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

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

Case Nos. 22313-22316

APPLICATION OF DEVON ENERGY PRODUCTION COMPANY, L.P. FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

Case Nos. 22179-22180 & 22382

Examiner Docket: March 24, 2022

CIMAREX'S EXHIBITS

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- Exhibit C-3: Geology Study—Avalon Wells
- Exhibit C-4: Geology Study—First Bone Spring Wells
- Exhibit C-5: Geology Study—Second Bone Spring Wells
- Exhibit C-6: Geology Study—Third Bone Spring & Wolfcamp Wells

Tab D: Reservoir Engineer Exhibits: Direct Testimony and Exhibits of Eddie Behm

- Exhibit D-1: Overview of Existing and Proposed Surface Facilities.
- Exhibit D-2: Bar Chart Comparing Total Captured Reserves
- Exhibit D-3: Comparison by Target
- Exhibit D-4: Flow Unit Valuation
- Exhibit D-5: Spacing relative to Matador Robby Robinson
- Exhibit D-6: Spacing relative to OXY Avogato
- Exhibit D-7: Production from near-by Second Bone Spring Wells
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- Exhibit D-9: Nearby Offsets Target Third Bone Spring
- Exhibit D-10: Wolfcamp Equivalent Results Achieved in Third Bone Spring at Oxy's Avogato Devlopment
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- Exhibit D-13: Identification of 1-mile to 2-mile laterals normalized within AOR
- Exhibit D-14: Devon's Extended Wolfcamp Laterals In This Area Underperform 1- and 2-mile Laterals
- Exhibit D-15: Comparison of Devon Long Laterals with Cimarex 1- to 2-mile Laterals
- Exhibit D-16: Captured and Stranded Reserves

Tab E: Witness Resumes

- Exhibit E-1: Resume of Kelsi Henriques
- Exhibit E-2: Resume of Jennifer A. Blake
- Exhibit E-3: Resume of Eddie Behm

The Division's Factors Weigh in Cimarex's Favor

Factor	Cimarex	Devon	Comment
Geologic Evidence	✓	✗	• Avalon: Presence of limestone and chert creates greater operational risk for Devon's longer laterals • First and Third Bone Spring: Productive formations that Devon is excluding • Frac baffles between Third Bone Spring and Wolfcamp XY may reduce Devon production from Third Bone Spring
Risk	✓	✗	• Cimarex's plan represents a continuation of its proven strategy developing 2-mile laterals in this area. • Avalon: Presence of limestone and chert creates greater operational risk for Devon's longer laterals • Wolfcamp: Three-mile laterals in Wolfcamp are risky. • Limiting Cimarex to 1-mile laterals creates unnecessary risk—1-mile laterals no longer the industry standard. Likely won't be drilled until at least 2029, with uncertainty regarding regulatory regime at that time.
Negotiations	✓	✗	• Cimarex engaged in extensive trade discussions with Devon. • Devon's counters became progressively worse, with Devon's final offers being worse for Cimarex than its first offers.
Prudent Operator and Prevent Waste	✓	✗	• Cimarex has successful wells in the E/2 of Sections 1 and 12 along with existing infrastructure. • Cimarex targeting proven First and Third Bone Spring; Devon is not. • Cimarex's plan captures 10% more reserves than Devon. • Devon's Wolfcamp spacing may leave reserves.
Cost Estimates	✓	✗	• Cimarex has existing infrastructure in place. Cimarex will need to build two pads but existing infrastructure reduces costs. • Cimarex has existing infrastructure for gas, oil, and water takeaway, which will reduce operational costs.
Ownership Interest	✓	✗	• After the Concho trade, Cimarex will own 71% of the working interest in its proposed HSUs. • Cimarex's plan protects correlative rights by allowing each operator to develop acreage.
Surface Factor	✓	✗	• Cimarex has development immediately adjacent to proposed unit in E/2 of Sections 1 and 12. • Cimarex has existing surface facilities, which reduces need to build as many surface facilities. • Cimarex has existing gas, oil, and water take-away reducing costs and demonstrating readiness.

COMPULSORY POOLING APPLICATION CHECKLIST (pdf)	
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS	
Case: 22313	**APPLICANT'S RESPONSE**
Date: March 24, 2022	
Applicant	**Cimarex Energy Co.**
Designated Operator & OGRID (affiliation if applicable)	**Cimarex Energy Co. (215099)**
Applicant's Counsel:	**Modrall, Sperling, Roehl, Harris & Sisk, P.A. (Earl E. DeBrine, Jr., Deana M. Bennett, Jamie L. Allen & Bryce H. Smith)**
Case Title:	**Amended Application of Cimarex Energy Co. for Compulsory Pooling, Lea County, New Mexico**
Entries of Appearance/Intervenors:	**Devon Energy Production Company, L.P.** Michael H. Feldewert Adam G. Rankin Julia Broggi Kaitlyn A. Luck Holland & Hart, LLP Post Office Box 2208 Santa Fe, New Mexico 87504 TEL: (505) 988-4421 FAX: (505) 983-6043 mfeldewert@hollandhart.com agrankin@hollandhart.com jbroggi@hollandhart.com kaluck@hollandhart.com
	ConocoPhillips Ocean Munds-Dry Elizabeth Ryan ConocoPhillips 1048 Paseo de Peralta Santa Fe, New Mexico 87501 (505) 780-8000 (505) 428-0485 Facsimile Ocean.Munds-Dry@conocophillips.com Beth.Ryan@conocophillips.com
Well Family	**Coriander**
Formation/Pool	
Formation Name(s) or Vertical Extent:	**Bone Spring**
Primary Product (Oil or Gas):	**Oil**
Pooling this vertical extent:	**Bone Spring**
Pool Name and Pool Code:	**Diamondtail; Bone Spring (17644)**

EXHIBIT tabbies A-1

Well Location Setback Rules:	**Statewide**
Spacing Unit Size:	**640**
Spacing Unit	
Type (Horizontal/Vertical)	**Horizontal**
Size (Acres)	**640 acres**
Building Blocks:	**40 acres**
Orientation:	**North-South**
Description: TRS/County	**W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico**
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	**Y**
Other Situations	
Depth Severance: Y/N. If yes, description	**None**
Proximity Tracts: If yes, description	**Yes**
Proximity Defining Well: if yes, description	**Coriander 1-12 Fed Com 27H**
Applicant's Ownership in Each Tract	**See Exhibits B-2, B-6, and B-9. See also Tab B, Declarataion of Kelsi Henriques.**
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	**See Exhibit B-13. See also Tab B, Declarataion of Kelsi Henriques.**
Well #1	**Coriander 1-12 Fed Com 12H** API No.: TBD SHL: 370 feet from the North line and 2,537 feet from the East line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 2,324 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Bone Spring Formation at approximately 12,230' TVD. Well Orientation: North-South Completion Location: Expected to be standard. **See Exhibit B-13 for C102s.**
Well #2	**Coriander 1-12 Fed Com 16H** API No.: TBD SHL: 310 feet from the North line and 2,638 feet from the East line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 2,034 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Bone Spring Formation at approximately 11,030' TVD. Well Orientation: North-South Completion Location: Expected to be standard. See **See Exhibit B-13 for C102s.**

Well #3	**Coriander 1-12 Fed Com 18H** API No.: TBD SHL: 250 feet from the North line and 2,538 feet from the East line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 1,884 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Bone Spring Formation at approximately 10,200 TVD. Well Orientation: North-South Completion Location: Expected to be standard. See **See Exhibit B-13 for C102s.**
Well #4	**Coriander 1-12 Fed Com 25H** API No.: TBD SHL: 370 feet from the North line and 874 feet from the West line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 990 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Bone Spring Formation at approximately 12,230' TVD. Weli Orientation: North-South Completion Location: Expected to be standard. See **Exhibits 2 and 5.**
Well #5	**Coriander 1-12 Fed Com 27H** API No.: TBD SHL: 310 feet from the North line and 794 feet from the West line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 1,175 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Bone Spring Formation at approximately 10,770' TVD. Well Orientation: North-South Completion Location: Expected to be standard. See **See Exhibit B-13 for C102s.**
Well #6	**Coriander 1-12 Fed Com 28H** API No.: TBD SHL: 310 feet from the North line and 754 feet from the West line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 330 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Bone Spring Formation at approximately 11,030' TVD. Well Orientation: North-South Completion Location: Expected to be standard. See **See Exhibit B-13 for C102s.**

Well #7	**Coriander 1-12 Fed Com 31H** API No.: TBD SHL: 250 feet from the North line and 833 feet from the West line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 330 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Bone Spring Formation at approximately 10,200' TVD. Well Orientation: North-South Completion Location: Expected to be standard. See **See Exhibit B-13 for C102s.**
Horizontal Well First and Last Take Points	**See Exhibit B-13 for C102s.**
Well #1	**Coriander 1-12 Fed Com 12H** FTP: 370 feet from the North line and 2314 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP:100 feet from the South line and 2,324 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Well #2	**Coriander 1-12 Fed Com 16H** FTP: 310 feet from the North line and 2,024 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 2,034 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Well #3	**Coriander 1-12 Fed Com 18H** FTP: 250 feet from the North line and 1,874 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 1,884 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Well #4	**Coriander 1-12 Fed Com 25H** FTP: 370 feet from the North line and 990 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 990 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Well #5	**Coriander 1-12 Fed Com 27H** FTP: 370 feet from the North line and 1,175 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 1,175 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**

Well #6	**Coriander 1-12 Fed Com 28H** FTP: 310 feet from the North line and 330 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 330 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Well #7	**Coriander 1-12 Fed Com 31H** FTP: 250 feet from the North line and 330 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 330 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Completion Target (Formation, TVD and MD)	**See Exhibits B-13 and B-14.**
Well #1	**Coriander 1-12 Fed Com 12H** Formation: Bone Spring TVD: 12,230' MD: 22,230'
Well #2	**Coriander 1-12 Fed Com 16H** Formation: Bone Spring TVD: 11,030' MD: 21,030'
Well #3	**Coriander 1-12 Fed Com 18H** Formation: Bone Spring TVD: 10,200' MD: 20,200'
Well #4	**Coriander 1-12 Fed Com 25H** Formation: Bone Spring TVD: 12,230' MD: 22,230'
Well #5	**Coriander 1-12 Fed Com 27H** Formation: Bone Spring TVD: 10,770' MD: 20,770'
Well #6	**Coriander 1-12 Fed Com 28H** Formation: Bone Spring TVD: 11,030' MD: 21,030'
Well #7	**Coriander 1-12 Fed Com 31H** Formation: Bone Spring TVD: 11,030' MD: 20,200'
AFE Capex and Operating Costs	
Drilling Supervision/Month $	**$8,000/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Production Supervision/Month $	**$800/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Justification for Supervision Costs	**See Tab B, Declaration of Kelsi Henriques, ¶ 50.**

Requested Risk Charge	**200%. See Tab B, Declaration of Kelsi Henriques, ¶ 51.**
Notice of Hearing	
Proposed Notice of Hearing	**Exhibit B-16**
Proof of Mailed Notice of Hearing (20 days before hearing)	**Exhibit B-16**
Proof of Published Notice of Hearing (10 days before hearing)	**Exhibit B-16**
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	**Exhibits B-2 and B-6**
Tract List (including lease numbers and owners)	**Exhibit B-9**
Pooled Parties (including ownership type)	**Exhibit B-10**
Unlocatable Parties to be Pooled	**N/A**
Ownership Depth Severance (including percentage above & belo	**N/A**
Joinder	
Sample Copy of Proposal Letter	**Exhibit B-11**
List of Interest Owners (ie Exhibit A of JOA)	**Exhibit B-10**
Chronology of Contact with Non-Joined Working Interests	**Exhibit B-15**
Overhead Rates In Proposal Letter	**Exhibit B-11**
Cost Estimate to Drill and Complete	**Exhibit B-14**
Cost Estimate to Equip Well	**Exhibit B-14**
Cost Estimate for Production Facilities	**Exhibit B-14**
Geology	
Summary (including special considerations)	**Tab C**
Spacing Unit Schematic	**Exhibits C-3 through C-6**
Gunbarrel/Lateral Trajectory Schematic	**Exhibits C-3 through C-6**
Well Orientation (with rationale)	**Exhibit C-2**
Target Formation	**Exhibits C-3 through C-6**
HSU Cross Section	**Exhibits C-3 through C-6**
Depth Severance Discussion	**N/A**
Forms, Figures and Tables	
C-102	**Exhibit B-13**
Tracts	**Exhibit B-9**
Summary of Interests, Unit Recapitulation (Tracts)	**Exhibit B-9**
General Location Map (including basin)	**Exhibit C-1**
Well Bore Location Map	**Exhibit C-1**
Structure Contour Map - Subsea Depth	**Exhibits C-3 through C-6**
Cross Section Location Map (including wells)	**Exhibits C-3 through C-6**
Cross Section (including Landing Zone)	**Exhibits C-3 through C-6**
Additional Information	

Special Provisions/Stipulations	**N/A**
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	**Deana M. Bennett**
Signed Name (Attorney or Party Representative):	
Date:	**Thursday, March 17, 2022**

COMPULSORY POOLING APPLICATION CHECKLIST (pdf)	
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS	
Case: 22314	**APPLICANT'S RESPONSE**
Date: March 24, 2022	
Applicant	**Cimarex Energy Co.**
Designated Operator & OGRID (affiliation if applicable)	**Cimarex Energy Co. (215099)**
Applicant's Counsel:	**Modrall, Sperling, Roehl, Harris & Sisk, P.A. (Earl E. DeBrine, Jr., Deana M. Bennett, Jamie L. Allen & Bryce H. Smith)**
Case Title:	**Application of Cimarex Energy Co. for Compulsory Pooling, Lea County, New Mexico**
Entries of Appearance/Intervenors:	**Devon Energy Production Company, L.P.** Michael H. Feldewert Adam G. Rankin Julia Broggi Kaitlyn A. Luck Holland & Hart, LLP Post Office Box 2208 Santa Fe, New Mexico 87504 TEL: (505) 988-4421 FAX: (505) 983-6043 mfeldewert@hollandhart.com agrankin@hollandhart.com jbroggi@hollandhart.com kaluck@hollandhart.com
	ConocoPhillips Ocean Munds-Dry Elizabeth Ryan ConocoPhillips 1048 Paseo de Peralta Santa Fe, New Mexico 87501 (505) 780-8000 (505) 428-0485 Facsimile Ocean.Munds-Dry@conocophillips.com Beth.Ryan@conocophillips.com
Well Family	**Coriander**
Formation/Pool	
Formation Name(s) or Vertical Extent:	**Wolfcamp**
Primary Product (Oil or Gas):	**Oil**
Pooling this vertical extent:	**Wolfcamp**
Pool Name and Pool Code:	**WC-025 G-09 S223332A; UPR Wolfcamp**

EXHIBIT
tabbies
A-2

Well Location Setback Rules:	**Statewide**
Spacing Unit Size:	**320 acres**
Spacing Unit	
Type (Horizontal/Vertical)	**Horizontal**
Size (Acres)	**320 acres**
Building Blocks:	**40 acres**
Orientation:	**North-South**
Description: TRS/County	**W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico**
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	**Y**
Other Situations	
Depth Severance: Y/N. If yes, description	**None**
Proximity Tracts: If yes, description	**N/A**
Proximity Defining Well: if yes, description	**N/A**
Applicant's Ownership in Each Tract	**See Exhibits B-2, B-6, and B-9. See also Tab B, Declarataion of Kelsi Henriques.**
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	**See Exhibit B-13. See also Tab B, Declarataion of Kelsi Henriques.**
Well #1	**Coriander 1-12 Fed Com 26H** API No.: TBD SHL: 370 feet from the North line and 834 feet from the West line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 330 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Wolfcamp Formation at approximately 12,525' TVD. Well Orientation: North-South Completion Location: Expected to be standard. See **See Exhibit B-13 for C102s.**
Horizontal Well First and Last Take Points	**See Exhibits B-13 and B-14.**
Well #1	**Coriander 1-12 Fed Com 26H** FTP: 370 feet from the North line and 330 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 330 feet from the South line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Completion Target (Formation, TVD and MD)	**See Exhibits B-13 and B-14.**

Well #1	**Coriander 1-12 Fed Com 26H** Formation: Wolfcamp TVD: 12,525' MD: 22,525'
AFE Capex and Operating Costs	
Drilling Supervision/Month $	**$8,000/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Production Supervision/Month $	**$800/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Justification for Supervision Costs	**See Tab B, Declaration of Kelsi Henriques, ¶ 50.**
Requested Risk Charge	**200%. See Tab B, Declaration of Kelsi Henriques, ¶ 51.**
Notice of Hearing	
Proposed Notice of Hearing	**Exhibit B-16**
Proof of Mailed Notice of Hearing (20 days before hearing)	**Exhibit B-16**
Proof of Published Notice of Hearing (10 days before hearing)	**Exhibit B-16**
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	**Exhibits B-2 and B-6**
Tract List (including lease numbers and owners)	**Exhibit B-9**
Pooled Parties (including ownership type)	**Exhibit B-10**
Unlocatable Parties to be Pooled	**N/A**
Ownership Depth Severance (including percentage above & belo	**N/A**
Joinder	
Sample Copy of Proposal Letter	**Exhibit B-11**
List of Interest Owners (ie Exhibit A of JOA)	**Exhibit B-10**
Chronology of Contact with Non-Joined Working Interests	**Exhibit B-15**
Overhead Rates In Proposal Letter	**Exhibit B-11**
Cost Estimate to Drill and Complete	**Exhibit B-14**
Cost Estimate to Equip Well	**Exhibit B-14**
Cost Estimate for Production Facilities	**Exhibit B-14**
Geology	
Summary (including special considerations)	**Tab C**
Spacing Unit Schematic	**Exhibits C-3 through C-6**
Gunbarrel/Lateral Trajectory Schematic	**Exhibits C-3 through C-6**
Well Orientation (with rationale)	**Exhibit C-2**
Target Formation	**Exhibits C-3 through C-6**
HSU Cross Section	**Exhibits C-3 through C-6**
Depth Severance Discussion	**N/A**
Forms, Figures and Tables	
C-102	**Exhibit B-13**

Tracts	**Exhibit B-9**
Summary of Interests, Unit Recapitulation (Tracts)	**Exhibit B-9**
General Location Map (including basin)	**Exhibit C-1**
Well Bore Location Map	**Exhibit C-1**
Structure Contour Map - Subsea Depth	**Exhibits C-3 through C-6**
Cross Section Location Map (including wells)	**Exhibits C-3 through C-6**
Cross Section (including Landing Zone)	**Exhibits C-3 through C-6**
Additional Information	
Special Provisions/Stipulations	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	**Deana M. Bennett**
Signed Name (Attorney or Party Representative):	
Date:	**Thursday, March 17, 2022**

COMPULSORY POOLING APPLICATION CHECKLIST (pdf)

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 22315	**APPLICANT'S RESPONSE**
Date: March 24, 2022	
Applicant	**Cimarex Energy Co.**
Designated Operator & OGRID (affiliation if applicable)	**Cimarex Energy Co. (215099)**
Applicant's Counsel:	Modrall, Sperling, Roehl, Harris & Sisk, P.A. (Earl E. DeBrine, Jr., Deana M. Bennett, Jamie L. Allen & Bryce H. Smith)
Case Title:	Application of Cimarex Energy Co. for Compulsory Pooling, Lea County, New Mexico
Entries of Appearance/Intervenors:	**Devon Energy Production Company, L.P.** Michael H. Feldewert Adam G. Rankin Julia Broggi Kaitlyn A. Luck Holland & Hart, LLP Post Office Box 2208 Santa Fe, New Mexico 87504 TEL: (505) 988-4421 FAX: (505) 983-6043 mfeldewert@hollandhart.com agrankin@hollandhart.com jbroggi@hollandhart.com kaluck@hollandhart.com
	ConocoPhillips Ocean Munds-Dry Elizabeth Ryan ConocoPhillips 1048 Paseo de Peralta Santa Fe, New Mexico 87501 (505) 780-8000 (505) 428-0485 Facsimile Ocean.Munds-Dry@conocophillips.com Beth.Ryan@conocophillips.com
Well Family	Coriander
Formation/Pool	
Formation Name(s) or Vertical Extent:	**Avalon**
Primary Product (Oil or Gas):	**Oil**
Pooling this vertical extent:	**Avalon**
Pool Name and Pool Code:	**Diamondtail; Bone Spring (17644)**

EXHIBIT tabbies 4-3

Well Location Setback Rules:	**Statewide**
Spacing Unit Size:	**640 acres**
Spacing Unit	
Type (Horizontal/Vertical)	**Horizontal**
Size (Acres)	**640 acres**
Building Blocks:	**40 acres**
Orientation:	**North-South**
Description: TRS/County	**W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico**
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	**Y**
Other Situations	
Depth Severance: Y/N. If yes, description	**None**
Proximity Tracts: If yes, description	**Yes**
Proximity Defining Well: if yes, description	**Coriander 1-12 Fed Com 19H**
Applicant's Ownership in Each Tract	**Exhibit X.**
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	**See Exhibit B-13. See also Tab B, Declarataion of Kelsi Henriques.**
Well #1	**Coriander 1-12 Fed Com 19H** API No.: TBD SHL: 250 feet from the North line and 2,558 feet from the East line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 1,647 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Avalon Formation at approximately 9,700' TVD. Well Orientation: North-South Completion Location: Expected to be standard. **See Exhibit B-13 for C102s.**
Well #2	**Coriander 1-12 Fed Com 29H** API No.: TBD SHL: 250 feet from the North line and 873 feet from the West line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 981 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Avalon Formation at approximately 9,700' TVD. Well Orientation: North-South Completion Location: Expected to be standard. **See Exhibit B-13 for C102s.**

Well #3	**Coriander 1-12 Fed Com 30H** API No.: TBD SHL: 250 feet from the North line and 853 feet from the West line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 330 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Avalon Formation at approximately 9,700' TVD. Well Orientation: North-South Completion Location: Expected to be standard. **See Exhibit B-13 for C102s.**
Horizontal Well First and Last Take Points	**See Exhibit B-13 for C102s.**
Well #1	**Coriander 1-12 Fed Com 19H** FTP: 250 feet from the North line and 1,637 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 1,647 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Well #2	**Coriander 1-12 Fed Com 29H** FTP: 250 feet from the North line and 981 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 981 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Well #3	**Coriander 1-12 Fed Com 30H** FTP: 250 feet from the North line and 330 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 330 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Completion Target (Formation, TVD and MD)	**See Exhibits B-13 and B-14.**
Well #1	**Coriander 1-12 Fed Com 19H** Formation: Avalon TVD: 9,700' MD: 19,700'
Well #2	**Coriander 1-12 Fed Com 29H** Formation: Avalon TVD: 9,700' MD: 19,700'
Well #3	**Coriander 1-12 Fed Com 30H** Formation: Avalon TVD: 9,700' MD: 19,700'

AFE Capex and Operating Costs	
Drilling Supervision/Month $	**$8,000/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Production Supervision/Month $	**$800/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Justification for Supervision Costs	**See Tab B, Declaration of Kelsi Henriques, ¶ 50.**
Requested Risk Charge	**200%. See Tab B, Declaration of Kelsi Henriques, ¶ 51.**
Notice of Hearing	
Proposed Notice of Hearing	**Exhibit B-16**
Proof of Mailed Notice of Hearing (20 days before hearing)	**Exhibit B-16**
Proof of Published Notice of Hearing (10 days before hearing)	**Exhibit B-16**
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	**Exhibits B-2 and B-6**
Tract List (including lease numbers and owners)	**Exhibit B-9**
Pooled Parties (including ownership type)	**Exhibit B-10**
Unlocatable Parties to be Pooled	**N/A**
Ownership Depth Severance (including percentage above & belo	**N/A**
Joinder	
Sample Copy of Proposal Letter	**Exhibit B-11**
List of Interest Owners (ie Exhibit A of JOA)	**Exhibit B-10**
Chronology of Contact with Non-Joined Working Interests	**Exhibit B-15**
Overhead Rates In Proposal Letter	**Exhibit B-11**
Cost Estimate to Drill and Complete	**Exhibit B-14**
Cost Estimate to Equip Well	**Exhibit B-14**
Cost Estimate for Production Facilities	**Exhibit B-14**
Geology	
Summary (including special considerations)	**Tab C**
Spacing Unit Schematic	**Exhibits C-3 through C-6**
Gunbarrel/Lateral Trajectory Schematic	**Exhibits C-3 through C-6**
Well Orientation (with rationale)	**Exhibit C-2**
Target Formation	**Exhibits C-3 through C-6**
HSU Cross Section	**Exhibits C-3 through C-6**
Depth Severance Discussion	**N/A**
Forms, Figures and Tables	
C-102	**Exhibit B-13**
Tracts	**Exhibit B-9**
Summary of Interests, Unit Recapitulation (Tracts)	**Exhibit B-9**
General Location Map (including basin)	**Exhibit C-1**

Well Bore Location Map	**Exhibit C-1**
Structure Contour Map - Subsea Depth	**Exhibits C-3 through C-6**
Cross Section Location Map (including wells)	**Exhibits C-3 through C-6**
Cross Section (including Landing Zone)	**Exhibits C-3 through C-6**
Additional Information	
Special Provisions/Stipulations	**N/A**
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	**Deana M. Bennett**
Signed Name (Attorney or Party Representative):	
Date:	**Thursday, March 17, 2022**

COMPULSORY POOLING APPLICATION CHECKLIST (pdf)

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 22316	**APPLICANT'S RESPONSE**
Date: March 24, 2022	
Applicant	**Cimarex Energy Co.**
Designated Operator & OGRID (affiliation if applicable)	**Cimarex Energy Co. (215099)**
Applicant's Counsel:	**Modrall, Sperling, Roehl, Harris & Sisk, P.A. (Earl E. DeBrine, Jr., Deana M. Bennett, Jamie L. Allen & Bryce H. Smith)**
Case Title:	**Application of Cimarex Energy Co. for Compulsory Pooling, Lea County, New Mexico**
Entries of Appearance/Intervenors:	**Devon Energy Production Company, L.P.** Michael H. Feldewert Adam G. Rankin Julia Broggi Kaitlyn A. Luck Holland & Hart, LLP Post Office Box 2208 Santa Fe, New Mexico 87504 TEL: (505) 988-4421 FAX: (505) 983-6043 mfeldewert@hollandhart.com agrankin@hollandhart.com jbroggi@hollandhart.com kaluck@hollandhart.com
	ConocoPhillips Ocean Munds-Dry Elizabeth Ryan ConocoPhillips 1048 Paseo de Peralta Santa Fe, New Mexico 87501 (505) 780-8000 (505) 428-0485 Facsimile Ocean.Munds-Dry@conocophillips.com Beth.Ryan@conocophillips.com
Well Family	**Coriander**
Formation/Pool	
Formation Name(s) or Vertical Extent:	**Wolfcamp**
Primary Product (Oil or Gas):	**Oil**
Pooling this vertical extent:	**Wolfcamp**
Pool Name and Pool Code:	**Wolfcamp**

EXHIBIT A-4

Well Location Setback Rules:	**WC-025 G-09 S223332A; UPR Wolfcamp**
Spacing Unit Size:	**320 acres**
Spacing Unit	
Type (Horizontal/Vertical)	**Horizontal**
Size (Acres)	**320 acres**
Building Blocks:	**40 acres**
Orientation:	**North-South**
Description: TRS/County	**E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico**
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	**Y**
Other Situations	
Depth Severance: Y/N. If yes, description	**None**
Proximity Tracts: If yes, description	**N/A**
Proximity Defining Well: if yes, description	**N/A**
Applicant's Ownership in Each Tract	**See Exhibits B-2, B-6, and B-9. See also Tab B, Declarataion of Kelsi Henriques.**
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	**See Exhibit B-13. See also Tab B, Declarataion of Kelsi Henriques.**
Well #1	**Coriander 1-12 Fed Com 13H** API No.: TBD SHL: 370 feet from the North line and 2,557 feet from the East line, Section 1, Township 23 South, Range 32 East, NMPM, Lea County, NM. BHL: 100 feet from the South line and 1,664 feet from the West line, Section 12, Township 23 South, Range 32 East, NMPM, Lea County, NM. Completion Target: Wolfcamp Formation at approximately 12,525' TVD. Well Orientation: North-South Completion Location: Expected to be standard. See **See Exhibit B-13 for C102s.**
Horizontal Well First and Last Take Points	**See Exhibits B-13 and B-14.**
Well #1	**Coriander 1-12 Fed Com 13H** FTP: 370 feet from the North line and 1,654 feet from the West line of Section 1, Township 23 South, Range 32 East. LTP: 100 feet from the South line and 1,664 feet from the West line of Section 12, Township 23 South, Range 32 East. **See Exhibit B-13.**
Completion Target (Formation, TVD and MD)	**See Exhibits B-13 and B-14.**

Well #1	**Coriander 1-12 Fed Com 13H** Formation: Wolfcamp TVD: 12,525' MD: 22,525'
AFE Capex and Operating Costs	
Drilling Supervision/Month $	**$8,000/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Production Supervision/Month $	**$800/month. See Tab B, Declaration of Kelsi Henriques, ¶ 50; see also Exhibit B-11.**
Justification for Supervision Costs	**See Tab B, Declaration of Kelsi Henriques, ¶ 50.**
Requested Risk Charge	**200%. See Tab B, Declaration of Kelsi Henriques, ¶ 51.**
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Unlocatable Parties to be Pooled	**N/A**
Ownership Depth Severance (including percentage above & belo	**N/A**
Joinder	
Sample Copy of Proposal Letter	**Exhibit B-11**
List of Interest Owners (ie Exhibit A of JOA)	**Exhibit B-10**
Chronology of Contact with Non-Joined Working Interests	**Exhibit B-15**
Overhead Rates In Proposal Letter	**Exhibit B-11**
Cost Estimate to Drill and Complete	**Exhibit B-14**
Cost Estimate to Equip Well	**Exhibit B-14**
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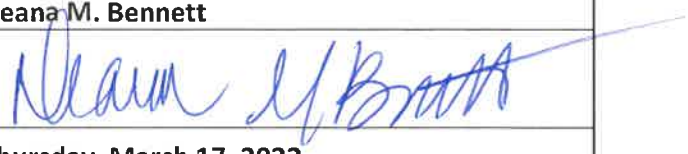
Gunbarrel/Lateral Trajectory Schematic	**Exhibits C-3 through C-6**
Well Orientation (with rationale)	**Exhibit C-2**
Target Formation	**Exhibits C-3 through C-6**
HSU Cross Section	**Exhibits C-3 through C-6**
Depth Severance Discussion	**N/A**
Forms, Figures and Tables	
C-102	**Exhibit B-13**

Tracts	**Exhibit B-9**
Summary of Interests, Unit Recapitulation (Tracts)	**Exhibit B-9**
General Location Map (including basin)	**Exhibit C-1**
Well Bore Location Map	**Exhibit C-1**
Structure Contour Map - Subsea Depth	**Exhibits C-3 through C-6**
Cross Section Location Map (including wells)	**Exhibits C-3 through C-6**
Cross Section (including Landing Zone)	**Exhibits C-3 through C-6**
Additional Information	
Special Provisions/Stipulations	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	**Deana M. Bennett**
Signed Name (Attorney or Party Representative):	
Date:	**Thursday, March 17, 2022**

LAND

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

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

Case Nos. 22313-22316

APPLICATION OF DEVON ENERGY PRODUCTION COMPANY, L.P. FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

Case Nos. 22179-22180 & 22382

AFFIDAVIT OF KELSI HENRIQUES

Kelsi Henriques, being duly sworn, deposes and states:

BACKGROUND

1. I am a landman for Cimarex Energy Co. ("Cimarex"), over the age of 18, and have personal knowledge of the matters stated herein.

2. I have testified before the New Mexico Oil Conservation Division (the "Division") via affidavit and my credentials were accepted as a matter of record.

3. I attended the University of Tulsa where I received a bachelor's degree in Energy Management with a double concentration of Upstream and Midstream, and a minor in Finance. I graduated Cum Laude in May 2017.

4. I have worked as a Landman since June 2017. My experience in land matters dates back to September 2014. I worked as a Land Intern at Triple Crown Energy, LLC from September 2014 to May 2015. I also worked as a Land Intern at Concho Resources during the summers of 2014, 2015, and 2016, which included working on land matters within the Permian Basin in New Mexico. I first worked as a Landman for Concho Resources from June 2017 to October 2020. I have now worked as a Landman for Cimarex Energy Co. since November 2020. I have also been

a Registered Professional Landman with the American Association of Professional Landmen since December 2019.

5. My work for Cimarex includes the Delaware Basin and Lea County. I am involved in title, ownership, and leasing. I also work with our exploration team to consolidate Cimarex's leasehold positions and negotiate agreements to enhance Cimarex's operating position.

6. I am familiar with the applications filed by Cimarex in Case Numbers 22313–22316 and with the applications filed by Devon Energy Production Company, L.P. ("Devon") in Case Numbers 22179–22180, and 22382 and the land matters involved.

7. The purpose of my testimony is to demonstrate, from a land perspective, why Cimarex's development plan for Sections 1 and 12 is more desirable than Devon's plan for Sections 24, 13, and 12. In addition, I will explain the history of Cimarex's discussions with Devon and Cimarex's efforts to resolve the competing development plans.

8. There are three primary reasons, from a land perspective, that Cimarex's plan is more desirable than Devon's. First, as I will discuss in more detail, Cimarex is the majority interest owner in its proposed units and the acreage that will be pooled by Devon or Cimarex under either plan is roughly the same. Second, given the ownership division, Cimarex's plan protects correlative rights and allows both Cimarex and Devon to develop their own acreage with two-mile wells. Finally, Cimarex has proven its competence as a prudent operator in this acreage as it has successfully developed four wells in the E/2 of Sections 1 and 12 while Devon has no existing wells in Sections 24, 13, and 12. Simply put, developing the W/2 of Section 12 is part and parcel of Cimarex's overall development plan in this area and therefore presents less risk as Cimarex has demonstrated its experience as a prudent operator in this area.

FACTUAL SUPPORT

9. Pursuant to NMAC 19.15.4.12.A(1), the following information is submitted in support of the above referenced compulsory pooling applications filed by Cimarex.

10. In these four cases, Cimarex is seeking orders from the Division for compulsory pooling of interest owners who have refused to voluntarily pool their interests for the proposed Bone Spring, Wolfcamp, and Avalon horizontal spacing units described below, and in the wells to be drilled in the horizontal spacing units. Cimarex also is requesting that it be designated operator of the wells and that the Division deny Devon's competing pooling applications.

11. Cimarex proposes to complete seven Bone Spring wells, three Avalon wells, and two Wolfcamp wells (total of twelve wells) in the W/2 of Sections 1 and 12. Cimarex's proposed wells are each 2-mile wells.

12. Devon proposes to complete six Bone Spring wells and four Wolfcamp wells (total of ten wells) in the W/2 of Sections 12, 13, and 24. Devon's proposed wells are 3-mile wells, with the exception of the Sneaky Snake 24-13 Fed Com 12H which was proposed as a 2-mile well.

13. **Exhibit B-1** provides a comparison of the competing Cimarex and Devon proposals. As you can see from Exhibit B-1, the W/2 of Section 12 is the only area where Cimarex and Devon's proposals overlap. Exhibit B-1 also demonstrates that, if the Division adopts Cimarex's proposal, each party could immediately develop its own acreage with two-mile wells, rather than under Devon's proposal, where Devon unfairly gets the advantage of developing three-mile wells, and Cimarex's acreage in the W/2 of Section 1 is inequitably restricted to the development of one-mile wells only. Under Devon's proposal, development of Section 1 would be indefinitely delayed because one-mile wells are no-longer the industry standard in the Permian

Basin nor are they prioritized in Cimarex's current drilling schedule. Due to the uncertain regulatory environment going forward, this acreage will be in a position of being *de facto* stranded.

14. **Exhibit B-2** provides an overview of ownership of the development area encompassed by Cimarex's development plan. As you can see from Exhibit B-2, Cimarex owns 100% of the working interest in the W/2 of Section 1, as well as 100% of the working interest in the E/2 of Section 1 and 50% in the E/2 of Section 12. Devon and Conoco each currently own 50% of the working interest in the W/2 of Section 12. However, Cimarex is in discussions with Conoco, which would result in Cimarex acquiring 84% of Conoco's 50% working interest in the SW/4 of Section 12. **Exhibit B-3** is a letter from Conoco confirming that Conoco and Cimarex are in trade discussions regarding that acreage. Lastly, Exhibit B-2 shows that Cimarex owns 100% of the working interest in the NE/4 NW/4 of Section 13.

15. **Exhibits B-4 and B-5** show a comparison of Cimarex and Devon's competing development plans. As shown on those exhibits, Cimarex's plan allows both parties to develop their own acreage with proven 2-mile wells and is the most efficient way to capture 21.1 MMBO—roughly 10% more than under Devon's plan. These exhibits also show that Cimarex's plan allows for uniformity of operatorship and utilizes existing surface facilities and in-place third-party contracts. Lastly, these exhibits demonstrate that under Devon's plan, significant barrels will be left in the ground because Devon is not targeting proven formations; namely, the First and Third Bone Spring Sand.

16. As shown on **Exhibit B-6**, as title currently stands, Cimarex has the majority ownership interest in its proposed units, as follows:

- Cimarex WI: 50%
- Conoco WI: 25%
- Devon WI: 25%

17. Assuming the Cimarex/Conoco trade is finalized, Cimarex will own 71% of the working interest in the unit area, with Devon holding only 25% and Conoco would hold a 4% working interest.

18. **Exhibit B-7** provides a gun-barrel view of Cimarex's development plan, alongside Devon's development plan.

19. **Exhibit B-8** provides a gun-barrel view of Cimarex's development plan alongside its E/2 planned and existing wells.

20. Attached as **Exhibit B-9** is a lease tract map outlining the tracts in the unit to be pooled and includes a list of the working interest owners and their respective percentage of interests.

21. Attached as **Exhibit B-10** is a summary of interests to be pooled.

22. Attached as **Exhibit B-11** is an example proposal letter for these wells. The proposal letter identifies the proposed surface hole location and bottom hole location, and the approximate TVD. It also contains separate elections for each well.

23. Below is a brief description of the facts supporting each of the compulsory pooling applications in Case Numbers 22313 through 22316.

24. **Case No. 22313**

a. In this case, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 12H; Coriander 1-12 Fed Com 16H; Coriander 1-12 Fed Com 18H; Coriander 1-12 Fed Com 25H; Coriander 1-12 Fed Com 27H; Coriander 1-12 Fed Com 28H; and Coriander 1-12 Fed Com 31H** wells, to be horizontally drilled. The **Coriander 1-12 Fed Com 31H** well was added to this application through an amended application. The Amended Application is attached as **Exhibit B-12.313**.

b. Attached as **Exhibit B-13.313** are the C-102s for the wells proposed in Case No. 22313. The wells will develop the Diamondtail; Bone Spring Pool (Pool Code 17644). The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 27H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit.

c. Attached as **Exhibit B-14.313** are the Authorization for Expenditures for the proposed wells. The estimated cost of the wells set forth therein range from $8,011,270 to $8,772,270. In my opinion, these estimated costs are fair and reasonable, and are comparable to the costs of other wells of similar depth, length and completion method being drilled in this area of New Mexico.

25. **Case No. 22314**

a. In this case, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 26H** well, to be horizontally drilled. The Application is attached hereto as **Exhibit B-12.314**

b. Attached as **Exhibit B-13.314** is the C-102 for the proposed well. The well will develop the WC-025 G-09 S223332A; UPR Wolfcamp Pool (Pool Code 98177). The producing interval for the well will be orthodox and comply with the Division's set back requirements.

c. Attached as **Exhibit B-14.314** is the Authorization for Expenditure for the proposed well. The estimated cost of the well, set forth therein is $8,785,200. In my opinion, the estimated cost is fair and reasonable, and is comparable to the costs of other wells of similar depth, length and completion method being drilled in this area of New Mexico.

26. **Case No. 22315**

a. In this case, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within an Avalon horizontal spacing unit underlying the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 19H; Coriander 1-12 Fed Com 29H; and Coriander 1-12 Fed Com 30H** wells, to be horizontally drilled. The Application is attached hereto as **Exhibit B-12.315**.

b. Attached as **Exhibit B-13.315** are the C-102s for the proposed wells. The wells will develop the Diamondtail; Bone Spring Pool (Pool Code 17644). The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 19H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit.

c. Attached as **Exhibit B-14.315** are the Authorization for Expenditures for the proposed wells. The estimated cost of the wells, set forth therein is $7,978,150. In my opinion, these estimated costs are fair and reasonable, and are comparable to the costs of other wells of similar depth, length and completion method being drilled in this area of New Mexico.

27. **Case No. 22316**

a. In this case, Cimarex seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 13H** well, to be horizontally drilled. The Application is attached hereto as **Exhibit B-12.316.**

b. Attached as **Exhibit-13.316** is the C-102 for the proposed well. The well will develop the WC-025 G-09 S223332A; UPR Wolfcamp Pool (Pool Code 98177). The producing interval for the well will be orthodox and comply with the Division's set back requirements.

c. Attached as **Exhibit B-14.316** is the Authorization for Expenditure for the proposed well. The estimated cost of the well, set forth therein is $8,785,200. In my opinion, this estimated cost is fair and reasonable, and is comparable to the costs of other wells of similar depth, length and completion method being drilled in this area of New Mexico.

28. There are no depth severances within the proposed Bone Spring, Wolfcamp, or Avalon spacing units.

EVALUATION

29. In this affidavit, I will explain why the Division should grant Cimarex's application, and deny Devon's competing applications, by applying the facts of these cases to the factors used by the Division in evaluating competing pooling applications.

30. Of the factors considered by the Division in evaluating competing pooling applications, my testimony focuses primarily on the mineral interest ownership, the surface factor and prevention of waste, which I discuss together, and the negotiations between the parties. Cimarex's other witnesses will address the remaining factors.

A. MINERAL INTEREST OWNERSHIP—CIMAREX HAS A HIGHER MINERAL INTEREST OWNERSHIP IN ITS PROPOSED UNITS THAN DEVON.

31. As shown on Exhibits B-2 and B-6, Cimarex currently owns the largest percentage in the working interest underlying its proposed units.

32. As title currently stands, Cimarex has the majority ownership interest in its proposed units, as follows:

- Cimarex: 50%
- Conoco: 25%
- Devon: 25%

33. Assuming the Cimarex/Conoco trade is finalized, Cimarex will own 71% of the working interest in the unit area, with Devon holding only 25% and Conoco would hold a 4% working interest. And, if the trade is finalized, Cimarex will own 67.1875% of Section 12, with Devon owning only 25% and Conoco owning 7.8125%, making Cimarex the clear majority WI in all of Sections 1 and 12.

34. To the extent Devon argues that it owns a higher percentage of the WI in its proposed HSU, this fact is misleading because under either proposal, the same acreage is being pooled. Cimarex owns 100% of the WI in the W/2 of Section 1. Devon owns, presumably, a substantial portion of the WI in Sections 13 and 24. What is central to this case is the acreage to be pooled in the W/2 of Section 12 (the "Overlapping Acreage"). However, Devon holds 50% WI in the W/2, and Cimarex will hold nearly 50% (post-COP trade). Additionally, Cimarex owns a

100% WI in the NE/4 of the NW/4 of Section 13, which Devon has to pool.[1] Therefore, even if Devon owns a higher percentage of the WI in its proposed HSU (simply because it is bigger), that fact does not tip the ownership factor in its favor because Devon has to pool the same or more acreage than does Cimarex and because Cimarex will hold the majority WI in Sections 1 and 12.

B. THE SURFACE FACTOR AND THE AVOIDANCE OF WASTE FACTOR

35. A reasonable outcome of these competing cases is to allow Cimarex and Devon to each develop their acreage with two-mile wells. This has the benefit of allowing each party to develop its acreage, with limited exceptions applicable to both parties.

36. In addition to allowing both parties to develop their acreage, this scenario avoids the possibility of *de facto* stranding.

37. Under Devon's proposal, Devon would be permitted to drill three-mile wells covering the W/2 of Sections 12, 13, and 24 and leave Cimarex to drill one-mile wells in the W/2 of Section 1. Devon's development plan would have one of two results. First, adopting Devon's plan could delay development in Section 1 because Cimarex does not have plans to develop one-mile wells at this time. Under the worst case scenario, Devon's restriction of Cimarex to 1-mile wells would *de facto* strand Cimarex's W/2 acreage in Section 1 because it would be uneconomical for Cimarex or any other operator to drill one-mile wells in this acreage. This risk is unjustified given the fact that under Cimarex's proposal, all of the acreage at issue could be developed immediately using 2-mile wells. Devon's plan on the other hand would result in waste and essentially eliminate Cimarex's correlative rights in the W/2 of Section 1.

