

Midland, Texas

Attn: Patrick Cohorn

Number of Copies to Office:

- 4 Electric Logs (Final Prints)
- 1 Digital Log LAS file with Final Log Tif images
- 2 Mud Logs (Final)
- 1 Drill Stem Test charts and results if run
- 2 Analyses (Core, Water, Fluid, Etc.) if run
- 1 Abandonment Report
- 1 Completion Report

III. Production Information as reported to the state should be emailed to Laurie Richards (RWilson@HenryResources.com)

PARTIES TO BE NOTIFIED IN ADVANCE OF DRILLSTEM TESTING, CORING, LOGGING OR ABANDONMENT OF WELL:

Forrest Collier Patrick Cohorn

Office: 432-694-3000

Fax: 432-694-2999

Fax: 432-694-2999

FCollier@HenryResources.com PCohorn@HenryResources.com

J:Well Requirements/Challenger Revised 08-22-2017

CHALLENGER CRUDE, LTD

3525 Andrews Highway Midland, TX 79703 (432) 694-3000

April 4, 2023

Permian Resources Operating LLC Attn: Travis Macha 300 N. Marienfeld Street, Ste 1000 Midland, TX 79701

RE: Well Proposal – Joker 5-8 Fed Com Lease (24 Wells) Section 5 & 8, T20S, R34E Lea County, NM

Dear Mr. Macha:

Enclosed please find executed AFEs for the Joker 5-8 Federal Com lease consisting of 24 wells along with Challenger's well requirements. Challenger Crude Ltd. ("Challenger") hereby elects to participate in the proposed drilling and completion of said wells. Challenger recognizes that Permian Resources Operating LLC and Coterra Energy Inc (Cimarex Energy Co.) are each pursuing operatorship in the same formation within the same tract of land. Challenger is not interested in picking winners or losers in this matter. Challenger intends to participate in the respective wells proposed regardless of which company succeeds in being named operator. Once operatorship has been finally determined, Challenger will consider execution of an appropriate operating agreement to supersede and replace any existing or legacy operating agreements that may be in effect.

Please keep us informed as to the progress of this project. Feel free to contact me should you have further questions or comments.

I II K II VI

Kymberly Holman, CPLTA, CPL

Landman

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reports@henryresources.com

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Minimum Requirement:

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Any other logs

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Challenger Crude Ltd. 3525 Andrews Highway

Midland, Texas

Attn: Patrick Cohorn

Number of Copies to Office:

- Electric Logs (Final Prints)
- Digital Log LAS file with Final Log Tif images
- 2 Mud Logs (Final)
- 1 Drill Stem Test charts and results - if run
- Analyses (Core, Water, Fluid, Etc.) if run 2
- 1 Abandonment Report
- Completion Report

Production Information as reported to the state should be emailed to Laurie Richards III. (RWilson@HenryResources.com)

PARTIES TO BE NOTIFIED IN ADVANCE OF DRILLSTEM TESTING, CORING, LOGGING OR ABANDONMENT OF WELL:

Forrest Collier Office: 432-694-3000

432-694-2999 Fax:

FCollier@HenryResources.com

Patrick Cohorn Office: 432-694-3000 432-694-2999 Fax:

PCohorn@HenryResources.com

J:Well Requirements/Challenger Revised 08-22-2017



Challenger Crude, Ltd.

3525 Andrews Hwy. Midland, Texas 79703 432-693-3000



August 7, 2023

Darin C. Savage Attorney for Cimarex Energy Co. darin@abadieschill.com

Michael H. Feldewert Attorney for Read & Stevens, Inc. mfeldewert@hollandhart.com

Re:

Application of Cimarex Energy Co., NMOCD Case Numbers 23594 through 23601 Application of Cimarex Energy Co., NMOCD Case Numbers 23448 through 23455 Application of Read & Stevens, Inc., NMOCD Case Numbers 23508 through 23523

Gentlemen:

In September of 2022, Cimarex Energy Co. ("Cimarex") presented to Challenger Crude, Ltd. ("Challenger") a proposal to drill and complete certain wells within Sections 5 & 8, T-20-S, R-34-E, NMPM, Lea County, New Mexico. On September 28, 2022, Challenger elected to participate in the Cimarex proposed development plan by signing and returning a proposed operating agreement. Subsequent to Challenger's election to participate, Read & Stevens, Inc. through its designated operator, Permian Resources Operating, LLC (collectively referred to herein as "Read & Stevens"), approached Challenger with a competing plan of development. The competing plans of development by Cimarex and Read & Stevens are currently being contested in the above referenced Applications for Compulsory Pooling filed in the identified NMOCD Case Numbers.

Challenger wishes to express to the applicants and the NMOCD that Challenger prefers to remain neutral insofar as resolution of the competing applications is concerned. Challenger is committed to participating in development of the subject lands pursuant to whichever plan is determined by the NMOCD to prevail and will execute such agreements as may be necessary or appropriate, including without limitation voluntary Communitization Agreements and a mutually acceptable operating agreement. For the avoidance of doubt, Challenger is not by this letter repudiating the Cimarex operating agreement previously executed by Challenger on September 28th and will abide by the terms of such operating agreement should the NMOCD determine that the Cimarex plan of development prevails.

Should there be any questions, please feel free to contact the undersigned at mcurry@henryresources.com or direct line 432.681.7237.

Very truly yours,

CHALLENGER CRUDE, LTD.

By, Michel E. Curry

VP Land/Sr. Counsel





August 3, 2023

Permian Resources 300 N. Marienfeld Street, Suite 1000 Midland, TX 79701

RE: NMOCD Case # 23508-23523

Joker Development

To Whom It May Concern:

The purpose of this letter is to allow EGL Resources, Inc. ("EGL") as an impacted operator within the area the opportunity to make a reference to its opinion on the development strategy.

EGL, as an offset operator in similar geology, has been observing the ongoing cases between Permian Resources Operating and Cimarex Energy Company. EGL is presently exploring the co-development of the Bone Spring and Wolfcamp formations together and has concern for any precedent Cimarex is attempting to set by restricting the development of the Wolfcamp formation.