[1] Under Devon's newly proposed single 960-acre unit, the breakdown is now 4.1667%, whereas before it was 8.3333% in a 480-acre unit, which seems to have the affect and intent of diluting Cimarex's interest.

38. The *de facto* stranding of reserves in the W/2 of Section 1 is especially undesirable given that Cimarex has developed the E/2 of Sections 1 and 12 using 2-mile wells and intends to develop the W/2 in a similar fashion.

39. Devon's plan would not prevent any surface waste because if Cimarex or another operator did decide to drill one-mile wells in Section 1, it would have to build the same surface facilities as it would if it could drill two-mile wells covering Sections 1 and 12.

40. Cimarex's development plan presents relatively low risk and protects the parties' correlative rights. Under its plan, Cimarex will develop its acreage in Sections 1 and adjacent Section 12 using two-mile wells. Under the Cimarex plan, Devon could still develop its acreage in Sections 13 and 24 using two-mile wells. Therefore, there is very little risk that any of the minerals underlying this acreage would go undeveloped because both parties would utilize proven drilling methods that are standard in the industry.

41. Put simply, Cimarex's proposal gives both parties the opportunity to economically develop their acreage without the risk of leaving significant acreage undeveloped. Cimarex's proposal is fair and equitable to both parties and dramatically reduces the risk that any acreage in the subject lands would go undeveloped.

C. A REVIEW OF GOOD FAITH NEGOTIATIONS.

42. Prior to filing its applications, Cimarex made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells. To locate interest owners, Cimarex conducted a diligent search of the public records in the county where the wells will be located, and conducted phone directory and computer searches to locate contact information for parties entitled to notification. I mailed all working interest owners well proposals and an Authorization for Expenditure, and a form of Operating Agreement upon request.

43. Cimarex sent its well proposal letters to the working interests owners in March and July of 2021.

44. **Exhibit B-15** is a summary of Cimarex's communications with working interest owners, including Devon.

45. In my opinion, Cimarex negotiated in good faith with Devon. Conversely, Devon's offers became progressively worse for Cimarex. From our perspective, Devon increasingly asked for more value to be received on their end while giving up nothing additional to Cimarex. In my opinion, Devon's negotiations were not in good faith.

46. As shown on **Exhibit B-16**, Cimarex, through counsel, notified all necessary parties of its applications for compulsory pooling as required by the Division's rules.

47. Cimarex discussed its development plans with Devon, including a number of potential trades but none of them have worked out to date.

48. In my opinion, Cimarex negotiated with Devon and the other working interest owners in good faith. On the other hand, Devon did not negotiate with Cimarex and the other working interest owners in good faith.

SUMMARY AND REQUEST FOR RELIEF

49. Based upon my knowledge of the land matters involved in these cases, education and training, it is my expert opinion that Cimarex's development plan will protect correlative rights and prevent waste by providing the best opportunity for each operator to operate its own acreage. On the other hand, Devon's development plan will not protect correlative rights nor prevent waste.

50. Cimarex requests overhead and administrative rates of $8,000/month during drilling and $800/month while producing. These rates are fair and comparable to the rates charged by other operators for wells of this type in this area of Southeastern, New Mexico and consistent

with the rates awarded by the Division in in recent compulsory pooling orders. Cimarex requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

51. Cimarex requests the maximum cost plus 200% risk charge be assessed against non-consenting pooled working interest owners.

52. Cimarex requests that it be designated operator of the wells.

53. The parties Cimarex is seeking to pool were notified of this hearing.

54. Cimarex requests that overriding royalty interest owners be pooled.

55. A copy of my resume is included as **Exhibit E-1**.

56. The attachments to my Affidavit were prepared by me or compiled from company business records.

FURTHER AFFIANT SAYETH NOT.

Kelsi Henriques

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

SUBSCRIBED AND SWORN to before me this 11th day of March 2022 by Kelsi Henriques.

Notary Public
My commission expires: 3/26/2023

SEAL

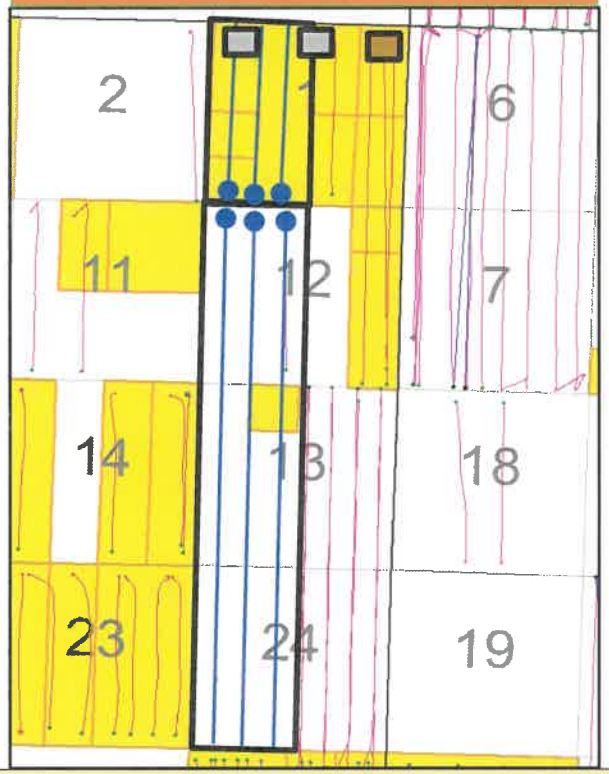
KAIMI BROWNLEE
Notary Public, State of Texas
Comm. Expires 03-26-2023
Notary ID 126052368

Outcome Comparison: Cimarex's Proposal Maximizes Reserves in the Near Term, Protects Correlative Rights, and Prevents Waste

Cimarex Proposal: Each Operator Develops Two Sections

- ✓ 2 mile development in two 640 units—less risk.
- ✓ All parties enjoy timely development.
- ✓ Economics support Wolfcamp development over the next two years for both companies.
- ✓ First and Third Bone Spring targeted in two of four sections—increases production and prevents waste.

Devon Proposal: Devon Develops Three Sections and Leaves Cimarex With One



- ✗ 3 mile development of 960 acres & 1 mile development of 320 acres—more risk.
- ✗ 1 mile economics won't compete with Cimarex 2 mile inventory; delays spud to 2029 which could strand barrels
- ✗ Risk of 3-mile Wolfcamp in this area low performance stranding reserves.
- ✗ First and Third Bone Spring not targeted over three sections—stranding reserves.

EXHIBIT
tabbies
B-1

Overview of Competing Applications.

= Cimarex's current acreage = Cimarex staked pad = Cimarex existing pad

Cimarex Development Plan:
- Includes W/2 of Sections 1 and 12
- Cimarex 100% WI in W/2 of Section 1
- Two-mile wells
- Cimarex 100% WI and operator of E/2 of Sections 1; 50% WI and operator of E/2 of Section 12
- Cimarex has existing surface facilities

Overlapping Acreage:
- W/2 of Section 12
- Cimarex in negotiations with Conoco for 84% of Conoco's 50% WI
- Devon has 50% WI

Devon Proposed Development Plan:
- Includes W/2 of Sections 12, 13, and 24
- Three-mile wells
- Limits Cimarex to one-mile development in Section 1
- Cimarex owns 100% WI in NE/4 NW/4 of Section 13

EXHIBIT tabbies B-2

ConocoPhillips

Ryan Curry
Land Negotiator

ConocoPhillips Company
600 W. Illinois Ave
Midland, Texas 79701
Ryan.Curry@conocophillips.com

January 24, 2022

Cimarex Energy Co.
ATTN: Kelsi Henriques
600 N. Marienfeld Street-Suite 600
Midland, TX 79701

Re: Courtesy Informational Letter
NMOCD Case No: 22313, 22314, 22315, 22316

Ms. Henriques:

This letter is provided to Cimarex Energy Co. ("Cimarex") as an informational letter from ConocoPhillips Company ("COP") to provide notice to the New Mexico Oil and Gas Conservation Division ("NMOCD") regarding a tentative acreage trade whereby COP would be delivering certain acreage to Cimarex and/or its affiliate Coterra Energy Inc. that is involved in compulsory pooling case numbers 22313, 22314, 22315, and 22316.

Whereas Cimarex and COP (collectively the "Party or Parties") have tentatively agreed upon an acreage trade that involves delivering 110 net acres owned solely by COP in the SW/4 of Section 12, Township 23 South, Range 32 East, Lea County, New Mexico to Cimarex.

Whereas this letter should be used ONLY for informational purposes of providing notice to the NMOCD in the above captioned cases and any related cases and only insofar as to the information contained herein as it relates to NMOCD compulsory pooling case numbers 22313, 22314, 22315, and 22316 and related cases. This letter does not alter, change, or bind any previous written or oral agreements between the Parties and by no means obligates either Party to a binding acreage trade as mentioned in this letter.

Sincerely,

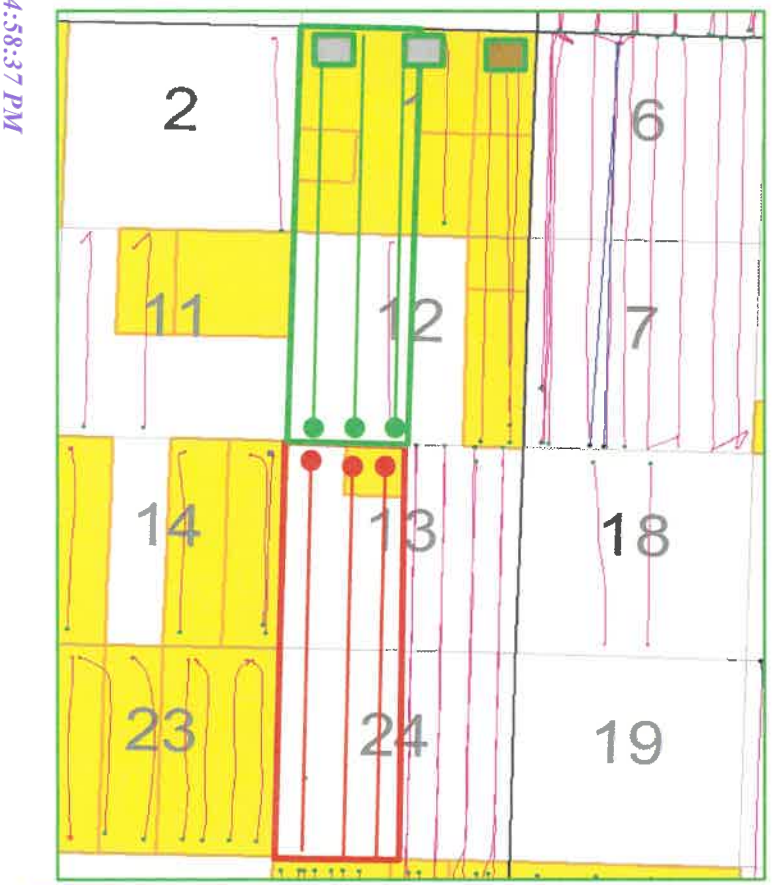
Ryan B Curry

Ryan Curry
Land Negotiator
ConocoPhillips Company

EXHIBIT
B-3
tabbies

Cimarex's Plan Allows Both Parties to Develop Proven Two-Mile Wells

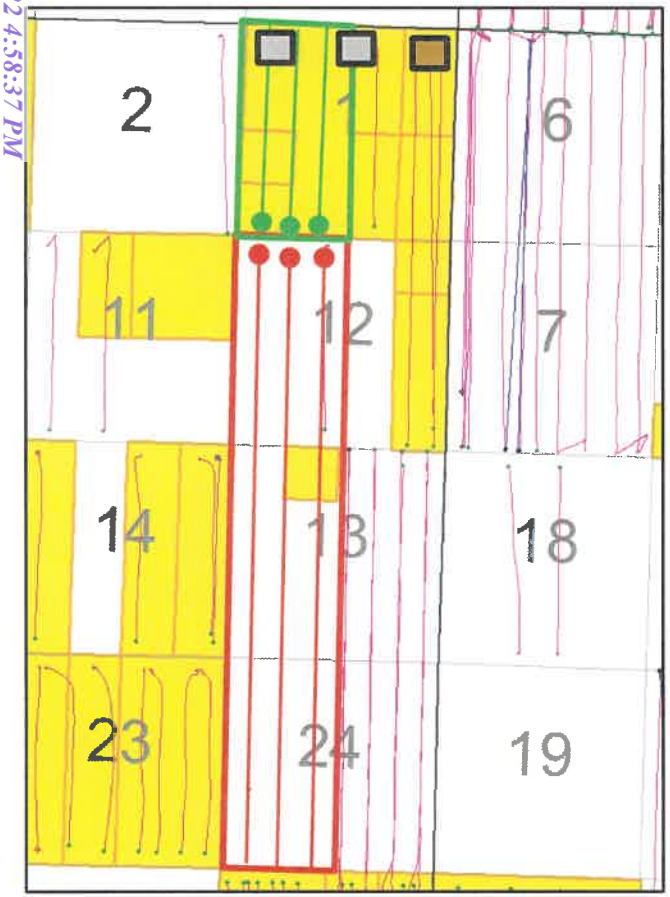
Cimarex's Plan—Each Operator Develops Proven Two-Mile Wells



- Less Risk: Allows both Cimarex and Devon to operate 2-mile wells
- Protects Correlative Rights: Allows both to develop acreage in which they hold controlling working interest
- Prevents Waste: Most efficient and effective way to capture 21.1 MMBO - roughly 10% more than Devon
- Allows for uniformity of operatorship across Sections 1 and 12, which has increased efficiencies from existing facilities and in-place third-party contracts

EXHIBIT
tabbies
B-4

Devon's Plan Creates Waste, Does Not Protect Correlative Rights, and Poses Risk



= Cimarex's current acreage = Cimarex staked pad = Cimarex existing pad

- Devon's plan includes Devon 3-mile wells, leaving Cimarex with 1-mile laterals only in W/2 of Section 1.
- Devon is not targeting proven formations—First Bone Spring Sand or Third Bone Spring Sand—Cimarex is.
- As a result, Devon is potentially leaving significant barrels in the ground in three sections.
- Three-mile wells present added risk in the Avalon and Wolfcamp in this area.

EXHIBIT
tabbies
B-5

Cimarex Has Majority WI in Its Proposed Units

Cimarex Coriander Development WI% - PRE-TRADE

- Cimarex WI: 50%
- Devon WI: 25%
- Conoco WI: 25%

Cimarex Coriander Development WI% - POST-TRADE

- Cimarex WI: 71%
- Devon WI: 25%
- Conoco WI: 4%

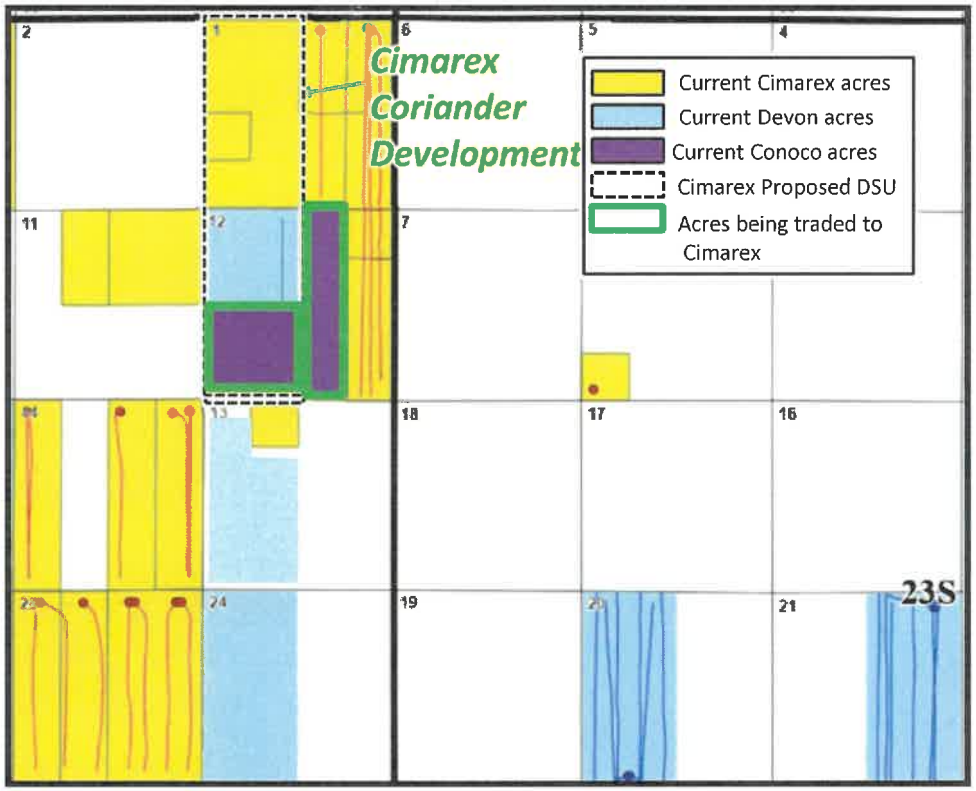


EXHIBIT
B-6

Development Plan Contrast: Cimarex targeting First and Third Bone Spring; Devon Isn't

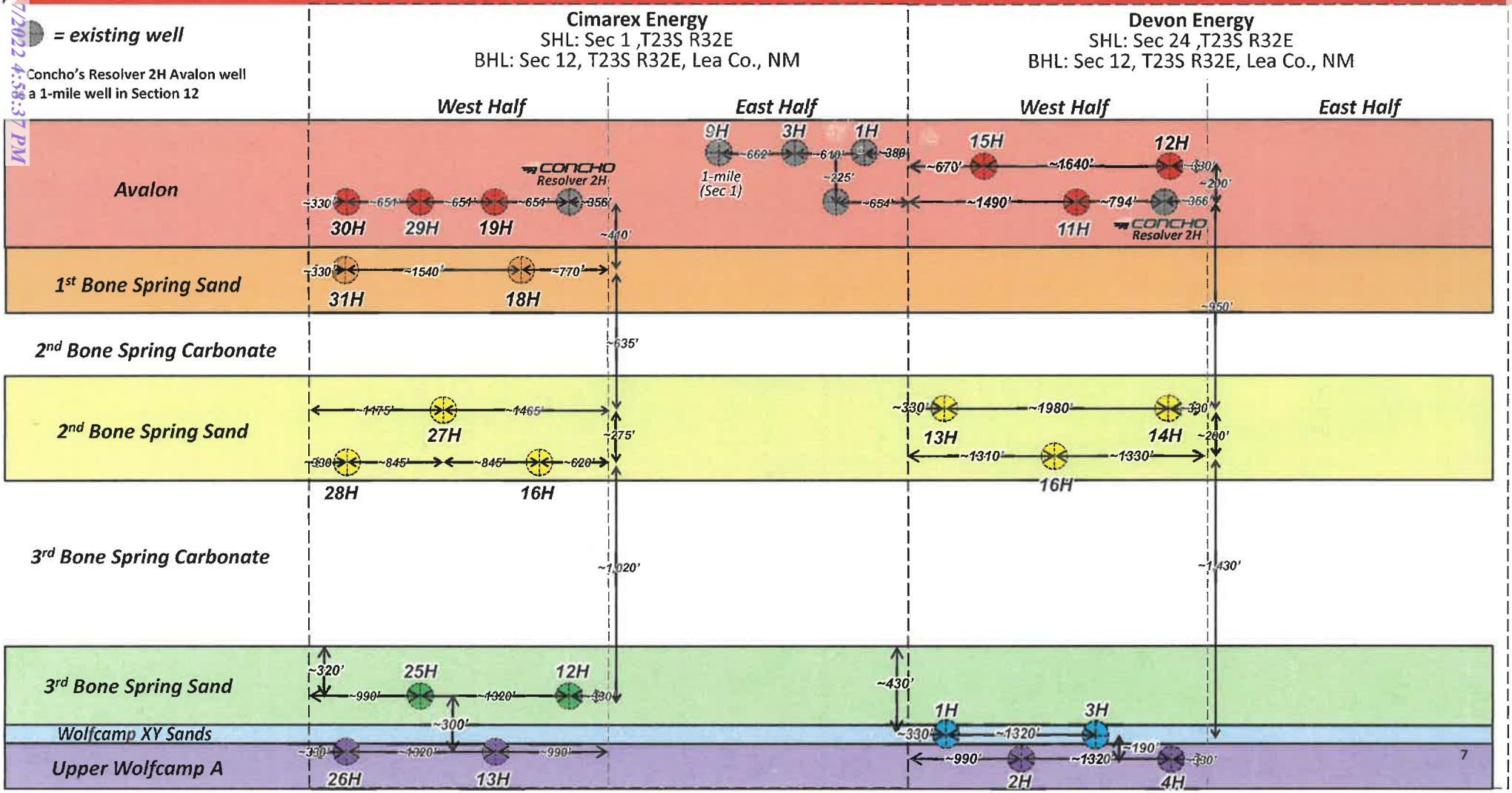
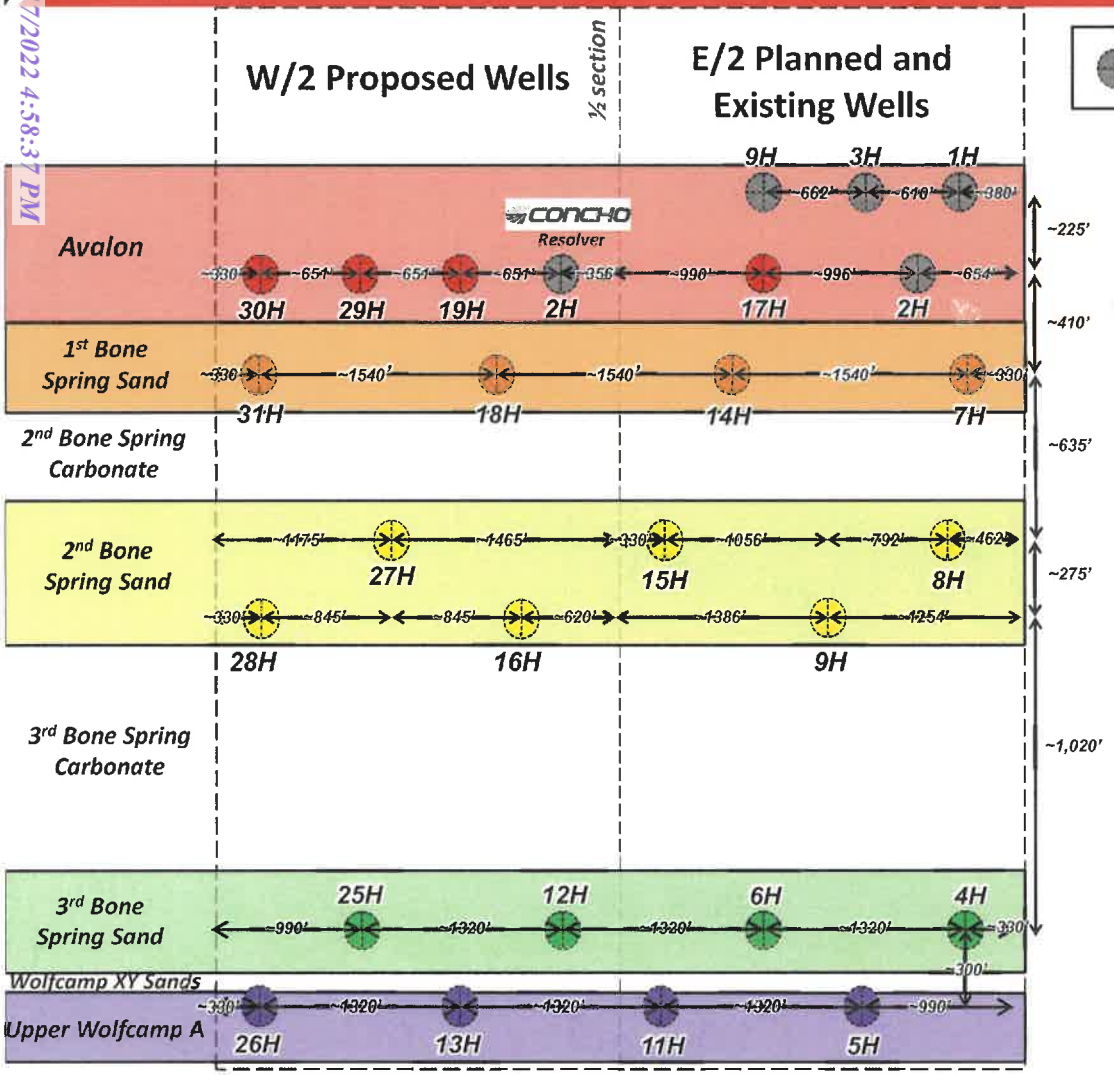


EXHIBIT
B-7

Cimarex's Coriander 1-12 Development Plan



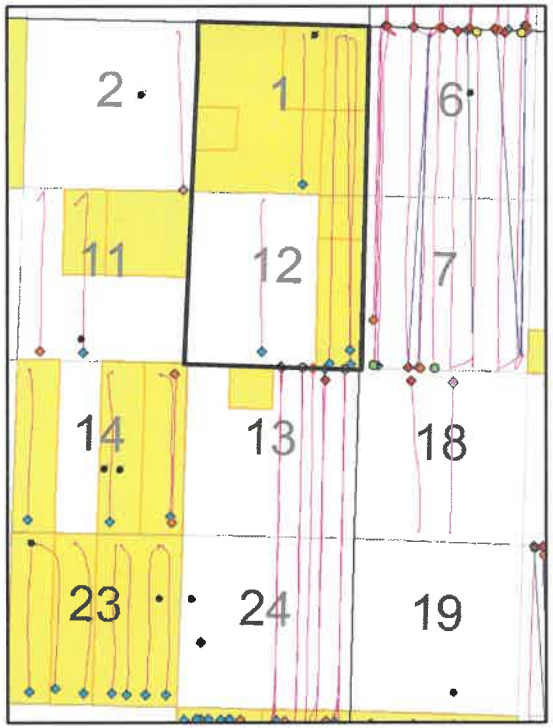


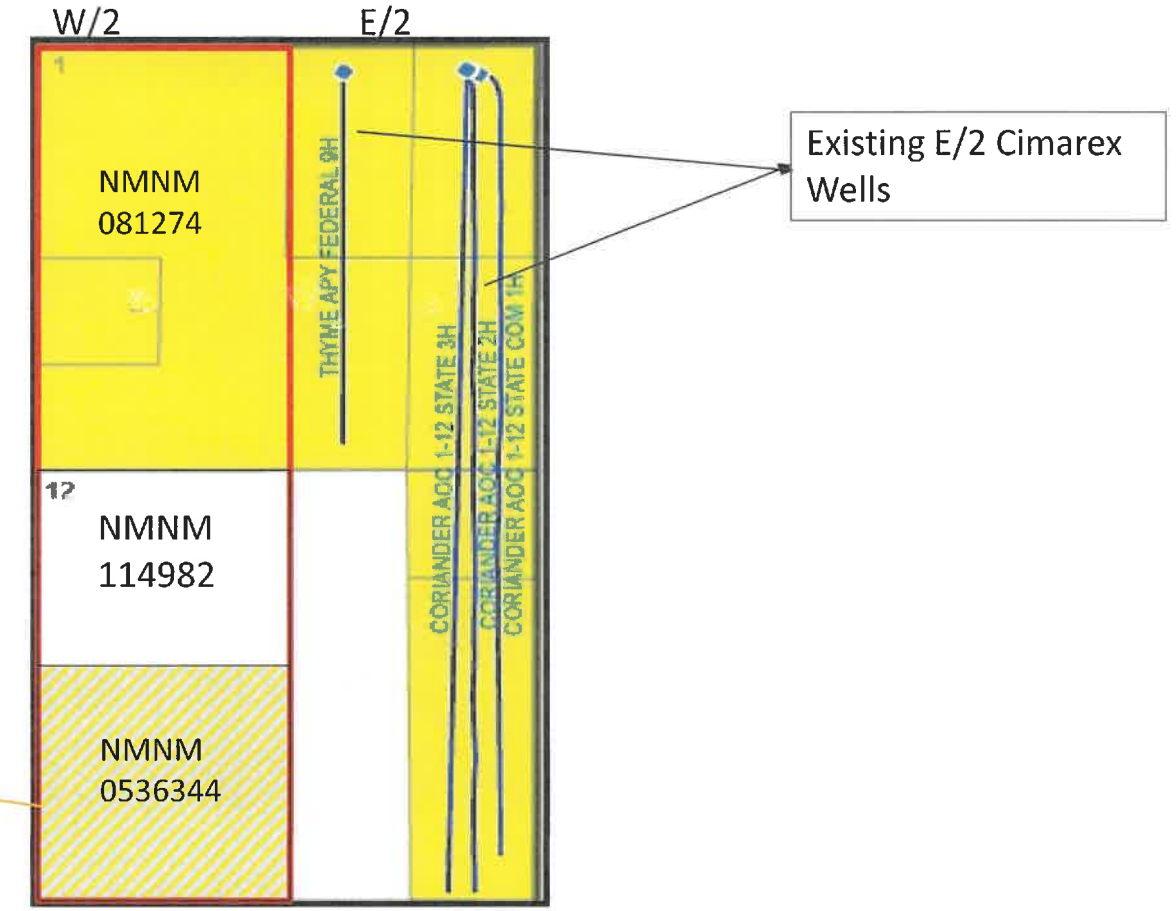
EXHIBIT
tabbies
B-8

X Tract Map/Ownership For Cimarex Coriander Units

NMNM 081274:
- Lots 1 & 2, S2NW &, & SW4 of Section 1, T23S-R32E
- 160 Acres
- Cimarex: 100%

NMNM 114982
- NW/4 of Section 12 T23S-R32E
- 160 Acres
- Devon 100%

NMNM 053644
- SW/4 of Section 12T23S-R32E
- 160 Acres
- Conoco/Concho 100%
- Trade tract with Conoco to Cimarex



EXHIBIT
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B-9

Parties to Be Pooled—Case Nos. 22313–22316	Interest Type
ConocoPhillips Company	WI
COG Operating LLC	WI
Devon Energy Production Company, L.P.	WI
Lime Rock Resources A, L.P.	ORRI
Lime Rock Resources B, L.P.	ORRI
Lime Rock Resources C, L.P.	ORRI

EXHIBIT
tabbies
B-10

March 18, 2021

COG Production LLC
Attn: Outside Operated Properties
600 W. Illinois Avenue
Midland, Texas 79701

Re: Proposal to Drill
Thyme & Coriander 1-12 Fed Com 6H, 12H-13H, 16H, 18H-19H & 25H-31H
W2 Sections 1 and 12, Township 23 South, Range 32 East
Lea County, NM

Dear Working Interest Owner,

Cimarex Energy Co., hereby proposes to drill Thyme & Coriander 1-12 Fed Com 4H-9H, 11H-19H & 25H-31H Wells at a legal location in Sections 1 and 12, Township 23 South, Range 32 East, Lea County, New Mexico.

Thyme & Coriander 1-12 Fed Com 6H - The intended surface hole location for the well is 270' FNL and 630' FEL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1650' FEL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,230' to the 3rd Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 12H - The intended surface hole location for the well is 370' FNL and 2,545' FEL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 2,310' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,230' to the 3rd Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 13H - The intended surface hole location for the well is 370' FNL and 2,565' FEL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,650' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertical0ly to a depth of approximately 12,525' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 16H - The intended surface hole location for the well is 310' FNL and 2,645' FEL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 2,020' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 11,030' to the 2nd Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 18H - The intended surface hole location for the well is 250' FNL and 2,545' FEL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,870' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 10,200' to the 1st[d] Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 19H - The intended surface hole location for the well is 250' FNL and 2,565' FEL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,632' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,700' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 25H - The intended surface hole location for the well is 370' FNL and 874' FWL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 990' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,230' to the 3rd Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 26H - The intended surface hole location for the well is 370' FNL and 854' FWL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 12,525' to the Wolfcamp formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 27H - The intended surface hole location for the well is 310' FNL and 814' FWL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 1,175' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 10,770' to the 2nd Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 28H - The intended surface hole location for the well is 310' FNL and 794' FWL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 11,030' to the 2nd Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 29H - The intended surface hole location for the well is 250' FWL and 874' FWL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 981' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,700' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 30H - The intended surface hole location for the well is 250' FWL and 854' FWL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 9,700' to the Avalon formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

Thyme & Coriander 1-12 Fed Com 31H - The intended surface hole location for the well is 250' FWL and 834' FWL of Section 1, Township 23 South, Range 32 East, and the intended bottom hole location is 100' FSL and 330' FWL of Section 12, Township 23 South, Range 32 East. The well is proposed to be drilled vertically to a depth of approximately 10,200' to the 1st Bone Spring formation and laterally in a southerly direction within the formation to the referenced bottom hole location.

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.

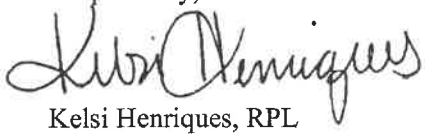
It should be understood that compliance with topography or cultural or environmental concerns, among others, might require modification of Cimarex's intended procedure. Cimarex will advise you of any such modifications.

Enclosed, in duplicate, is our detailed AFE reflecting estimated costs associated with this proposal. If you intend to participate, please approve and return one (1) original of the enclosed AFE, along with the contact information to receive your well data, to the undersigned within thirty (30) days of receipt of this proposal. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance to Cimarex prior to commencement of drilling operations; otherwise, you will be covered by insurance procured by Cimarex and will be responsible for your share of the cost.

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 wells.

Please call the undersigned with any questions or comments.

Respectfully,



Kelsi Henriques, RPL
432.571.7887
khenriques@cimarex.com

ELECTION TO PARTICIPATE
Thyme & Coriander 1-12 Fed Com 6H, 12H-13H, 16H, 18H-19H & 25H-31H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 6H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 6H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 12H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 12H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 13H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 13H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 16H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 16H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 18H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 18H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 19H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 19H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 25H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 25H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 26H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 26H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 27H
_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 27H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 28H

_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 28H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 29H

_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 29H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 30H

_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 30H

_____ COG Production LLC elects **TO** participate in the proposed Thyme & Coriander 1-12 Fed Com 31H

_____ COG Production LLC elects **NOT** to participate in the proposed Thyme & Coriander 1-12 Fed Com 31H

Dated this _____ day of _____ , 2021.

Signature: _____

Title: _____

If your election above is TO participate in the proposed Thyme & Coriander 1-12 Fed Com 4H-9H, 11H-19H & 25H-31H wells, then:

_____ COG Production LLC elects **TO** be covered by well control insurance procured by Cimarex Energy Co.

_____ COG Production LLC elects **NOT** to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations **or** be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.

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

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

CASE NO. 22313

AMENDED APPLICATION[1]

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby submits this *amended* application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this *amended* application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 640-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 12H; Coriander 1-12 Fed Com 16H; Coriander 1-12 Fed Com 18H; Coriander 1-12 Fed Com 25H; Coriander 1-12 Fed Com 27H; Coriander 1-12 Fed Com 28H, and Coriander 1-12 Fed Com 31H wells** to a depth sufficient to test the Bone Spring formation.

[1] Amended only to add the **Coriander 1-12 Fed Com 31H well** and to include updated hearing date of February 3, 2022.

4. The wells will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. The completed interval for the **Coriander 1-12 Fed Com 27H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed spacing unit.

6. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Bone Spring formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

7. The pooling of all interests in the Bone Spring formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on February 3, 2022, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Bone Spring formation underlying a horizontal spacing unit within the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the wells to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the wells;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

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

By: Deana M. Bennett

Earl E. DeBrine, Jr.
Deana M. Bennett
Jamie L. Allen
Post Office Box 2168
500 Fourth Street NW, Suite 1000
Albuquerque, New Mexico 87103-2168
Telephone: 505.848.1800
edebrine@modrall.com
dmb@modrall.com
jla@modrall.com
Attorneys for Applicant

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

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

CASE NO. 22314

APPLICATION

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 320-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 26H** well to a depth sufficient to test the Wolfcamp formation.

4. The well will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the well or to otherwise commit their interests to the well.

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

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on December 2, 2021, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the well to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the well;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted,

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

By: Deana M. Bennett

Earl E. DeBrine, Jr.
Deana M. Bennett
Jamie L. Allen
Post Office Box 2168
500 Fourth Street NW, Suite 1000
Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800
edebrine@modrall.com
dmb@modrall.com
jla@modrall.com
Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Lea County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 26H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 26H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

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

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

CASE NO. 22315

APPLICATION

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within an Avalon horizontal spacing unit underlying the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 640-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 19H; Coriander 1-12 Fed Com 29H; and Coriander 1-12 Fed Com 30H wells** to a depth sufficient to test the Avalon formation.

4. The wells will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. The completed interval for the **Coriander 1-12 Fed Com 19H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed spacing unit.

6. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Avalon formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

7. The pooling of all interests in the Avalon formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on December 2, 2021, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Avalon formation underlying a horizontal spacing unit within the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the wells to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the wells;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

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

By: Deana M. Bennett

Earl E. DeBrine, Jr.
Deana M. Bennett
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Telephone: 505.848.1800
edebrine@modrall.com
dmb@modrall.com
jla@modrall.com
Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Lea County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted interests within an Avalon horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 19H; Coriander 1-12 Fed Com 29H; and Coriander 1-12 Fed Com 30H wells** to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 19H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

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

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

CASE NO. 22316

APPLICATION

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 320-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 13H** well to a depth sufficient to test the Wolfcamp formation.

4. The well will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the well or to otherwise commit their interests to the well.

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

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on December 2, 2021, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the well to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the well;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted,

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

By: Deana M. Bennett

Earl E. DeBrine, Jr.
Deana M. Bennett
Jamie L. Allen
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Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800
edebrine@modrall.com
dmb@modrall.com
jla@modrall.com
Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Lea County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 13H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 13H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

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District III
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
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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

[1] API Number	[2] Pool Code	[3] Pool Name
	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	12H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3750.5'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	1	23S	32E		370	NORTH	2537	EAST	LEA

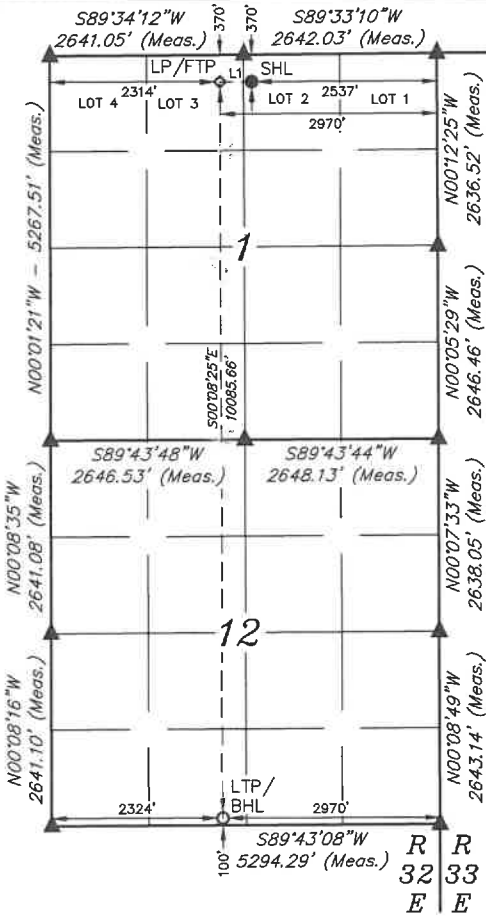
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	23S	32E		100	SOUTH	2324	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°33'57"W	432.73'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.07" (32.340019°)
LONGITUDE = 103°37'40.75" (103.627987°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'23.62" (32.339896°)
LONGITUDE = 103°37'39.01" (103.627503°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488148.23' E: 759178.02'
STATE PLANE NAD 27 (N.M. EAST)
N: 488088.23' E: 717995.06'

NAD 83 (LP/FTP)
LATITUDE = 32°20'24.05" (32.340013°)
LONGITUDE = 103°37'45.80" (103.629388°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'23.60" (32.339890°)
LONGITUDE = 103°37'44.05" (103.628904°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488143.14' E: 758745.39'
STATE PLANE NAD 27 (N.M. EAST)
N: 488083.13' E: 717562.44'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.26" (32.312295°)
LONGITUDE = 103°37'45.79" (103.629385°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.82" (32.312172°)
LONGITUDE = 103°37'44.05" (103.628902°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478059.47' E: 758812.43'
STATE PLANE NAD 27 (N.M. EAST)
N: 477999.76' E: 717629.21'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0 2000'

SCALE
DRAWN BY: M.D. 10-24-21

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

EXHIBIT
tabbies
B-13

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
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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

[1] API Number	[2] Pool Code	[3] Pool Name
	98177	WC-025 G-09 S223332A; UPR Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	13H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3750.3'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	1	23S	32E		370	NORTH	2557	EAST	LEA

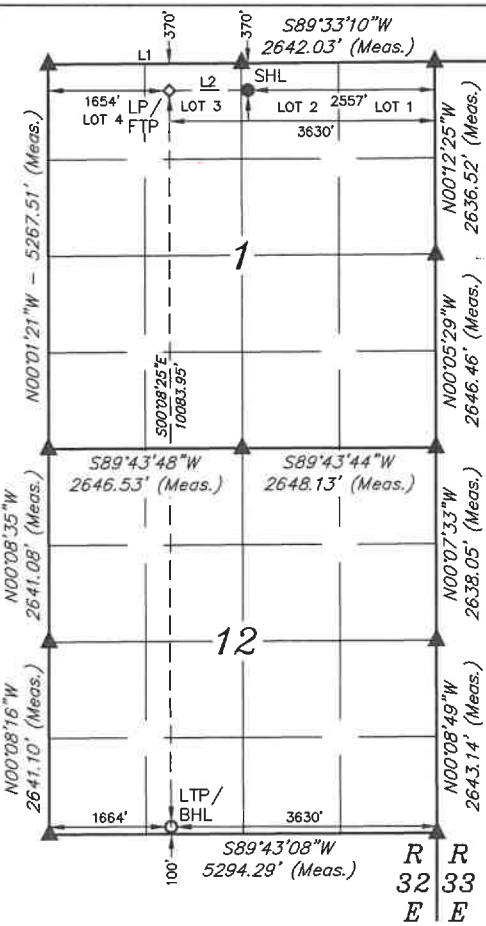
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	23S	32E		100	SOUTH	1664	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	S89°34'07"W	1072.74'

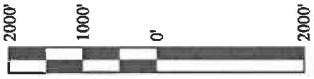
NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.07" (32.340019°)
LONGITUDE = 103°37'40.99" (103.628052°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'23.62" (32.339895°)
LONGITUDE = 103°37'39.24" (103.627568°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488147.99' E: 759158.02'
STATE PLANE NAD 27 (N.M. EAST)
N: 488087.99' E: 717975.06'

NAD 83 (LP/FTP)
LATITUDE = 32°20'24.01" (32.340004°)
LONGITUDE = 103°37'53.49" (103.631525°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'23.57" (32.339880°)
LONGITUDE = 103°37'51.74" (103.631040°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488135.41' E: 758085.55'
STATE PLANE NAD 27 (N.M. EAST)
N: 488075.41' E: 716902.59'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.25" (32.312290°)
LONGITUDE = 103°37'53.48" (103.631521°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.80" (32.312167°)
LONGITUDE = 103°37'51.74" (103.631038°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478053.46' E: 758152.57'
STATE PLANE NAD 27 (N.M. EAST)
N: 477993.75' E: 716969.36'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED



SCALE
DRAWN BY: M.D. 10-24-21

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	16H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3750.5'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	1	23S	32E		310	NORTH	2638	EAST	LEA

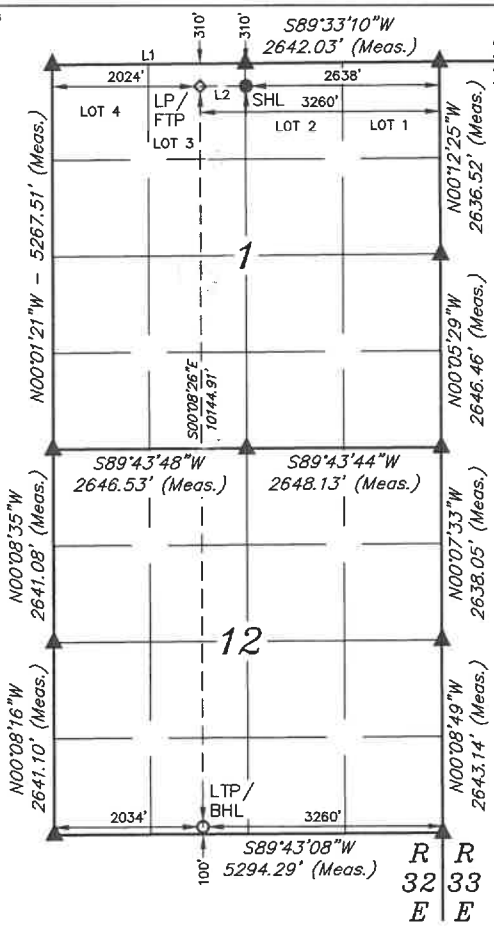
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	23S	32E		100	SOUTH	2034	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	S89°34'12"W	622.50'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.66" (32.340182°)
LONGITUDE = 103°37'41.92" (103.628312°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.21" (32.340059°)
LONGITUDE = 103°37'40.18" (103.627828°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488207.02' E: 759077.34'
STATE PLANE NAD 27 (N.M. EAST)
N: 488147.01' E: 717894.38'

NAD 83 (LP/FTP)
LATITUDE = 32°20'24.63" (32.340174°)
LONGITUDE = 103°37'49.18" (103.630327°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'24.18" (32.340050°)
LONGITUDE = 103°37'47.43" (103.629843°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488199.73' E: 758454.99'
STATE PLANE NAD 27 (N.M. EAST)
N: 488139.73' E: 717272.04'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.26" (32.312293°)
LONGITUDE = 103°37'49.17" (103.630324°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.81" (32.312170°)
LONGITUDE = 103°37'47.43" (103.629841°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478056.83' E: 758522.49'
STATE PLANE NAD 27 (N.M. EAST)
N: 477997.11' E: 717339.28'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0' 2000'

SCALE

DRAWN BY: M.D. 10-24-21

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 3, 2021

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

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Santa Fe, NM 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	18H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3752.0'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	1	23S	32E		250	NORTH	2538	EAST	LEA

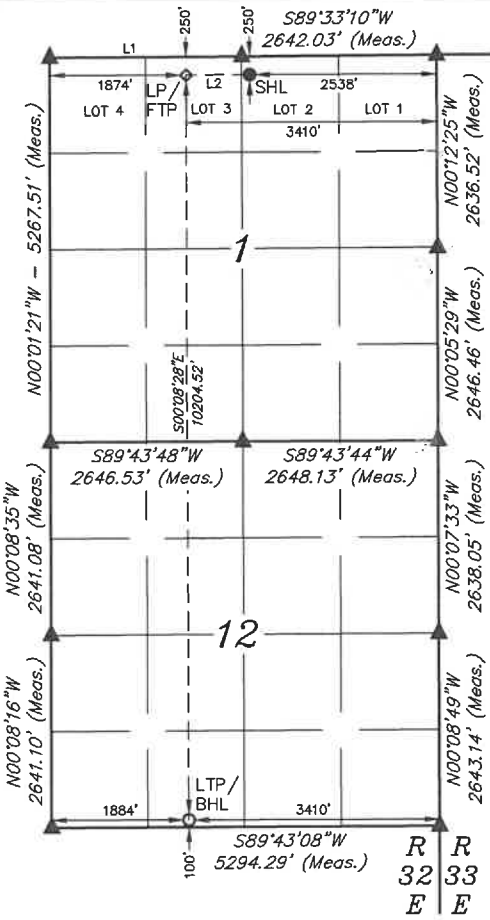
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	23S	32E		100	SOUTH	1884	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	S89°34'05"W	872.27'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'25.26" (32.340349°)
LONGITUDE = 103°37'40.76" (103.627989°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.81" (32.340226°)
LONGITUDE = 103°37'39.02" (103.627505°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488268.20' E: 759176.61'
STATE PLANE NAD 27 (N.M. EAST)
N: 488208.20' E: 717993.66'

NAD 83 (LP/FTP)
LATITUDE = 32°20'25.21" (32.340336°)
LONGITUDE = 103°37'50.93" (103.630813°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'24.77" (32.340213°)
LONGITUDE = 103°37'49.18" (103.630329°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488257.96' E: 758304.56'
STATE PLANE NAD 27 (N.M. EAST)
N: 488197.96' E: 717121.61'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.25" (32.312292°)
LONGITUDE = 103°37'50.91" (103.630809°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.81" (32.312169°)
LONGITUDE = 103°37'49.17" (103.630326°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478055.46' E: 758372.52'
STATE PLANE NAD 27 (N.M. EAST)
N: 477995.75' E: 717189.31'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0' 2000'
SCALE
DRAWN BY: M.D. 10-24-21

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
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Phone: (575) 748-1283 Fax: (575) 748-9720
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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

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	19H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3751.6'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	1	23S	32E		250	NORTH	2558	EAST	LEA

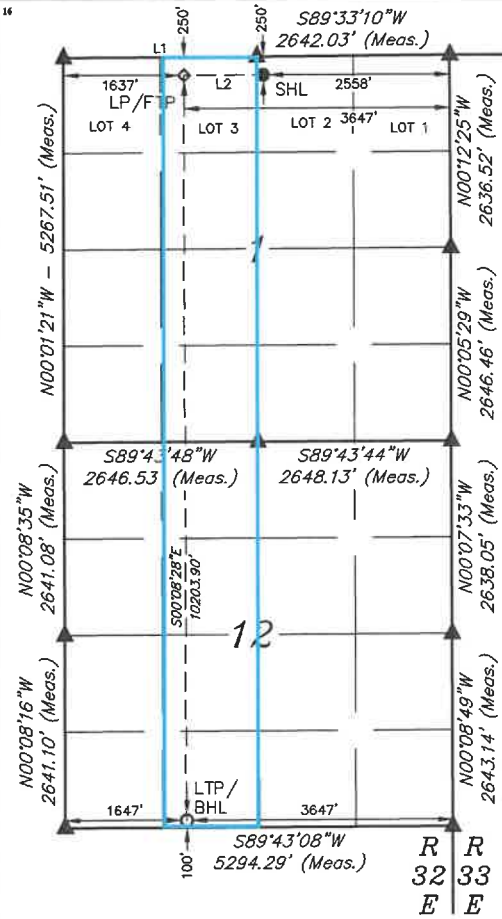
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	23S	32E		100	SOUTH	1647	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
319.75			

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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	S89°34'07"W	1089.27'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'25.25" (32.340349°)
LONGITUDE = 103°37'40.99" (103.628054°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.81" (32.340225°)
LONGITUDE = 103°37'39.25" (103.627570°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488267.96' E: 759156.62'
STATE PLANE NAD 27 (N.M. EAST)
N: 488207.96' E: 717973.66'

NAD 83 (LP/FTP)
LATITUDE = 32°20'25.20" (32.340333°)
LONGITUDE = 103°37'53.69" (103.631580°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'24.76" (32.340210°)
LONGITUDE = 103°37'51.94" (103.631096°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488255.19' E: 758067.62'
STATE PLANE NAD 27 (N.M. EAST)
N: 488195.18' E: 716884.66'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.25" (32.312290°)
LONGITUDE = 103°37'53.67" (103.631576°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.80" (32.312167°)
LONGITUDE = 103°37'51.93" (103.631093°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478053.31' E: 758135.57'
STATE PLANE NAD 27 (N.M. EAST)
N: 477993.59' E: 716952.36'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0' 2000'
SCALE
DRAWN BY: M.D. 10-24-21

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

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Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	25H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3734.3'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	23S	32E		370	NORTH	874	WEST	LEA

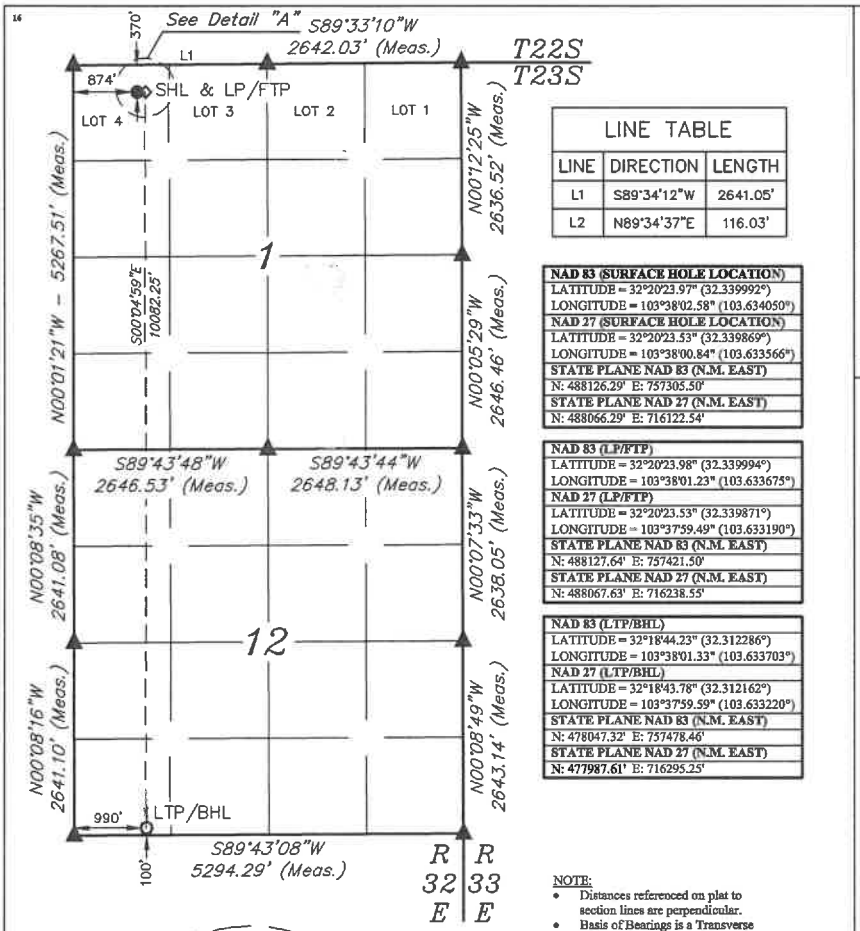
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	23S	32E		100	SOUTH	990	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.

[16]



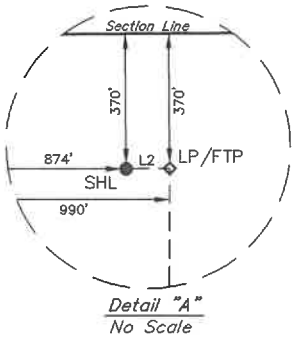
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	N89°34'37"E	116.03'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'23.97" (32.339992°)
LONGITUDE = 103°38'02.58" (103.634050°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'23.53" (32.339869°)
LONGITUDE = 103°38'00.84" (103.633566°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488126.29' E: 757305.50'
STATE PLANE NAD 27 (N.M. EAST)
N: 488066.29' E: 716122.54'

NAD 83 (LP/FTP)
LATITUDE = 32°20'23.98" (32.339994°)
LONGITUDE = 103°38'01.23" (103.633675°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'23.53" (32.339871°)
LONGITUDE = 103°37'59.49" (103.633190°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488127.64' E: 757421.50'
STATE PLANE NAD 27 (N.M. EAST)
N: 488067.63' E: 716238.55'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.23" (32.312286°)
LONGITUDE = 103°38'01.33" (103.633703°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.78" (32.312162°)
LONGITUDE = 103°37'59.59" (103.633220°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478047.32' E: 757478.46'
STATE PLANE NAD 27 (N.M. EAST)
N: 477987.61' E: 716295.25'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0 2000'
SCALE

DRAWN BY: D.J.S. 08-05-21

REV: 1 10-25-21 Z.L. (WELL NAME CHANGE)

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

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August 3, 2021

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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

[1] API Number	[2] Pool Code	[3] Pool Name
	98177	WC-025 G-09 S223332A; UPR Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	26H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3734.1'

[10] Surface Location

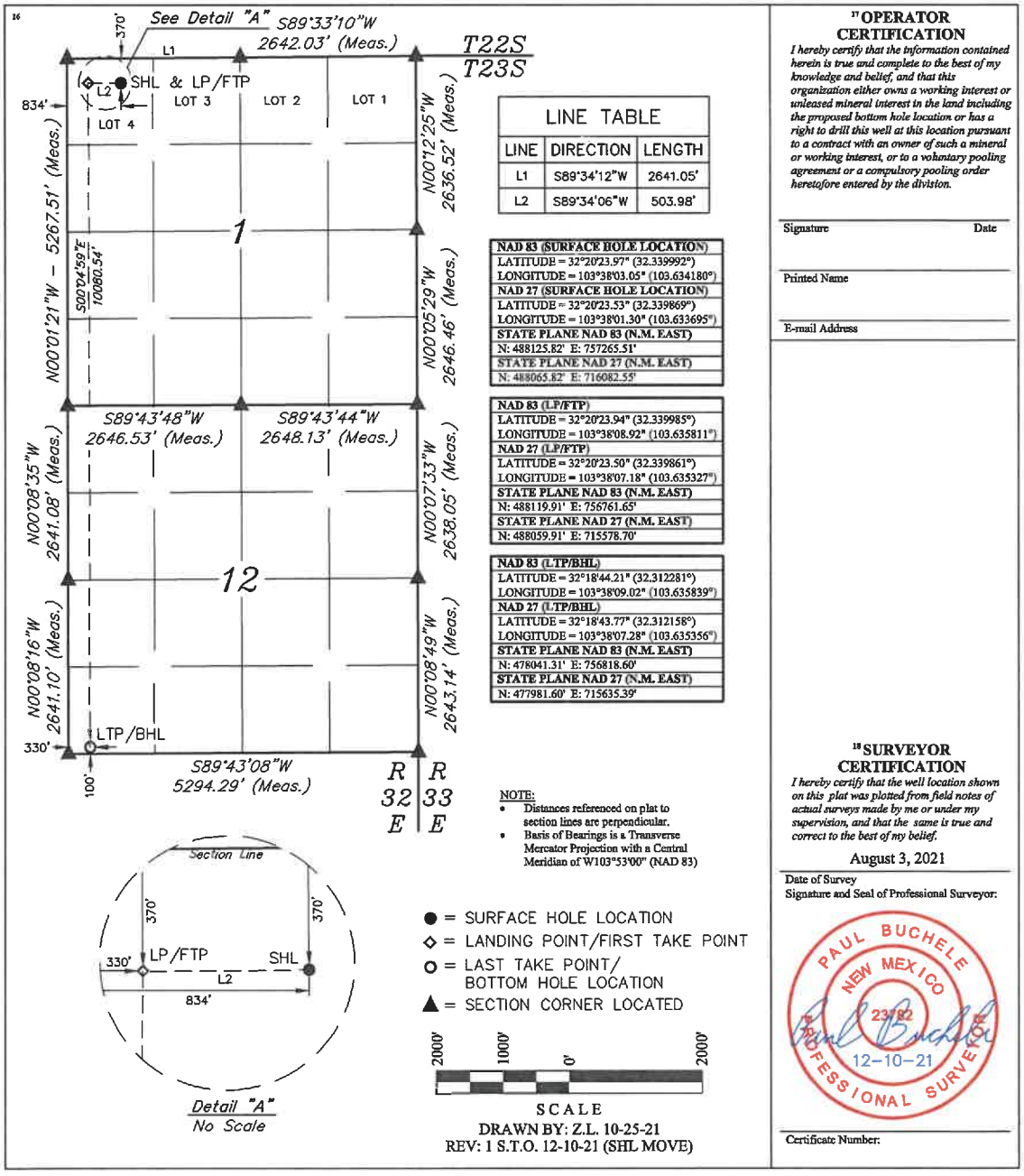
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	23S	32E		370	NORTH	834	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	23S	32E		100	SOUTH	330	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	S89°34'06"W	503.98'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'23.97" (32.339992°)
LONGITUDE = 103°38'03.05" (103.634180°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'23.53" (32.339869°)
LONGITUDE = 103°38'01.30" (103.633695°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488125.82' E: 757265.51'
STATE PLANE NAD 27 (N.M. EAST)
N: 488065.82' E: 716082.55'

NAD 83 (LP/FTP)
LATITUDE = 32°20'23.94" (32.339985°)
LONGITUDE = 103°38'08.92" (103.635811°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'23.50" (32.339861°)
LONGITUDE = 103°38'07.18" (103.635327°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488119.91' E: 756761.65'
STATE PLANE NAD 27 (N.M. EAST)
N: 488059.91' E: 715578.70'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.21" (32.312281°)
LONGITUDE = 103°38'09.02" (103.635839°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.77" (32.312158°)
LONGITUDE = 103°38'07.28" (103.635356°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478041.31' E: 756818.60'
STATE PLANE NAD 27 (N.M. EAST)
N: 477981.60' E: 715635.39'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

SCALE
DRAWN BY: Z.L. 10-25-21
REV: 1 S.T.O. 12-10-21 (SHL MOVE)

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

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August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

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Santa Fe, NM 87505

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Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	27H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3734.0'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	23S	32E		310	NORTH	794	WEST	LEA

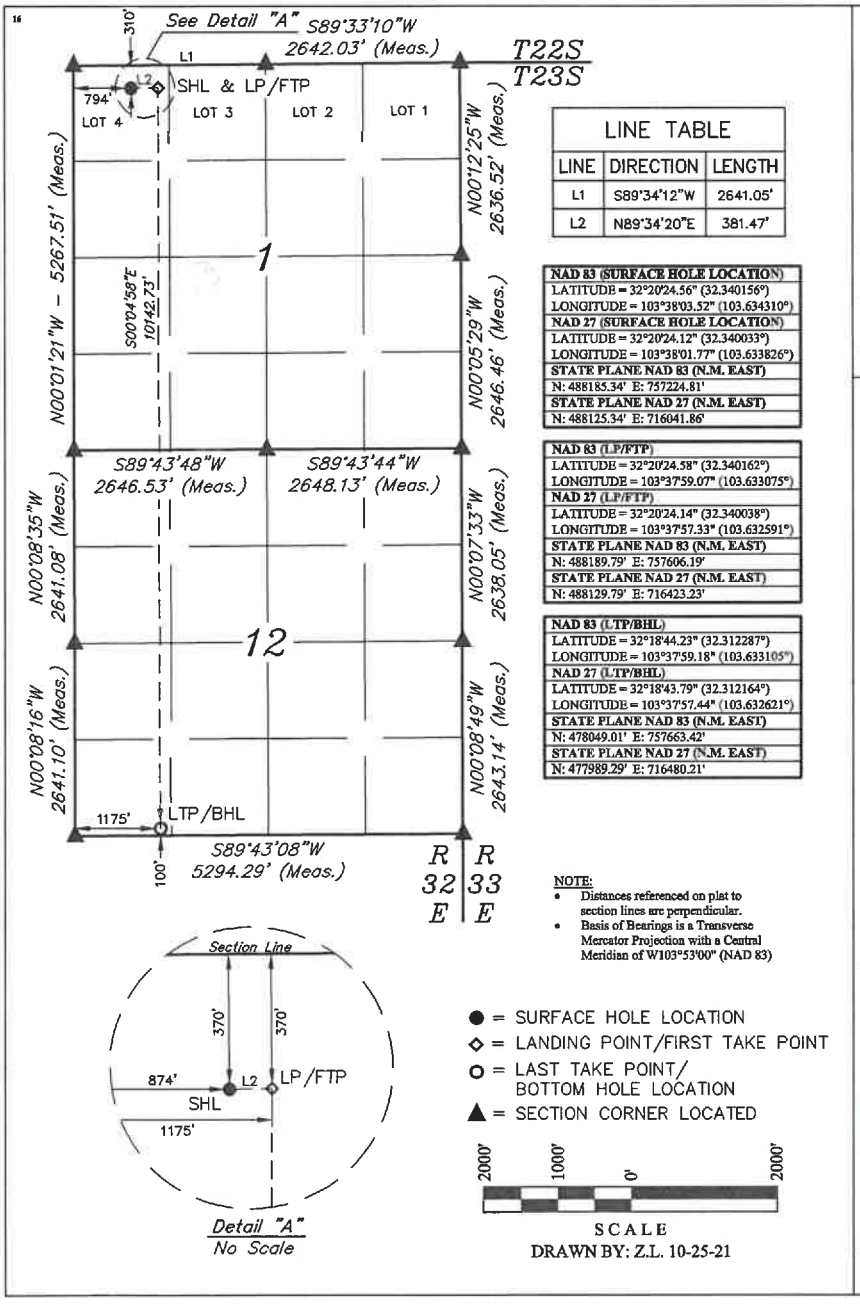
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	23S	32E		100	SOUTH	1175	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	N89°34'20"E	381.47'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.56" (32.340156°)
LONGITUDE = 103°38'03.52" (103.634310°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.12" (32.340033°)
LONGITUDE = 103°38'01.77" (103.633826°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488185.34' E: 757224.81'
STATE PLANE NAD 27 (N.M. EAST)
N: 488125.34' E: 716041.86'

NAD 83 (LP/FTP)
LATITUDE = 32°20'24.58" (32.340162°)
LONGITUDE = 103°37'59.07" (103.633075°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'24.14" (32.340038°)
LONGITUDE = 103°37'57.33" (103.632591°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488189.79' E: 757606.19'
STATE PLANE NAD 27 (N.M. EAST)
N: 488129.79' E: 716423.23'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.23" (32.312287°)
LONGITUDE = 103°37'59.18" (103.633105°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.79" (32.312164°)
LONGITUDE = 103°37'57.44" (103.632621°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478049.01' E: 757663.42'
STATE PLANE NAD 27 (N.M. EAST)
N: 477989.29' E: 716480.21'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

Detail "A"
No Scale

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

SCALE
DRAWN BY: Z.L. 10-25-21

[17] OPERATOR CERTIFICATION

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Signature Date

Printed Name

E-mail Address

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August 3, 2021

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Certificate Number:

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WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	28H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3733.9'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	23S	32E		310	NORTH	754	WEST	LEA

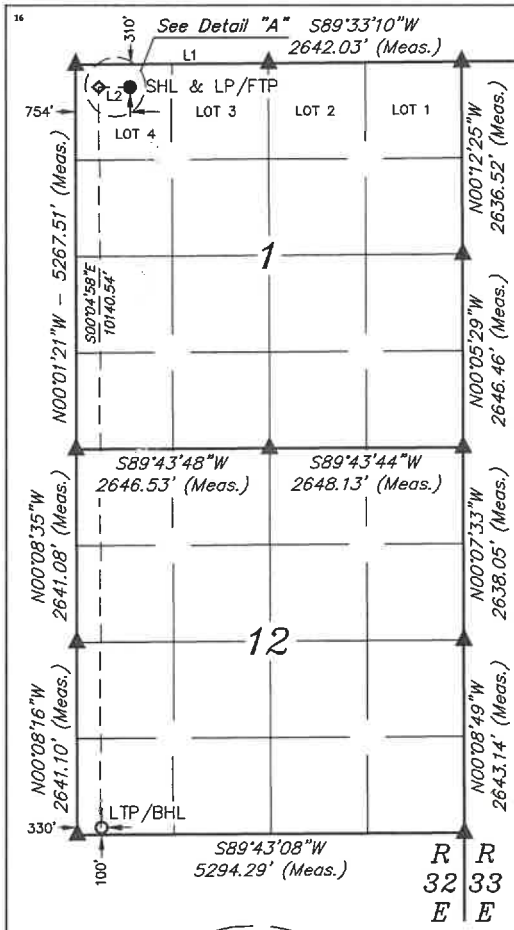
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	23S	32E		100	SOUTH	330	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation 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.

[16]



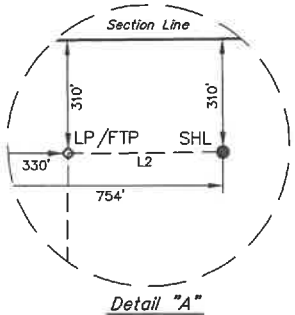
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	S89°34'05"W	423.56'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.56" (32.340156°)
LONGITUDE = 103°38'03.98" (103.634440°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.12" (32.340032°)
LONGITUDE = 103°38'02.24" (103.633955°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488184.87' E: 757184.82'
STATE PLANE NAD 27 (N.M. EAST)
N: 488124.87' E: 716001.87'

NAD 83 (LP/FTP)
LATITUDE = 32°20'24.54" (32.340150°)
LONGITUDE = 103°38'08.92" (103.635811°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'24.09" (32.340026°)
LONGITUDE = 103°38'07.18" (103.635326°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488179.90' E: 756761.37'
STATE PLANE NAD 27 (N.M. EAST)
N: 488119.90' E: 715578.42'

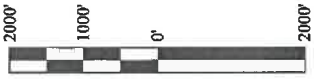
NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.21" (32.312281°)
LONGITUDE = 103°38'09.02" (103.635839°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.77" (32.312158°)
LONGITUDE = 103°38'07.28" (103.635356°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478041.31' E: 756818.60'
STATE PLANE NAD 27 (N.M. EAST)
N: 477981.60' E: 715635.39'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



Detail "A"
No Scale

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED



SCALE
DRAWN BY: Z.L. 10-25-21
REV: 1 S.T.O. 12-10-21 (SHL MOVE)

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-	17644	Diamondtail; Bone Spring

4 Property Code	5 Property Name	6 Well Number
	CORIANDER 1-12 FEDERAL COM	29H
7 OGRID No.	8 Operator Name	9 Elevation
215099	CIMAREX ENERGY CO.	3734.8'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	23S	32E		250	NORTH	873	WEST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	23S	32E		100	SOUTH	981	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
319.65			

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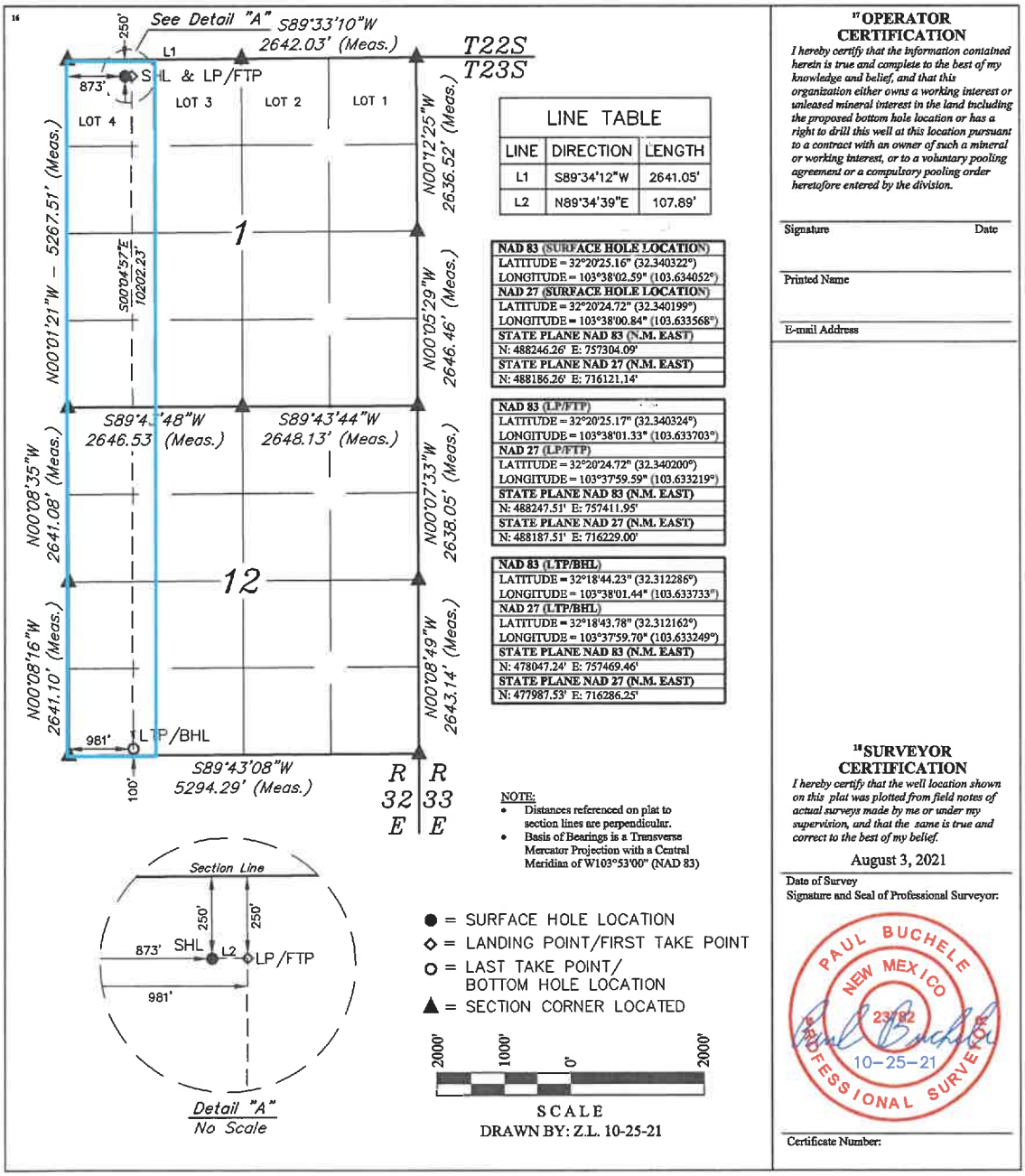

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°34'12"W	2641.05'
L2	N89°34'39"E	107.89'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'25.16" (32.340322°)
LONGITUDE = 103°38'02.59" (103.634052°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'24.72" (32.340199°)
LONGITUDE = 103°38'00.84" (103.633568°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488246.26' E: 757304.09'
STATE PLANE NAD 27 (N.M. EAST)
N: 488186.26' E: 716121.14'

NAD 83 (LP/FTP)
LATITUDE = 32°20'25.17" (32.340324°)
LONGITUDE = 103°38'01.33" (103.633703°)
NAD 27 (LP/FTP)
LATITUDE = 32°20'24.72" (32.340200°)
LONGITUDE = 103°37'59.59" (103.633219°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488247.51' E: 757411.95'
STATE PLANE NAD 27 (N.M. EAST)
N: 488187.51' E: 716229.00'

NAD 83 (LTP/BHL)
LATITUDE = 32°18'44.23" (32.312286°)
LONGITUDE = 103°38'01.44" (103.633733°)
NAD 27 (LTP/BHL)
LATITUDE = 32°18'43.78" (32.312162°)
LONGITUDE = 103°37'59.70" (103.633249°)
STATE PLANE NAD 83 (N.M. EAST)
N: 478047.24' E: 757469.46'
STATE PLANE NAD 27 (N.M. EAST)
N: 477987.53' E: 716286.25'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

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August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 10-25-21

Certificate Number:

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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	30H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3734.7'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	23S	32E		250	NORTH	853	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	23S	32E		100	SOUTH	330	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
319.65			

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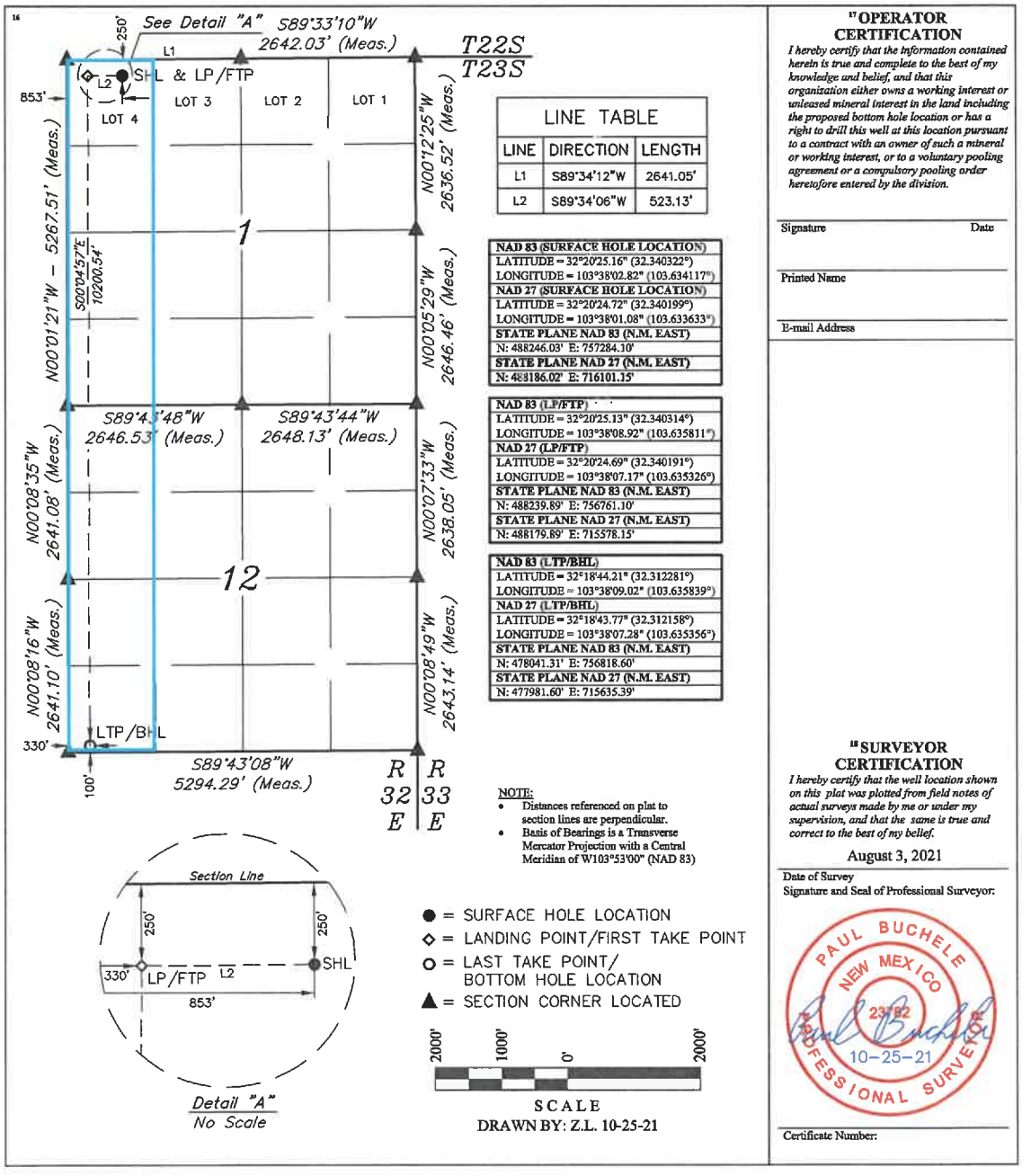

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LONGITUDE = 103°38'07.17" (103.635326°)
STATE PLANE NAD 83 (N.M. EAST)
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	17644	Diamondtail; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	CORIANDER 1-12 FEDERAL COM	31H

[7] OGRID No.	[8] Operator Name	[9] Elevation
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[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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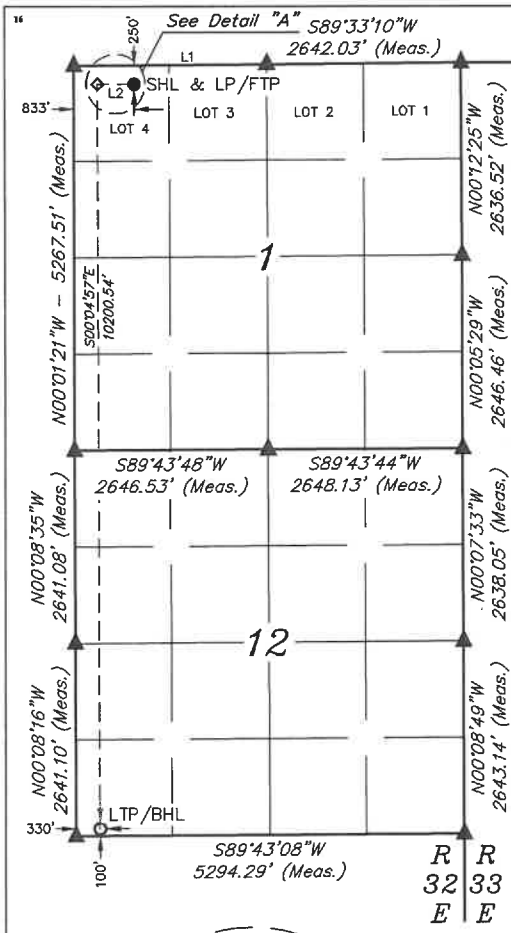

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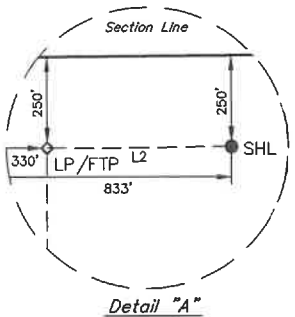

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No Scale

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◇ = LANDING POINT/FIRST TAKE POINT
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▲ = SECTION CORNER LOCATED

SCALE
DRAWN BY: Z.L. 10-25-21

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August 3, 2021

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

CIMAREX

Authorization For Expenditure Drilling

Company Entity

Date Prepared
3/12/2021

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 12H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	3RD SAND	DEV	22,230	12,230

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,599,000		$2,599,000
Completion Costs		$4,303,407	$4,303,407
Total Intangible Cost	**$2,599,000**	**$4,303,407**	**$6,902,407**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$418,000	$705,000	$1,123,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$418,000**	**$1,451,863**	**$1,869,863**
Total Well Cost	**$3,017,000**	**$5,755,270**	**$8,772,270**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

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

3/12/2021

EXHIBIT
tabbies
B-14

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 12H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	100,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	158,860
Damages	DIDC.105	10,000					CON.105	2,990			12,990
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000			PCOM.255	0	213,000
Day Rate	DIDC.115	480,000	DICC.120	80,000							560,000
Misc Preparation	DIDC.120	30,000									30,000
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0			PCOM.125	0	97,000
Fuel	DIDC.135	73,000	DICC.130	0					PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	25,000
Mud & Additives	DIDC.145	275,000									275,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	126,270	126,270
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	143,000			STIM.145	35,000			PCOM.145	0	178,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	29,000									29,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000							245,000
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000			PCOM.160	0	50,000
Casing Crews	DIDC.195	22,000	DICC.165	13,000	STIM.165	0					35,000
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000					72,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	5,000	DICC.195	5,000							10,000
MOB/DEMOB	DIDC.240	115,000									115,000
Directional Drilling Services	DIDC.245	284,000									284,000
Solids Control	DIDC.260	59,000									59,000
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000			PCOM.240	0	175,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	8,000									8,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	384,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,599,000		267,000		3,164,000		593,137		279,270	6,902,407
Surface Casing	DWEB.140	34,000									34,000
Intermediate Casing 1	DWEB.145	346,000									346,000
Production Casing or Liner			DWEA.100	390,000							390,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		418,000		408,000		249,000		746,863		48,000	1,869,863
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**		**1,340,000**		**327,270**	**8,772,270**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 12H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	100,000			STIM.100	10,000
Damages	DIDC.105	10,000				
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000
Day Rate	DIDC.115	480,000	DICC.120	80,000		
Misc Preparation	DIDC.120	30,000				
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	73,000	DICC 130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	275,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	143,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	29,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000		
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000
Casing Crews	DIDC.195	22,000	DICC.165	13,000	STIM.165	0
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	5,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	115,000				
Directional Drilling Services	DIDC.245	284,000				
Solids Control	DIDC.260	59,000				
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	8,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,599,000		257,000		3,164,000
Surface Casing	DWEB.140	34,000				
Intermediate Casing 1	DWEB.145	346,000				
Production Casing or Liner			DWEA.100	390,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		418,000		408,000		249,000
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 12H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	158,860
Damages	CON.105	2,990			12,990
Mud/Fluids Disposal			PCOM.255	0	213,000
Day Rate					560,000
Misc Preparation					30,000
Bits			PCOM.125	0	97,000
Fuel			PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	25,000
Mud & Additives					275,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	126,270	126,270
Surface Rentals	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	178,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					29,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					245,000
Tubular Inspections			PCOM.160	0	50,000
Casing Crews					35,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering					72,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					10,000
MOB/DEMOB					115,000
Directional Drilling Services					284,000
Solids Control					59,000
Well Control Equip (Snubbing Services)			PCOM.240	0	175,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					8,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	384,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		279,270	6,902,407
Surface Casing					34,000
Intermediate Casing 1					346,000
Production Casing or Liner					390,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,869,863
Total Estimated Cost		**1,340,000**		**327,270**	**8,772,270**

CIMAREX

Authorization For Expenditure Drilling

Date Prepared
3/12/2021

Company Entity

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 13H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	WOLFCAMP A1 UPPER	DEV	22,525	12,525

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,599,000		$2,599,000
Completion Costs		$4,316,337	$4,316,337
Total Intangible Cost	**$2,599,000**	**$4,316,337**	**$6,915,337**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$418,000	$705,000	$1,123,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$418,000**	**$1,451,863**	**$1,869,863**
Total Well Cost	**$3,017,000**	**$5,768,200**	**$8,785,200**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 3/12/2021

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 13H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC 100	100,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	158,860
Damages	DIDC.105	10,000					CON.105	2,990			12,990
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000			PCOM.255	0	213,000
Day Rate	DIDC.115	480,000	DICC.120	80,000							560,000
Misc Preparation	DIDC.120	30,000									30,000
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0			PCOM.125	0	97,000
Fuel	DIDC.135	73,000	DICC.130	0					PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	25,000
Mud & Additives	DIDC.145	275,000									275,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	124,200	124,200
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor					STIM.141	0			PCOM.141	136,000	136,000
Downhole Rentals	DIDC.155	143,000			STIM.145	35,000			PCOM.145	0	178,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	29,000									29,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000							245,000
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000			PCOM.160	0	50,000
Casing Crews	DIDC.195	22,000	DICC.165	13,000	STIM.165	0					35,000
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000					72,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	5,000	DICC.195	5,000							10,000
MOB/DEMOB	DIDC.240	115,000									115,000
Directional Drilling Services	DIDC.245	284,000									284,000
Solids Control	DIDC.260	59,000									59,000
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000			PCOM.240	0	175,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	8,000									8,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	384,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,599,000		267,000		3,164,000		593,137		292,200	6,915,337
Surface Casing	DWEB.140	34,000									34,000
Intermediate Casing 1	DWEB.145	346,000									346,000
Production Casing or Liner			DWEA.100	390,000							390,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		418,000		408,000		249,000		746,863		48,000	1,869,863
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**		**1,340,000**		**340,200**	**8,785,200**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 13H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	100,000			STIM 100	10,000
Damages	DIDC.105	10,000				
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000
Day Rate	DIDC.115	480,000	DICC.120	80,000		
Misc Preparation	DIDC.120	30,000				
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	73,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	275,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	143,000			STIM 145	35,000
Automation Labor						
Mud Logging	DIDC.170	29,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000		
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000
Casing Crews	DIDC.195	22,000	DICC.165	13,000	STIM 165	0
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	5,000	DICC 195	5,000		
MOB/DEMOB	DIDC.240	115,000				
Directional Drilling Services	DIDC.245	284,000				
Solids Control	DIDC.260	59,000				
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	8,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,599,000		267,000		3,164,000
Surface Casing	DWEB.140	34,000				
Intermediate Casing 1	DWEB.145	346,000				
Production Casing or Liner			DWEA.100	390,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		418,000		408,000		249,000
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 13H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	158,860
Damages	CON.105	2,990			12,990
Mud/Fluids Disposal			PCOM.255	0	213,000
Day Rate					560,000
Misc Preparation					30,000
Bits			PCOM.125	0	97,000
Fuel			PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	25,000
Mud & Additives					275,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	124,200	124,200
Surface Rentals	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor			PCOM.141	136,000	136,000
Downhole Rentals			PCOM.145	0	178,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					29,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					245,000
Tubular Inspections			PCOM.160	0	50,000
Casing Crews					35,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering					72,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					10,000
MOB/DEMOB					115,000
Directional Drilling Services					284,000
Solids Control					59,000
Well Control Equip (Snubbing Services)			PCOM.240	0	175,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					8,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	384,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		292,200	6,915,337
Surface Casing					34,000
Intermediate Casing 1					346,000
Production Casing or Liner					390,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,869,863
Total Estimated Cost		**1,340,000**		**340,200**	**8,785,200**

CIMAREX Authorization For Expenditure Drilling

Date Prepared
3/11/2021

Company Entity

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 16H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	2ND SAND LOWER	DEV	21,030	11,030

Purpose Drill and complete well

Description

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,330,407	$4,330,407
Total Intangible Cost	**$2,129,000**	**$4,330,407**	**$6,459,407**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**