Respectfully,

Ashly Roush

Land Manager

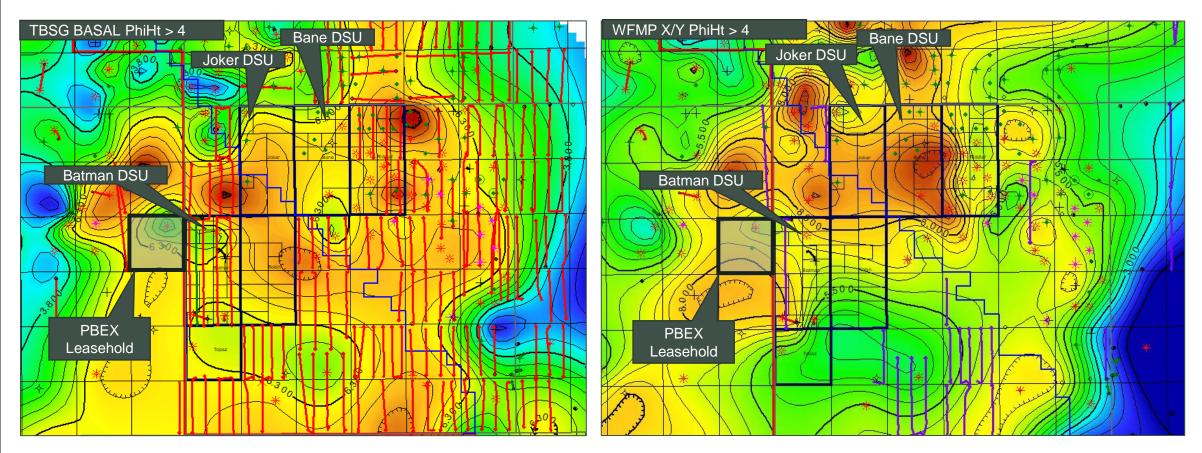
CC: NMOCD

1220 S. St. Francis Drive Santa Fe, NM 87505

Ishley Roush

PBEX Offset Leasehold





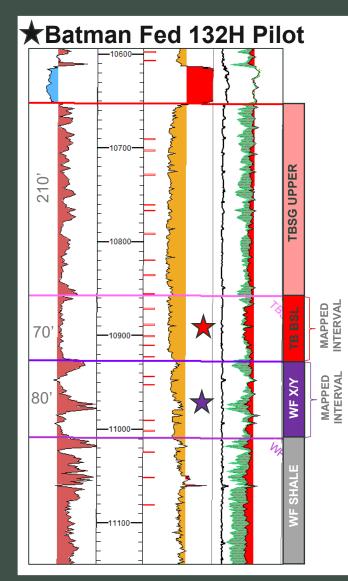
PBEX offset leasehold is in a similar geologic environment as the Bane/Joker units

1

Permian Resources Offset Study

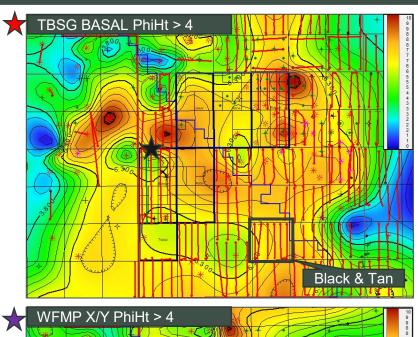
Pilot Hole and Core Support Wolfcamp XY as a High Quality Target

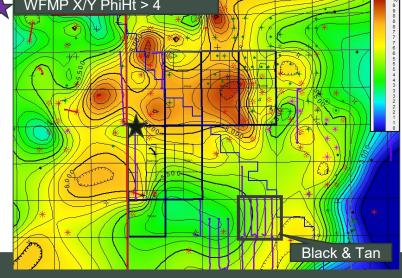




Rotary Sidewall Core Porosity and Water Saturation Porosity (%) 5 10 15 20 0 20 40 60 80 100 PHI Range 6.8-8.2% 61.5% 6.8-9.6% 42.6% 1050 - Helium 1050 - Water • Oil

- WFMP X/Y sand target interval is a high-quality reservoir as evident in the offset production data which is further supported by log and core data.
- WFMP A shale is an organic rich, mature source-rock directly underlying the Wolfcamp X/Y and provides excellent hydrocarbon charge potential in the overlying sand target intervals.
- PHIHT mapping of both basal third bone spring and WFMP X/Y targets shows similar reservoir quality and thickness in this area allowing for codevelopment of both target zone intervals on subject acreage.

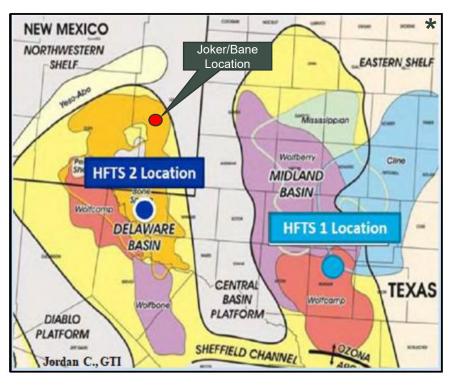




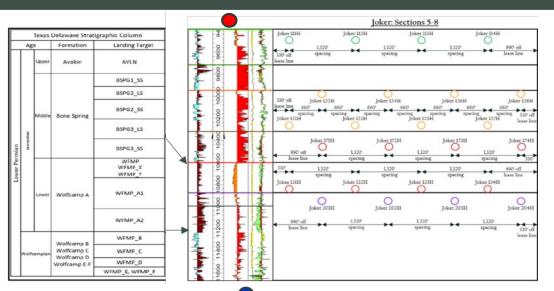
HFTS-2 is not a direct analog for Joker/Bane