Total Well Cost	**$2,540,000**	**$5,574,270**	**$8,114,270**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 3/11/2021

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 16H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	55,000			PCOM.255	0	180,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC 120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC.135	43,000	DICC.130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	21,000			PCOM.135	0	46,000
Mud & Additives	DIDC.145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	126,270	126,270
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	146,000	CON.140	1,709	PCOM.140	0	242,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC 170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	50,000	CON.180	11,103	PCOM.180	0	142,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	26,000					70,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	66,000	CON.190	8,967	PCOM.190	0	79,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC.245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	69,000			PCOM.240	0	151,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	250,000			PCOM.200	0	250,000
Composite Plugs					STIM.390	45,000			PCOM.390	0	45,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,907,000			PCOM.210	0	1,907,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	178,000					178,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	156,000	CON.220	96,934	PCOM.220	0	350,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,267,000		593,137		279,270	6,459,407
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,516,000**		**1,340,000**		**327,270**	**8,114,270**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 16H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC 100	125,000			STIM.100	10,000
Damages	DIDC.105	30,000				
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	55,000
Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC.120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	21,000
Mud & Additives	DIDC.145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	146,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.165	110,000	DICC.155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	50,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	26,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	66,000
Overhead	DIDC.225	10,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	110,000				
Directional Drilling Services	DIDC.245	300,000				
Solids Control	DIDC.260	46,000				
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	69,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	250,000
Composite Plugs					STIM.390	45,000
Stimulation					STIM.210	1,907,000
Stimulation Water/Water Transfer/Water					STIM.395	178,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	7,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	156,000
Contingency						
Total Intangible Cost		2,129,000		191,000		3,267,000
Conductor Pipe	DWEB.130	8,000				
Water String	DWEB.135	11,000				
Surface Casing	DWEB.140	53,000				
Intermediate Casing 1	DWEB.145	301,000				
Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,516,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 16H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	180,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	46,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	126,270	126,270
Surface Rentals	CON.140	1,709	PCOM.140	0	242,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	142,103
Trailer House/Camp/Catering					70,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	79,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	151,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	250,000
Composite Plugs			PCOM.390	0	45,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,907,000
Stimulation Water/Water Transfer/Water					178,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	350,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		279,270	6,459,407
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**327,270**	**8,114,270**

CIMAREX Authorization For Expenditure Drilling

Company Entity

Date Prepared
3/12/2021

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 18H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	1ST SAND	DEV	20,200	10,200

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,227,407	$4,227,407
Total Intangible Cost	**$2,129,000**	**$4,227,407**	**$6,356,407**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**
Total Well Cost	**$2,540,000**	**$5,471,270**	**$8,011,270**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 3/12/2021

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 18H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000			PCOM.255	0	178,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC.120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC 135	43,000	DICC.130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	45,000
Mud & Additives	DIDC.145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	126,270	126,270
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000					69,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC.245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000			PCOM.240	0	149,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging /Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	345,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,164,000		593,137		279,270	6,356,407
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA 125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**		**1,340,000**		**327,270**	**8,011,270**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 18H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	125,000			STIM.100	10,000
Damages	DIDC.105	30,000				
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000
Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC 120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC 150	95,000	DICC 140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	10,000	DICC 195	5,000		
MOB/DEMOB	DIDC.240	110,000				
Directional Drilling Services	DIDC.245	300,000				
Solids Control	DIDC.260	46,000				
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	7,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,129,000		191,000		3,164,000
Conductor Pipe	DWEB.130	8,000				
Water String	DWEB.135	11,000				
Surface Casing	DWEB.140	53,000				
Intermediate Casing 1	DWEB.145	301,000				
Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 18H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	178,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	45,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	126,270	126,270
Surface Rentals	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering					69,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	149,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	345,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		279,270	6,356,407
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**327,270**	**8,011,270**

CIMAREX

Authorization For Expenditure Drilling

Company Entity

Date Prepared
3/12/2021

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 19H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	AVALON	DEV	19,700	9,700

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,194,287	$4,194,287
Total Intangible Cost	**$2,129,000**	**$4,194,287**	**$6,323,287**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**

Total Well Cost	**$2,540,000**	**$5,438,150**	**$7,978,150**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

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

3/12/2021

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 19H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000			PCOM.255	0	178,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC.120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC.135	43,000	DICC.130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	45,000
Mud & Additives	DIDC.145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	93,150	93,150
Surface Rentals	DIDC.150	95,000	DICC 140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000					69,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC.245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000			PCOM.240	0	149,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	345,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,164,000		593,137		246,150	6,323,287
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**		**1,340,000**		**294,150**	**7,978,150**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 19H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	125,000			STIM.100	10,000
Damages	DIDC.105	30,000				
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000
Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC.120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	10,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	110,000				
Directional Drilling Services	DIDC.245	300,000				
Solids Control	DIDC.260	46,000				
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	7,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,129,000		191,000		3,164,000
Conductor Pipe	DWEB.130	8,000				
Water String	DWEB.135	11,000				
Surface Casing	DWEB.140	53,000				
Intermediate Casing 1	DWEB.145	301,000				
Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 19H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	178,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	45,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	93,150	93,150
Surface Rentals	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering					69,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	149,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	345,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		246,150	6,323,287
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**294,150**	**7,978,150**

CIMAREX Authorization For Expenditure Drilling

Date Prepared
3/12/2021

Company Entity

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 25H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	3RD SAND	DEV	22,230	12,230

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,599,000		$2,599,000
Completion Costs		$4,303,407	$4,303,407
Total Intangible Cost	**$2,599,000**	**$4,303,407**	**$6,902,407**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$418,000	$705,000	$1,123,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$418,000**	**$1,451,863**	**$1,869,863**
Total Well Cost	**$3,017,000**	**$5,755,270**	**$8,772,270**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 3/12/2021

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 25H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	100,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	158,860
Damages	DIDC.105	10,000					CON.105	2,990			12,990
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000			PCOM.255	0	213,000
Day Rate	DIDC.115	480,000	DICC.120	80,000							560,000
Misc Preparation	DIDC.120	30,000									30,000
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0			PCOM.125	0	97,000
Fuel	DIDC.135	73,000	DICC.130	0					PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	25,000
Mud & Additives	DIDC.145	275,000									275,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	126,270	126,270
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	143,000			STIM.145	35,000			PCOM.145	0	178,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	29,000									29,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000							245,000
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000			PCOM.160	0	50,000
Casing Crews	DIDC.195	22,000	DICC.165	13,000	STIM.165	0					35,000
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000					72,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC 225	5,000	DICC.195	5,000							10,000
MOB/DEMOB	DIDC.240	115,000									115,000
Directional Drilling Services	DIDC.245	284,000									284,000
Solids Control	DIDC.260	59,000									59,000
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000			PCOM.240	0	175,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	8,000									8,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	384,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,599,000		267,000		3,164,000		593,137		279,270	6,902,407
Surface Casing	DWEB.140	34,000									34,000
Intermediate Casing 1	DWEB.145	346,000									346,000
Production Casing or Liner			DWEA.100	390,000							390,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		418,000		408,000		249,000		746,863		48,000	1,869,863
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**		**1,340,000**		**327,270**	**8,772,270**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 25H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	100,000			STIM.100	10,000
Damages	DIDC.105	10,000				
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000
Day Rate	DIDC.115	480,000	DICC.120	80,000		
Misc Preparation	DIDC 120	30,000				
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	73,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	275,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	143,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	29,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000		
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000
Casing Crews	DIDC 195	22,000	DICC.165	13,000	STIM.165	0
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	5,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	115,000				
Directional Drilling Services	DIDC.245	284,000				
Solids Control	DIDC.260	59,000				
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	8,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,599,000		267,000		3,164,000
Surface Casing	DWEB.140	34,000				
Intermediate Casing 1	DWEB.145	346,000				
Production Casing or Liner			DWEA.100	390,000		
Tubing					STIMT 105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		418,000		408,000		249,000
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 25H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	158,860
Damages	CON.105	2,990			12,990
Mud/Fluids Disposal			PCOM.255	0	213,000
Day Rate					560,000
Misc Preparation					30,000
Bits			PCOM.125	0	97,000
Fuel			PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	25,000
Mud & Additives					275,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	126,270	126,270
Surface Rentals	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	178,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					29,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					245,000
Tubular Inspections			PCOM.160	0	50,000
Casing Crews					35,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering					72,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					10,000
MOB/DEMOB					115,000
Directional Drilling Services					284,000
Solids Control					59,000
Well Control Equip (Snubbing Services)			PCOM.240	0	175,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					8,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	384,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		279,270	6,902,407
Surface Casing					34,000
Intermediate Casing 1					346,000
Production Casing or Liner					390,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,869,863
Total Estimated Cost		**1,340,000**		**327,270**	**8,772,270**

CIMAREX

Authorization For Expenditure Drilling

Company Entity

Date Prepared
3/12/2021

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 26H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	WOLFCAMP A1 UPPER	DEV	22,525	12,525

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,599,000		$2,599,000
Completion Costs		$4,316,337	$4,316,337
Total Intangible Cost	**$2,599,000**	**$4,316,337**	**$6,915,337**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$418,000	$705,000	$1,123,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$418,000**	**$1,451,863**	**$1,869,863**
Total Well Cost	**$3,017,000**	**$5,768,200**	**$8,785,200**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

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

3/12/2021

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 26H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	100,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	158,860
Damages	DIDC.105	10,000					CON.105	2,990			12,990
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000			PCOM.255	0	213,000
Day Rate	DIDC.115	480,000	DICC.120	80,000							560,000
Misc Preparation	DIDC.120	30,000									30,000
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0			PCOM.125	0	97,000
Fuel	DIDC.135	73,000	DICC.130	0					PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	25,000
Mud & Additives	DIDC.145	275,000									275,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	124,200	124,200
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor					STIM.141	0			PCOM.141	136,000	136,000
Downhole Rentals	DIDC.155	143,000			STIM.145	35,000			PCOM.145	0	178,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	29,000									29,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000							245,000
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000			PCOM.160	0	50,000
Casing Crews	DIDC.195	22,000	DICC.165	13,000	STIM.165	0					35,000
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000					72,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	5,000	DICC.195	5,000							10,000
MOB/DEMOB	DIDC.240	115,000									115,000
Directional Drilling Services	DIDC.245	284,000									284,000
Solids Control	DIDC.260	59,000									59,000
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000			PCOM.240	0	175,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	8,000									8,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	384,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,599,000		267,000		3,164,000		593,137		292,200	6,915,337
Surface Casing	DWEB.140	34,000									34,000
Intermediate Casing 1	DWEB.145	346,000									346,000
Production Casing or Liner			DWEA.100	390,000							390,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		418,000		408,000		249,000		746,863		48,000	1,869,863
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**		**1,340,000**		**340,200**	**8,785,200**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 26H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	100,000			STIM.100	10,000
Damages	DIDC.105	10,000				
Mud/Fluids Disposal	DIDC.255	160,000			STIM.255	53,000
Day Rate	DIDC.115	480,000	DICC.120	80,000		
Misc Preparation	DIDC.120	30,000				
Bits	DIDC.125	97,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	73,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	5,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	275,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	112,000	DICC.140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	143,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	29,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	125,000	DICC.155	120,000		
Tubular Inspections	DIDC.190	38,000	DICC.160	8,000	STIM.160	4,000
Casing Crews	DIDC.195	22,000	DICC.165	13,000	STIM.165	0
Mechanical Labor	DIDC.200	20,000	DICC.170	3,000	STIM.170	0
Trucking/Transportation	DIDC.205	30,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	90,000	DICC.180	12,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	42,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	5,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	115,000				
Directional Drilling Services	DIDC.245	284,000				
Solids Control	DIDC.260	59,000				
Well Control Equip (Snubbing Services)	DIDC.265	108,000	DICC.240	0	STIM.240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	8,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	124,000	DICC.220	13,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,599,000		267,000		3,164,000
Surface Casing	DWEB.140	34,000				
Intermediate Casing 1	DWEB.145	346,000				
Production Casing or Liner			DWEA.100	390,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		418,000		408,000		249,000
Total Estimated Cost		**3,017,000**		**675,000**		**3,413,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 26H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	158,860
Damages	CON.105	2,990			12,990
Mud/Fluids Disposal			PCOM.255	0	213,000
Day Rate					560,000
Misc Preparation					30,000
Bits			PCOM.125	0	97,000
Fuel			PCOM.130	0	73,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	25,000
Mud & Additives					275,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	124,200	124,200
Surface Rentals	CON.140	1,709	PCOM.140	0	256,709
Flowback Labor			PCOM.141	136,000	136,000
Downhole Rentals			PCOM.145	0	178,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					29,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					245,000
Tubular Inspections			PCOM.160	0	50,000
Casing Crews					35,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	199,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	61,081
Supervision	CON.180	11,103	PCOM.180	0	162,103
Trailer House/Camp/Catering					72,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					10,000
MOB/DEMOB					115,000
Directional Drilling Services					284,000
Solids Control					59,000
Well Control Equip (Snubbing Services)			PCOM.240	0	175,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					8,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	384,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		292,200	6,915,337
Surface Casing					34,000
Intermediate Casing 1					346,000
Production Casing or Liner					390,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,869,863
Total Estimated Cost		**1,340,000**		**340,200**	**8,785,200**

CIMAREX Authorization For Expenditure Drilling

Date Prepared
3/11/2021

Company Entity

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 27H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	2ND SAND UPPER	DEV	20,770	10,770

Purpose Drill and complete well

Description

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,330,407	$4,330,407
Total Intangible Cost	**$2,129,000**	**$4,330,407**	**$6,459,407**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**
Total Well Cost	**$2,540,000**	**$5,574,270**	**$8,114,270**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 3/11/2021

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 27H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	55,000			PCOM.255	0	180,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC.120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC.135	43,000	DICC.130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	21,000			PCOM.135	0	46,000
Mud & Additives	DIDC 145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	126,270	126,270
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	146,000	CON 140	1,709	PCOM.140	0	242,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC 170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC 195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC 205	18,000	DICC.175	8,000	STIM.175	4,000	CON 175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	50,000	CON.180	11,103	PCOM.180	0	142,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	26,000					70,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	66,000	CON.190	8,967	PCOM.190	0	79,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC.245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	69,000			PCOM.240	0	151,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	250,000			PCOM.200	0	250,000
Composite Plugs					STIM.390	45,000			PCOM.390	0	45,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,907,000			PCOM.210	0	1,907,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	178,000					178,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	156,000	CON.220	96,934	PCOM.220	0	350,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,267,000		593,137		279,270	6,459,407
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,516,000**		**1,340,000**		**327,270**	**8,114,270**

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 27H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	125,000			STIM.100	10,000
Damages	DIDC.105	30,000				
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	55,000
Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC.120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	21,000
Mud & Additives	DIDC.145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	146,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	50,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	26,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	66,000
Overhead	DIDC.225	10,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	110,000				
Directional Drilling Services	DIDC.245	300,000				
Solids Control	DIDC.260	46,000				
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	69,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	250,000
Composite Plugs					STIM.390	45,000
Stimulation					STIM.210	1,907,000
Stimulation Water/Water Transfer/Water					STIM.395	178,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	7,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	156,000
Contingency						
Total Intangible Cost		2,129,000		191,000		3,267,000
Conductor Pipe	DWEB.130	8,000				
Water String	DWEB.135	11,000				
Surface Casing	DWEB.140	53,000				
Intermediate Casing 1	DWEB.145	301,000				
Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,516,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 27H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	180,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	46,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	126,270	126,270
Surface Rentals	CON.140	1,709	PCOM.140	0	242,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	142,103
Trailer House/Camp/Catering					70,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	79,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	151,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	250,000
Composite Plugs			PCOM.390	0	45,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,907,000
Stimulation Water/Water Transfer/Water					178,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	350,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		279,270	6,459,407
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.360	7,259			7,259
PUMPS	CONT.365	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**327,270**	**8,114,270**

CIMAREX

Authorization For Expenditure Drilling

Date Prepared
3/11/2021

Company Entity

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 28H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	2ND SAND LOWER	DEV	21,030	11,030

Purpose Drill and complete well

Description

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,330,407	$4,330,407
Total Intangible Cost	**$2,129,000**	**$4,330,407**	**$6,459,407**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**
Total Well Cost	**$2,540,000**	**$5,574,270**	**$8,114,270**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 3/11/2021

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 28H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	55,000			PCOM.255	0	180,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC 120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC.135	43,000	DICC.130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	21,000			PCOM.135	0	46,000
Mud & Additives	DIDC.145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	126,270	126,270
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	146,000	CON.140	1,709	PCOM.140	0	242,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC 155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC 185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	50,000	CON.180	11,103	PCOM.180	0	142,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	26,000					70,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	66,000	CON.190	8,967	PCOM.190	0	79,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC.245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	69,000			PCOM.240	0	151,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	250,000			PCOM.200	0	250,000
Composite Plugs					STIM.390	45,000			PCOM.390	0	45,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,907,000			PCOM.210	0	1,907,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	178,000					178,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	156,000	CON.220	96,934	PCOM.220	0	350,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,267,000		593,137		279,270	6,459,407
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT 105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,516,000**		**1,340,000**		**327,270**	**8,114,270**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 28H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	125,000			STIM.100	10,000
Damages	DIDC.105	30,000				
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	55,000
Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC.120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	21,000
Mud & Additives	DIDC.145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	146,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	50,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	26,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	66,000
Overhead	DIDC.225	10,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	110,000				
Directional Drilling Services	DIDC.245	300,000				
Solids Control	DIDC.260	46,000				
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	69,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	250,000
Composite Plugs					STIM.390	45,000
Stimulation					STIM.210	1,907,000
Stimulation Water/Water Transfer/Water					STIM.395	178,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	7,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	156,000
Contingency						
Total Intangible Cost		2,129,000		191,000		3,267,000
Conductor Pipe	DWEB.130	8,000				
Water String	DWEB.135	11,000				
Surface Casing	DWEB.140	53,000				
Intermediate Casing 1	DWEB.145	301,000				
Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,516,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 28H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	180,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	46,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	126,270	126,270
Surface Rentals	CON.140	1,709	PCOM.140	0	242,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	142,103
Trailer House/Camp/Catering					70,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	79,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	151,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	250,000
Composite Plugs			PCOM.390	0	45,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,907,000
Stimulation Water/Water Transfer/Water					178,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	350,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		279,270	6,459,407
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**327,270**	**8,114,270**

CIMAREX

Authorization For Expenditure Drilling

Company Entity

Date Prepared
3/12/2021

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 29H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	AVALON	DEV	19,700	9,700

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,194,287	$4,194,287
Total Intangible Cost	**$2,129,000**	**$4,194,287**	**$6,323,287**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**

Total Well Cost	**$2,540,000**	**$5,438,150**	**$7,978,150**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

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

3/12/2021

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 29H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000			PCOM.255	0	178,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC 120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC.135	43,000	DICC.130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	45,000
Mud & Additives	DIDC.145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	93,150	93,150
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC 195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC 255	5,000	STIM.280	25,000					69,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC.245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000			PCOM.240	0	149,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	345,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,164,000		593,137		246,150	6,323,287
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**		**1,340,000**		**294,150**	**7,978,150**

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 29H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	125,000			STIM.100	10,000
Damages	DIDC.105	30,000				
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000
Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC.120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	10,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	110,000				
Directional Drilling Services	DIDC.245	300,000				
Solids Control	DIDC.260	46,000				
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	7,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,129,000		191,000		3,164,000
Conductor Pipe	DWEB.130	8,000				
Water String	DWEB.135	11,000				
Surface Casing	DWEB.140	53,000				
Intermediate Casing 1	DWEB.145	301,000				
Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 29H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	178,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	45,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	93,150	93,150
Surface Rentals	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering					69,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	149,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	345,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		246,150	6,323,287
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**294,150**	**7,978,150**

CIMAREX

Authorization For Expenditure Drilling

Company Entity

Date Prepared
3/12/2021

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 30H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	AVALON	DEV	19,700	9,700

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,194,287	$4,194,287
Total Intangible Cost	**$2,129,000**	**$4,194,287**	**$6,323,287**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**
Total Well Cost	**$2,540,000**	**$5,438,150**	**$7,978,150**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

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

3/12/2021

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 30H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000			PCOM.255	0	178,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC.120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC.135	43,000	DICC 130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	45,000
Mud & Additives	DIDC.145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	93,150	93,150
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000					69,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC.245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000			PCOM.240	0	149,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	345,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,164,000		593,137		246,150	6,323,287
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**		**1,340,000**		**294,150**	**7,978,150**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 30H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
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Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC.120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC 130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC 145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM.140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
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Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC 185	110,000	DICC 155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
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Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 30H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	178,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	45,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	93,150	93,150
Surface Rentals	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering					69,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	149,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	345,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		246,150	6,323,287
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**294,150**	**7,978,150**

CIMAREX Authorization For Expenditure Drilling

Company Entity

Date Prepared
3/12/2021

Exploration Region	Well Name	Prospect	Property Number	AFE
Permian Basin	THYME & CORIANDER 1-12 FED COM 31H	New Mexico Bone Spring Pros (Lea)		

County, State	Location	Estimated Spud	Estimated Completion
Lea, NM	SEC 1-T23S-R32E, LEA COUNTY, NM		

	Formation	Well Type	Ttl Measured Depth	Ttl Vetical Depth
X New Supplement Revision	1ST SAND	DEV	20,200	10,200

Purpose Drill and complete well

Description

Drilling

Intangible	Dry Hole	After Casing Point	Completed Well Cost
Drilling Costs	$2,129,000		$2,129,000
Completion Costs		$4,227,407	$4,227,407
Total Intangible Cost	**$2,129,000**	**$4,227,407**	**$6,356,407**

Tangible	Dry Hole	After Casing Point	Completed Well Cost
Well Equipment	$411,000	$497,000	$908,000
Lease Equipment		$746,863	$746,863
Total Tangible Cost	**$411,000**	**$1,243,863**	**$1,654,863**
Total Well Cost	**$2,540,000**	**$5,471,270**	**$8,011,270**

Comments On Well Costs

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

Well Control Insurance

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

I elect to purchase my own well control insurance policy.

Marketing Election

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

I elect to take my gas in kind.

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

Comments on AFE

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

Nonoperator Approval

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

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement. 3/12/2021

CIMAREX

Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 31H

	BCP - Drilling		ACP - Drilling		Comp/Stim		Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Codes	Amount	Cost
Roads & Location	DIDC.100	125,000			STIM.100	10,000	CON.100	38,860	PCOM.100	10,000	183,860
Damages	DIDC.105	30,000					CON.105	2,990			32,990
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000			PCOM.255	0	178,000
Day Rate	DIDC.115	365,000	DICC.120	60,000							425,000
Misc Preparation	DIDC.120	20,000									20,000
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0			PCOM.125	0	62,000
Fuel	DIDC.135	43,000	DICC.130	0					PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000			PCOM.135	0	45,000
Mud & Additives	DIDC.145	150,000									150,000
SWD PIPED TO 3RD PARTY SWD WELL									PCOM.257	126,270	126,270
Surface Rentals	DIDC 150	95,000	DICC.140	0	STIM.140	143,000	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor					STIM.141	0			PCOM.141	121,000	121,000
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000			PCOM.145	0	117,000
Automation Labor							CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging	DIDC.170	21,000									21,000
IPC & EXTERNAL PAINTING							CON.165	16,654			16,654
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000							165,000
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000			PCOM.160	0	64,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0					30,000
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000					69,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000	CON.190	8,967	PCOM.190	0	77,967
Overhead	DIDC.225	10,000	DICC.195	5,000							15,000
MOB/DEMOB	DIDC.240	110,000									110,000
Directional Drilling Services	DIDC 245	300,000									300,000
Solids Control	DIDC.260	46,000									46,000
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM.240	67,000			PCOM.240	0	149,000
Completion Rig					STIM.115	21,000			PCOM.115	0	21,000
Coil Tubing Services					STIM.260	164,000			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000			PCOM.200	0	209,000
Composite Plugs					STIM.390	53,000			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand					STIM.210	1,778,000			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water Storage					STIM.395	254,000					254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000			PCOM.305	0	60,000
Legal/Regulatory/Curative	DIDC.300	10,000					CON.300	0			10,000
Well Control Insurance	DIDC.285	7,000									7,000
Major Construction Overhead							CON.305	24,767			24,767
FL/GL - ON PAD LABOR							CON.495	36,724			36,724
FL/GL - Labor							CON.500	95,653			95,653
FL/GL - Supervision							CON.505	10,676			10,676
Survey							CON.515	2,135			2,135
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000	CON.220	96,934	PCOM.220	0	345,934
Contingency							CON.221	24,767			24,767
Total Intangible Cost		2,129,000		191,000		3,164,000		593,137		279,270	6,356,407
Conductor Pipe	DWEB.130	8,000									8,000
Water String	DWEB.135	11,000									11,000
Surface Casing	DWEB.140	53,000									53,000
Intermediate Casing 1	DWEB.145	301,000									301,000
Production Casing or Liner			DWEA.100	127,000							127,000
Tubing					STIMT.105	96,000			PCOMT.105	0	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000							55,000
Packer, Nipples					STIMT.400	28,000			PCOMT.400	0	28,000
SHORT ORDERS							CONT.380	7,259			7,259
PUMPS							CONT.385	17,508			17,508
WALKOVERS							CONT.390	2,989			2,989
Downhole Lift Equipment					STIMT.410	80,000			PCOMT.410	0	80,000
Surface Equipment									PCOMT.420	25,000	25,000
Well Automation Materials									PCOMT.455	8,000	8,000
N/C Lease Equipment							CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs							CONT.405	45,692			45,692
Battery Equipment							CONT.410	186,182			186,182
Secondary Containments							CONT.415	20,924			20,924
Overhead Power Distribution							CONT.420	80,280			80,280
Facility Electrical							CONT.425	21,778			21,778
Telecommunication Equipment							CONT.426	427			427
Meters and Metering Equipment							CONT.445	29,465			29,465
Facility Line Pipe							CONT.450	23,486			23,486
Lease Automation Materials							CONT.455	40,994			40,994
FL/GL - Materials							CONT.550	30,319			30,319
FL/GL - Line Pipe							CONT.555	69,178			69,178
Total Tangible Cost		411,000		200,000		249,000		746,863		48,000	1,654,863
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**		**1,340,000**		**327,270**	**8,011,270**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 31H

	BCP - Drilling		ACP - Drilling		Comp/Stim	
Description	Codes	Amount	Codes	Amount	Codes	Amount
Roads & Location	DIDC.100	125,000			STIM.100	10,000
Damages	DIDC.105	30,000				
Mud/Fluids Disposal	DIDC.255	125,000			STIM.255	53,000
Day Rate	DIDC.115	365,000	DICC.120	60,000		
Misc Preparation	DIDC.120	20,000				
Bits	DIDC.125	62,000	DICC.125	0	STIM.125	0
Fuel	DIDC.135	43,000	DICC.130	0		
Water for Drilling Rig (Not Frac Water)	DIDC.140	25,000	DICC.135	0	STIM.135	20,000
Mud & Additives	DIDC.145	150,000				
SWD PIPED TO 3RD PARTY SWD WELL						
Surface Rentals	DIDC.150	95,000	DICC.140	0	STIM 140	143,000
Flowback Labor					STIM.141	0
Downhole Rentals	DIDC.155	82,000			STIM.145	35,000
Automation Labor						
Mud Logging	DIDC.170	21,000				
IPC & EXTERNAL PAINTING						
Cementing & Float Equipment	DIDC.185	110,000	DICC.155	55,000		
Tubular Inspections	DIDC.190	50,000	DICC.160	10,000	STIM.160	4,000
Casing Crews	DIDC.195	15,000	DICC.165	15,000	STIM.165	0
Mechanical Labor	DIDC.200	28,000	DICC.170	10,000	STIM.170	0
Trucking/Transportation	DIDC.205	18,000	DICC.175	8,000	STIM.175	4,000
Supervision	DIDC.210	72,000	DICC.180	9,000	STIM.180	49,000
Trailer House/Camp/Catering	DIDC.280	39,000	DICC.255	5,000	STIM.280	25,000
Other Misc Expenses	DIDC.220	5,000	DICC.190	0	STIM.190	64,000
Overhead	DIDC.225	10,000	DICC.195	5,000		
MOB/DEMOB	DIDC.240	110,000				
Directional Drilling Services	DIDC.245	300,000				
Solids Control	DIDC.260	46,000				
Well Control Equip (Snubbing Services)	DIDC.265	77,000	DICC.240	5,000	STIM 240	67,000
Completion Rig					STIM.115	21,000
Coil Tubing Services					STIM.260	164,000
Completion Logging/Perforating/Wireline					STIM.200	209,000
Composite Plugs					STIM.390	53,000
Stimulation					STIM.210	1,778,000
Stimulation Water/Water Transfer/Water					STIM.395	254,000
Cimarex Owned Frac/Rental Equipment					STIM.305	60,000
Legal/Regulatory/Curative	DIDC.300	10,000				
Well Control Insurance	DIDC.285	7,000				
Major Construction Overhead						
FL/GL - ON PAD LABOR						
FL/GL - Labor						
FL/GL - Supervision						
Survey						
Contingency	DIDC.435	89,000	DICC.220	9,000	STIM.220	151,000
Contingency						
Total Intangible Cost		2,129,000		191,000		3,164,000
Conductor Pipe	DWEB.130	8,000				
Water String	DWEB.135	11,000				
Surface Casing	DWEB.140	53,000				
Intermediate Casing 1	DWEB.145	301,000				
Production Casing or Liner			DWEA.100	127,000		
Tubing					STIMT.105	96,000
Wellhead, Tree, Chokes	DWEB.115	38,000	DWEA.120	18,000	STIMT.120	45,000
Liner Hanger, Isolation Packer	DWEB.100	0	DWEA.125	55,000		
Packer, Nipples					STIMT.400	28,000
SHORT ORDERS						
PUMPS						
WALKOVERS						
Downhole Lift Equipment					STIMT.410	80,000
Surface Equipment						
Well Automation Materials						
N/C Lease Equipment						
Tanks, Tanks Steps, Stairs						
Battery Equipment						
Secondary Containments						
Overhead Power Distribution						
Facility Electrical						
Telecommunication Equipment						
Meters and Metering Equipment						
Facility Line Pipe						
Lease Automation Materials						
FL/GL - Materials						
FL/GL - Line Pipe						
Total Tangible Cost		411,000		200,000		249,000
Total Estimated Cost		**2,540,000**		**391,000**		**3,413,000**

CIMAREX Authorization For Expenditure - THYME & CORIANDER 1-12 FED COM 31H

	Production Equip		Post Completion		Total
Description	Codes	Amount	Codes	Amount	Cost
Roads & Location	CON.100	38,860	PCOM.100	10,000	183,860
Damages	CON.105	2,990			32,990
Mud/Fluids Disposal			PCOM.255	0	178,000
Day Rate					425,000
Misc Preparation					20,000
Bits			PCOM.125	0	62,000
Fuel			PCOM.130	0	43,000
Water for Drilling Rig (Not Frac Water)			PCOM.135	0	45,000
Mud & Additives					150,000
SWD PIPED TO 3RD PARTY SWD WELL			PCOM.257	126,270	126,270
Surface Rentals	CON.140	1,709	PCOM.140	0	239,709
Flowback Labor			PCOM.141	121,000	121,000
Downhole Rentals			PCOM.145	0	117,000
Automation Labor	CON.150	42,702	PCOM.150	5,000	47,702
Mud Logging					21,000
IPC & EXTERNAL PAINTING	CON.165	16,654			16,654
Cementing & Float Equipment					165,000
Tubular Inspections			PCOM.160	0	64,000
Casing Crews					30,000
Mechanical Labor	CON.170	161,415	PCOM.170	15,000	214,415
Trucking/Transportation	CON.175	17,081	PCOM.175	2,000	49,081
Supervision	CON.180	11,103	PCOM.180	0	141,103
Trailer House/Camp/Catering					69,000
Other Misc Expenses	CON.190	8,967	PCOM.190	0	77,967
Overhead					15,000
MOB/DEMOB					110,000
Directional Drilling Services					300,000
Solids Control					46,000
Well Control Equip (Snubbing Services)			PCOM.240	0	149,000
Completion Rig			PCOM.115	0	21,000
Coil Tubing Services			PCOM.260	0	164,000
Completion Logging/Perforating/Wireline			PCOM.200	0	209,000
Composite Plugs			PCOM.390	0	53,000
Stimulation Pumping/Chemicals/Additives/Sand			PCOM.210	0	1,778,000
Stimulation Water/Water Transfer/Water					254,000
Cimarex Owned Frac/Rental Equipment			PCOM.305	0	60,000
Legal/Regulatory/Curative	CON.300	0			10,000
Well Control Insurance					7,000
Major Construction Overhead	CON.305	24,767			24,767
FL/GL - ON PAD LABOR	CON.495	36,724			36,724
FL/GL - Labor	CON.500	95,653			95,653
FL/GL - Supervision	CON.505	10,676			10,676
Survey	CON.515	2,135			2,135
Contingency	CON.220	96,934	PCOM.220	0	345,934
Contingency	CON.221	24,767			24,767
Total Intangible Cost		593,137		279,270	6,356,407
Conductor Pipe					8,000
Water String					11,000
Surface Casing					53,000
Intermediate Casing 1					301,000
Production Casing or Liner					127,000
Tubing			PCOMT.105	0	96,000
Wellhead, Tree, Chokes			PCOMT.120	15,000	116,000
Liner Hanger, Isolation Packer					55,000
Packer, Nipples			PCOMT.400	0	28,000
SHORT ORDERS	CONT.380	7,259			7,259
PUMPS	CONT.385	17,508			17,508
WALKOVERS	CONT.390	2,989			2,989
Downhole Lift Equipment			PCOMT.410	0	80,000
Surface Equipment			PCOMT.420	25,000	25,000
Well Automation Materials			PCOMT.455	8,000	8,000
N/C Lease Equipment	CONT.400	170,382			170,382
Tanks, Tanks Steps, Stairs	CONT.405	45,692			45,692
Battery Equipment	CONT.410	186,182			186,182
Secondary Containments	CONT.415	20,924			20,924
Overhead Power Distribution	CONT.420	80,280			80,280
Facility Electrical	CONT.425	21,778			21,778
Telecommunication Equipment	CONT.426	427			427
Meters and Metering Equipment	CONT.445	29,465			29,465
Facility Line Pipe	CONT.450	23,486			23,486
Lease Automation Materials	CONT.455	40,994			40,994
FL/GL - Materials	CONT.550	30,319			30,319
FL/GL - Line Pipe	CONT.555	69,178			69,178
Total Tangible Cost		746,863		48,000	1,654,863
Total Estimated Cost		**1,340,000**		**327,270**	**8,011,270**

Summary of Cimarex Contacts

Conoco Phillips/Concho:

- Sent well proposals on March 18, 2021.
- Had multiple, on-going discussions regarding acreage trade.
- A trade has been agreed upon and both parties have been engaged in almost daily discussions in order to finalize the trade.
- A set closing date for our trade is March 23, 2022 at 10:00 AM.

Devon:

- Cimarex sent Devon well proposals on July 21, 2021.
- 7/14/2021: Cimarex (Kelsi Henriques) reached out in regards to potential trade with Devon (Ryan Cloer).
- 7/19/2021: Sneaky Snake proposals received for the E/2W/2 wells.
- 7/20/2021: Devon emails stating Devon is planning Sneaky Snakes development and doesn't see Devon being willing to trade.
- 7/28/2021: Ms. Henriques and Mr. Cloer spoke on the phone where Ms. Henriques presented tracts of land that Devon might be interested in. This included W2 Sec. 26-23S-33E and the W2 Sec. 9-25S-32E.
- 8/9/2021: Ms. Henriques reached out to Devon requesting feedback.
- 8/13/2021: After reaching out to Devon on 8/9/2021 requesting feedback, Devon asked if Cimarex would be open to the W2 of 26 for the NW4 of 12 given that the 2nd BS had been developed and they didn't think they could make a straight swap 160 for 160.
- 8/18/2021: Mr. Cloer emailed stating he was under the impression that Cimarex would also want to include the 40 acres in Section 13 within Devon's Sneaky Snake Development. Ms. Henriques stated "no" as the acreage imbalance is already in Devon's favor but she would have the team also put it in their evaluation.
- 8/26/2021: Mr. Cloer checks in to see if Cimarex has feedback.
- 9/7/2021: Ms. Henriques emailed Mr. Cloer stating that Cimarex is still evaluating but again have reservations regarding the large acreage imbalance. Devon's response 9/7/2021 below:

  "I appreciate the update, Kelsi. To give some context behind our proposal:

We assumed that the acreage discrepancy would be unsettling but with the W2 Sec. 26 we are losing significant value with the 2nd BS already developed. Additionally, there is depletion at other primary horizons from our Thistle Federal Unit to the West and our Coachwhip to the East. Devon has unsuccessfully been trying to get the W2 Sec. 26 from Cimarex for several years. We are still interested but it does not have the same value for us as it once did due to the 2nd Bone development and depletion risk at other primary benches."

To be clear: Our 2nd sand development was spud in 2013 and 2017. Any reservations they would have had, they also would have had in previous years where they had been trying to acquire this acreage from XEC.

- 9/23/2021: Hearing notices were received and Ms. Henriques notified Devon that Cimarex would be requesting a continuance due to trade talks.

- 10/15/2021: Ms. Henriques sent the counter response of the following:

  "Ryan,

  We just had our final meeting with upper management on this trade. We would like to propose the following:
  - TO [Cimarex]:
    - NW/4 of Section 12, T23S-R32E – 160 Gross, 140 Net (100% WI/87.5% NRI)
  - To DVN:
    - W2 of Section 26, T23S-R33E – 320 Gross, 240 Net (100% WI/75% NRI)
      - CTRA will retain an ORRI to balance the acreage multiple seen in Devon's favor.

  I know in the past you have brought concern about the BS development in West Bell Lake, but there are still other BS targets available to execute in addition to Wolfcamp and Avalon. There is also an Avalon well we are taking into consideration in the NW/4 of 12. With available targets, well counts, etc. we see the proposed trade as equitable although still slightly more in Devon's favor on a value standpoint. "

- 11/1/2021: Counter proposal received from Devon.
  - Cimarex would receive:
    - NW Sec. 12-23S-32E (160 Gross/Net); delivering 87.5% NRI

  - Devon would receive:
    - W2 Sec. 26-23S-33E (320 Gross/Net); delivering 85% NRI
    - Cimarex's PDP in the West Bell Lake 26 Fed 1H & 2H wells delivering to Devon an 85% NRI

- 11/5/2021: Ms. Henriques sent a response to Mr. Cloer discussing value disconnect and more reasoning on Cimarex proposal trying to further the discussion.

- 11/29/2021: After discussing hearing dates and Devon refusing to move the hearings, Devon sends an email stating that other options on valuations, such as trying to equalize interest with their 1-2% interest in Red Hills would not work. Devon also proposed that the parties agree to 1.5-mile development (Cimarex) and 2.5-mile development (Devon).

- 11/30/2021: Ms. Henriques requested Devon engineer's contact information so that the parties could try to work out differences in valuation and to better understand the other side for both parties.

- 12/2/2021: Eddie Behm (Cimarex engineer) spoke with Karsan Sprague at Devon where they went through development plans. Karsan Sprague stated verbally that the 2.5% ORRI was most likely a "land tactic" and they could offer closer to 7.5% ORRI but with the PDP.

- 12/20/2021: Ms. Henriques reached out to Devon stating that she would like to meet up while she was in Oklahoma City to discuss coming back to the table with a smaller ORRI for Cimarex, but not delivering PDP. Mr. Cloer did not respond until after the 1st of the year and so Ms. Henriques was not able to meet with Devon while she was in Oklahoma City.

- 1/6/2022: Mr. Cloer and Ms. Henriques spoke on the phone where Ms. Henriques proposed that Cimarex could trade the 160 for the 320, retaining a 5% ORRI with NO PDP. Ms. Henriques was always very clear to state that Cimarex is not willing to trade PDP. Ms. Henriques dropped down to 3% ORRI when Ms. Henriques got a firm no all around for no PDP. Mr. Cloer said he would take this back to his team. Ms. Henriques then followed up with an email asking if Devon would be willing to go back to their original proposal of the flat 320 for 160.

- 1/6/2022: Lindsey Miles (Devon) sent their offer to Dylan Park (Cimarex) with 160 for 320 with PDP and no ORRI. This offer was worse than the first and other previous offers Cimarex had received from Devon. Devon increasingly asked for more value to be received on their end while giving up nothing additional to Cimarex.

- 1/11/2022: Devon proposes its 3 mile Sea Snake Wells, which traverse acreage that Cimarex proposed to be traded, the West Bell Lake. Cimarex has 100% WI and already has two 2nd Bone Spring wells drilled. Cimarex also already has facilities in place and all contracts necessary to conduct operations ready to go. Cimarex offered Devon this acreage, which Devon previously expressed they wanted numerous times in the past. In Cimarex's opinion, Devon is trying to force pool Cimarex because Cimarex would not agree to an unbalanced trade in these cases in Devon's favor.

- 1/18/2022: Devon emailed to continue discussing a trade to make a 2.5 mile and 1.5 mile option with Cimarex. However, this would mean that Cimarex would need more time to acquire Conoco's acreage that would be needed in order to make a swap with Devon and make this option feasible. Devon was not willing to give Cimarex additional time to evaluate this option or close a trade with Conoco. Ms. Henriques responded with their previous offers and stated that each offer has progressively gotten worse. If Cimarex were to move forward on the 1.5 mile and 2.5-mile plan, Cimarex would need more time to evaluate as once a hearing is completed, the opportunity to conduct a trade is significantly diminished.

- 2/17/2022: Mr. Cloer sent an email to Ms. Henriques suggesting that Devon and Cimarex revisit the 1.5 and 2.5-mile opportunity that Devon had proposed previously. Ms. Henriques' response was that since there are now proposed wells from Devon in the acreage we were trying to trade them, we would still like to work something to trade them that acreage and would be flexible there if we could come to terms on the acreage delta.

- 2/22/2022: Mr. Cloer responds to Ms. Henriques' request to see if we can still work out a trade in light of their proposals in the subject West Bell Lake trade acreage. He states that Devon can no longer consider 320-acre tract for the 160 in Section 12 due to Devon's own development immediately south of the acreage. Mr. Cloer also states how Devon moved up wells on their schedule to drill here during the time when the Sneaky Snakes were delayed due to the contested hearing and the trade talks concurrently happening.

- 2/22/2022: Ms. Henriques responded to Mr. Cloer's email stating that she understood Devon's position but in light of the impending hearing, [Cimarex] could not make business decisions on another party's development timeline in order to agree to Devon's proposed plan. [Cimarex] still finds value in the West Bell Lake acreage that Devon stated they no longer see value for a trade, but have wells now proposed there. Ms. Henriques proposed other trade opportunities and sent a general map with both parties' acreage.

- 2/22/2022: Mr. Cloer responded saying that they would take a look at the acreage and if they see it as a viable opportunity for Devon. Mr. Cloer requested the WI and NRI in one tract that was presented as an option.

- 3/8/2022: Ms. Henriques sent the WI and NRI for a subject tract to look at a different trade opportunity for the 160 acres in the subject unit.

- 3/14/2022: Ms. Henriques reached out see is Mr. Cloer was available for a call to discuss the new trade opportunities presented. Later that day, both parties discussed on the phone that there is something that could be worked with a combination of previously discussed tracts, the new tracts presented and potentially the tracts within what could be Devon's 2-mile Sneaky Snake wells if the laterals were shortened.

- 3/15/2022: Ms. Henriques reached out requesting an update for feedback from Mr. Cloer and his team at Devon. Mr. Cloer responded saying there most likely would not be an update until Monday 3/21/2022 as a lot of his coworkers are out due to spring break.

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

APPLICATIONS OF CIMAREX ENERGY CO.
FOR COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO **CASE NOS. 22314-22316**

AFFIDAVIT

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

Deana M. Bennett, attorney in fact and authorized representative of Cimarex Energy Co., the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications were provided under a notice letter mailed November 5, 2021, attached, and that proof of receipt is attached hereto. I also state that notice of the hearing was published in the Hobbs News-Sun on November 14, 2021, as reflected in the attached Affidavit of Publication.

Deana M. Bennett

SUBSCRIBED AND SWORN to before me this 17th day of March, 2022 by Deana M. Bennett.