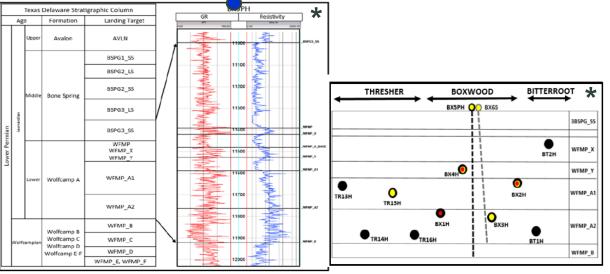
HFTS2 Study is 43.7 miles to the South





- The HFTS-2 Study is:
 - 43.7 miles away
 - In a different state
 - Does not include Third Bone Spring development





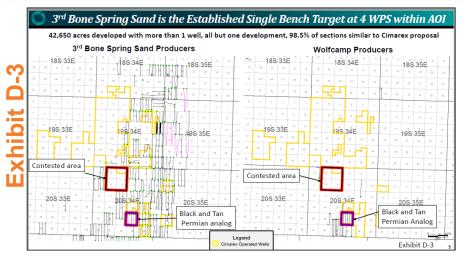
Reconciling Offset Targeting

WFMP is Commonly Targeted, SBSG ≠ TBSG



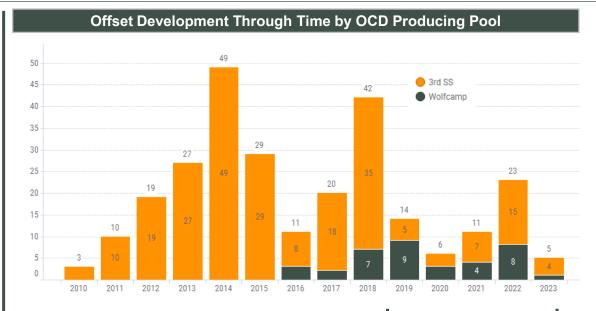


Cimarex Exhibits on Offset Development



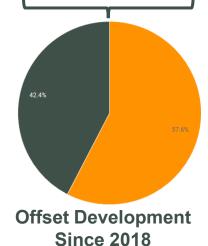
Cimarex cites its deep geology and engineering study of the area and references offset wells within this study. The well list used for this deep study includes:

- 19 SBSG wells identified as TBSG that are likely landed in the SBSG
 - Numerous missing or incorrectly identified WFMP wells
- Wells developed as far back as 2010



Commentary

Offset development has decidedly shifted towards the appraisal and inclusion of the WFMP with >40% of wells drilled since 2018 targeting the WFMP



Total 3rd SS: landing supported by 236 wells, 97%, Total 222 wells 14 of 22 WCMP were WCMP: drilled instead of 3rd SS 5 of 22 WCMP drilled 22 wells xhibit as a separate bench 3 WCMP stack tests with 3rd Sand **■CAZA OPERATING LL** ■COG OPERATING LLC **EARTHSTONE OPERATING LL** ■FASKEN OIL & RANCH LTD ■FRANKLIN MOUNTAIN ENERGY ■LEGACY RESERVES OPERATING ■ MATADOR PRODUCTION CO MEWBOURNE OIL CO ■RAYBAW OPERATING LLC ■ READ & STEVENS INC

Well Count by Landing and Operators Shows 3rd Sand is the Consensus Landing

3rd Sand / single bench

Received by OCD: 8/9/2023 4:05:51 PM Reconciling Offset Targeting

WFMP Targeting Far More Pervasive Than Cimarex Asserts





Мар 185 33E 18S 34E 19S 33E 19S 34E US 180 US 62 20S 33E tman Robin Topaz WFMP A

Well List

UWI	API_10	Well Official Name	Producing Pool	Formation	Cimarex Formation
30025433950000	3002543395	AIRSTRIP 31 18 35 RN STATE COM 201H	WFMP	WFMP A	Wolfcamp
30025458960000	3002545896	ANCHOR 19 35 33 STATE 001H	WFMP	WFMP A	3rd SS
30025509680100	3002550968	BATMAN FED COM 201H	WFMP	WFMP A	N/A
30025460720000	3002546072	BLACK & TAN 27 FEDERAL COM 401H	WFMP	WFMP A	Wolfcamp
30025460730000	3002546073	BLACK & TAN 27 FEDERAL COM 402H	WFMP	WFMP_A	Wolfcamp
30025461230000	3002546123	BLACK & TAN 27 FEDERAL COM 403H	WFMP	WFMP_A	Wolfcamp
30025461240000	3002546124	BLACK & TAN 27 FEDERAL COM 405H	WFMP	WFMP_A	Wolfcamp
30025460750000	3002546075	BLACK & TAN 27 FEDERAL COM 406H	WFMP	WFMP_A	Wolfcamp
30025461400000	3002546140	CABLE 19 35 9 STATE COM 001H	WFMP	WFMP_A	3rd SS
30025499040000	3002549904	CHAROLAIS 28 21 W1MD STATE COM 001H	WFMP	WFMP_A	3rd SS
		DELLA 29 FEDERAL COM 701H	WFMP	WFMP_A	Wolfcamp
30025501680000	3002550168	FOXTAIL E2 05 32 W1 STATE COM 001H	WFMP	WFMP_A	3rd SS
30025501690000	3002550169	FOXTAIL E2 05 32 W1 STATE COM 002H	WFMP	WFMP_A	3rd SS
		GAVILON FED COM 708H	WFMP	WFMP_A	N/A
30025465880000	3002546588	GAVILON FEDERAL COM 704H	WFMP	WFMP_A	N/A
		GRACE 16 STATE COM 901H	WFMP	WFMP_A	N/A
30025499350000	3002549935	HEREFORD 29 20 W1PA STATE COM 001H	WFMP	WFMP_A	3rd SS
30025474830000	3002547483	HEREFORD 29-20 W1MD STATE COM 001H	WFMP	WFMP_A	3rd SS
		HEREFORD 29-20 W1NC STATE COM 001H	WFMP	WFMP_A	3rd SS
		HEREFORD 29-20 W10B FED COM 001H	WFMP	WFMP_A	3rd SS
		LEA SOUTH 25 FEDERAL COM WCA 012H	WFMP	WFMP_A	Wolfcamp
30025452110100			WFMP	WFMP_A	Wolfcamp
		LITTLE BEAR FEDERAL COM 006H	WFMP	WFMP_A	Wolfcamp
		LITTLE BEAR FEDERAL COM 007H	WFMP	WFMP_A	Wolfcamp
		LITTLE BEAR FEDERAL COM 008H	WFMP	WFMP_A	Wolfcamp
		LITTLE BEAR FEDERAL COM 009H	WFMP	WFMP_A	Wolfcamp
		MAS FEDERAL 4H	WFMP	WFMP_A	Wolfcamp
		MAS FEDERAL COM 002H	WFMP	WFMP_A	Wolfcamp
		MINIS 1 FEDERAL COM WCA 010H	WFMP	WFMP_A	N/A
		MINIS 1 FEDERAL COM WCA 016H	WFMP	WFMP_A	N/A
		PERRY 22 FEDERAL COM 004H	WFMP	WFMP_A	Wolfcamp
		RAMBO E2 08 17 STATE COM 001H	WFMP	WFMP_A	N/A
		RAMBO E2 08 17 STATE COM 002H	WFMP	WFMP_A	N/A
		SAND CHUTE 4 9 W1DM FED COM 001H	WFMP	WFMP_A	N/A
		VERNA RAE FEDERAL COM 204H	WFMP	WFMP_A	Wolfcamp
30025474310000	3002547431	WAR EAGLE FEDERAL COM 701H	WFMP	WFMP_A	N/A

Commentary

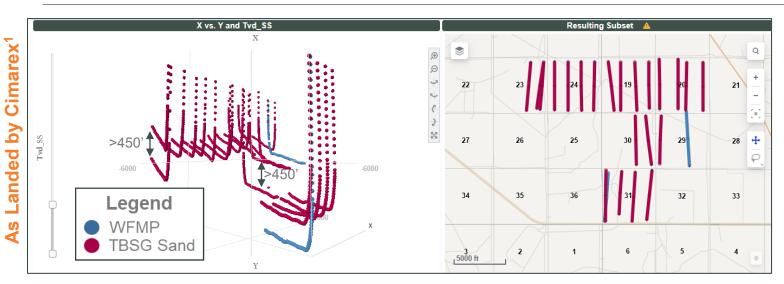
The WFMP A has been targeted more often than asserted by Cimarex ostensibly owing to a combination of:

- Incorrectly identifying WFMP wells as TBSG
- Omitting WFMP wells entirely from well-set

Received by OCD: 8/9/2023 4:05:51 PM Reconciling Offset Targeting

SBSG ≠ TBSG

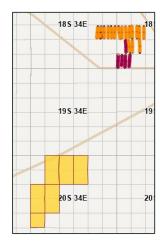


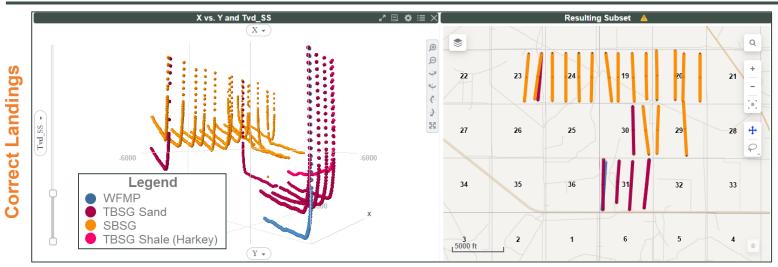


Commentary

Cimarex supplied a well list used in the deep engineering and geology study (Exhibit D-24). A quick look at the directional surveys in the northern extents of the AOI show:

- '3rd SS' wells in the same unit have >450' of TVD separation
- There are WFMP wells shallower than the TBSG





Commentary

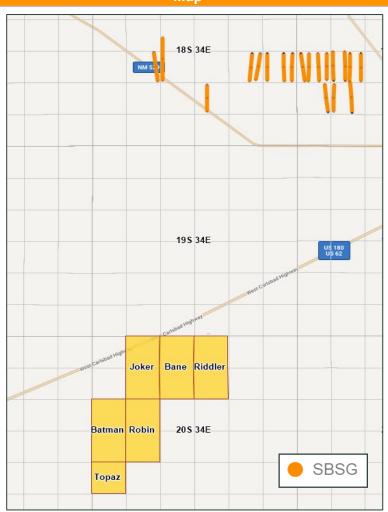
In reality, many of the '3rd SS' wells are most likely incorrectly identified and are actually landed in the SBSG

Received by OCD: 8/9/2023 4:05:51 PM Reconciling Offset Targeting

SBSG ≠ TBSG



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Well List

UWI	API_10	Well Official Name	Formation	Cimarex Formation
30025418090000	3002541809	ALBATROSS STATE COM 1H	SBSG	3rd SS
30025411480100	3002541148	CAPROCK 27 STATE FEDERAL COM 1H	SBSG	3rd SS
30025408140100	3002540814	CONDOR STATE 001H	SBSG	3rd SS
30025410250000	3002541025	CONDOR STATE 2H	SBSG	3rd SS
30025423770000	3002542377	IGGLES STATE COM 001H	SBSG	3rd SS
30025406760100	3002540676	IRONHOUSE 19 STATE COM 1H	SBSG	3rd SS
30025410940000	3002541094	IRONHOUSE 19 STATE COM 2H	SBSG	3rd SS
30025410500000	3002541050	IRONHOUSE 19 STATE COM 3H	SBSG	3rd SS
30025412450200	3002541245	IRONHOUSE 19 STATE COM 4H	SBSG	3rd SS
30025406110000	3002540611	IRONHOUSE 20 STATE 1H	SBSG	3rd SS
30025407480000	3002540748	IRONHOUSE 20 STATE COM 2H	SBSG	3rd SS
30025411630000	3002541163	IRONHOUSE 24 STATE COM 1H	SBSG	3rd SS
30025415950000	3002541595	IRONHOUSE 24 STATE COM 2H	SBSG	3rd SS
30025416960000	3002541696	IRONHOUSE 24 STATE COM 4H	SBSG	3rd SS
30025418360000	3002541836	KINGFISHER STATE COM 2H	SBSG	3rd SS
30025424720000	3002542472	KINGFISHER STATE COM 5H	SBSG	3rd SS
30025419500000	3002541950	NIGHTHAWK STATE COM 003H	SBSG	Wolfcamp
30025415190100	3002541519	NIGHTHAWK STATE COM 1H	SBSG	3rd SS
30025424990000	3002542499	PICKARD 20 18 34 RN STATE 124H	SBSG	3rd SS