Notary Public

My commission expires: 02-27-25

STATE OF NEW MEXICO
NOTARY PUBLIC
Karlene Schuman
Commission No. 1101248
February 27, 2025

EXHIBIT
tabbies
B-16A

arlene Schuman
odrall Sperling Roehl Harris & Sisk P.A.
00 Fourth Street, Suite 1000
lbuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
11/05/2021

Firm Mailing Book ID: 217766

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0088 5020 63	Lime Rock Resources A, L.P. 1111 Bagby St., Unit 4600 Houston TX 77002	$1.56	$3.75	$1.85	$0.00	82762.0202. Notice
2	9314 8699 0430 0088 5020 70	Lime Rock Resources B, L.P. 1111 Bagby St., Unit 4600 Houston TX 77002	$1.56	$3.75	$1.85	$0.00	82762.0202. Notice
3	9314 8699 0430 0088 5020 87	Lime Rock Resources C, L.P. 1111 Bagby St., Unit 4600 Houston TX 77002	$1.56	$3.75	$1.85	$0.00	82762.0202. Notice
4	9314 8699 0430 0088 5020 94	Devon Energy Production Company, L.P. 333 West Sheridan Oklahoma City OK 73102	$1.56	$3.75	$1.85	$0.00	82762.0202. Notice
5	9314 8699 0430 0088 5021 00	COG Operating LLC 600 W. Illinois Ave. Midland TX 79701	$1.56	$3.75	$1.85	$0.00	82762.0202. Notice
6	9314 8699 0430 0088 5021 17	ConocoPhillips Company 600 W. Illinois Ave. Midland TX 79701	$1.56	$3.75	$1.85	$0.00	82762.0202. Notice
		Totals:	**$9.36**	**$22.50**	**$11.10**	**$0.00**	
					Grand Total:	**$42.96**	

List Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office	Postmaster: Name of receiving employee	Dated:
6	6		

Transaction Report Details - CertifiedPro.net
Firm Mail Book ID= 217766
Generated: 1/27/2022 8:27:52 AM

USPS Article Number	Date Created	Reference Number	Name 1	City	State	Zip	Mailing Status	Service Options	Mail Delivery Date
9314869904300088502117	2021-11-05 7:21 AM	82762.0202.	ConocoPhillips Company	Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	2021-11-09 8:31 AM
9314869904300088502100	2021-11-05 7:21 AM	82762.0202.	COG Operating LLC	Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	2021-11-09 8:31 AM
9314869904300088502094	2021-11-05 7:21 AM	82762.0202.	Devon Energy Production Company, L.P.	Oklahoma City	OK	73102	Delivered	Return Receipt - Electronic, Certified Mail	2021-11-08 12:14 PM
9314869904300088502087	2021-11-05 7:21 AM	82762.0202.	Lime Rock Resources C, L.P.	Houston	TX	77002	Delivered	Return Receipt - Electronic, Certified Mail	2021-11-09 11:47 AM
9314869904300088502070	2021-11-05 7:21 AM	82762.0202.	Lime Rock Resources B, L.P.	Houston	TX	77002	Delivered	Return Receipt - Electronic, Certified Mail	2021-11-09 11:47 AM
9314869904300088502063	2021-11-05 7:21 AM	82762.0202.	Lime Rock Resources A, L.P.	Houston	TX	77002	Delivered	Return Receipt - Electronic, Certified Mail	2021-11-09 11:47 AM

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
November 14, 2021
and ending with the issue dated
November 14, 2021.

Publisher

Sworn and subscribed to before me this 14th day of November 2021.

Business Manager

My commission expires
January 29, 2023
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE
November 14, 2021

CASE No. 22313: Notice to all affected parties, as well as the heirs and devisees of Lime Rock Resources, A, L.P.; Lime Rock Resources B, L.P.; Lime Rock Resources C, L.P.; Devon Energy Production Company, L.P.; COG Operating LLC; and ConocoPhillips Company of Cimarex Energy Co.'s Application for compulsory pooling, Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on December 2, 2021, to consider this application. Applicant seeks an order from the Division pooling all uncommitted interests within a Bone Spring horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 12H; Coriander 1-12 Fed Com 16H; Coriander 1-12 Fed Com 18H; Coriander 1-12 Fed Com 25H; Coriander 1-12 Fed Com 27H; and Coriander 1-12 Fed Com 28H wells** to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 27H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

CASE NO. 22314: Notice to all affected parties, as well as the heirs and devisees of Lime Rock Resources, A, L.P.; Lime Rock Resources B, L.P.; Lime Rock Resources C, L.P.; Devon Energy Production Company, L.P.; COG Operating LLC; and ConocoPhillips Company of Cimarex Energy Co.'s Application for compulsory pooling, Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on December 2, 2021, to consider this application. Applicant seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 26H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 26H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

CASE NO. 22315: Notice to all affected parties, as well as the heirs and devisees of Lime Rock Resources, A, L.P.; Lime Rock Resources B, L.P.; Lime Rock Resources C, L.P.; Devon Energy Production Company, L.P.; COG Operating LLC; and ConocoPhillips Company of Cimarex Energy Co.'s Application for compulsory pooling, Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on December 2, 2021, to consider this application. Applicant seeks an order from the Division pooling all uncommitted interests within an Avalon horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 19H; Coriander 1-12 Fed Com 29H; and Coriander 1-12 Fed Com 30H** wells to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 19H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

CASE NO. 22316: Notice to all affected parties, as well as the heirs and devisees of Lime Rock Resources, A, L.P.; Lime Rock Resources B, L.P.; Lime Rock Resources C, L.P.; Devon Energy Production Company, L.P.; COG Operating LLC; and ConocoPhillips Company of Cimarex Energy Co.'s Application for compulsory pooling, Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on December 2, 2021, to consider this application. Applicant seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 13H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 13H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.
#37028

ALBUQUERQUE, NM 87103-2168

MODRALL SPERLING

LAWYERS

Deana M. Bennett
505.848.1834
dmb@modrall.com

November 5, 2021

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

CASE NO. 22313

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

CASE NO. 22314

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

CASE NO. 22315

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

CASE NO. 22316

TO: AFFECTED PARTIES

This letter is to advise you that Cimarex Energy Co. ("Cimarex") has filed the above-listed applications.

In Case No. 22313, Cimarex seeks an order from the Division pooling all uncommitted interests within a Bone Spring horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 12H; Coriander 1-12 Fed Com 16H; Coriander 1-12 Fed Com 18H; Coriander 1-12 Fed Com 25H; Coriander 1-12 Fed Com 27H; and Coriander 1-12 Fed Com 28H wells** to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 27H** well is less than 330' from the

Modrall Sperling
Roehl Harris & Sisk P.A.

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Suite 1000
Albuquerque,
New Mexico 87102

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Albuquerque,
New Mexico 87103-2168

Tel: 505.848.1800
www.modrall.com

adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

In Case No. 22314, Cimarex seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 26H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 26H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

In Case No. 22315, Cimarex seeks an order from the Division pooling all uncommitted interests within an Avalon horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 19H; Coriander 1-12 Fed Com 29H; and Coriander 1-12 Fed Com 30H wells** to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 19H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

In Case No. 22316, Cimarex seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 13H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 13H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the

allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on December 2, 2021 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: http://www.emnrd.state.nm.us/OCD/hearings.html.

As a party who may be affected by these applications, we are notifying you of your right to appear at the hearing and participate in these cases, including the right to present evidence either in support of or in opposition to the applications. Failure to appear at the hearing may preclude you from any involvement in these cases at a later date.

You are further notified that if you desire to appear in these cases, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Sincerely,

Deana M. Bennett

Deana M. Bennett
Attorney for Applicant

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

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

CASE NO. 22314

APPLICATION

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 320-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 26H** well to a depth sufficient to test the Wolfcamp formation.

4. The well will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the well or to otherwise commit their interests to the well.

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

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on December 2, 2021, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the well to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the well;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted,

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

By: Deana M. Bennett

Earl E. DeBrine, Jr.
Deana M. Bennett
Jamie L. Allen
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500 Fourth Street NW, Suite 1000
Albuquerque, New Mexico 87103-2168

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dmb@modrall.com
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Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Lea County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying W/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 26H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 26H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

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

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

CASE NO. 22315

APPLICATION

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within an Avalon horizontal spacing unit underlying the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 640-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 19H; Coriander 1-12 Fed Com 29H; and Coriander 1-12 Fed Com 30H wells** to a depth sufficient to test the Avalon formation.

4. The wells will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. The completed interval for the **Coriander 1-12 Fed Com 19H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed spacing unit.

6. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Avalon formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

7. The pooling of all interests in the Avalon formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on December 2, 2021, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Avalon formation underlying a horizontal spacing unit within the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the wells to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the wells;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

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

By: Deana M. Bennett

Earl E. DeBrine, Jr.
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CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Lea County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted interests within an Avalon horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 19H; Coriander 1-12 Fed Com 29H; and Coriander 1-12 Fed Com 30H wells** to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 19H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

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

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

CASE NO. 22316

APPLICATION

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 320-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 13H** well to a depth sufficient to test the Wolfcamp formation.

4. The well will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the well or to otherwise commit their interests to the well.

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

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on December 2, 2021, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the well to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the well;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted,

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

By: Deana M. Bennett

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Attorneys for Applicant

CASE NO. ____: Application of Cimarex Energy Co. for compulsory pooling, Lea County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted interests within a Wolfcamp horizontal spacing unit underlying E/2 W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 13H** well to be horizontally drilled. The producing area for the **Coriander 1-12 Fed Com 13H** well will be orthodox. Also to be considered will be the cost of drilling, completing, and equipping said well, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

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

APPLICATION OF CIMAREX ENERGY CO.
FOR COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO **CASE NO. 22313**

AFFIDAVIT

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

Deana M. Bennett, attorney in fact and authorized representative of Cimarex Energy Co., the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications were provided under a notice letter mailed January 13, 2022, attached, and that proof of receipt is attached hereto. I also state that notice of the hearing was published in the Hobbs News-Sun on January 16, 2022, as reflected in the attached Affidavit of Publication.

Deana M. Bennett

SUBSCRIBED AND SWORN to before me this 17th day of March, 2022 by Deana M. Bennett.

Karlene Schuman
Notary Public

My commission expires: 02-27-25

STATE OF NEW MEXICO
NOTARY PUBLIC
Karlene Schuman
Commission No. 1101248
February 27, 2025

EXHIBIT
tabbies
B-16B

arlene Schuman
odrall Sperling Roehl Harris & Sisk P.A.
0 Fourth Street, Suite 1000
buquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
01/13/2022

Firm Mailing Book ID: 220881

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0090 6946 71	Lime Rock Resources A, L.P. 1111 Bagby St., Unit 4600 Houston TX 77002	$1.36	$3.75	$1.85	$0.00	82762.0202. Notice
2	9314 8699 0430 0090 6946 88	Lime Rock Resources B, L.P. 1111 Bagby St., Unit 4600 Houston TX 77002	$1.36	$3.75	$1.85	$0.00	82762.0202. Notice
3	9314 8699 0430 0090 6946 95	Lime Rock Resources C, L.P. 1111 Bagby St., Unit 4600 Houston TX 77002	$1.36	$3.75	$1.85	$0.00	82762.0202. Notice
4	9314 8699 0430 0090 6947 01	Devon Energy Production Company, L.P. 333 West Sheridan Oklahoma City OK 73102	$1.36	$3.75	$1.85	$0.00	82762.0202. Notice
5	9314 8699 0430 0090 6947 18	COG Operating LLC 600 W. Illinois Ave. Midland TX 79701	$1.36	$3.75	$1.85	$0.00	82762.0202. Notice
6	9314 8699 0430 0090 6947 25	ConocoPhillips Company 600 W. Illinois Ave. Midland TX 79701	$1.36	$3.75	$1.85	$0.00	82762.0202. Notice
		Totals:	**$8.16**	**$22.50**	**$11.10**	**$0.00**	
					Grand Total:	**$41.76**	

ALBUQUERQUE NM 87101 JAN 13 2022 USPS

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USPS Article Number	Date Created	Reference Number	Name 1	City	State	Zip	Mailing Status	Service Options	Mail Delivery Date
9314869904300090694725	2022-01-13 2:00 PM	82762.0202.	ConocoPhillips Company	Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	2022-01-19 8:20 AM
9314869904300090694718	2022-01-13 2:00 PM	82762.0202.	COG Operating LLC	Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	2022-01-19 8:20 AM
9314869904300090694701	2022-01-13 2:00 PM	82762.0202.	Devon Energy Production Company, L.P.	Oklahoma City	OK	73102	Delivered	Return Receipt - Electronic, Certified Mail	2022-01-18 9:15 AM
9314869904300090694695	2022-01-13 2:00 PM	82762.0202.	Lime Rock Resources C, L.P.	Houston	TX	77002	Delivered	Return Receipt - Electronic, Certified Mail	
9314869904300090694688	2022-01-13 2:00 PM	82762.0202.	Lime Rock Resources B, L.P.	Houston	TX	77002	Delivered	Return Receipt - Electronic, Certified Mail	
9314869904300090694671	2022-01-13 2:00 PM	82762.0202.	Lime Rock Resources A, L.P.	Houston	TX	77002	Delivered	Return Receipt - Electronic, Certified Mail	

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
January 16, 2022
and ending with the issue dated
January 16, 2022.

Publisher

Sworn and subscribed to before me this
16th day of January 2022.

Business Manager

My commission expires
January 29, 2023
(Seal)

GUSSIE BLACK
Notary Public - State of New Mexico
Commission # 1087526
My Comm. Expires Jan 29, 2023

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE
January 16, 2022

CASE NO. 22313: Amended Application of Cimarex Energy Co. for Compulsory Pooling, Lea County, New Mexico. Notice to all affected parties, as well as the heirs and devisees of Lime Rock Resources, A, L.P.; Lime Rock Resources B, L.P.; Lime Rock Resources C, L.P.; Devon Energy Production Company, L.P.; COG Operating LLC; and ConocoPhillips Company of Cimarex Energy Co.'s Amended Application for compulsory pooling, Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on February 3, 2022, to consider this application. Applicant seeks an order from the Division pooling all uncommitted interests within a Bone Spring horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the Coriander 1-12 Fed Com 12H; Coriander 1-12 Fed Com 16H; **Coriander 1-12 Fed Com 18H; Coriander 1-12 Fed Com 25H; Coriander 1-12 Fed Com 27H; Coriander 1-12 Fed Com 28H; and Coriander 1-12 Fed Com 31H wells** to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 27H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.
#37224

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DOLORES SERNA
MODRALL, SPERLING, ROEHL, HARRIS &
P. O. BOX 2168
ALBUQUERQUE, NM 87103-2168

MODRALL SPERLING

LAWYERS

Deana M. Bennett
505.848.1834
dmb@modrall.com

January 13, 2022

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

CASE NO. 22313

TO: AFFECTED PARTIES

This letter is to advise you that Cimarex Energy Co. ("Cimarex") has filed the above-listed amended application.

In Case No. 22313, Cimarex filed an Amended Application, enclosed, to add the Coriander 1-12 Fed Com 31H well and to include the updated hearing date of February 3, 2022. As amended, and as reflected in the attached Amended Application, in Case No. 22313, Cimarex seeks an order from the Division pooling all uncommitted interests within a Bone Spring horizontal spacing unit underlying W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. This spacing unit will be dedicated to the **Coriander 1-12 Fed Com 12H; Coriander 1-12 Fed Com 16H; Coriander 1-12 Fed Com 18H; Coriander 1-12 Fed Com 25H; Coriander 1-12 Fed Com 27H; Coriander 1-12 Fed Com 28H; and Coriander 1-12 Fed Com 31H wells** to be horizontally drilled. The producing area for the wells will be orthodox. The completed interval for the **Coriander 1-12 Fed Com 27H** well is less than 330' from the adjoining tracts to allow inclusion of proximity tracts within the proposed horizontal spacing unit. Also to be considered will be the cost of drilling, completing, and equipping said wells, the allocation of these costs as well as the actual operating costs and charges for supervision while drilling and after completion, designation of Cimarex Energy Co. as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 30 miles west of Jal, New Mexico, New Mexico.

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During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on February 3, 2022 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: http://www.emnrd.state.nm.us/OCD/hearings.html.

As a party who may be affected by these applications, we are notifying you of your right to appear at the hearing and participate in these cases, including the right to present evidence either in support of or in opposition to the applications. Failure to appear at the hearing may preclude you from any involvement in these cases at a later date.

You are further notified that if you desire to appear in these cases, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Sincerely,

Deana M. Bennett

Deana M. Bennett
Attorney for Applicant

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

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

CASE NO. 22313

AMENDED APPLICATION[1]

Cimarex Energy Co. ("Cimarex"), OGRID Number 215099, through its undersigned attorneys, hereby submits this *amended* application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. In support of this *amended* application, Cimarex states as follows:

1. Cimarex has an interest in the subject lands and has a right to drill and operate a well thereon.

2. Cimarex seeks to dedicate the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico to form a 640-acre, more or less, horizontal spacing unit.

3. Cimarex plans to drill the **Coriander 1-12 Fed Com 12H; Coriander 1-12 Fed Com 16H; Coriander 1-12 Fed Com 18H; Coriander 1-12 Fed Com 25H; Coriander 1-12 Fed Com 27H; Coriander 1-12 Fed Com 28H, and Coriander 1-12 Fed Com 31H wells** to a depth sufficient to test the Bone Spring formation.

[1] Amended only to add the **Coriander 1-12 Fed Com 31H well** and to include updated hearing date of February 3, 2022.

4. The wells will be horizontally drilled and will be drilled at orthodox locations under the Division's rules.

5. The completed interval for the **Coriander 1-12 Fed Com 27H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed spacing unit.

6. Cimarex sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Bone Spring formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

7. The pooling of all interests in the Bone Spring formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

WHEREFORE, Cimarex requests that this case is set for hearing before an Examiner of the Oil Conservation Division on February 3, 2022, and after notice and hearing as required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Bone Spring formation underlying a horizontal spacing unit within the W/2 of Sections 1 and 12, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico;

B. Designating Cimarex as operator of this unit and the wells to be drilled thereon;

C. Authorizing Cimarex to recover its costs of drilling, equipping and completing the wells;

D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

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

By: Deana M Bennett

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Attorneys for Applicant

GEOLOGY

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

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

Case Nos. 22313-22316

APPLICATIONS OF DEVON ENERGY PRODUCTION COMPANY, L.P. FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

Case Nos. 22179-22180 & 22382

AFFIDAVIT OF JENNIFER A. BLAKE

Jennifer A. Blake, being duly sworn, deposes and states:

1. I am over the age of 18, I am a geologist for Cimarex Energy Co. ("Cimarex"), and have personal knowledge of the matters stated herein.

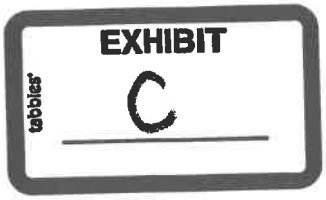
2. I have not previously testified before the Oil Conservation Division ("Division").

3. I attended the Colorado School of Mines where I received a MS in Geology. I attended Texas A&M University for my undergraduate work, where I received a BS in Geology.

4. I have worked as a geologist since 2018, beginning as a summer intern, and since June 2020 as a geologist for Cimarex. My resume summarizing my educational and work experience is attached to this affidavit as Exhibit E-2.

5. My work for Cimarex includes the Permian Basin in New Mexico.

6. I am familiar with the applications filed by Cimarex in Cases 22313-22316 and with the applications filed by Devon Energy Production Company, L.P. ("Devon") in Cases 22179-22180, and 22382.



7. I conducted a geological study of the areas embracing Cimarex's Coriander Fed Com Development Area and Devon's Sneaky Snake Development Area. As Ms. Henriques testified, one of the primary issues in these contested cases is operatorship of Section 12, which is the "Overlap Acreage." While I focus on the Overlap Acreage/Section 12, my testimony applies equally to Devon's development plan in general. Cimarex's development plan for the Overlap Acreage is superior to Devon's because:

- In this area, three-mile laterals are risky due to the geology of the Avalon because of the volumes of limestone and chert present, which makes drilling and completing wells more difficult, making Devon's plans to develop Section 12 riskier than Cimarex's. Simply put, based on the geology in this area, Devon's 3-mile development plan for the Avalon presents risk that Cimarex's does not and, as a result, Cimarex's plan to develop the Overlap Acreage is superior to Devon's.
- Cimarex's development plan prevents waste of reserves in the Overlap Acreage while Devon's development plan will result in waste because Cimarex is targeting the First Bone Spring Sand and Devon is not. The First Bone Spring Sand has thick net reservoir—Devon's plan leaves behind all reserves in the First Bone Spring in the Overlap Acreage, as well as along the other two miles at issue in Devon's plan.
- Cimarex's development plan prevents waste of reserves in the Overlap Acreage while Devon's development plan will result in waste for a second reason—Cimarex is directly targeting the Third Bone Spring Sand and Devon is not. Devon's uppermost Wolfcamp targets likely will not access the entire Third Bone Spring Sands reserves because there is a significant volume of carbonate between Devon's Wolfcamp X Sand landing and the 3rd Bone Spring Sand reservoir, making the likelihood of their Wolfcamp X Sand wells accessing the Third Bone Spring Sand reservoir low. Cimarex's 3rd Bone Spring Sand target is superior to Devon's Wolfcamp X Sand landing because (a) the upper and lower wells have a larger vertical spacing (approximately 300 ft. versus 190 ft.) and (b) Cimarex's planned Third Bone Spring Sand wells have a significantly higher probability of draining the reserves from the Third Bone Spring Sand compared to Devon's planned Wolfcamp X Sand wells.

8. Exhibits C-1 and C-2 are relevant to all of the cases. Exhibit C-1 is a locator map, which identifies the general location of the Coriander Fed Com Project Area within the Permian Basin. Exhibit GEO-2 is an excerpt from Snee & Zoback, 2018, identifying the horizontal stress orientation in this area. The preferred well orientation in this area is N-S/S-N, due to the fact that regional max horizontal stress orientation in this area is approximately N80E.

9. The exhibits behind Tab C-3 are the geology study I prepared for Case No. 22315, which involves Avalon wells, which are the 19H, 29H, and 30H wells.

10. Exhibit C-3 contains the following exhibits:

- C-3-A: Wellbore schematic: The proposed unit is identified by a black box and the three Avalon wells proposed in Case No. 22315 are identified by blue lines.
- C-3-B: Avalon Structure map: The structure map shows that the structure dips to the southeast.
- C-3-C: Stratigraphic cross section and cross-section well locator map: The inset map on this exhibit identifies three wells in the vicinity of the proposed Avalon wells, shown by a line of cross-section running from D to D'. The well logs on the cross-section give a representative sample of the Avalon formation in the area. A stratigraphic cross section flattened on the base of the Avalon formation (top of the First Bone Spring Sand) shows that the Avalon is geologically complex and complicated by carbonate mass transports and chert, which are not laterally continuous, even over short distances. On a three-well cross section with the wells ranging from 2.6 miles to 3.4 miles apart shows how variable the formation is. This geologic complexity will make drilling and completing a 3-mile lateral into the Avalon in this area more difficult since limestone and chert are dense and "tight" (i.e. very low porosity).
- C-3-D: Net Reservoir Map: A net reservoir map was created by netting the gamma ray values greater than 55 APIs of the Avalon in order to capture the siltstones and sandstones and eliminate the low-API (<50 API) carbonates that are considered

non-reservoir. The map indicates thick net reservoir within the subject area. The net reservoir thickness within Cimarex's proposed HSU is approximately 425-450 ft.

- C-3-E: Mudlog: Two mudlogs from Cimarex's immediately adjacent Coriander AOC 1-12 State 2H and 3H Avalon wells (identified on the inset map) show that the lithology of the formation is highly variable. While there are high volumes of shale encountered along the wellbore, there are also high volumes of limestone and chert, which make drilling and completing wells more difficult due to the dense and low-porosity nature of the lithology. In my opinion, the geologic complexity in this area means that operational risk increases with increasing lateral length.

11. Exhibit C-4 is the geology study I prepared for the First Bone Spring wells, which are the 18H and 31H wells.

12. Exhibit C-4 contains the following exhibits:

- C-4-A: Wellbore schematic: The proposed unit is identified by a black box and the two proposed First Bone Spring wells are identified by blue lines.
- C-4-B: First Bone Springs structure map: The structure map shows that the structure dips to the southeast.
- C-4-C: Stratigraphic cross section and cross-section well locator map: The inset map on this exhibit identifies four wells in the vicinity of the proposed First Bone Spring wells, shown by a line of cross-section running from C to C'. The well logs on the cross-section give a representative sample of the First Bone Spring Sand formation in the area. A stratigraphic cross section flattened on top of the 1st Bone Spring Sand shows that the formation is geologically consistent in the area in terms of lithology and porosity. The formation is predominantly composed of low-resistivity, high-porosity siltstones and sandstones. The formation exhibits consistent thickness across the Area of Interest ("AOI").
- C-4-D: Net Reservoir Map: A net reservoir map was created by netting the gamma ray values greater than 50 APIs of the 1st Bone Spring Sand in order to capture the siltstones and sandstones and eliminate the low-API (<50 API) carbonates that are considered non-reservoir. The map indicates that there is a similar net reservoir

thickness across the acreage (~200-265 ft.). There are two successful offset wells – one to the west and the other to the northeast of Cimarex's acreage. Both of these wells landed in the First Bone Spring Sand and show similar net reservoir thickness indicating that the First Bone Spring Sand is a viable target in the AOI. By Devon not targeting the First Bone Spring Sand, they are leaving reserves behind.

13. Based on my review of the geology studies I prepared for the First Bone Spring wells, there are no structural faults, pinch-outs, or other geological or impediments that would impair or impede the drilling of First Bone Spring horizontal wells in the Coriander Fed Com Development Area.

14. Exhibit C-5 is the geology study I prepared for the Second Bone Spring wells, which are the 16H, 27H, and 28H wells.

15. Exhibit C-5 contains the following exhibits:

- C-5-A: Wellbore schematic: The proposed unit is identified by a black box and the three proposed Second Bone Spring wells are identified by green and blue lines.
- C-5-B: Second Bone Spring structure map: box. The structure map shows that the structure dips to the southeast.
- C-5-C: Stratigraphic cross section and cross-section well locator map: The inset map on this exhibit identifies three wells in the vicinity of the proposed Second Bone Spring wells, shown by a line of cross-section running from B to B'. The well logs on the cross-section give a representative sample of the Second Bone Spring Sand formation in the area. A stratigraphic cross sections flattened on the base of the Second Bone Spring Sand (top of the Third Bone Spring Carbonate) indicates that the Second Bone Spring Sand has similar thickness, lithology, and reservoir quality in the subject area. Based on the gamma ray and neutron-porosity curves, the Second Bone Spring Sand is composed of high-porosity sands and siltstones indicating high reservoir quality.
- C-5-D: Net Reservoir Map: A net reservoir map was created by netting the gamma ray values greater than 55 APIs of the Second Bone Spring Sand in order to capture the siltstones and sandstones and eliminate the low-API (<55 API) carbonates that

are considered non-reservoir. The map indicates that the Second Bone Spring Sand contains ~360-400 ft. of net reservoir within Cimarex's proposed HSU. These thicknesses are similar to offset Second Bone Spring Sand successful developments, indicating that the formation is a viable target in the AOI.

16. Exhibit C-6 is the geology study I prepared for the Third Bone Spring wells, which are the 12H and 25 H wells, and the Upper Wolfcamp A wells, which are the 13H and 26H wells. Exhibit C-6-A is the wellbore schematic: The proposed unit is identified by a black box and the two proposed Third Bone Spring wells are identified by green lines and the two proposed Wolfcamp A wells are identified by blue lines.

17. My testimony in this section focuses first on the geologic reasons why Cimarex intends to co-develop the Third Bone Spring and Upper Wolfcamp A and includes exhibits highlighting the differences between Cimarex's plan and Devon's plan. These exhibits, in Cimarex's opinion, demonstrate why Cimarex's development plan is superior to Devon's because Cimarex's plan more effectively and efficiently targets reserves, leading to greater production, protection of correlative rights, and the prevention of waste. After the discussion of the comparison of Cimarex's and Devon's plans, my testimony provides the geology studies for each of the Third Bone Spring and Wolfcamp formations.

18. Exhibit C-6-B is a wine rack identifying Cimarex's and Devon's proposed laterals. The Third Bone Spring Sand is identified by green shading. As you can see, Cimarex is proposing two Third Bone Spring Sand wells, whereas Devon is not proposing any. In terms of Wolfcamp development, Cimarex is proposing two Upper Wolfcamp A wells (purple shading) whereas Devon is proposing two Wolfcamp XY wells (light blue shading) and two Upper Wolfcamp A wells (purple shading). Cimarex's plan involves co-developing the Third Bone Spring Sand and Upper Wolfcamp A with landings roughly 300 ft. apart (based on structure maps). In contrast,

Devon's plan disregards the Third Bone Spring Sand as a potential landing zone and Devon is staggering their wells between the Wolfcamp X Sand and Upper Wolfcamp A with landings roughly only 190 ft. apart (based on TVDs given in well proposals).

19. Exhibit C-6-C overlays Cimarex's and Devon's plans on the cross-section, as well as Oxy's executed Avogato Third Bone Spring Sand development for comparison. I will discuss this cross section in more detail later in my testimony but I present this comparison now as it highlights the differences between the proposals. Oxy's Avogato Third Bone Spring Sand development is an important analog because they drilled six wells into the middle-lower Third Bone Spring Sand which have proven to be strong performers. Since Oxy did not develop the Third Bone Spring Sand with the Upper Wolfcamp, and the fact that HFTSII pressure gauge data has shown that hydraulic fractures preferentially grow upward, we can conclude that the oil produced from the wells landed in Third Bone Spring Sand is, in fact, being extracted from the Third Bone Spring Sand formation (i.e. the wells are not pulling hydrocarbons from the Upper Wolfcamp). This data point proves that there are significant reserves within the Third Bone Spring Sand, and by Devon not directly targeting this formation, they will likely leave barrels behind.

20. Devon's uppermost landing in the Wolfcamp X Sand is roughly 200 ft. below where Oxy landed their Avogato wells and roughly 430 ft. below the top of the Third Bone Spring reservoir (based on the Diamondtail 23 Fed 1H type log). There are also significant volumes of carbonate between Devon's Wolfcamp X Sand landing and the Third Bone Spring Sand reservoir, making the likelihood of their Wolfcamp X Sand wells accessing the entire Third Bone Spring Sand reservoir low. Not only does Devon's plan strand reserves in the Third Bone Spring Sand, but their Wolfcamp Sands and Wolfcamp A landings are redundant as the two landings will be accessing the same reserves. These reserves could be more efficiently captured by only drilling the

Wolfcamp A target (i.e. Cimarex's plan), which makes drilling the additional Wolfcamp Sands wells unnecessary. This is shown in Exhibit C-6-D.

21. Exhibit C-6-E is a map of South Lea County that identifies existing Third Bone Spring Sand and existing Wolfcamp X Sand wells in roughly a nine township area in southern Lea County. This map establishes that the Wolfcamp X Sand is not a common target in either southern Lea County as a whole or within the AOI. Many of the Wolfcamp X Sand wells drilled in Lea County are operated by Devon. The fact that other operators only infrequently target the Wolfcamp X in this area suggests to me that those operators, like Cimarex, do not value the Wolfcamp X as an optimal target. There are only two Wolfcamp X Sand wells within the AOI and these are also operated by Devon (their Danger Noodle wells). On the other hand, the Third Bone Spring Sand is a more prevalent and proven target, especially within the AOI.

22. Exhibit C-6-F shows Third Bone Spring Sand/Upper Wolfcamp nearby developments. Within the AOI, nearly all of the Third Bone Spring Sand/Upper Wolfcamp developments target the 3rd Bone Spring Sand alone or stagger the Third Bone Spring Sand with the Upper Wolfcamp (i.e. they do not target the Wolfcamp alone). The six closest developments (shown on the slide) land their wells within the Third Bone Spring Sand, and the modern developments with sufficient production data show strong results.

23. Exhibit C-6-G is a net reservoir map created from a mudlog from Cimarex's Red Tank 4 Fed 1H well. The map was created by netting the gamma ray values greater than 50 APIs of the Third Bone Spring Sand in order to capture the siltstones and sandstones and eliminate the low-API (<50 API) carbonates that are considered non-reservoir. The mudlog and map show significant oil shows throughout the 3rd Bone Spring Sand, a strong indication that there are hydrocarbons residing within the 3rd Bone Spring Sand. Cimarex's plan incorporates this data and

optimizes landing zone strategy by targeting the interval with great oil shows and thick sand within the Third Bone Spring Sand, whereas Devon's plan excludes this strong oil show. This mudlog also indicates no oil shows in the Wolfcamp X or Y sands, which is what Devon is targeting.

24. Exhibit C-6 contains the following additional exhibits:

- C-6-H: Third Bone Spring structure map: The structure map shows that the structure dips to the southeast.
- C-6-I: Third Bone Spring Gross Isopach map: In the area of interest, there is a localized thick net reservoir with some of the thickest areas being located over The formation is about 440-460' thick in Cimarex's proposed HSU in Sections 1 and 12 which thins to the south of Section 12 into Devon's proposed HSU.
- C-6-J: Upper Wolfcamp structure map: The Structure Map shows that the structure dips to the southeast.
- C-6-K: Upper Wolfcamp Gross Isopach map: A gross isopach of the Upper Wolfcamp A indicates that the interval is approximately 280-295 ft. thick within Cimarex's proposed HSU with the interval thinning to the south where Devon has proposed their HSU.
- C-6-L: Third Bone Spring/Upper Wolfcamp Stratigraphic cross section and cross-section well locator map: The inset map on this exhibit identifies three wells in the vicinity of the proposed wells, shown by a line of cross-section running from A to A'. The well logs on the cross-section give a representative sample of the Third Bone Spring and Upper Wolfcamp formations in the area. A stratigraphic cross section flattened on the top of the Third Bone Spring Sand shows that there is a lot of geologic complexity within the formation. In this area, there are high volumes of carbonate mass transport deposits within the Third Bone Spring Sand, especially in the basal portion of the formation. These carbonates can act as frac baffles and barriers to wells landed in the Upper Wolfcamp. In order to efficiently and effectively capture the hydrocarbons in the Third Bone Spring Sand, it is best to land wells within the Third Bone Spring Sand itself, which is what Cimarex plans to do.

25. Based upon my study as illustrated in these exhibits, knowledge of the geology in this area, and education and training, it is my expert opinion that:

a. Cimarex's 2-mile horizontal spacing units are justified from a geologic standpoint.

b. There are no structural impediments or faulting that will interfere with 2-mile horizontal development.

c. Each quarter-quarter section in Cimarex's proposed 2-mile units will contribute more or less equally to production.

26. The producing interval for each of these Proposed Wells will be orthodox and will comply with the Division's set back requirements.

27. In my opinion, Cimarex's Coriander Fed Com Development plan prevents waste and protects correlative rights.

28. To summarize, the difference between Cimarex's proposal and Devon's proposal is Cimarex proposes 2-mile horizontal spacing units that will allow both Cimarex and Devon to efficiently develop the subject acreage while Devon's proposal limits Cimarex to 1-mile wells in Section 1, significantly delaying or possibly entirely preventing development of Section 1. Devon plans to drill two Wolfcamp X Sand wells and two Wolfcamp Upper A wells at tighter vertical spacing while Cimarex plans to drill two Third Bone Spring Sand wells and two Upper Wolfcamp A wells at more optimal vertical spacing. Additionally, Cimarex plans to drill two First Bone Spring Sand wells while Devon does not plan to drill any wells into this formation. In my opinion, Devon's proposal, including its plan to develop the Overlap Acreage, is inferior to Cimarex's development plans because Devon's plan will leave behind reserves in the First Bone Spring Sand and could leave behind reserves in the Third Bone Spring Sand. The fact that Devon's 3-mile

laterals would drill through setback acreage is not actually a benefit because under Devon's 3-mile/1-mile plan, the same amount of acreage would be subject to setbacks, and, in fact, Devon's plan could lead to the stranding of Cimarex's acreage in Section 1. In addition, as discussed above, any potential reserves Devon may access by virtue of drilling through setbacks is offset by the fact that Devon is leaving behind reserves in the First Bone Spring and potentially leaving behind reserves in the Third Bone Spring. Also, as will be discussed by Mr. Behm, 3-mile Wolfcamp laterals in this area of Lea County underperform as compared to shorter laterals, which would also offset any (unlikely) additional reserves Devon might access by drilling through the setbacks.

29. In my opinion, the geologic evidence favors Cimarex's overall development plan, and Cimarex will be able to efficiently recover the oil and gas reserves underlying the Overlap Acreage, along with Cimarex's 100% owned acreage in Section 1. Cimarex's development plan presents less risk, and prevents waste. Conversely, the geologic evidence demonstrates that Devon's overall development plan, including its plan to develop the Overlap Acreage, is inefficient, riskier, and will result in waste.

30. The attachments to my affidavit were prepared by me or compiled under my direction or supervision.

FURTHER AFFIANT SAYETH NOT.

Jennifer A. Blake

Jennifer A. Blake

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

SUBSCRIBED AND SWORN to before me this 16th day of March 2022 by Jennifer A. Blake.

Kaimi Brownlee

Notary Public

My commission expires: 3/26/2023

SEAL

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

Locator Map

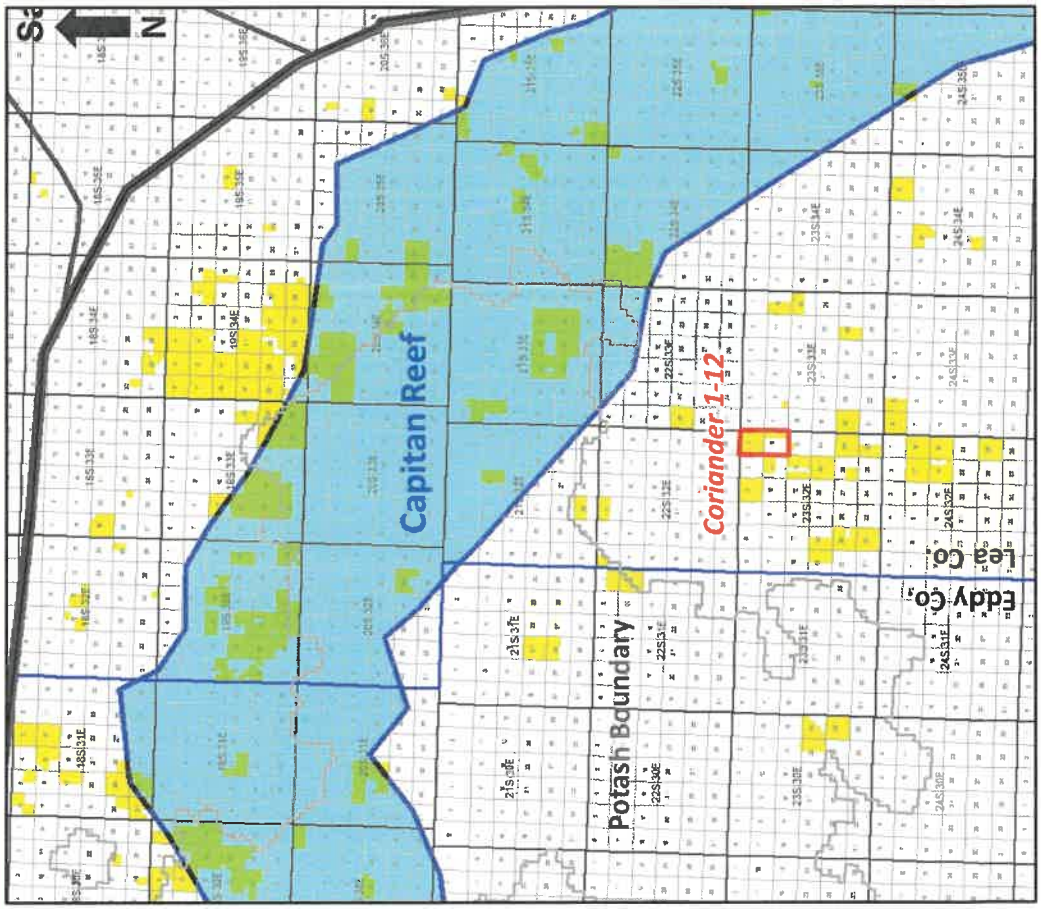
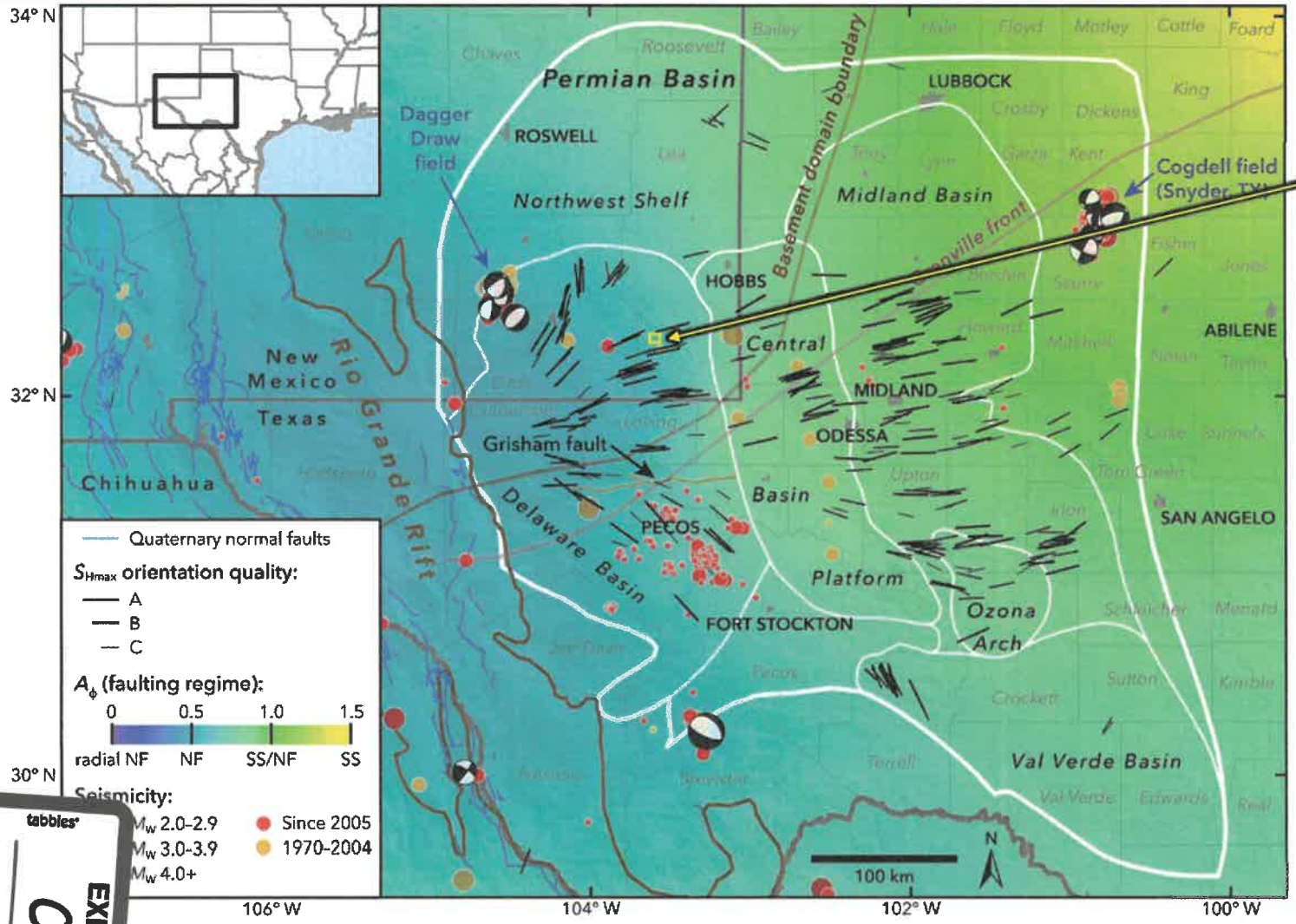


EXHIBIT
tabbies
C-1

Stress Orientation



Stress orientation is approximately E-W at Cimarex's Coriander 1-12 Sections which demonstrates that N-S is optimal drilling direction