Commentary

19 of the wells identified by Cimarex as either TBSG or WFMP are likely SBSG wells

Received by OCD: 8/9/2023 4:05:51 PM Cimarex's Offset Development Analysis

Apache Black & Tan

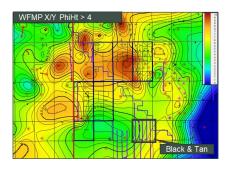


Black & Tan, the Only Similar Development Plan...

There is only one development plan within the entire AOI similar to the plan

Permian Resources is proposing for its Joker and Bane Wells, the Black and Tan Wells drilled in

Section 27, Township 20 South, Range 35 East, located just 2 miles south of the Subject Lands.



	TBSG Sand WPS	WFMP A WPS	Total WPS
Black & Tan	6	5	11
PR Proposal	4	4	8



Analogous Geology?



Analogous Density?



Analogous Sequencing?



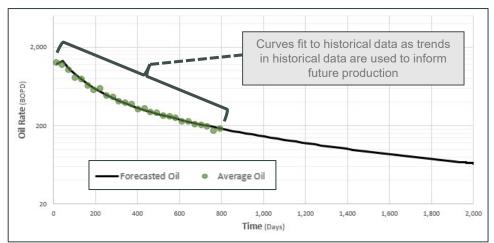
Although Apache's Black & Tan development is NOT an analog to PR's proposal, Cimarex's analysis features so heavily in their materials, it requires additional rebuttal

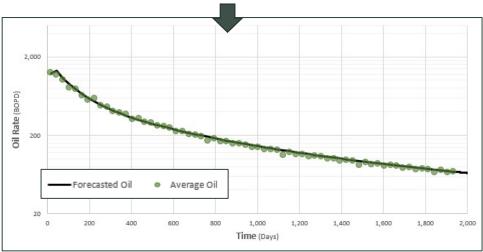
Black & Tan Learnings

Cimarex's Analysis Fundamentally Flawed

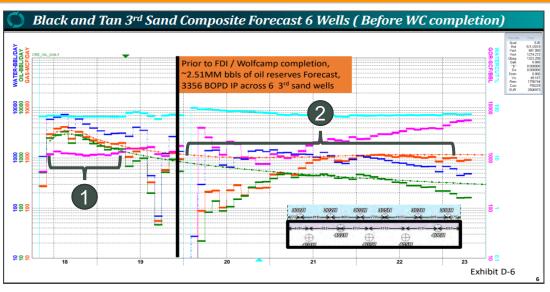


Fundamentals Of Empirical Forecasting





Empirical Forecasting In Cimarex Analysis

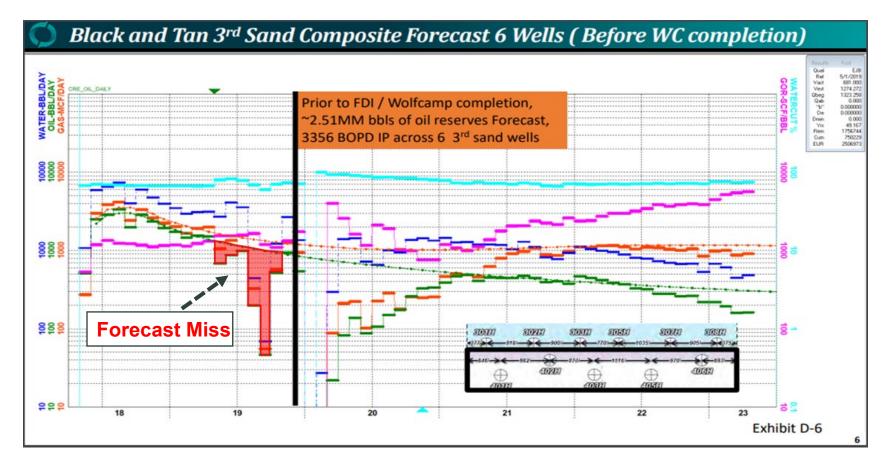


Cimarex uses Black & Tan TBSG production data through May 2019 1 to establish the expected future performance of the project if left as a TBSG only development and then uses the difference between this forecast and the actual TBSG production to establish the damage the development of the TBSG did 2

Black & Tan Learnings

Cimarex's Analysis Fundamentally Flawed





The TBSG data to May 2019 used to generate the expected TBSG performance somehow lost the ability to predict future performance (June 2019- November 2019 highlighted in red)

What Happened To The TBSG?

- Development of the WFMP?
 - 1st B&T WFMP spud August 2019
 - Last B&T WFMP spud October 2019
 - B&T Frac December 2019
- Changing operational conditions?
- Offset interference?



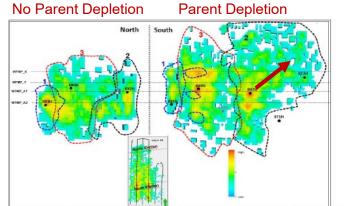
Concho Little Bear 2H (BSPG Pool) frac May 2019

Black & Tan Learnings





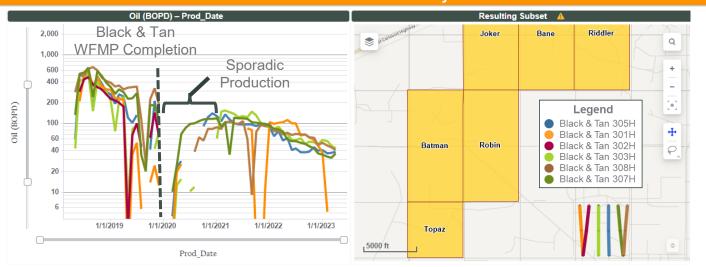
Delayed WFMP Develop Causes Issues → **Depletion Influences Fracs**¹



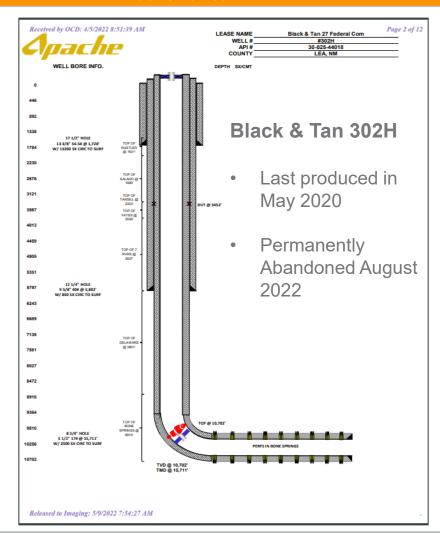
Pressure depletion influences fracture growth

The numbers and colors (blue, black, red) correspond to relative stimulation time successively

Black & Tan TBSG Production By Well



Black & Tan 302H WBD²

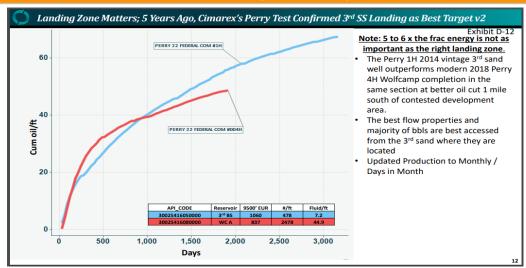


Cimarex's Appraisal of the WFMP

Strong WFMP Results, TBSG not Damaged



Cimarex Supposed Learnings from Perry Development

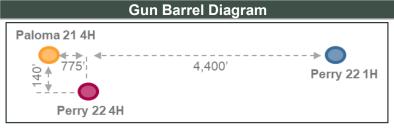


Cimarex cites their Perry development as proof positive that "drilling the upper Wolfcamp is a waste of resources"

Development Overview

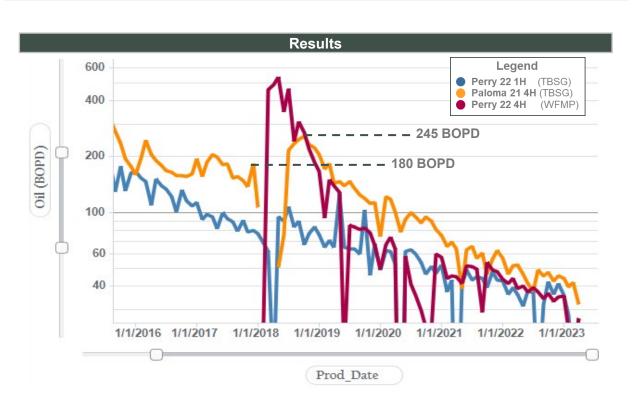


Exhibit D-12



Cimarex's Perry 22 Federal Com 004H WFMP appraisal was drilled offset of an existing TBSG well, Fasken operated Paloma 21 Federal Com 04H

A Closer Look



Far from destroying the TBSG, the Paloma 21 4H improves following offset completion of the Perry 4H

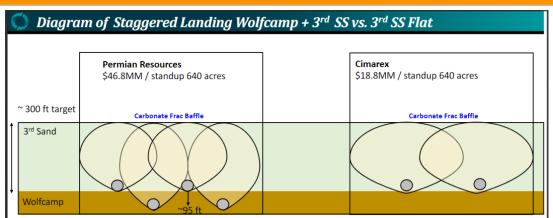
Exhibit

Frac Dimensions

HFTS2 Demonstrated Fracture Growth Upward AND Downward



Cimarex's Illustrative View Frac Dimensions



- Cimarex has experience developing as many as 8 landings within a DSU successfully in Lea county with 9th drilling now, 35 to 38 wells / section. The difference is the combination of geology (barriers, reservoir height, and flow units) don't support the proposed staggers at Mighty Pheasant Loosey Goosey as demonstrated by area developments like Black and Tan.
- 3rd and Wolfcamp landed this close together are equivalent to 8 WPS flat in the 3rd Sand, double the AOI proven density.
- A wealth of data from the DOE and industry funded Hydraulic Fracture Test Site 2 supports an upper Wolfcamp buffer zone in this specific location to protect proven 3rd Sand correlative rights and prevent capital waste. C-9

Cimarex has provided a cartoon depiction of fracture dimensions for WFMP/TBSG development and vaguely asserts that this is based on leanings from HFTS2

Actual HFTS2 Takeaways^{1,2}

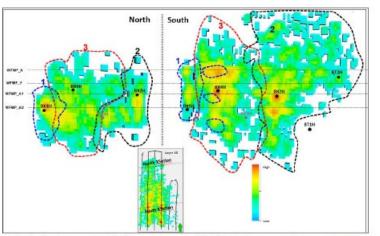
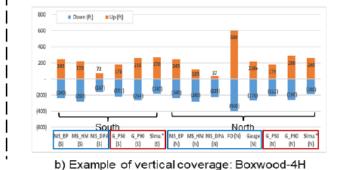


Fig 23—Areal and cross-sectional view in stimulation sequential timing of 3D heat maps grid generated for HFTS-2 area. The numbers and colors (blue, black, red) correspond to relative stimulation time successively



G P50, G P90: GOHFER statistical simulation results Simu. *: Calibrated simulation results (N) – North; (S) – South

Diagnostics

Simulation

HFTS2:

- Is more than 40 miles away and in very different geology
- Did not include the development of the TBSG
- Demonstrated upward AND downward fracture growth