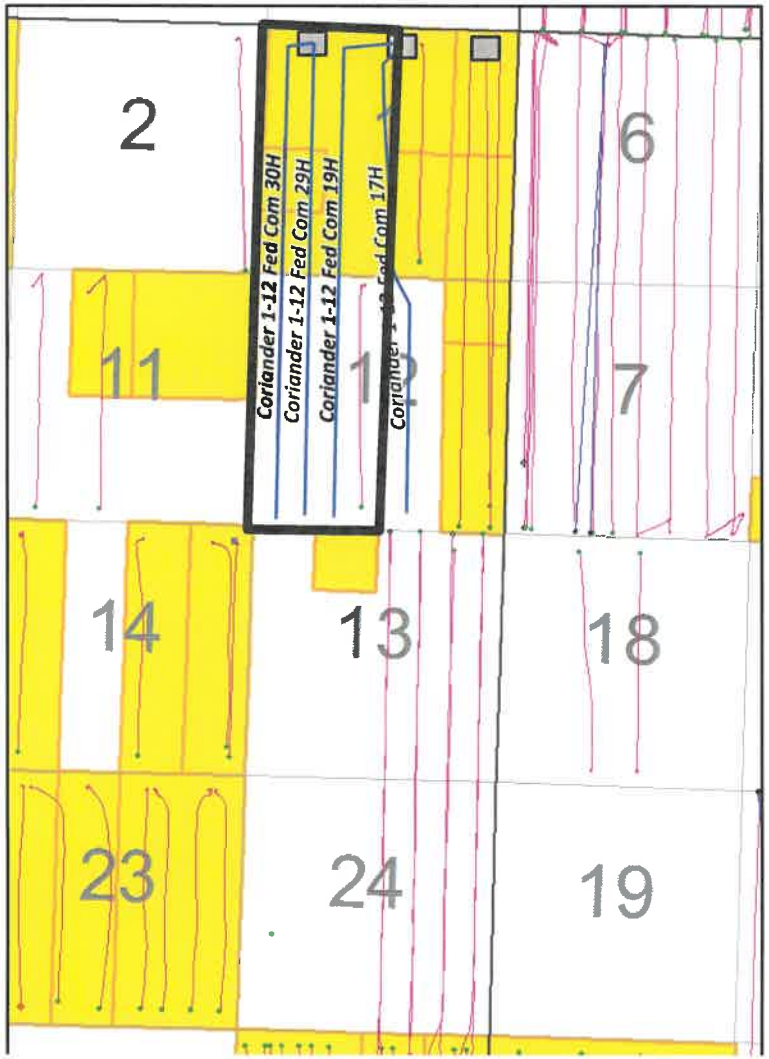
(Snee and Zoback, 2018)

tabbies
EXHIBIT
C-2

Avalon

GEOLOGY

Avalon Wellbore Schematic



Avalon

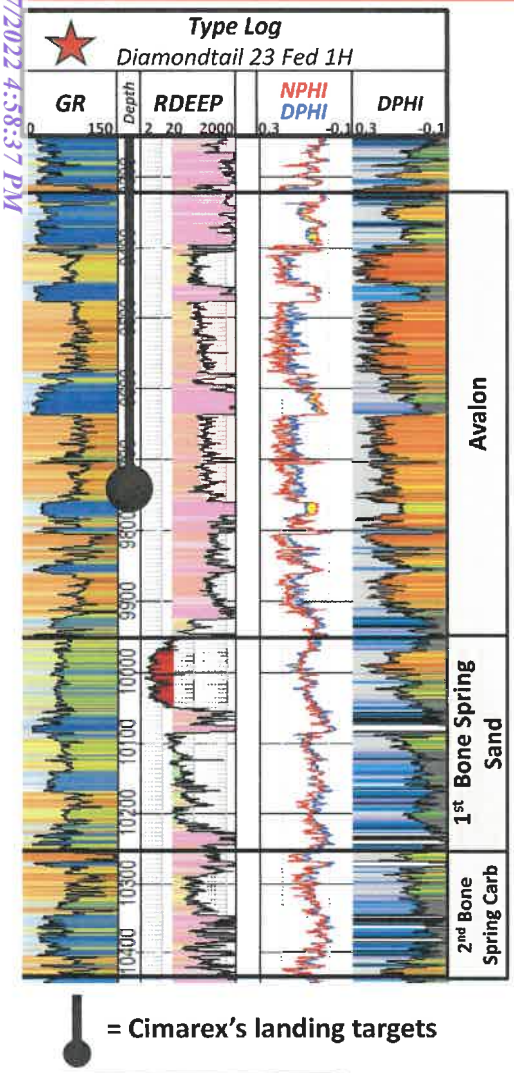
Existing horizontal well

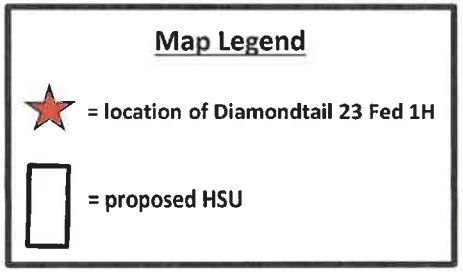
= Proposed W2 HSU

tabbies

EXHIBIT C.3A

Avalon Structure Dips to the Southeast





Top Avalon Structure Map (SSTVD); C.I. = 50'

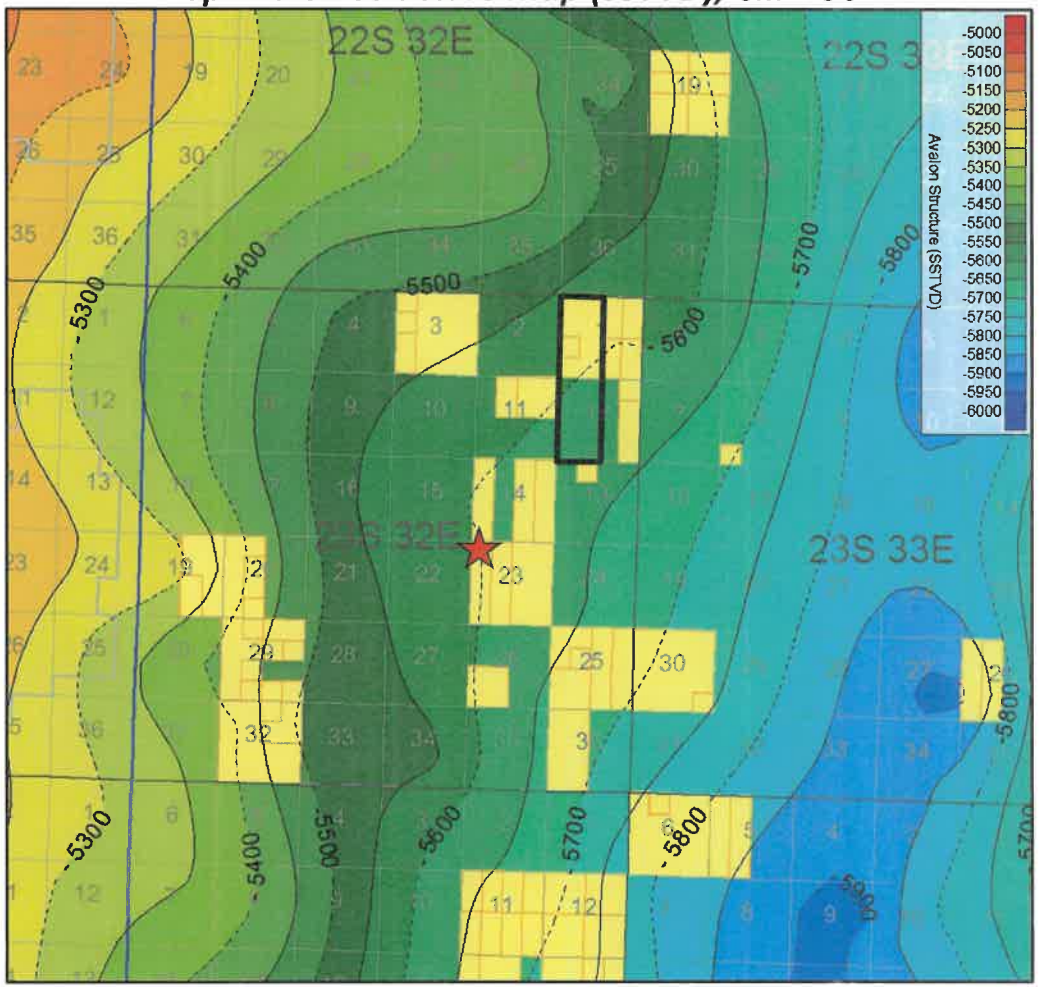
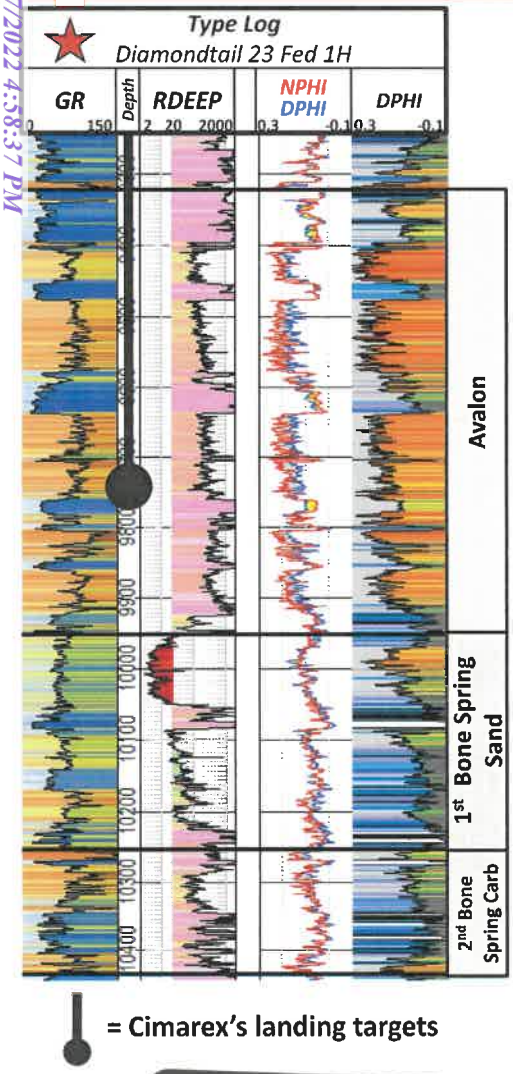


EXHIBIT
tabbies
C·3·B

Avalon Net Reservoir Map Indicates Avalon is Prime Target in Cimarex's HSU



= Cimarex's landing targets

EXHIBIT
tabbies C-3-C

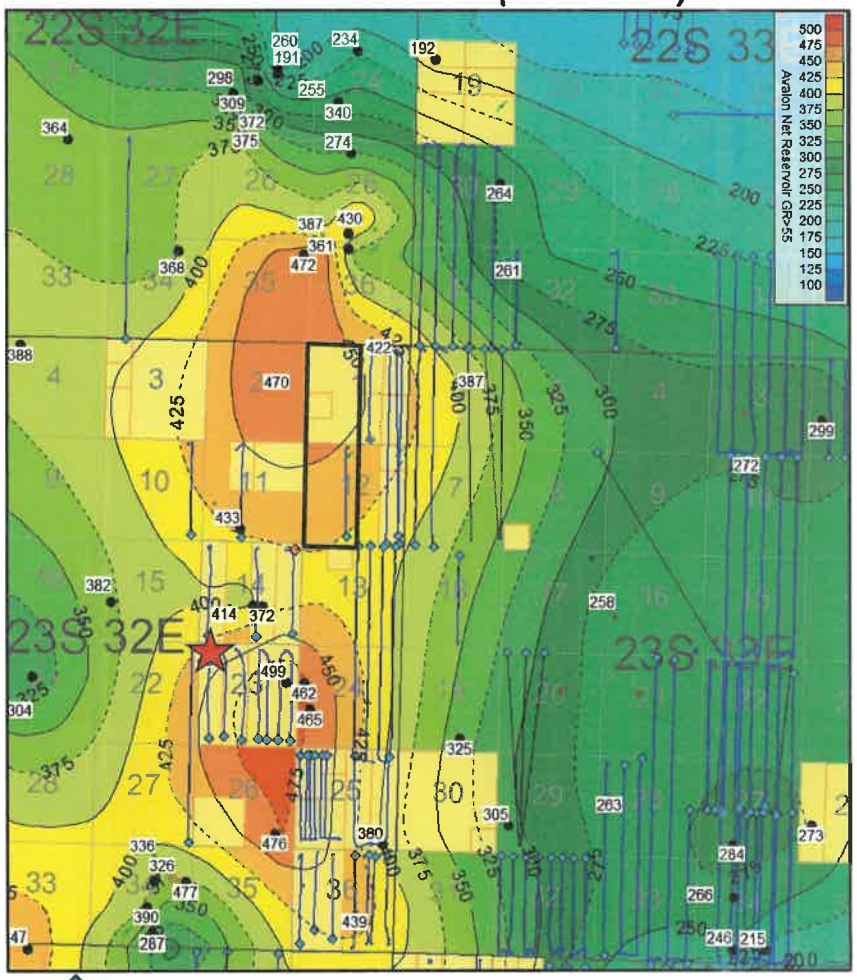
The Avalon shows thick reservoir in Cimarex's proposed HSU where Cimarex already has experience drilling 2-mile Avalon wells

Map Legend

= location of Diamondtail 23 Fed 1H

= proposed HSU

Avalon Net Reservoir (GR>55 API)

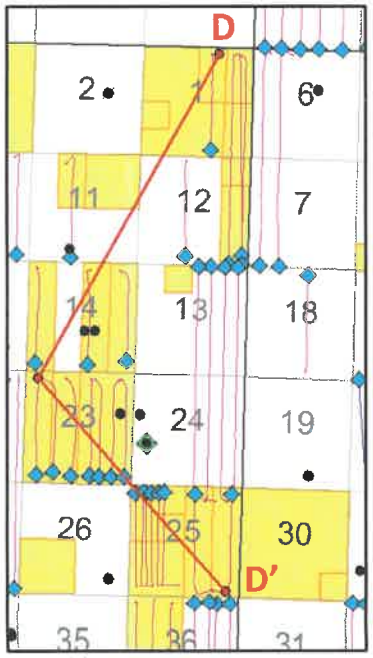


Avalon horizontal producers

Avalon In This Area Is Not Laterally Consistent = Increases Risk of Drilling 3-Mile Wells In This Area

The Avalon is complicated by carbonate mass transport deposits and chert which are not laterally continuous even over short distances.

This geologic complexity will make drilling and completing a 3-mile lateral more difficult.



Avalon producers

= chert

Chert identified as low gamma ray, high resistivity, and with neutron-density crossover (yellow shading in track 3)

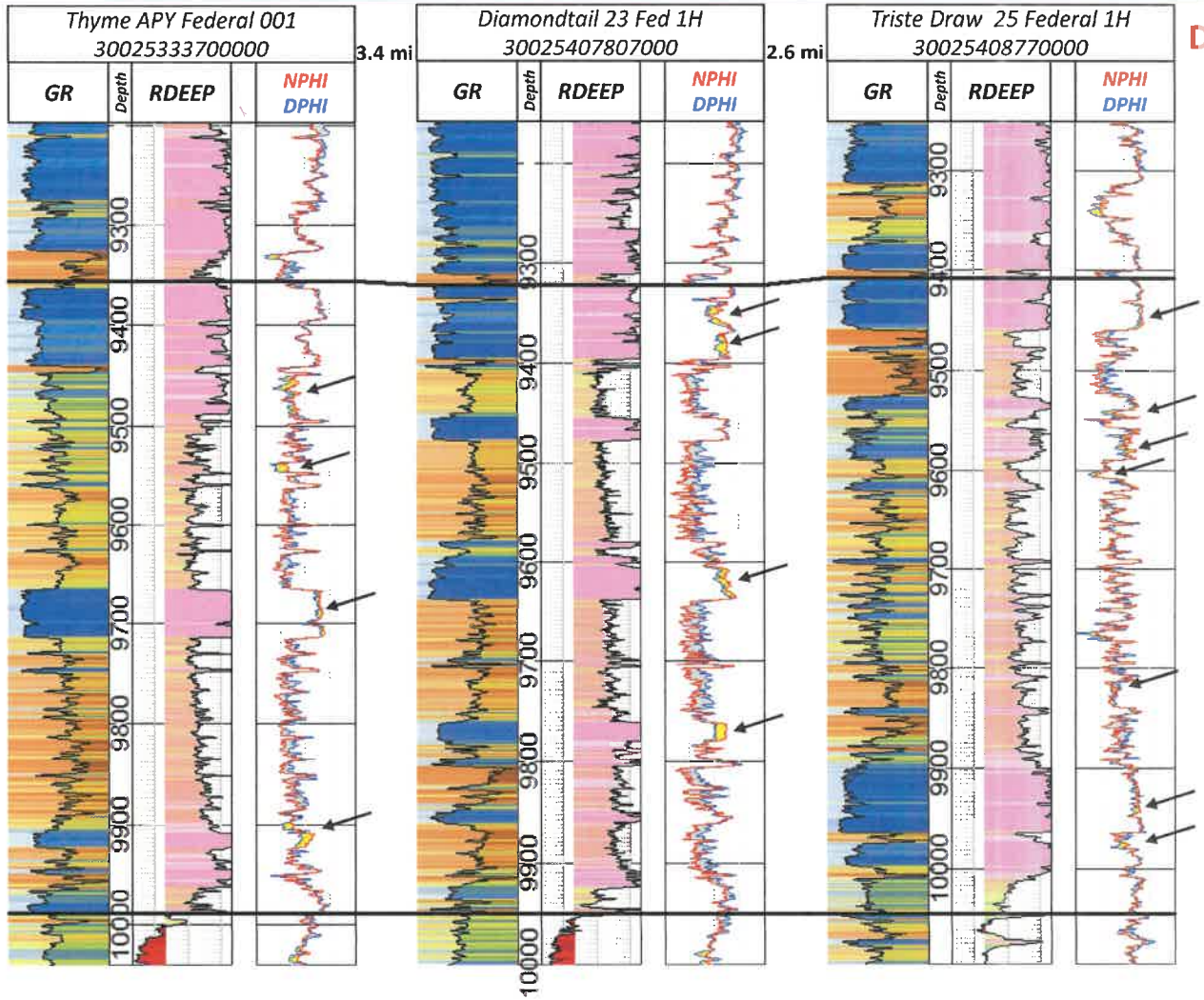
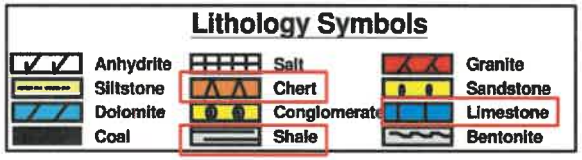


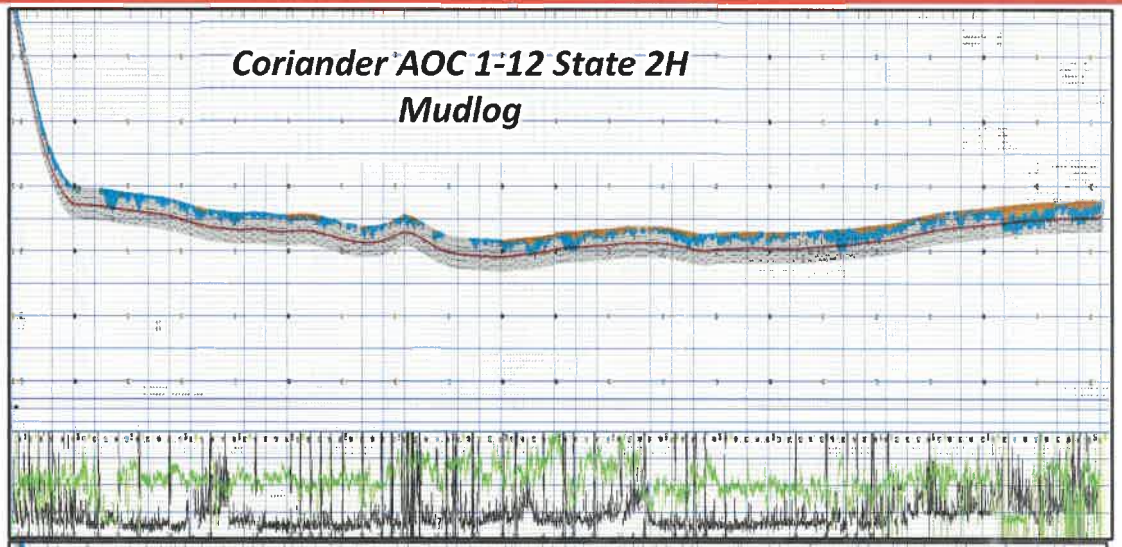
EXHIBIT C-3-D

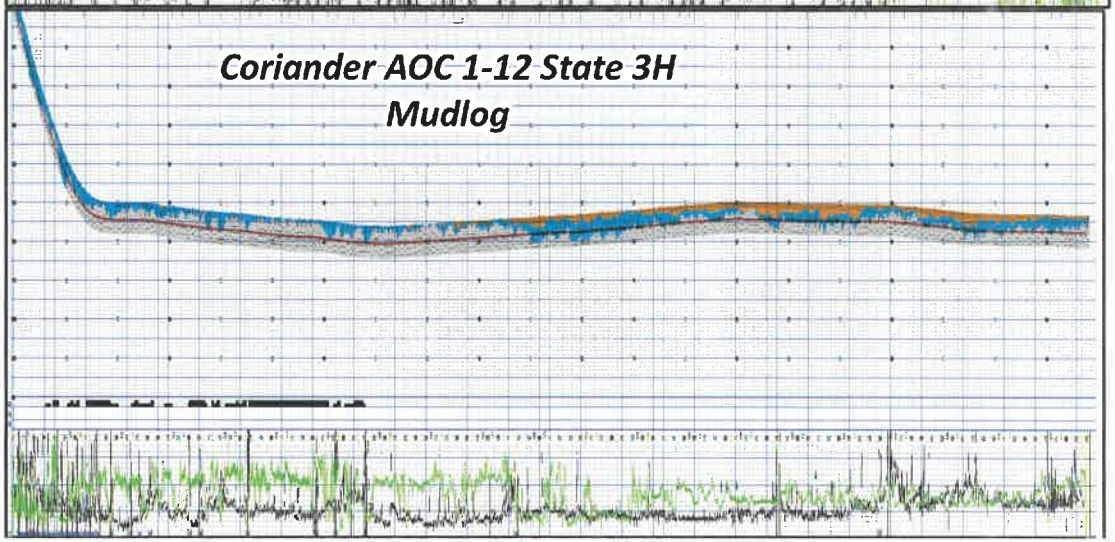
Avalon Lateral Mudlogs Indicate High Volumes of Limestone and Chert (i.e. Drilling Hazards)

Mudlogs from Cimarex's Coriander AOC 1-12 State 2H and 3H Avalon laterals show high volumes of limestone (blue) and chert (orange).



Avalon producers



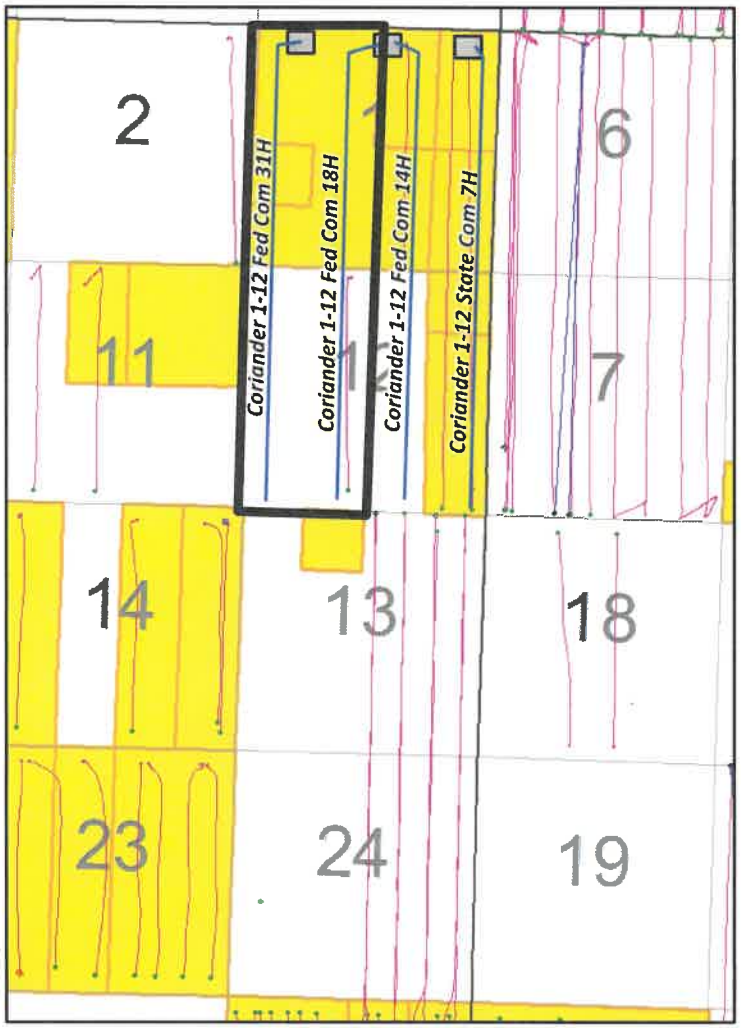


tabbies
EXHIBIT
C-3-E

1st Bone Spring Sand

GEOLOGY

1st Bone Spring Sand Wellbore Schematic



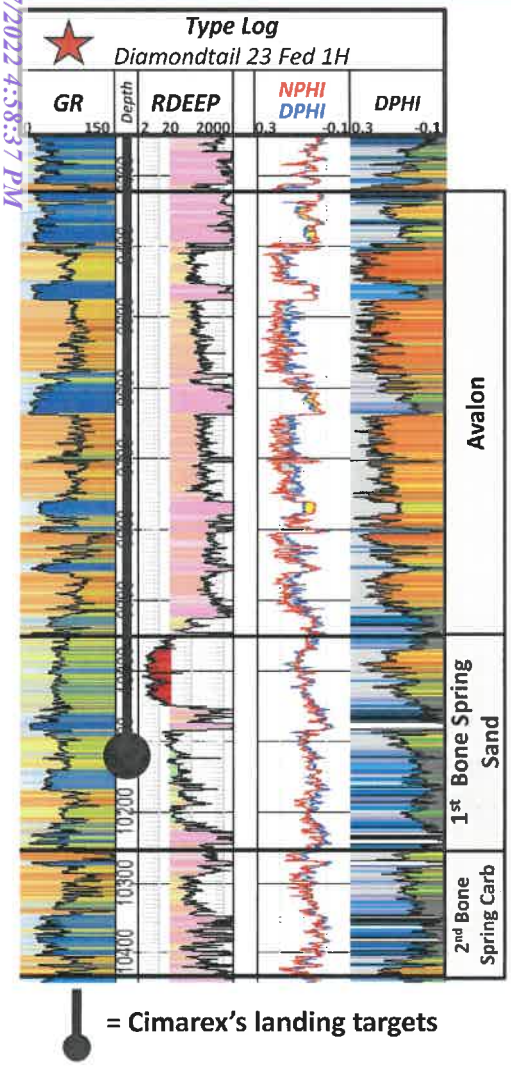
1st Bone Spring Sand

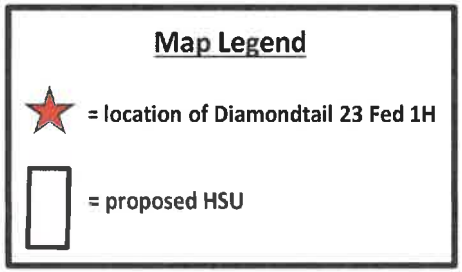
Existing horizontal well

= Proposed W2 HSU

tabbies
EXHIBIT
C-4. A

1st Bone Spring Sand Structure Dips to the Southeast





Top 1st Bone Spring Sand Structure Map (SSTVD); C.I. = 50'

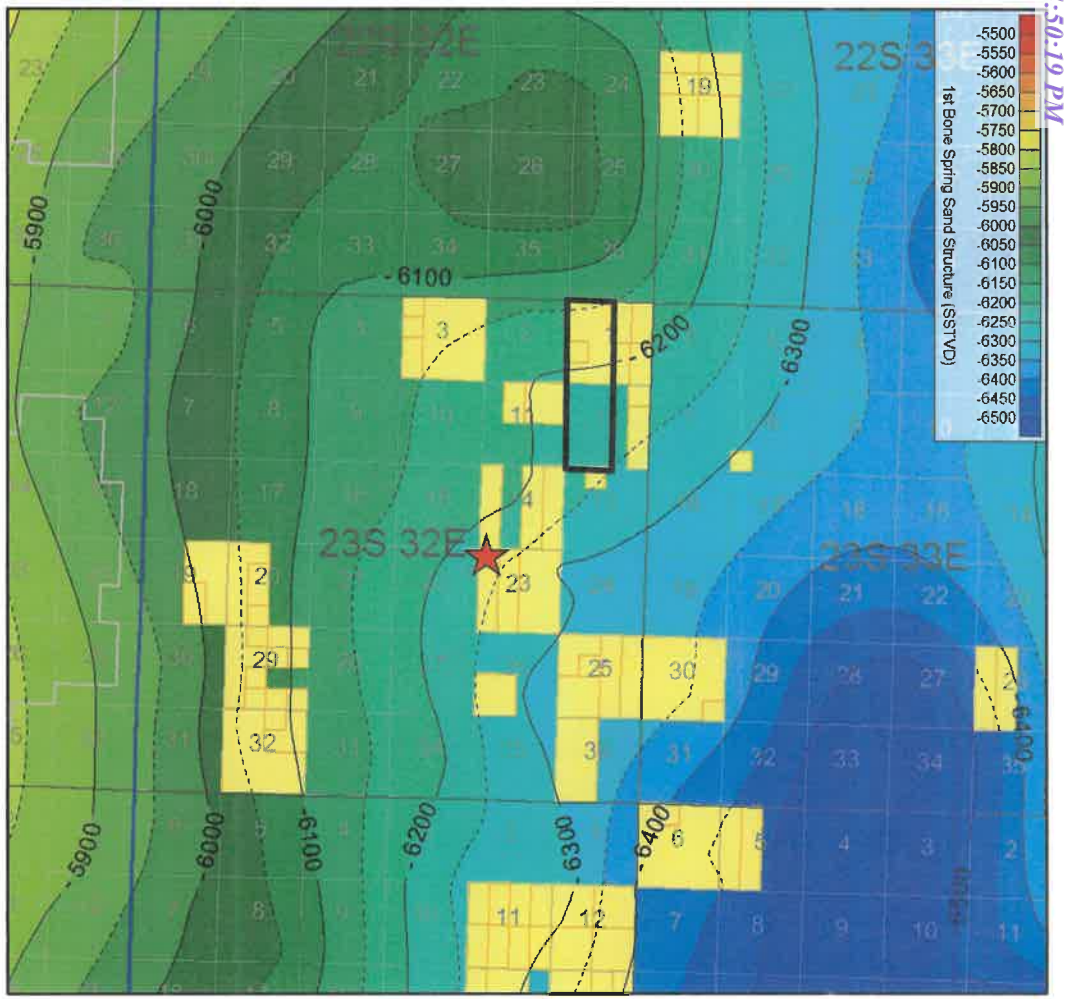
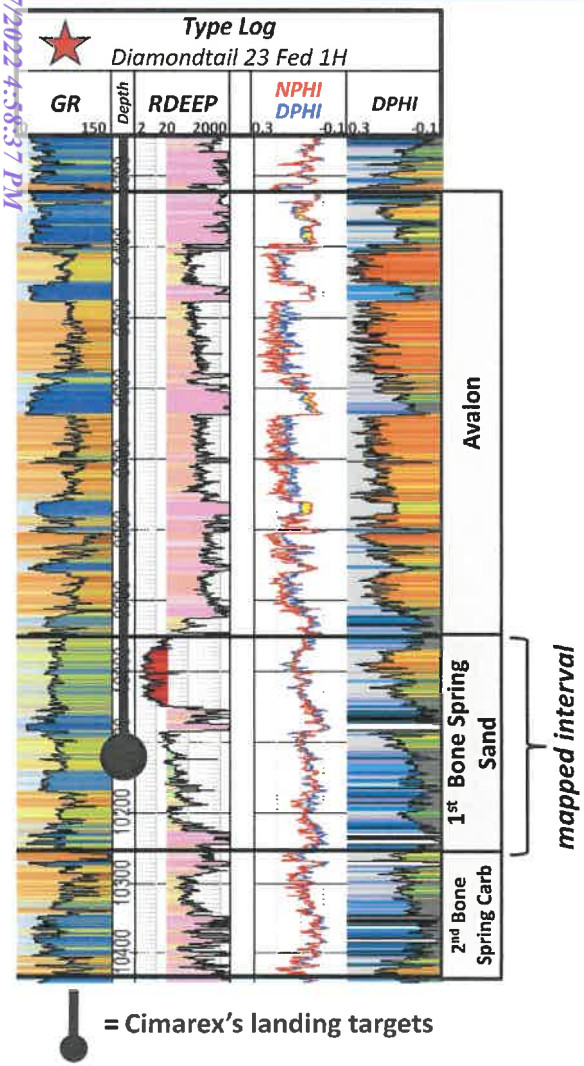


EXHIBIT
C·4·B

1st Bone Spring Sand Has Thick Net Reservoir in AOI – Devon is Leaving behind Reserves by Not Drilling It



Devon's proposed development excludes reserves in the 1st Bone Spring Sand

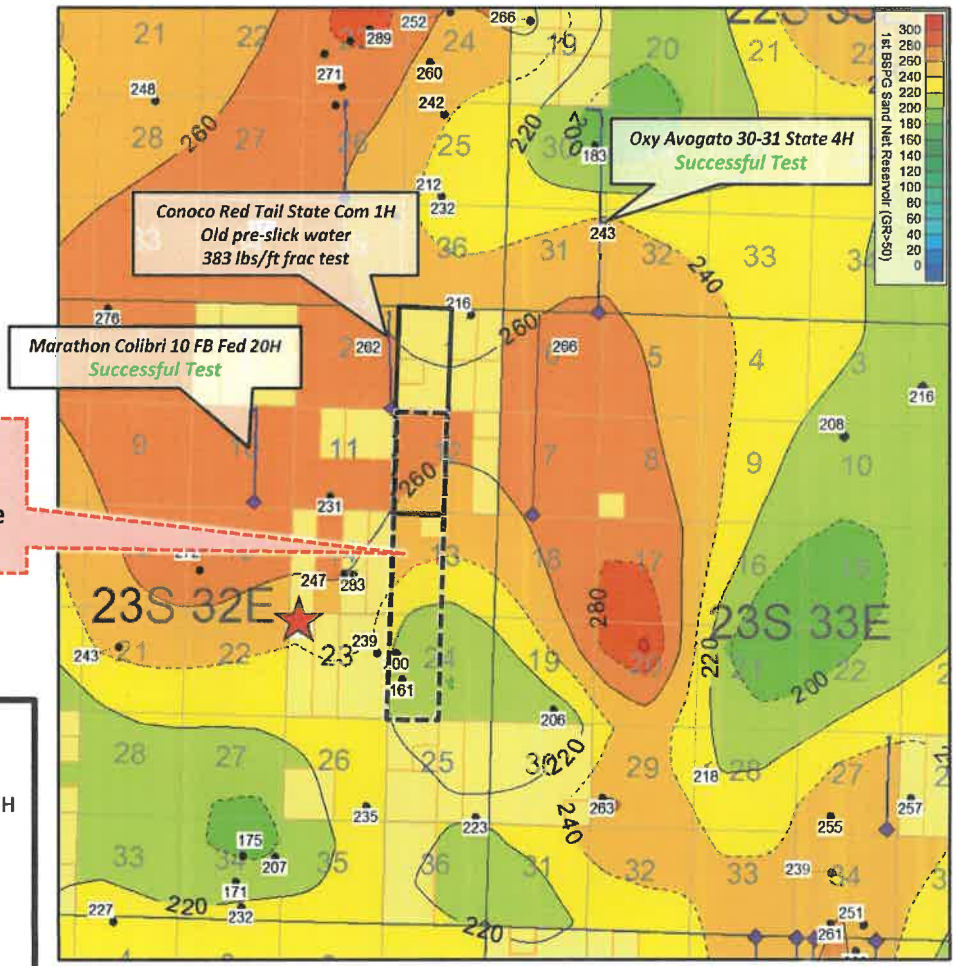
Map Legend

= location of Diamondtail 23 Fed 1H

= Cimarex's proposed HSU

= Devon's proposed HSU

1st Bone Spring Sand Net Reservoir (GR>50 API)

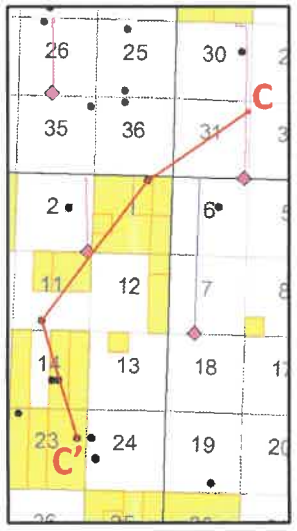


1st Bone Spring Sand horizontal producers

EXHIBIT
C-4C

1st Bone Spring Sand Indicates High Reservoir Quality in AOI

The 1st Bone Spring Sand is geologically consistent across the area based on GR and Resistivity logs



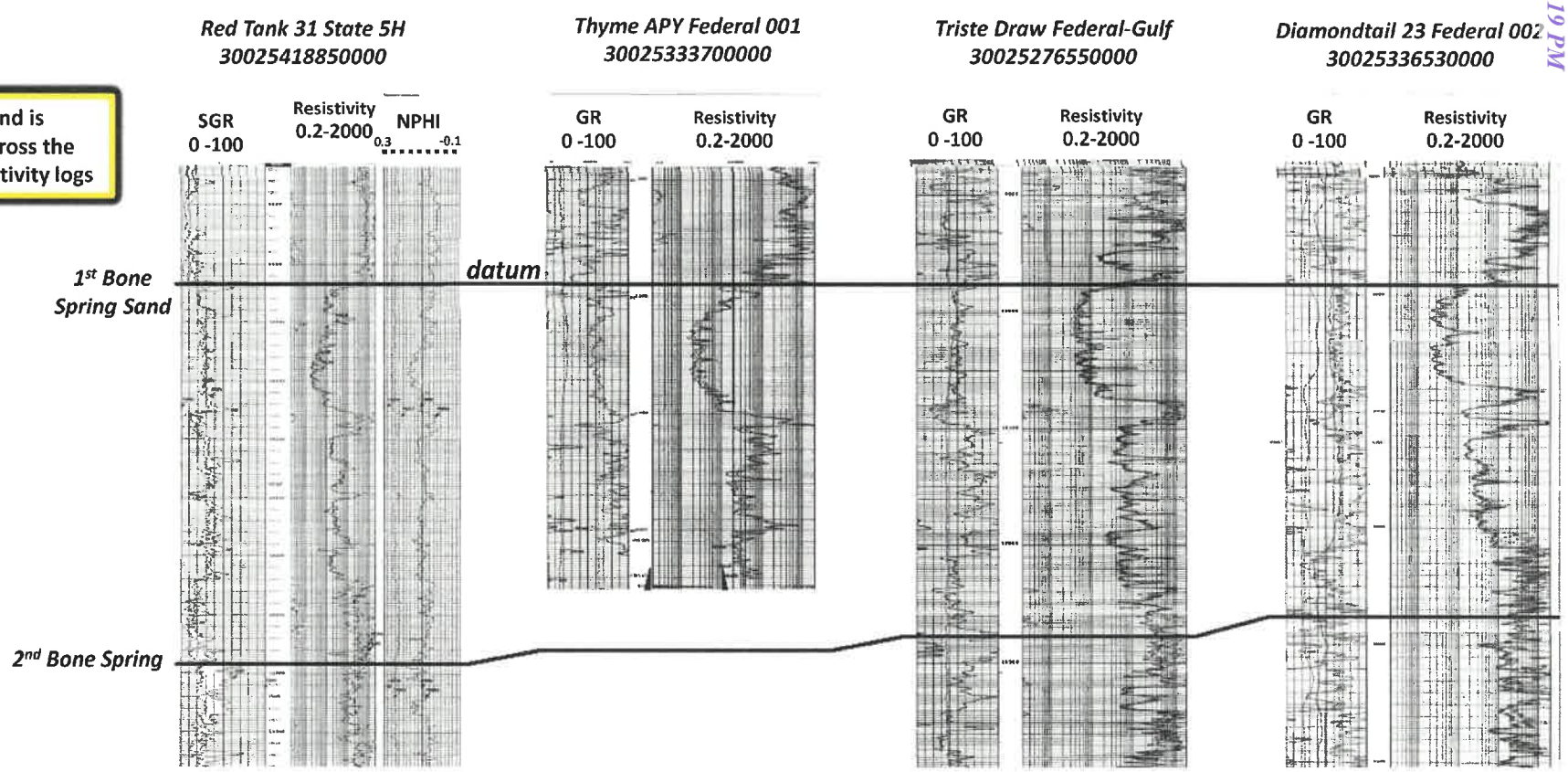
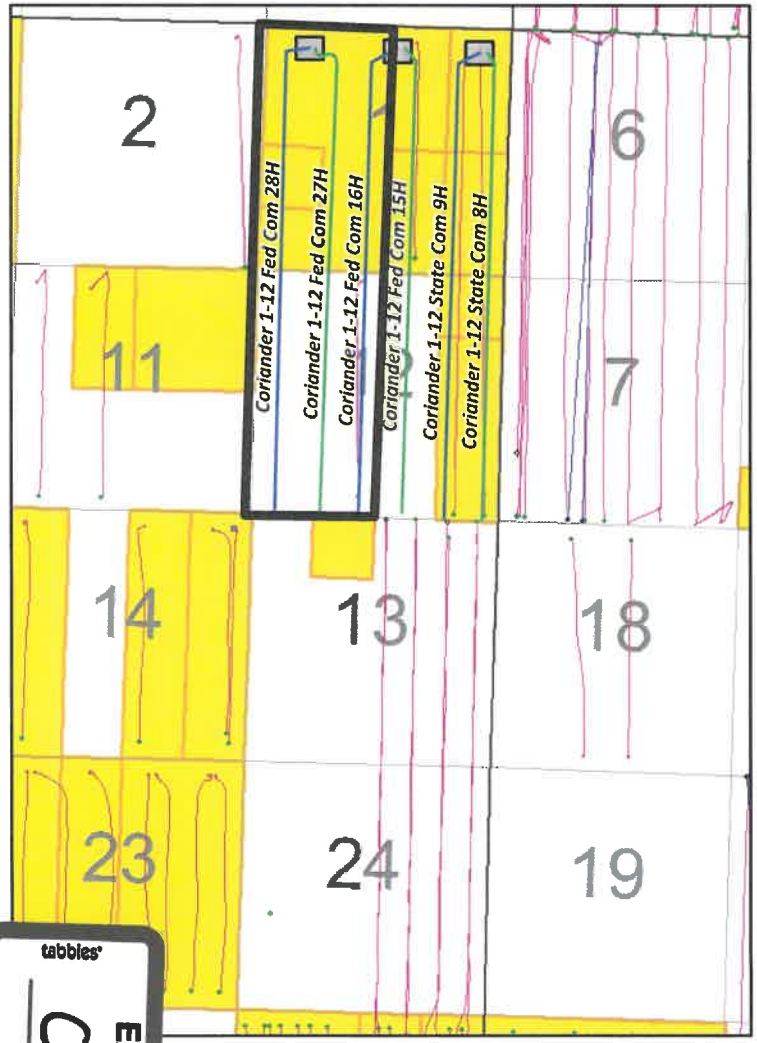