1 HFTS Final Report - pg. 164 Released to Imaging: 8/9/2023 4:13:58 PM

Cimarex Perry WFMP Appraisal

By Cimarex's Own Exhibits, the WFMP is Highly Economic

Table 1 0 Campasian		3rd Sand		(Wolfcamp - 3rd Sand											
Table 1.0 Comparison of 3rd sand to Wolfcamp	3rd Bone Spring	3rd Bone Post frac 3rd Sand Delt		3rd San		3rd Sand Delt		13rd Sand De		3rd Sand Dolta		3rd Sand Delta		Wolfcamp	Delta) = value added from 5 wells
IP30 BOPD	3,356	NA	NA	555	NA										
Pre vs. Post frac oil rate BOPD	950	500	-450	+555	105										
EUR MMBO	2.51	1.63	-0.88	+0.89	0.01										

Wolfcamp Recovery (EUR) = $\frac{890 \text{ mbo}}{5 \text{ wells}} = \frac{178 \text{ mbo/well}}{4,600 \text{ ft/well}} = 38.5 \text{ bo/ft}$

Black and Tan Analog Comparison To MP/LG

Exhibit D-11

Table 1.2	Black and Tan			Might	y Pheasant Loosey God	osey
Analog Comparison	3rd Sand	Wolfcamp	3rd SS % of total	3rd Sand	Wolfcamp	3 rd SS % of total
PHIH	22	7	76	27	10	73

- Contested acreage is expected to outperform Black and Tan 2.5MMbo / 640-acre Technical EUR by ~20%
- Over performance driven by improved PHIH of 3rd sand. 27/22 = 122%.
- Sensitivities highlight impact of capital waste given 0% uplift on Black and Tan Wolfcamp 3rd SS analog
 - Table 1.3 Wolfcamp must add ~40% reserves to break even vs Cimarex Development at P90 reserves case
 - Table 1.4 Wolfcamp must add ~31% reserves to break even vs. Cimarex Development at SM business case
 - . Neither Table 1.3 or 1.4 increase in performance is reasonable to expect given public data

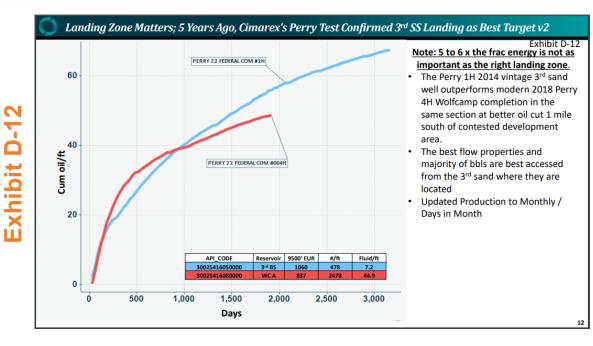
Table 1.3 Reserves Economic Comparison 10MM Technical EUR DSU										
\$65 flat analysis at Cimarex WI & NRI			F	ermian	Cimarex					
Reserves	IP	Economic EUR MBO	PV10 \$MM	Payout months	PV10 \$MM	Payout months				
100%	14,738	8,860	14.7	43	41.8	12				
110% expected	16,212	9,820	21.4	33						
120% expected	17,685	10,780	28.2	26						
130% expected	19,159	11,740	34.9	23						
140% expected	20,633	12,700	41.5	21						

Table 1.4 Development Comparison 12MM Technical EUR DSU									
\$65 flat anal	\$65 flat analysis at Cimarex WI & NRI			Permian	(Cimarex			
12 MM EUR	IP	Economic EUR MBO	PV10 \$MM	Payout months	PV10	Payout months			
100%	18,897	11,026	34.8	23	61.9	10			
110% expected	20,787	12,987	43.6	20					
120% expected	22,676	14,233	52.3	18					
130% expected	24,566	15,480	61	16					
140% expected	26.456	16.727	69.7	15					

- In order to create equivalent PV10, Wolfcamp landings must add $^{\sim}40\%$ more reserves vs reserves estimate (table 1.3) and 31% more reserves vs. P50 expectation (table 1.4). This outcome is unrealistic vs. observed results.
- Cimarex lower terminal fixed OpEx + less well degradation results in 9.1MM EUR vs. Permian 8.9MM EUR at 100% reserves expectation.
- The Cimarex plan self-funds annual drilling after first batch of wells supporting rapid development
- Permian plan supports slower development speed

40% more reserves would represent: 38.5 bo/ft x 1.4 = 54 bo/ft





Cimarex provides their internal EUR for the Perry 22 4H

- 837 mbo / 9,500 ft = 88 bo/ft

	-			
API_CODE	Reservoir	9500' EUR	#/ft	Fluid/ft
30025416050000	3rd BS	1060	478	7.2
30025416080000	WC A	837	2478	44.9

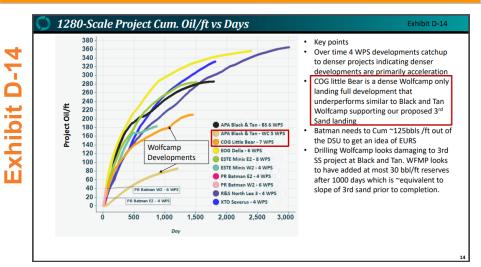
- Exceeding 54 bo/ft required by Cimarex economics

Cimarex Offset Development Comparison

Selectively Breaking Out WFMP and TBSG is Misleading



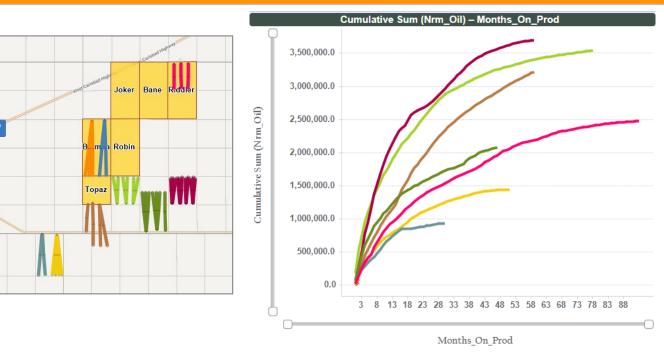




Cimarex selects offset developments in an attempt to demonstrate that 4 WPS TBSG only development generates the most production. Some observations:

- Black & Tan WFMP are graphed separately than the WFMP defeating the purpose of this plot
- Even by this plot, through the first 5 years the Della development (6 WPS and includes a WFMP) is the strongest offset development

A Closer Look



When grouping the developments together instead of selectively separating out the WFMP, the top 2 projects are WFMP & TBSG co-developments at greater than 4 WPS

Oil Rate/ft

0.060

0.040

0.020

0.010

0.006

0.004

Wolfcamp

Developments

Exhibit

Cimarex Offset Development Comparison

Selectively Breaking Out WFMP and TBSG is Misleading



Cimarex's Offset Comparison 1280-Scale Project Oil Rate/ft vs Cum Oil/ft Exhibit D-16 1.000 0.600 0.400 0.400 0.200 RR Balman W2 - 6 WPS ESTE Minis E2 - 8 WPS ESTE Minis E2 - 8 WPS ESTE Minis E2 - 4 WPS RB Balman W2 - 6 WPS

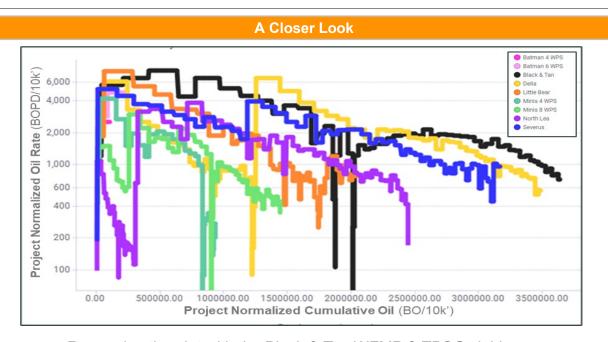
Key Point

XTO Severus - 4 WPS

- More time is needed on the Batman wells to gauge performance, post ESP install decline at 100 to 150 cum/ft will be a meaningful data point
- In aggregate 3rd sand developments have a shallower slope than Wolfcamp developments and will enjoy ultimate higher EUR's



Selectively separating out WFMP and TBSG is misleading



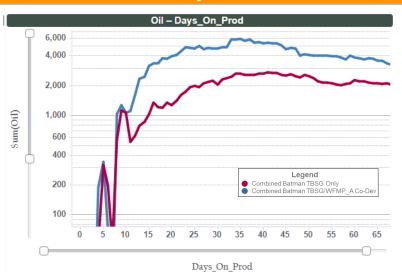
 Recreating the plot with the Black & Tan WFMP & TBSG yields very different results

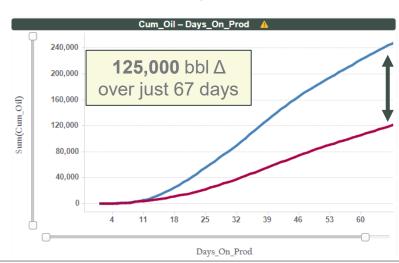
A Note on Economics

Batman Supports Material Economic Uplift with Co-Development



Batman Early Time Performance





PR Internal Expectations

	Oil Production (bbls)	Total Forecasted EUR (MBO)		Actual Revenue to Date (\$MM)	IRR
Batman Co-Development	251,000	2,524	\$14.9	\$8.40	78%
Batman TBSG Only	123,000	1,776	\$10.1	\$3.95	73%
Delta	128,000	748	\$4.8	\$4.45	5%

Current internal expectations strongly support TBSG/WCA codevelopment and additional reserves with:

- Massively increased early time performance
- Increased EUR
- Increased NPV10

6/9/23 Strip

Coterra - 2Q23 Earnings Presentation

Filed 8/7/2023 on Coterra Website



Permian Asset Overview

targeting prolific Wolfcamp & Bone Spring



notable Permian projects

Larger-scale projects are driving capital efficiency by

- Focusing on concentrated areas & reducing mobilization time for drilling & completion services
- Spreading facilities and infrastructure across more wells

Culberson Mint Julep Row | Wolfcamp | 7.5 wps 11.4 net (23 gross) wells now online

Culberson Row | Wolfcamp | 7-9 wps

25.5 net (51 gross) wells spud 3Q23 Largest development to date

Lea County | Bone Spring, 4 Landing Zones | 14 wps 4.6 net (8 gross) wells coming online Q4 2023

Further testing multiple Bone Spring landing zones

Culberson County | Wolfcamp & Harkey | 9 & 4 wps

9.0 net (18 gross) wells coming online 4Q23 Given project timing, production tilts toward 2024



COTERRA

net wells online:

2023 operational outlook

80 - 90

\$880mm - \$980mm D&C capex
9,700' avg. lateral length⁽¹⁾
\$1,200 avg. well cost per foot⁽¹⁾
\$1,250 Reeves
\$1,000 Culberson
\$1,400 Lea
\$1,000 Eddy

Wolfcamp
Bone Spring
Harkey
Reeves
Culberson
Lea
Eddy
5%

Note: wps = wells per section. 1Of operated wells

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Coterra - 2Q23 Earnings Presentation

Filed 8/7/2023 on Coterra Website



Coterra highlights "targeting prolific Wolfcamp & Bone Spring" in 2Q23 earnings presentation map – yet is not developing the Wolfcamp inside its own "prolific" play outlines

Map Overlay from Slides **Wolfcamp Producers** 18S 35E "Prolific" Bone Spring "Prolific" Wolfcamp targeting prolific Wolfcamp & Bone Spring Contested area Coterra acreage ~307k net acres 20S 33E 20S 35E Wolfcamp Black and Tan Bone Spring Permian Analog PR geo-referenced maps using Coterra acreage outline

2Q23 Earnings Presentation Slides