EXHIBIT
C-4-D

2nd Bone Spring Sand

GEOLOGY

2nd Bone Spring Sand Wellbore Schematic



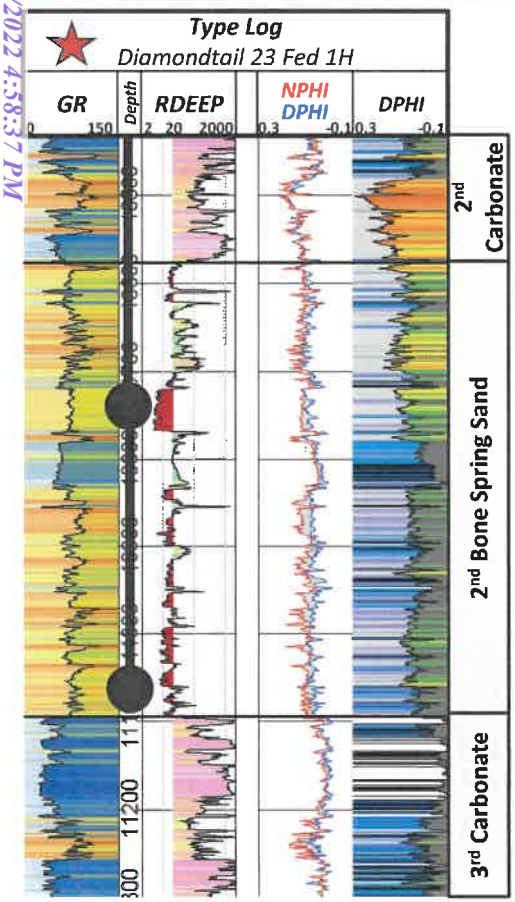
2nd Bone Spring Sand Upper

2nd Bone Spring Sand Lower

Existing horizontal well

= Proposed W2 HSU

2nd Bone Spring Sand Structure Dips to the Southeast



= Cimarex's landing targets

Map Legend

= location of Diamondtail 23 Fed 1H

= proposed HSU

Top 2nd Bone Spring Sand Structure Map (SSTVD); C.I. = 50'

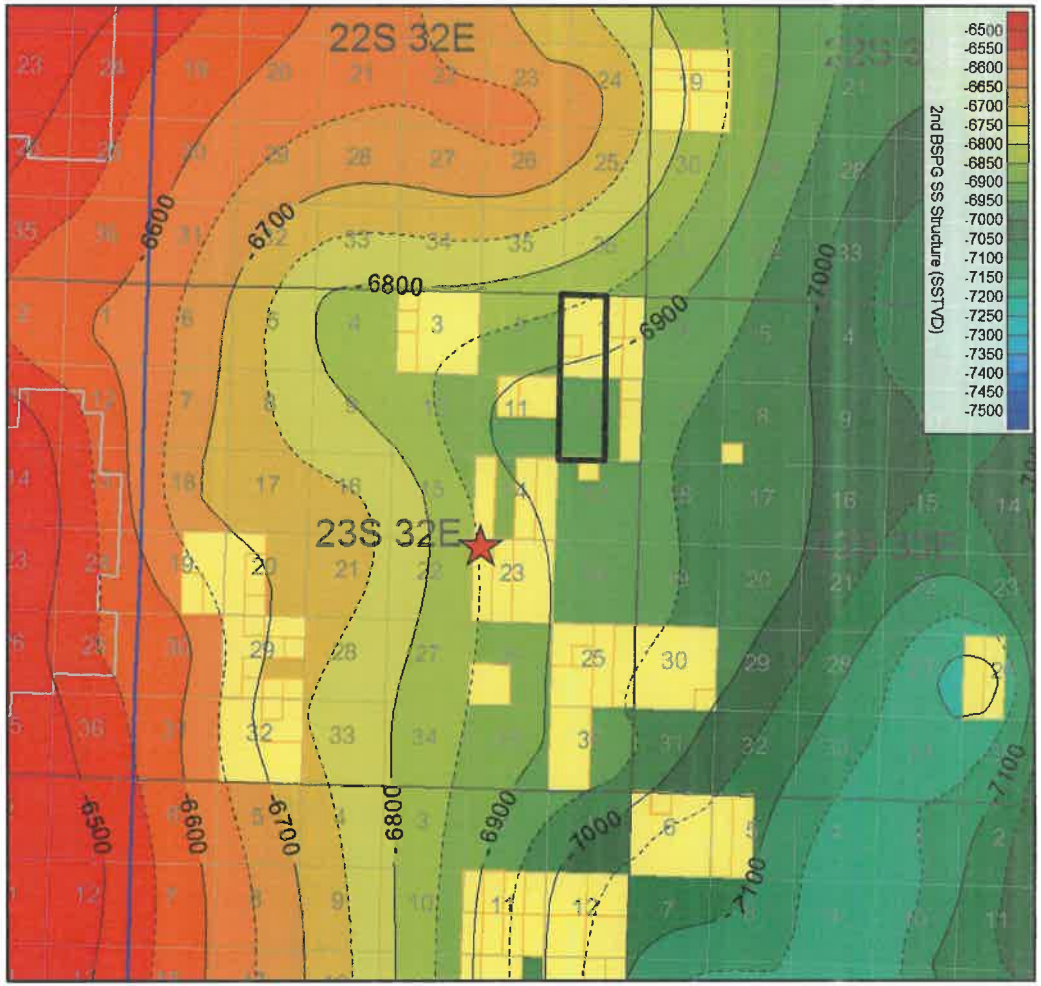
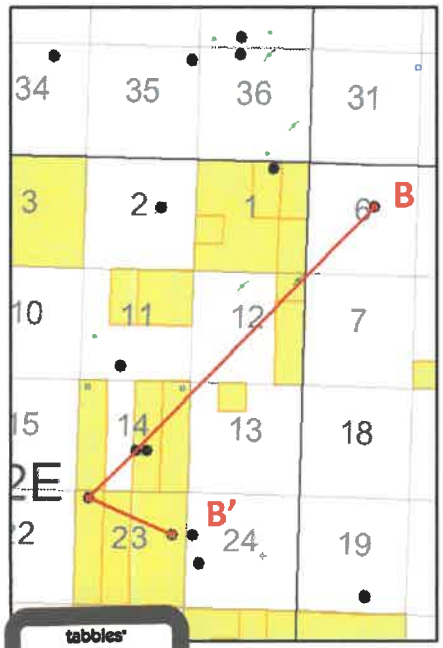
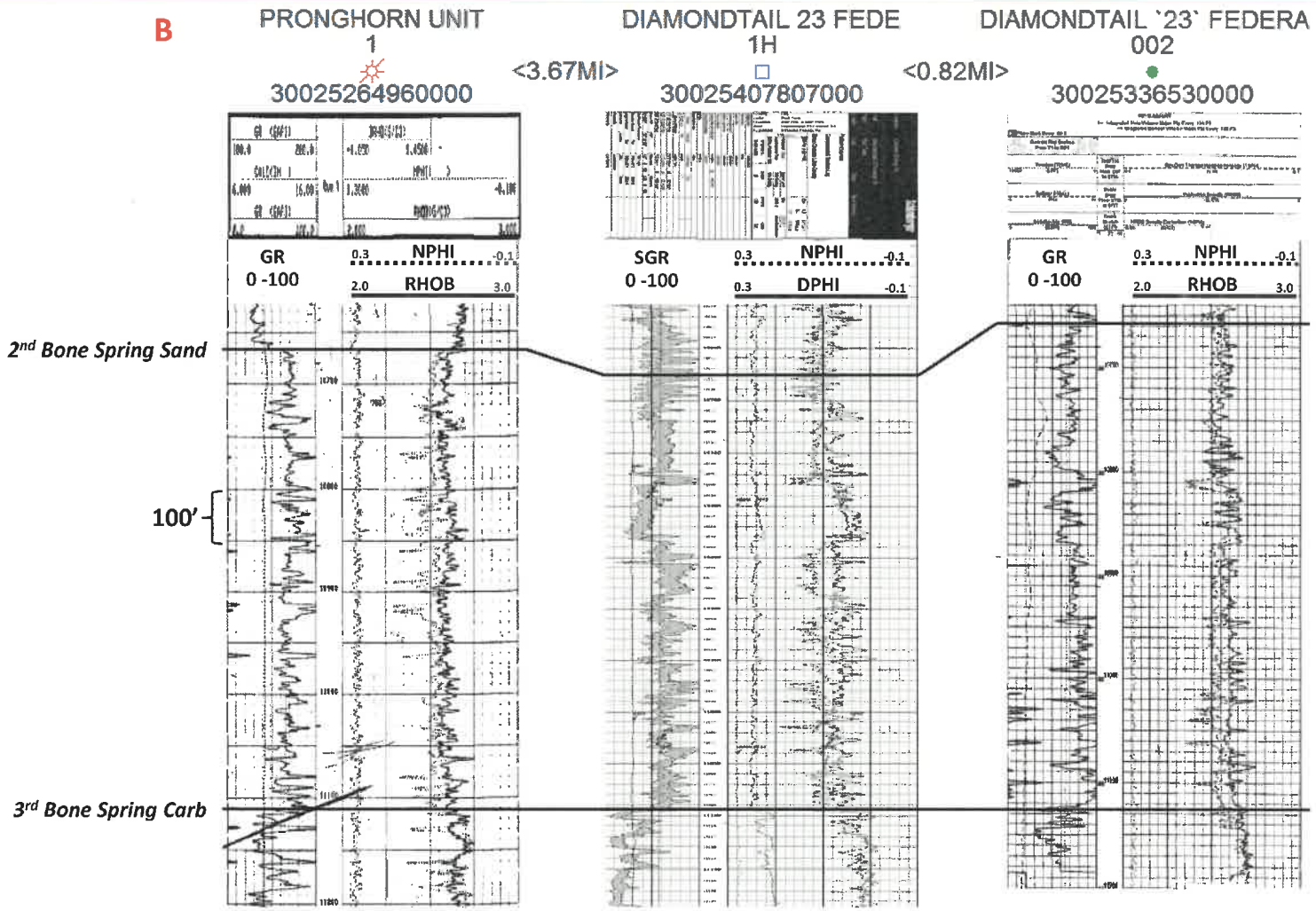


EXHIBIT
tabbies
C.5.B

2nd Bone Spring Sand is Composed of Thick, Porous Sands at Cimarex's HSU

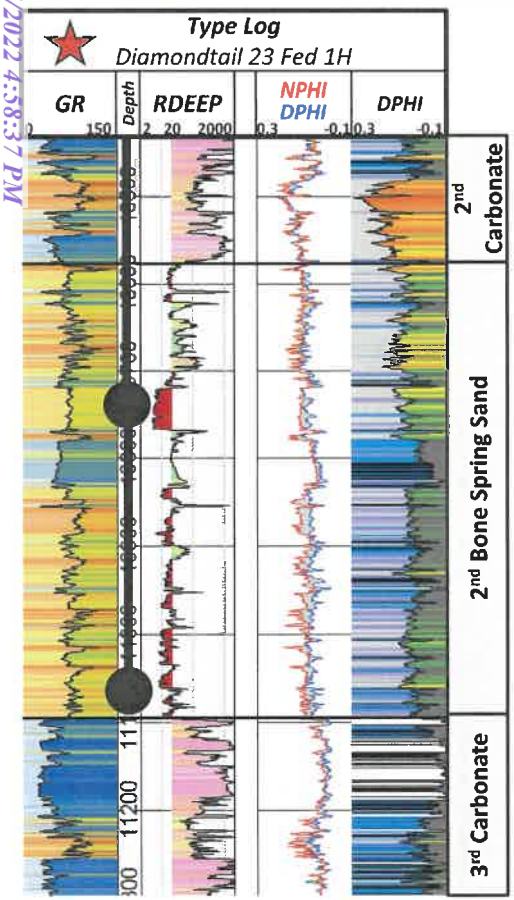




tabbies

EXHIBIT C.S.C

2nd Bone Spring Sand Net Reservoir Map Shows ~360-400' Thick Reservoir in Cimarex's HSU



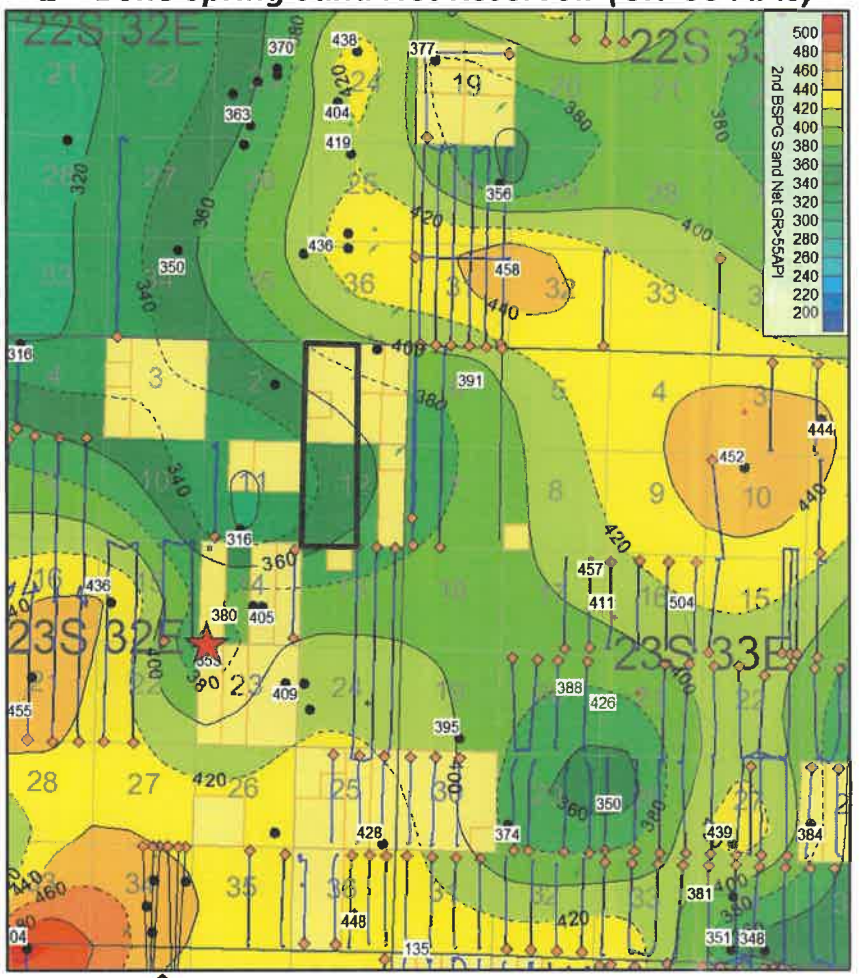
= Cimarex's landing targets

Map Legend

= location of Diamondtail 23 Fed 1H

= proposed HSU

2nd Bone Spring Sand Net Reservoir (GR>55 APIs)



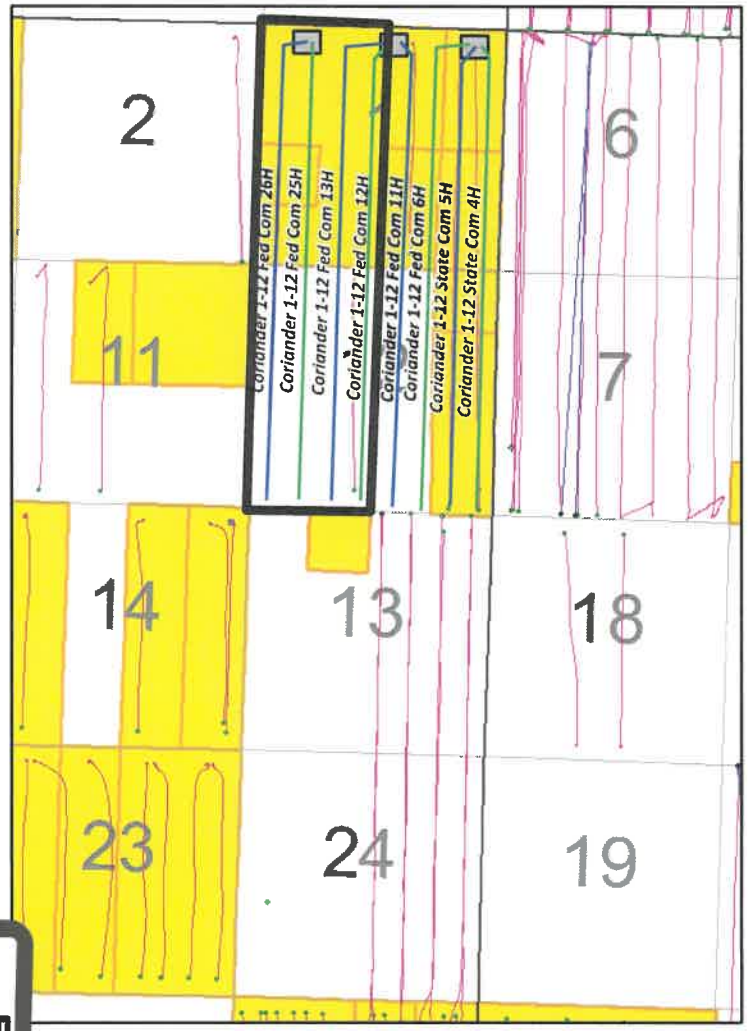
2nd Bone Spring Sand horizontal producers

EXHIBIT
C-5-D

3rd Bone Spring Sand + Wolfcamp

GEOLOGY

3rd Bone Spring Sand + Upper Wolfcamp Wellbore Schematic



3rd Bone Spring Sand

Wolfcamp Upper A

Existing horizontal well

= Proposed W2 HSU

tabbies

EXHIBIT C-7-A

X Cimarex's 3rd Bone Spring Sand is a Better Target than Devon's Wolfcamp XY Sands

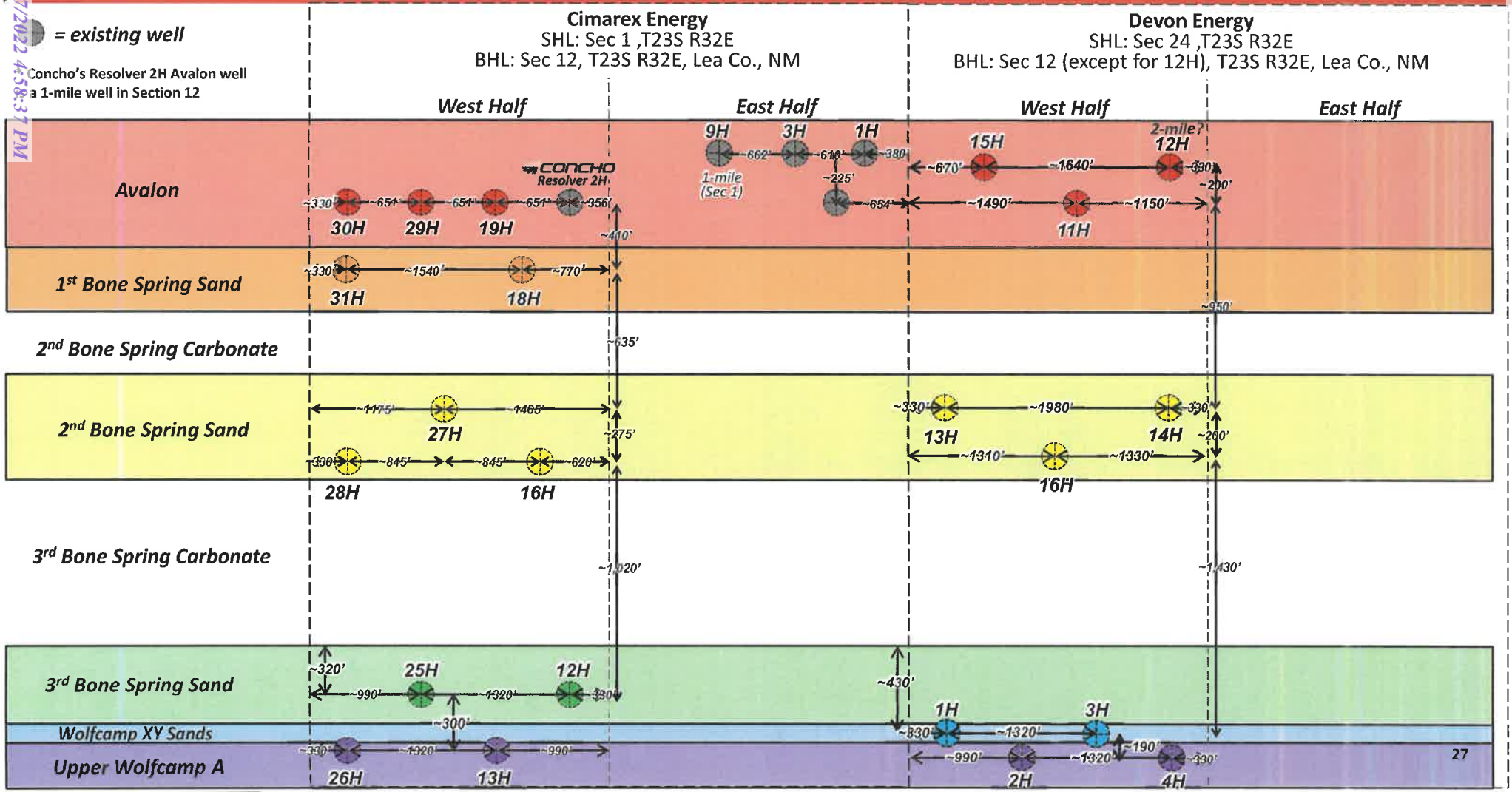


EXHIBIT
tabbies
C-6-B

Cimarex Plan Best Targets Proven Upper Wolfcamp & Proven 3rd Sand Reservoir, Devon Over Targets Wolfcamp at Risk of 3rd Sand

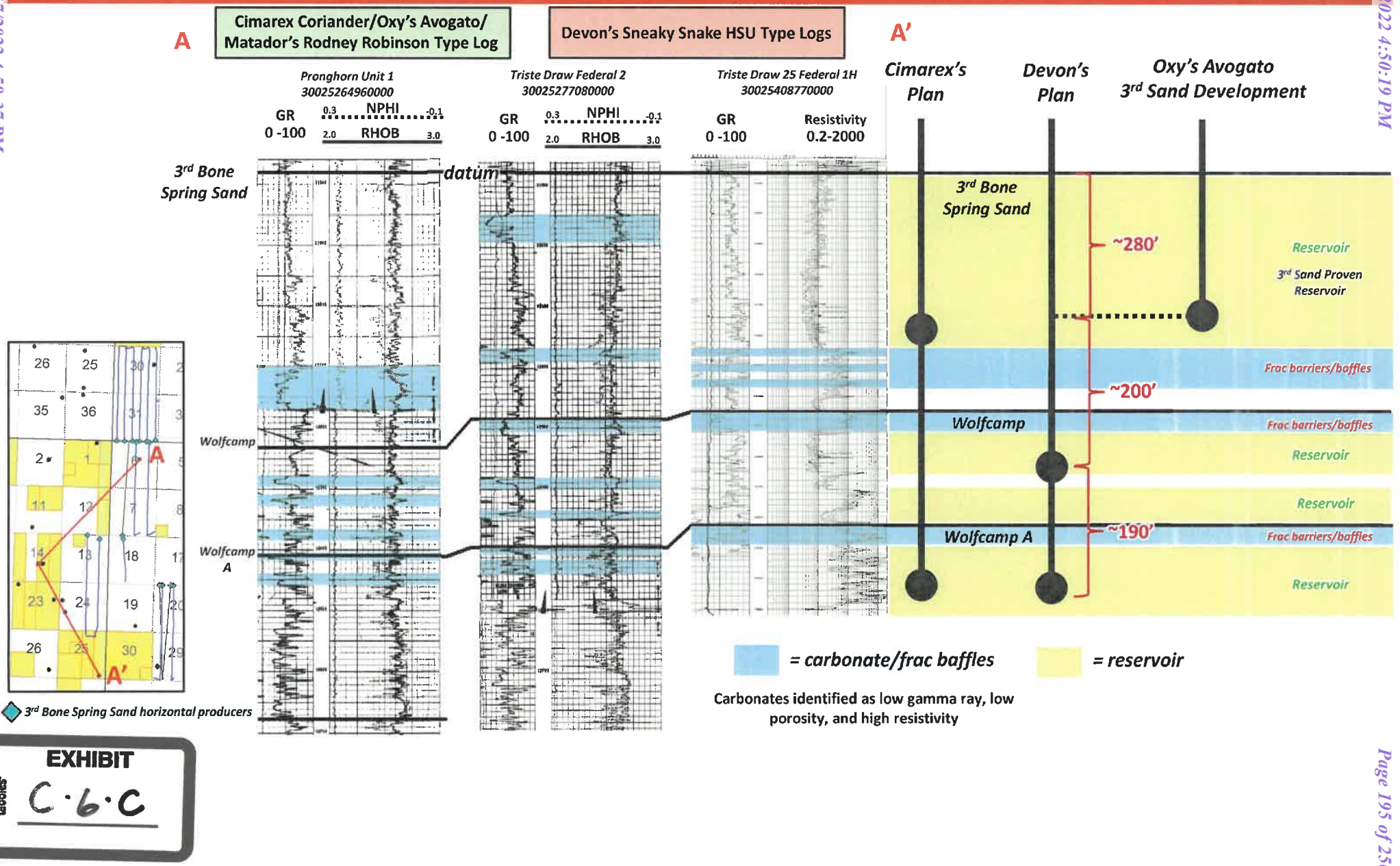


EXHIBIT
tabbies
C·6·C

Cimarex's Plan Optimizes Landing Zones Based on Enhanced Oil Shows

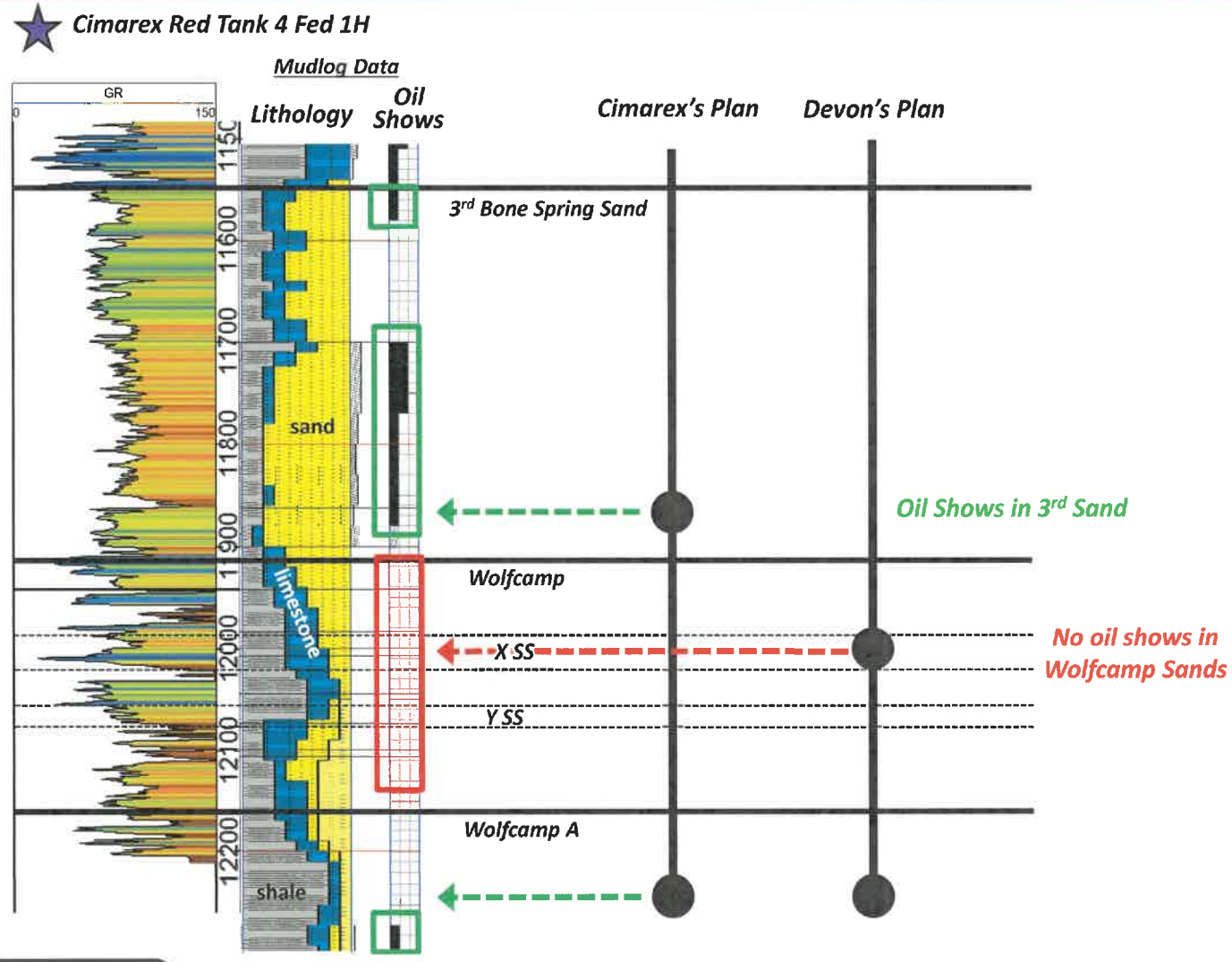
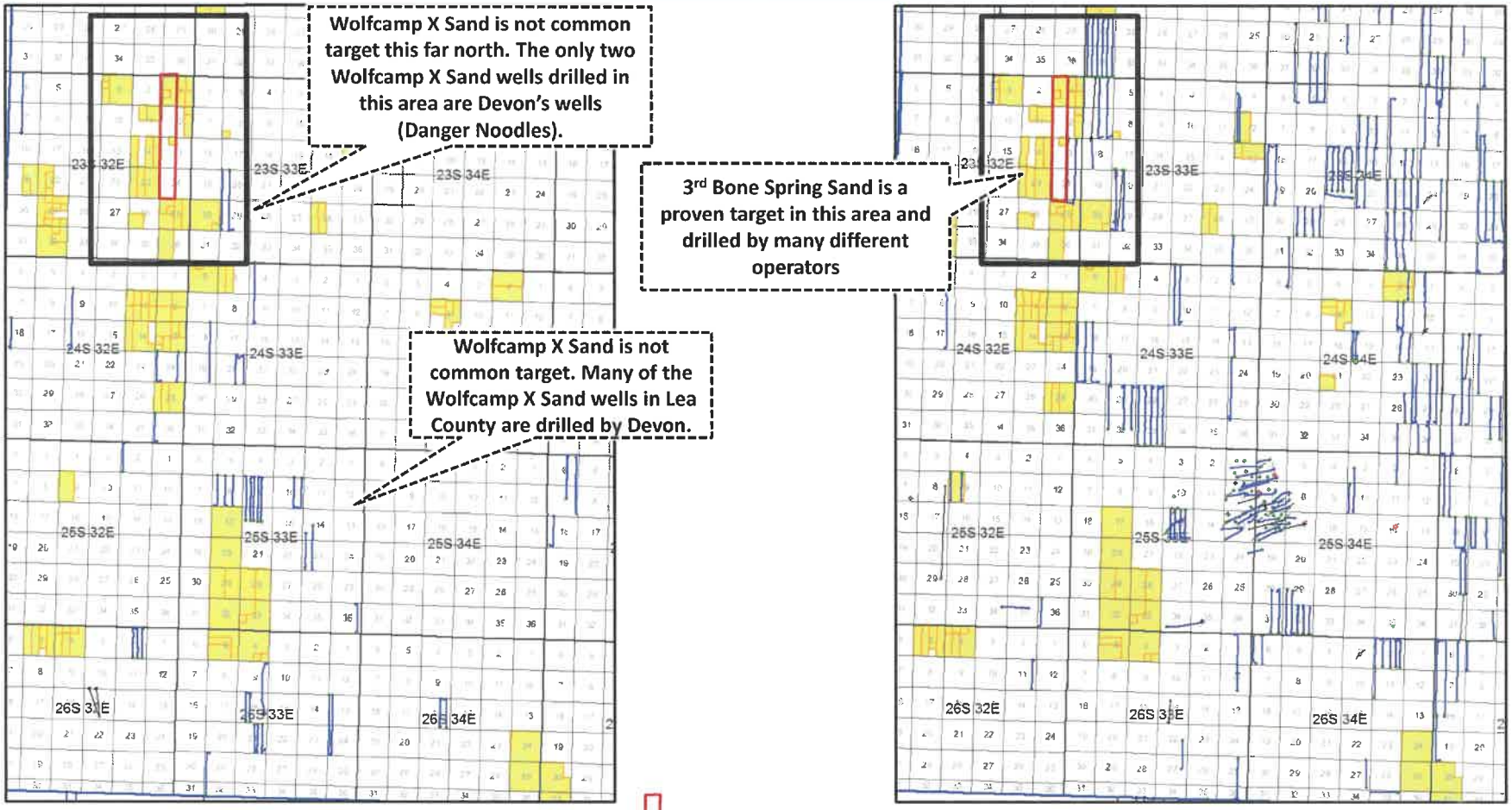


EXHIBIT
C-6-D

X 3rd Bone Spring Sand is the Preferred, Proven Target in Subject Area



Wolfcamp X Sand laterals

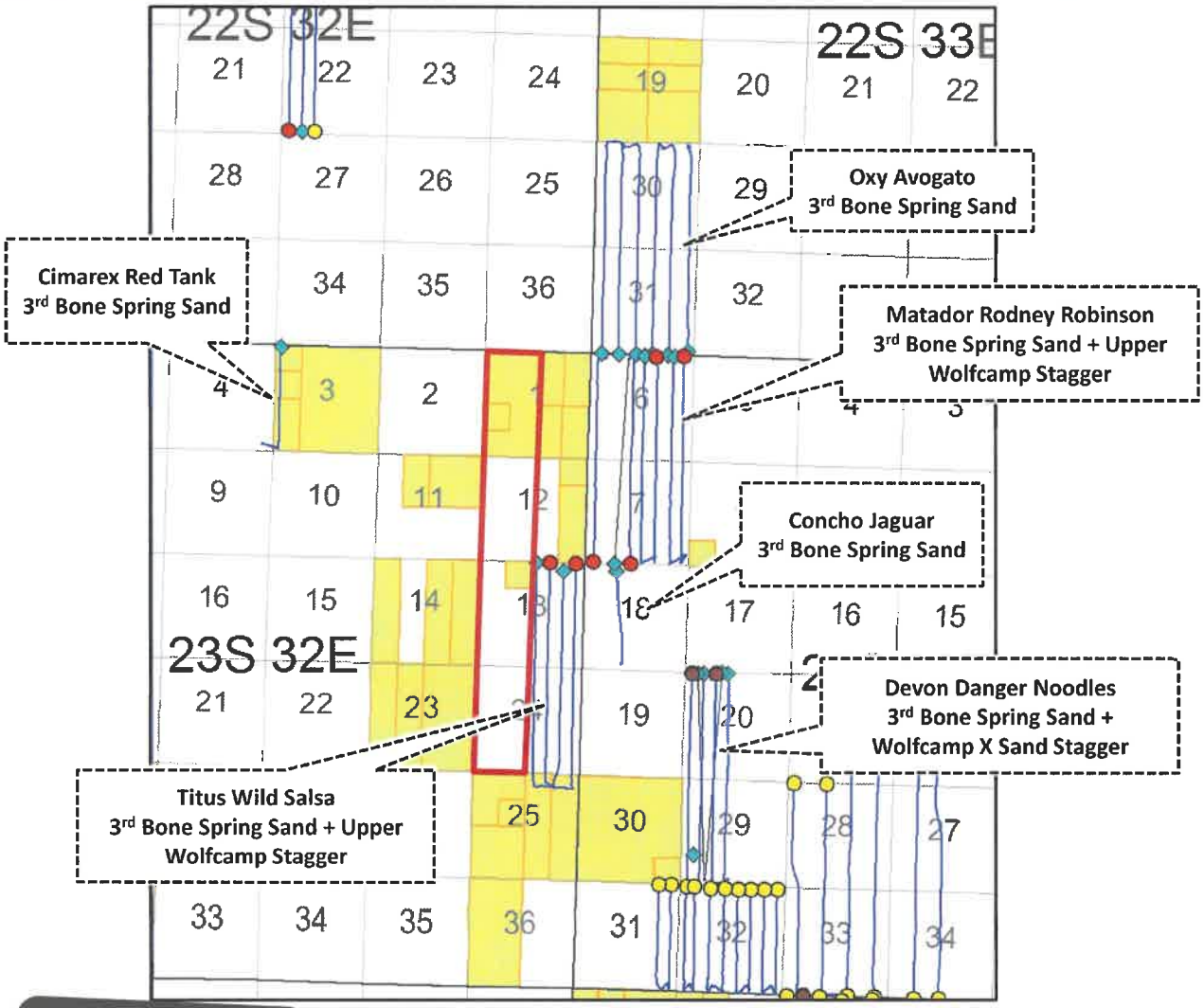
= Subject Area

3rd Bone Spring Sand laterals

Data taken from NMOCD on 3/16/2022

EXHIBIT
tabbies
C-6-E

Nearby Offsets Target 3rd Bone Spring Sand



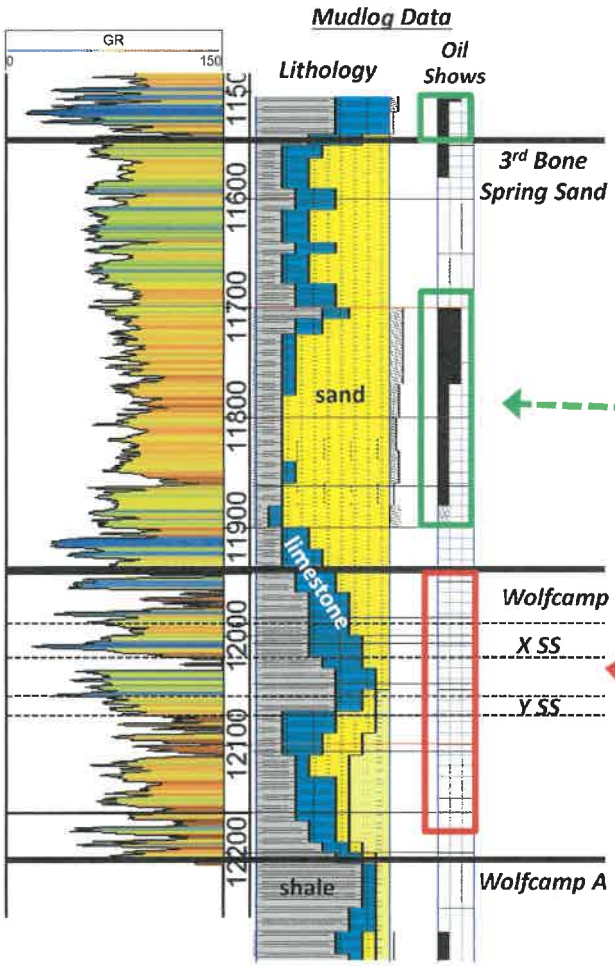
- 3rd Bone Spring Sand horizontal producers
- Wolfcamp X Sand horizontal producers
- Wolfcamp Y Sand horizontal producers
- Wolfcamp A horizontal producers

= Subject Area

EXHIBIT
C-6-F

Nearby Mudlog Indicates Oil Shows in the 3rd Bone Spring Sand (not Wolfcamp Sands)

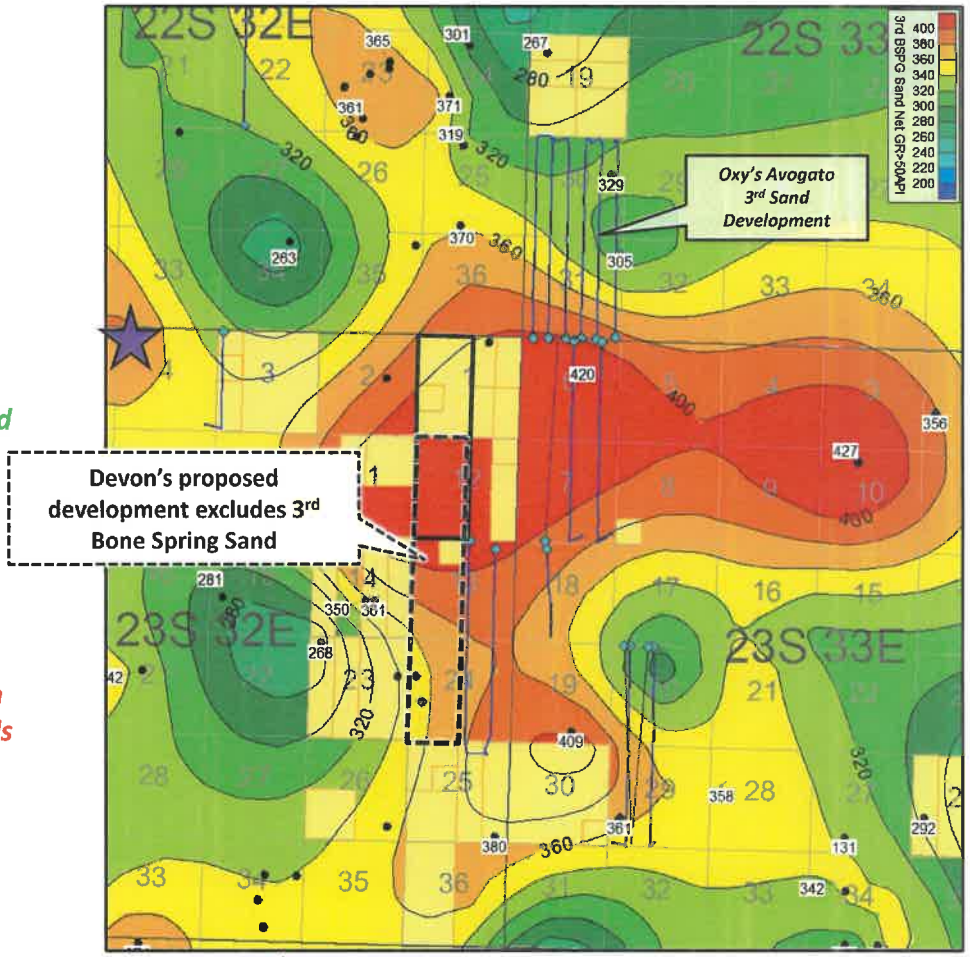
Cimarex Red Tank 4 Fed 1H



Oil Shows in 3rd Sand

No oil shows in Wolfcamp Sands

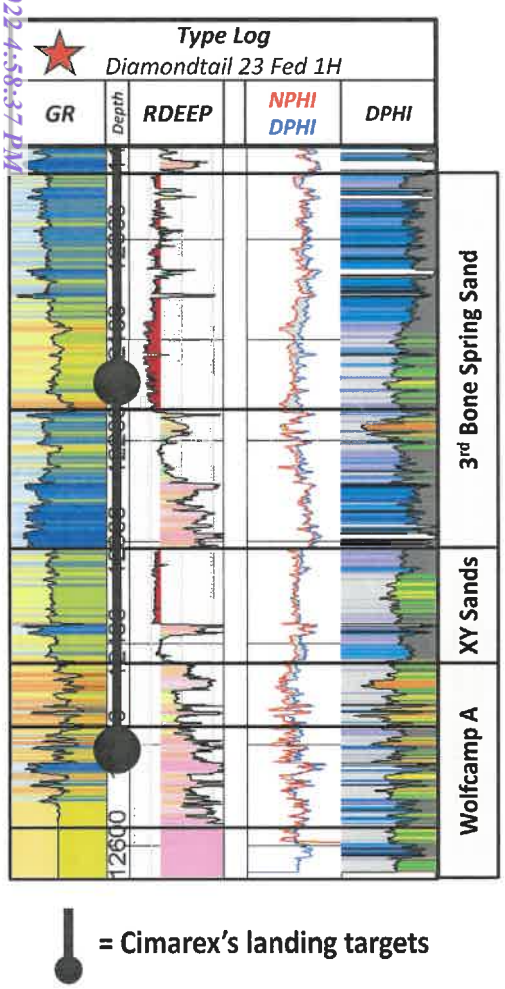
3rd Bone Spring Sand Net Reservoir (GR>50 APIs)



3rd Bone Spring Sand horizontal producers

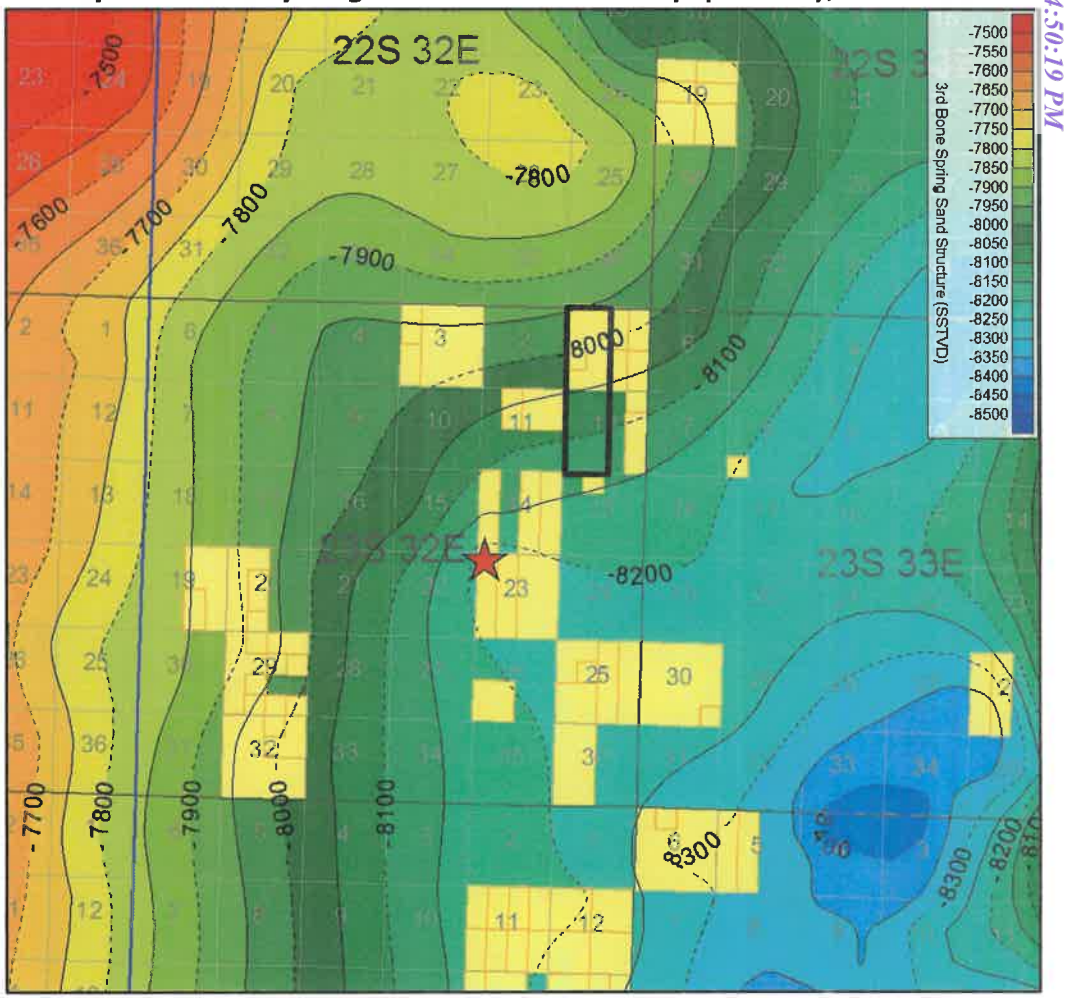
EXHIBIT
tabbies
C·6·G

3rd Bone Spring Sand Structure Dips to the Southeast



= Cimarex's landing targets

Top 3rd Bone Spring Sand Structure Map (SSTVD); C.I. = 50'



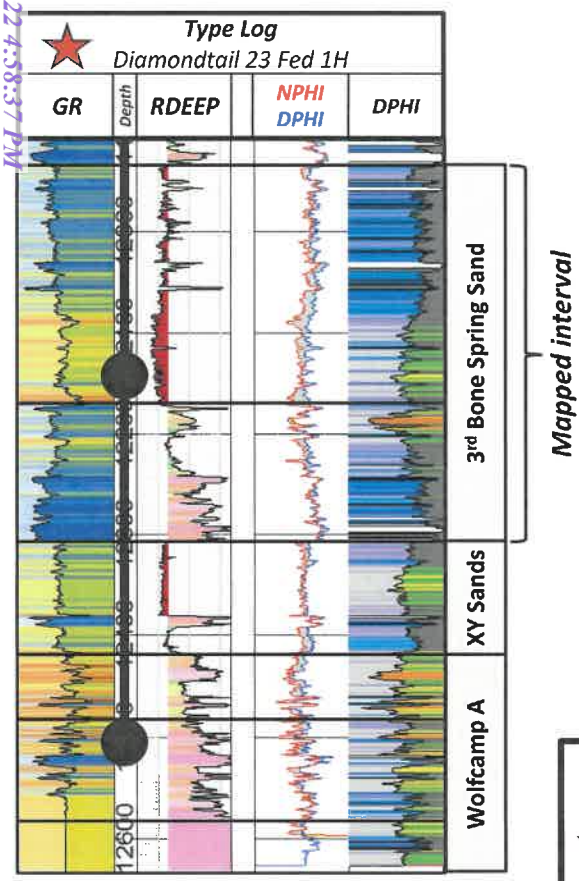
Map Legend

= location of Diamondtail 23 Fed 1H

= proposed HSU

EXHIBIT
C-6-H

3rd Bone Spring Sand Gross Isopach – Thicker in Cimarex's Proposed HSU



= Cimarex's landing targets

Map Legend

= location of Diamondtail 23 Fed 1H

= proposed HSU

3rd Bone Spring Sand Gross Isopach; C.I. = 20'

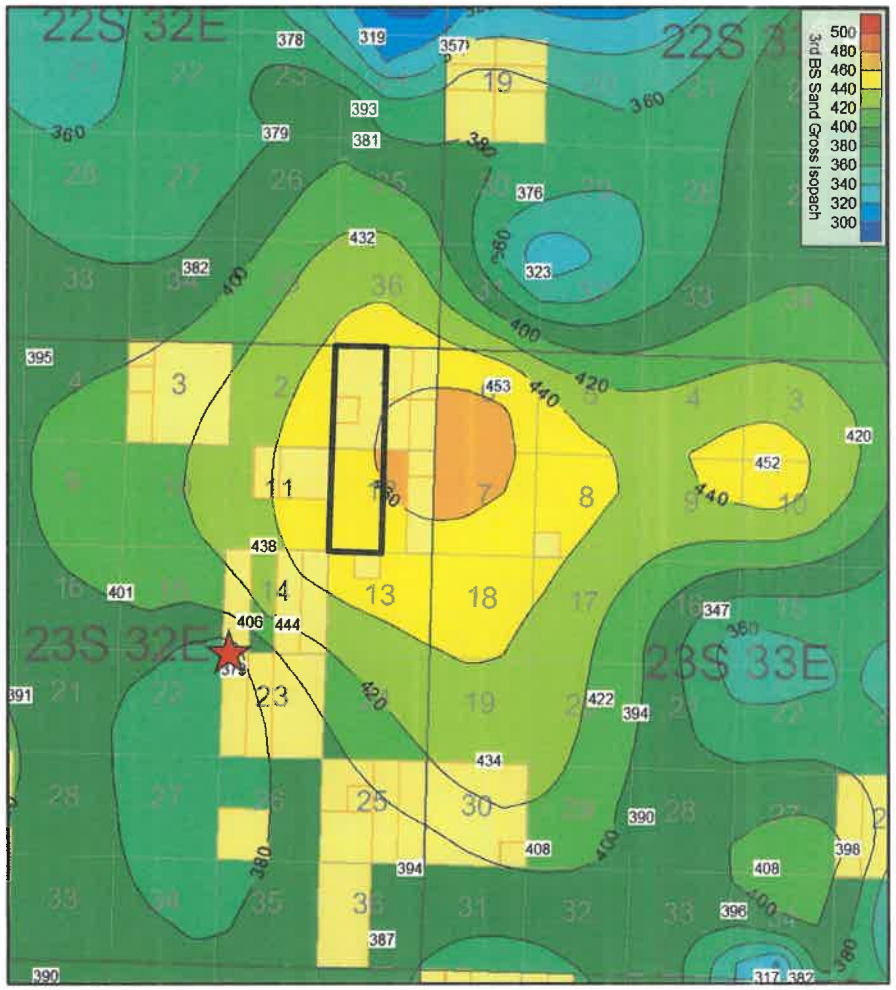
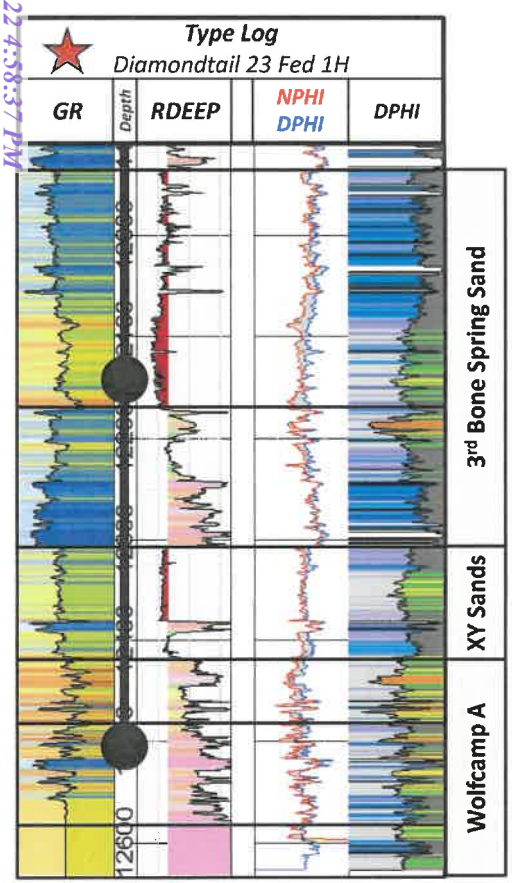
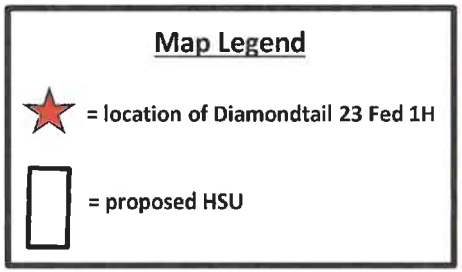


EXHIBIT
C-6-I

Wolfcamp Structure Dips to the Southeast



= Cimarex's landing targets



Top Wolfcamp Structure Map (SSTVD); C.I. = 50'

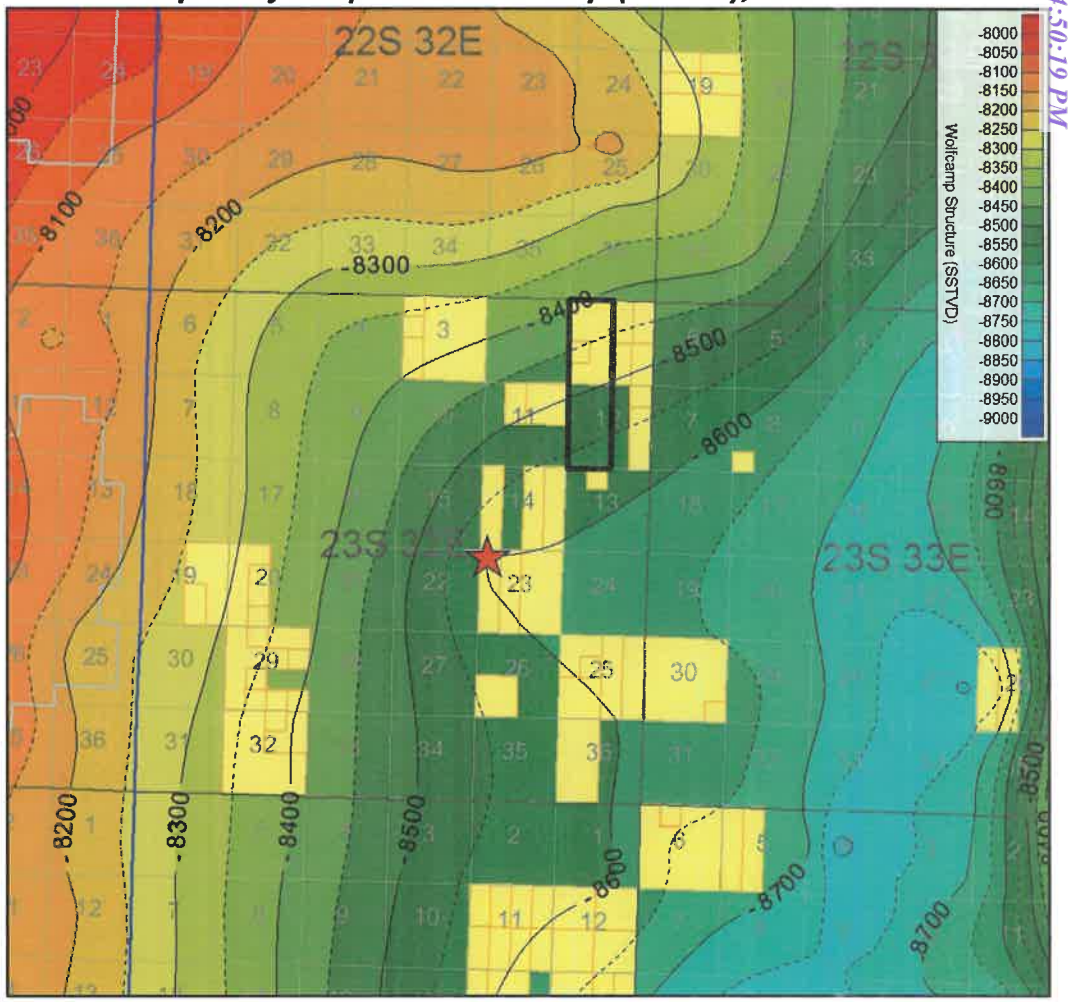
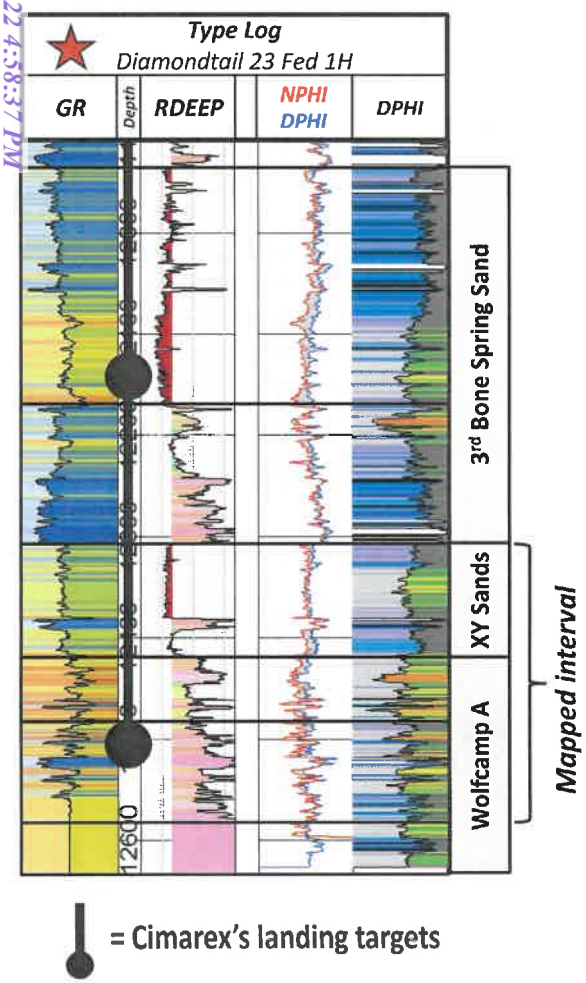


EXHIBIT
C-6-J

Upper Wolfcamp A Gross Isopach – Thicker in Cimarex's Proposed DSU



= Cimarex's landing targets

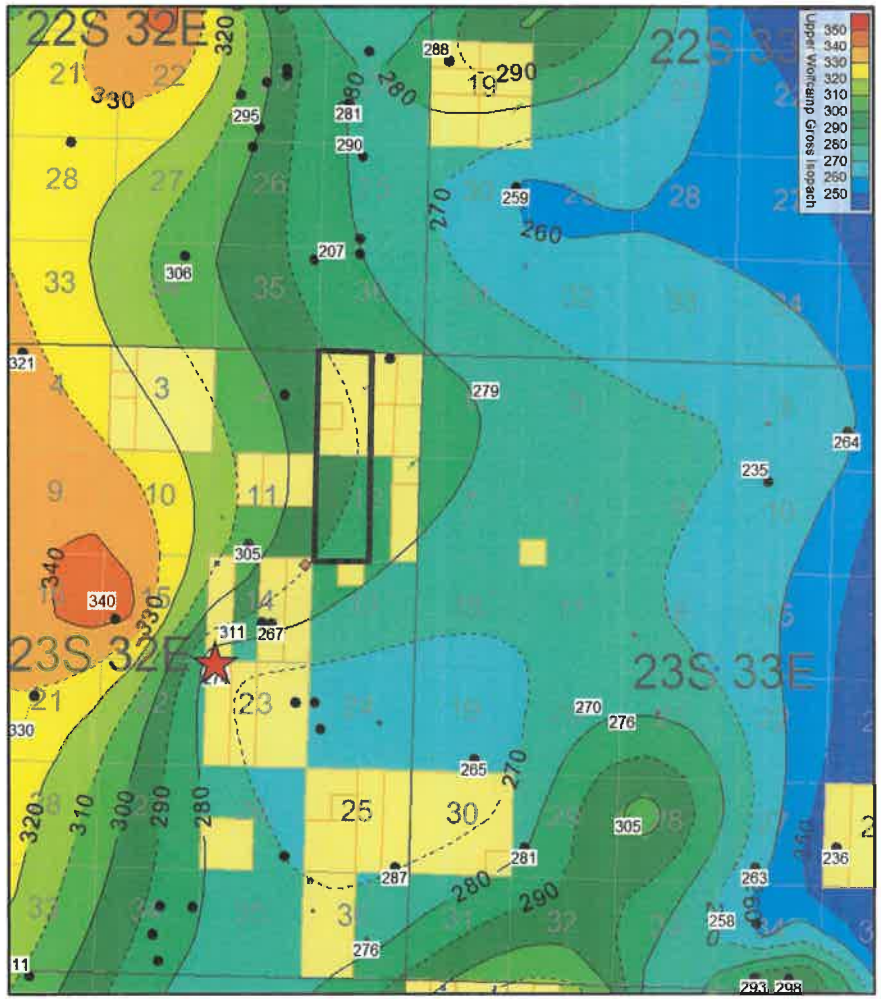
Map Legend

= location of Diamondtail 23 Fed 1H

= proposed HSU

EXHIBIT
tabbies
C.6.K

Upper Wolfcamp A Gross Isopach; C.I. = 10'



X Cimarex's Plan Optimizes Landing Zones to Best Capture Proven Reservoirs and Minimize Impact of Carbonate Frac Baffles

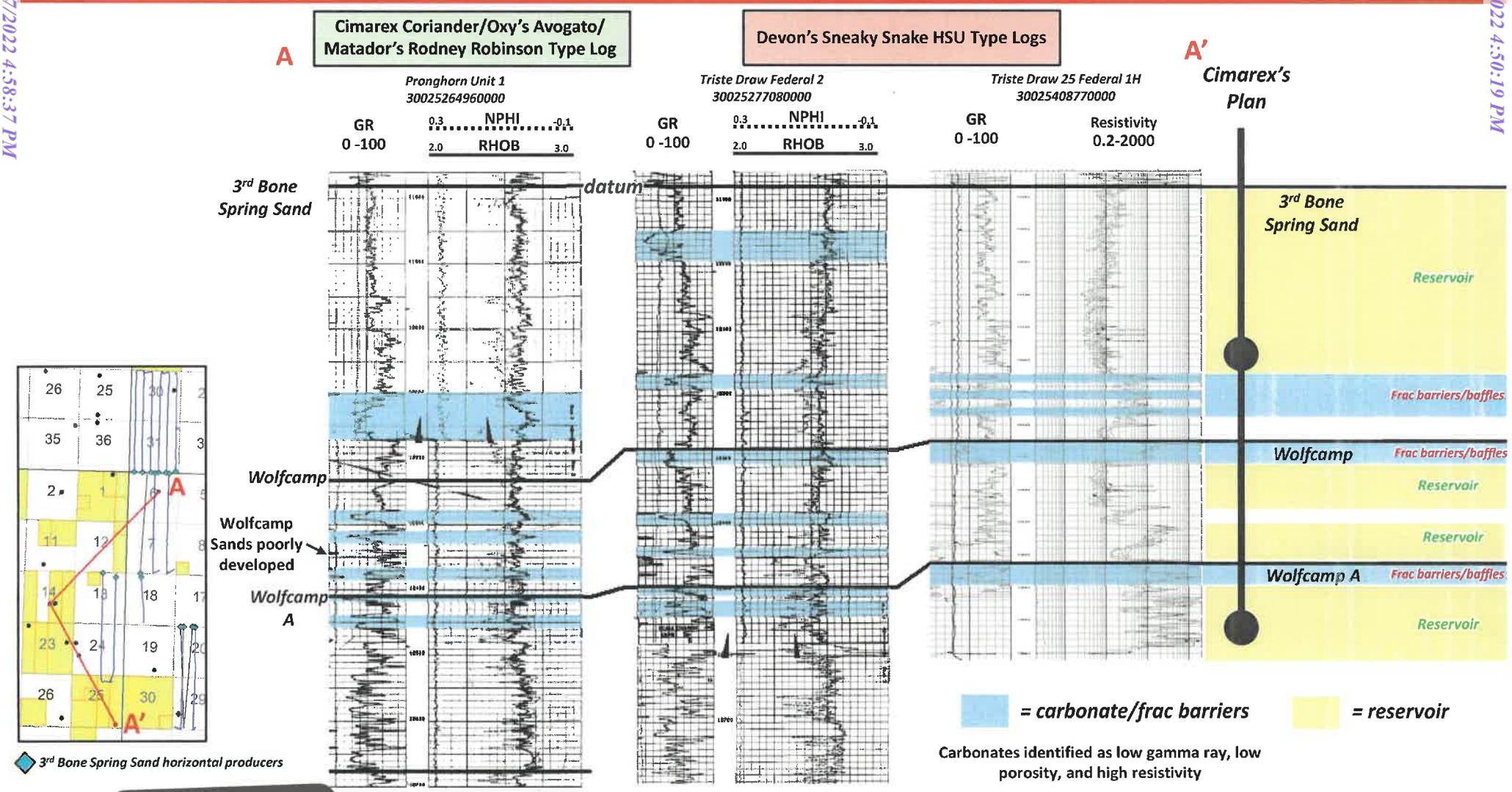


EXHIBIT C-6-L

Engineering

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

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

Case Nos. 22313-22316

APPLICATIONS OF DEVON ENERGY PRODUCTION COMPANY, L.P. FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

Case Nos. 22179-22180 & 22382

AFFIDAVIT OF EDDIE BEHM

Eddie Behm, being duly sworn, deposes and states:

1. I am over the age of 18, I am a Reservoir Engineer for Cimarex Energy Co. ("Cimarex"), and have personal knowledge of the matters stated herein.

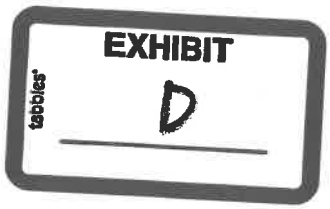
2. I have not previously testified before the Oil Conservation Division ("Division").

3. I received a Bachelor of Science from the University of Tulsa in 2011.

4. Since receiving my BS, I worked as a production operations engineer and reservoir engineer for Oxy for almost 4 years, a senior reservoir engineer for California Resources Corporation for 2 and half years, and since June of 2017 have worked for Cimarex (now part of Coterra Energy) as a production and reservoir engineer. My resume summarizing my educational and work experience is attached to this affidavit as Exhibit E-3.

5. My work for Cimarex includes the Permian Basin in New Mexico.

6. I am familiar with the applications filed by Cimarex in Case Nos. 22313-22316 and with the applications filed by Devon Energy Production Company, L.P. ("Devon") in Case Numbers 22179-22180, and 22382.



7. The primary takeaways from my testimony are as follows:

- Cimarex is better prepared to operate the wells and operate on the surface because it is developing acreage immediately adjacent to the proposed units in the E/2 of Sections 1 and 12; it has existing surface facilities; and it has third-party contracts already in place.

- Cimarex's 2-mile/2-mile development plan (each operator developing 2-mile wells across the acreage) increases production by at least 10% percent over Devon's 3-mile/1-mile plan.

- Cimarex is targeting the First Bone Spring, which Cimarex predicts could result in 1,522,000 barrels produced from Cimarex's proposed 2-mile wells, while Devon's plan entirely excludes the First Bone Spring. If Devon's plan is approved, the First Bone Spring would not be targeted **for a full three miles** leaving at least 2,403,000 barrels behind. Second, Cimarex is directly targeting the Third Bone Spring sand with two Third Bone Spring wells, while Devon appears to be only indirectly targeting the Third Bone Spring via two Wolfcamp XY wells. Based on my calculations, there are potentially 4,848,000 barrels (on a 2-mile basis) present in the Third Bone Spring sand and Upper Wolfcamp flow unit. By not directly targeting the Third Bone Spring sand, Devon risks losing connection with as much as 75% of the 4,848,000 barrels over the life of the wells.

- Devon's development plan is riskier than Cimarex's because 3-mile Wolfcamp wells in this area are particularly challenging because of the combination of high reservoir pressure and depth, which has the potential to leave barrels stranded, resulting in waste.

- Devon's plan would leave Cimarex with the possibility of developing only 1-mile wells in Section 1. 1-mile wells, while developable, are not as high of a priority for Cimarex, and under Cimarex's current schedule, would not be developed until 2029 at the earliest. The regulatory environment and economics in 2029 are obviously uncertain. In Cimarex's view, given the delays and uncertainty with developing 1-mile laterals, Devon's 3-mile/1-mile plan is tantamount to stranding Cimarex's acreage in Section 1. I refer to this scenario as "de facto" stranding.

8. In my opinion, Cimarex is better positioned to timely locate well sites, operate the property, and prevent waste.

9. Cimarex has experience with drilling wells and operating facilities on these very sections.

10. Cimarex is developing the E/2 of Section 1 and 12, and the W/2 development at issue here is part and parcel of Cimarex's overall development plan. Cimarex's E/2 Avalon wells are performing well.

11. Exhibit D-1 shows Cimarex's existing and proposed surface facilities. Cimarex has already built Pad 4 and already has an existing battery tank. Thus, Cimarex's development of the W/2 acreage will use some existing facilities, which, in turn, will minimize surface disturbance.

12. Cimarex has staked three additional pads, but anticipates only using two of them—Pads 1 and 3. BLM has approved the proposed pad sites and BLM has completed its on-site.

13. Cimarex has a contract with Lucid for gas takeaway. Cimarex has a contract in place with NGL to handle produced water. Cimarex also has a contract with Energy Transfer for oil. Cimarex has existing infrastructure in place for take-away of oil, gas, and water, which will reduce operational costs. We partner with Lucid on gas takeaway and are able to sell low pressure reducing emissions and OpEx in the form of compressor rental or purchase. Furthermore if development can be done at 2-miles we plan to use this as our last HP buyback location with Lucid eliminating compression costs all together. Existing 10" SWD line will allow for water disposal without capital and due to third-party partnership with NGL Cimarex will drill no SWDs to handle this volume.

14. In terms of methane, Cimarex intends to implement new CVS system with lockdown thief hatches which eliminates traditional thief hatches prone to leakage allowing more gas to be sold to Lucid and less gas to be flared.

15. Cimarex plans to utilize produced water in completing and stimulating the wells. Cimarex fracs wells with 100% produced water in this area and I would anticipate the same would occur here.

16. Cimarex's goal would be to start drilling as soon as it has all of the necessary permits. Cimarex continues to be actively engaged with BLM regarding this acreage and we would work diligently with BLM to get the permits we need.

17. Cimarex is a prudent operator and its track record demonstrates that it is able to timely locate well sites and operate the surface. Cimarex has drilled 100 lateral wells since 2017 in Lea and Eddy Counties, 60 of which are 2-mile wells.

18. Cimarex has spud 24 wells in Lea County New Mexico in 2021, has 6 active rigs available, and is continuing to drill and complete wells in New Mexico with 1 to 3 of its contracted Permian rig fleet.

19. Cimarex has significant experience drilling 2-mile laterals in the Delaware basin. Over the last 5 years, Cimarex has successfully drilled 326 2-mile laterals. These wells have proven to be efficient and economical.

20. Another purpose of my testimony is to demonstrate, from a reservoir engineering perspective, why Cimarex's proposed development plan is more efficient and effective than Devon's plan, has less risk than Devon's plan, and will result in the protection of correlative rights and the prevention of waste.

21. In my opinion, developing the acreage at issue in these cases with two sets of 2-mile laterals will minimize stranded barrels and result in the maximum recovery from all targets on a 1280-acre basis.

22. Exhibit D-2 is a bar chart comparing the total captured reserves under each proposal. This exhibit demonstrates that Cimarex's proposed 2-mile/2-mile development plan allows the most reserves to be captured. The green bar represents captured reserves under Cimarex's proposed 2-mile/2-mile development plan, which amounts to approximately 21,084

million barrels of oil ("MBO"). Devon's proposed 3-mile/1-mile development plan is represented by the yellow bar, which amounts to approximately 19,182 MBO, which assumes Cimarex is able to develop Section 1. The orange bar represents the "de facto" stranding outcome, i.e., Cimarex only able to develop Section 1, if at all, in or after 2029. Under this scenario, the captured reserves would only be approximately 13,555 MBO—stranding nearly 7,500 MBO.

23. Cimarex's proposal protects correlative rights and prevents waste because Cimarex is targeting both the First Bone Spring Sand and the Third Bone Spring Sand. Devon is not targeting the First Bone Spring Sand at all and is only indirectly targeting the Third Bone Spring Sand. In Cimarex's opinion, the First and Third Bone Spring Sands are proven targets in this area and are necessary landings to capture the most barrels with highest chance of success. If Devon moves forward with its 3-mile lateral plans, Section 12 (the "Overlapping Acreage") will be impacted, as will the remaining two miles, because the First Bone Spring Sand will be excluded for three full miles, and the Third Bone Spring would be inefficiently targeted for the same three full miles.

24. I have summarized the comparison by target in Exhibit D-3.

25. First, Cimarex is targeting the First Bone Spring, which Cimarex predicts could result in 1,522,000 barrels produced from Cimarex's proposed 2-mile wells, while Devon's plan excludes the First Bone Spring. If Devon's plan is approved, the First Bone Spring would not be targeted **for a full three miles** leaving up to 2,400,000 barrels behind. With respect to the Overlapping Acreage, Devon's plan would exclude 761,000 barrels alone.

26. Cimarex's proposed plan is also superior to Devon's because Cimarex has a proven, more effective network of take points to best drain the flow unit in our Third Bone Spring/Wolfcamp development plan. The experience of Cimarex and other operators have

demonstrated the Third Bone Spring sand and Upper Wolfcamp XYA sand act as a flow unit. Based on Cimarex's valuation, *see* Exhibit D-4, this flow unit amounts to approximately 50% of the entire lease value, meaning that optimal execution of capturing reserves within this flow unit is critical to realizing the lease value. In addition, OXY's Avogato Third Bone Spring Sand wells' production history (wells adjacent to the acreage at issue in these cases) demonstrates that as much as 75% of the barrels produced from Third Bone Spring Sand only development. In Cimarex's opinion, Devon's decision to not land any wells in the proven Third Bone Spring Sand zone significantly increases the risk of leaving barrels behind, including barrels in the Overlapping Acreage. Conversely, Cimarex's plan directly targets those barrels.

27. Devon's plan for 3-mile Wolfcamp laterals in this area has the potential to strand hydrocarbons, because 3-mile Wolfcamp laterals in this part of Lea County are unproven compared to 1- to 2-mile Wolfcamp wells, which I will discuss in more detail below.

28. Not only does Cimarex's proposed plan allow for more ultimate recovery of reserves but it also accelerates production at a time when there is a national need for increased domestic oil production because both Cimarex and Devon can now develop 2-mile laterals. Conversely, if Cimarex is left with only 1-mile laterals, Cimarex would spud those wells, if at all, in 2029 due to the fact that 1-mile laterals are not currently in Cimarex's development plan. Thus, Devon's plan has the negative impact of either delaying production from Cimarex's 1-mile laterals or stranding 7.5MM barrels of reserves.

29. Exhibits D-5 to D-8 are exhibits I prepared pertaining to the Avalon, First, and Second Bone Spring formations, which I summarize briefly:

a. Cimarex is proposing three 2-mile wells into section 12 and will be developing between 7 and 8 wells per section for the Avalon due to the existing 1 mile Resolver Avalon producer. Exhibit D-5 supports Cimarex's proposed Avalon spacing based on production from the adjacent Matador Robby Robinson unit, which has the same

spacing as Cimarex proposes and offsets our existing Coriander wells at the same distance our additional proposed well will offset the Resolver. Cimarex's Avalon type curve tracks the Rodney Robinson 101H production, which is economic and confirms there is no reason to not drill at this spacing adjacent to Concho's existing Resolver well. Additionally, as Ms. Blake testified, Devon's 3-mile Avalon wells in this area are risky, given the presence of chert and limestone discussed in Ms. Blake's testimony.

b. Exhibits D-6 and D-7 demonstrate that the First Bone Spring Sand is a productive target in this area. Significantly, however, Devon is not targeting the First Bone Spring Sand, resulting in at least 1,522,000 barrels stranded. The adjacent OXY Avogato First Bone Spring Sand well proves incremental barrels are captured by developing the First Sand in this area because both the Second sand and Avalon are developed above and below, which establishes that the First Bone Spring Sand has separate reserves. Cimarex's plan is better because it targets the First Bone Spring compared to Devon's which does not. This also means that Cimarex's recovery in Section 12 would be 761,000 barrels more than Devon's.

c. D-8 supports Cimarex's proposed Second Bone Spring spacing based on production from adjacent or near-by production. Both Cimarex and Devon are proposing six wells per section.

30. My next exhibits relate to the Third Bone Spring Sand and Upper Wolfcamp A, which Cimarex treats as a flow unit. These exhibits demonstrate:

a. The Third Bone Spring is a productive target in this area, yet Devon is not directly targeting it.

b. That 2-mile or less Wolfcamp laterals are preferred in this area and perform better than 2.5 or 3 mile Wolfcamp laterals in this area.

c. Cimarex's development plan protects correlative rights and prevents waste.

31. Turning first to the Third Bone Spring, D-9 and D-10 establish that nearby offsets target the Third Bone Spring Sand with very good results. Exhibit D-10 demonstrates Wolfcamp equivalent results have been achieved in the Third Bone Spring Sand at Oxy's Avogato development with 6 wells per section. This strong performance paired with our Red Tank 3 Federal 14H delineation well to the west support that a significant percentage of barrels are present in the Third Bone Spring Sand in this area. These proven development results support staggering wells

in the Third Bone Spring Sand and Wolfcamp A, instead of targeting the Wolfcamp XY Sands and Wolfcamp A, which is what Devon has proposed because as much as 75% of the total oil target could be in the Third Bone Spring Sand. Devon's upper most landing in the Wolfcamp XY is below carbonate frac baffles, which means there is significant risk of closure over time resulting in Devon stranding barrels that Cimarex's proposed Third Bone Spring sand landing is in perfect position to capture in this local Third Bone Spring sand sweet spot. For this reason. Cimarex's Third Bone Spring and Wolfcamp A well spacing is preferable to Devon's Wolfcamp XY and A well spacing.

32. Exhibit D-11 illustrates the differences between Cimarex's and Devon's development plans. Cimarex's plan allows for tested 2-mile developments of the 1280 acres in 640 acre units. It allows all parties to develop their just and equitable share of the reserves without waste and through lower risk, timely development, including Wolfcamp development. Devon's 3-mile/1-mile plan is inferior because 3-mile Wolfcamp wells in this area have lower performance and could strand reserves and 1-mile laterals are not currently in Cimarex's near term development plans due to worse economic returns than 2-mile locations. Economic ranking will delay spudding of Wolfcamp - mile wells until 2029. Given 2021 started with a fracture moratorium on permits on federal land the ability to frac 1-mile wells in 2029 may very well not exist.

33. Exhibit D-12 identifies the number of laterals by length targeting the Wolfcamp that have been drilled to date in Lea County and shows a strong preference for Wolfcamp laterals less than 2.5 miles. Only Devon has drilled 2.5 to 3-mile laterals in this area. EOG, Conoco, Devon, and Cimarex have all drilled 1-mile to 2-mile Wolfcamp laterals in this area.

a. My opinion is that executing a successful frac in a lateral longer than two miles is difficult in the Lea County Wolfcamp due to 12,000 foot depth, high treating pressures 11,000 to 12,000 PSI at surface, and high reservoir pressure ~ 9000 psi.

Combination of depth pressure and friction from additional length will make the most challenging formation to treat even more difficult.

b. The fact that no operators, other than Devon, have proposed or drilled 2.5 or 3 mile Wolfcamp laterals in this area supports my opinion that the potential benefit of 3-mile Wolfcamp laterals is outweighed by the risks arising from the depth pressure and friction in this area. The performance of Devon's 3-mile Wolfcamp laterals in this area so far confirms the risk.

c. It is especially telling that EOG has not attempted 3-mile laterals in this area of Lea County, because EOG has the ideal acreage to develop 3-mile laterals, but instead choses to do 1.5 and 2 mile laterals in this area.

34. Exhibit D-13 identifies 1-mile to 2-mile laterals normalized within the Area of Review, drilled by Cimarex, Devon as well as Conoco and EOG. The purpose of this exhibit and the next series of exhibits is to demonstrate Cimarex's success in this area, as opposed to Devon's relative lack of success in the most valuable formation relative to Cimarex and 2 other operators with significant well counts and to show that while our Cimarex well count may be lower our results are fantastic.

35. Exhibit D-14 demonstrates that Devon's 15 extended Wolfcamp laterals in this area of Lea County underperform proven 1 to 2 mile laterals.

a. Exhibit uses Cum/ft type curves for Cimarex and EOG 1 to 2 mile wells that are used to compare against Devon performance and highlight individual well performance.

b. Early time average performance of Devon's long laterals is significantly worse than EOG underperforming by ~33% over the first 300 days.

c. Immediate underperformance seen on the first year of tests when production should be at its zenith and could indicate many problems that will leave barrels stranded like ineffective stimulation due to inadequate net treating pressure, or loss of contribution from toe of the lateral, etc.

36. Exhibit D-15 compares Devon laterals > 2 miles with Cimarex 1- to-2 mile laterals.

The takeaways from this slide are:

a. Cimarex normalized Wolfcamp well average for 1 and 2 mile wells is shown by the green dashed typecurve with EOG's normalized Wolfcamp well average shown by the blue dashed line. Both of these averages are significantly above the majority of the Devon extended laterals. This establishes how far below the median basin performance these wells are and that linear uplift is not occurring.

b. Devon's loosely spaced Thistle 121H and 108H are drilled at 4 wells per section but still significantly underperform expectations by 12 to 16 BO/ft relative to EOG and Cimarex.

c. Devon's most three recent Wolfcamp wells, the Thistle 180H, 181H, and 179H are better than prior wells and do follow the blue EOG cum/ft curve for the first 5 months indicating improvement. While performance has improved, only 3 of the 15 wells are meeting early time expectations. The last publically available month shows a drop in rate for two of the three wells.

d. Cimarex's Dos Equis 6 well per section development plan is called out to highlight recent Cimarex performance in the area and further demonstrates how far below expectations the Devon extended laterals are.

37. Exhibit D-16 shows reserves captured and stranded. For Wolfcamp 3-mile wells I assumed that the early time performance of Devon's Thistle program continues to trend. I calculate a 16.5% reduction to cum/ft over time. In my opinion this is the absolute maximum I would promise on these wells because it assumes that:

i. no additional issues show up over the life of the wells (we have only seen production for the easy portion of unconventional life when pressures are high, metal is new, lateral is clear of sand, and frac has not healed);

ii. no treating issues materialize when going from testing density < 5 to development density of 8.

38. To conclude, setting aside ownership of these four sections, the most effective way to develop these four sections is two sets of 2-mile wells, rather than as 3-mile and 1-mile wells. In my opinion, Cimarex is able to prudently operate the property, given its existing surface infrastructure, which will cut down operational costs. Cimarex's plan is overall less risky than Devon's, including as to the Overlapping Acreage, and Cimarex's plan will prevent waste, especially as to the Overlapping Acreage, because Cimarex is directly targeting more formations

than Devon and 2-mile Wolfcamp laterals are proven to perform better in this area given the depth and pressure of the Wolfcamp in this part of Lea County.

39. The exhibits to my affidavit were prepared by me or under my direction.

FURTHER AFFIANT SAYETH NOT.

Eddie Behm

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

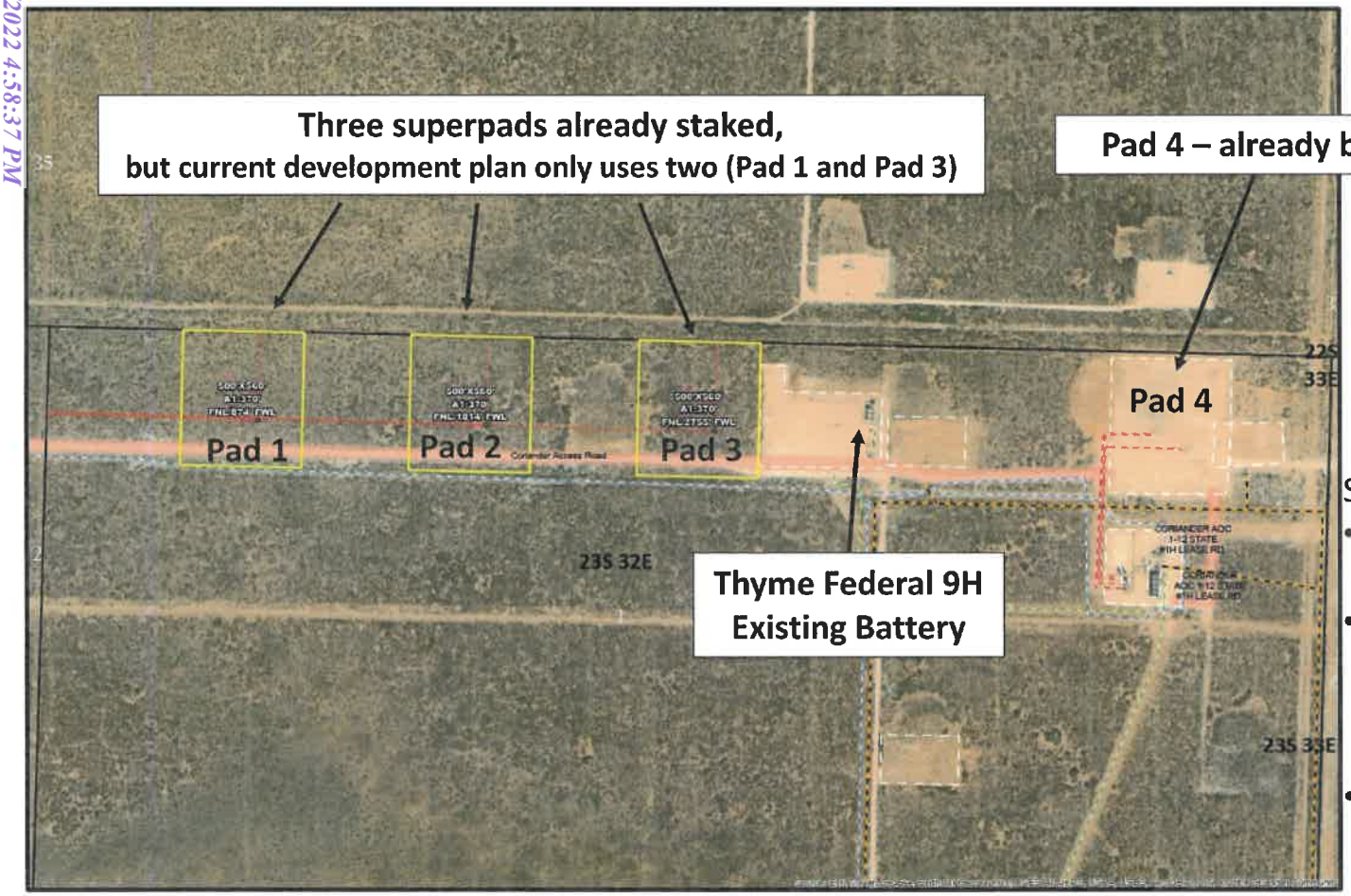
SUBSCRIBED AND SWORN to before me this 16th day of March 2022 by Eddie Behm.

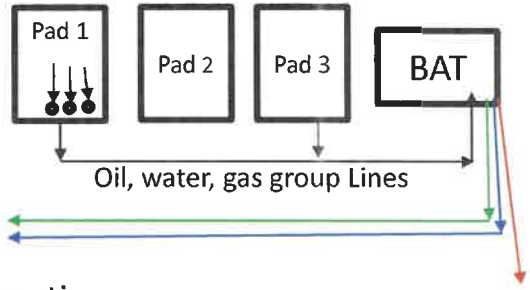
SEAL

KAIMI BROWNLEE
Notary Public, State of Texas
Comm. Expires 03-26-2023
Notary ID 12052368

Notary Public
My commission expires: 3/26/2023

Coriander Development Plan Utilizes Existing Facilities, Minimizes Surface Disturbance, and 3rd Party Takeaway Contracts/Infrastructure in Place





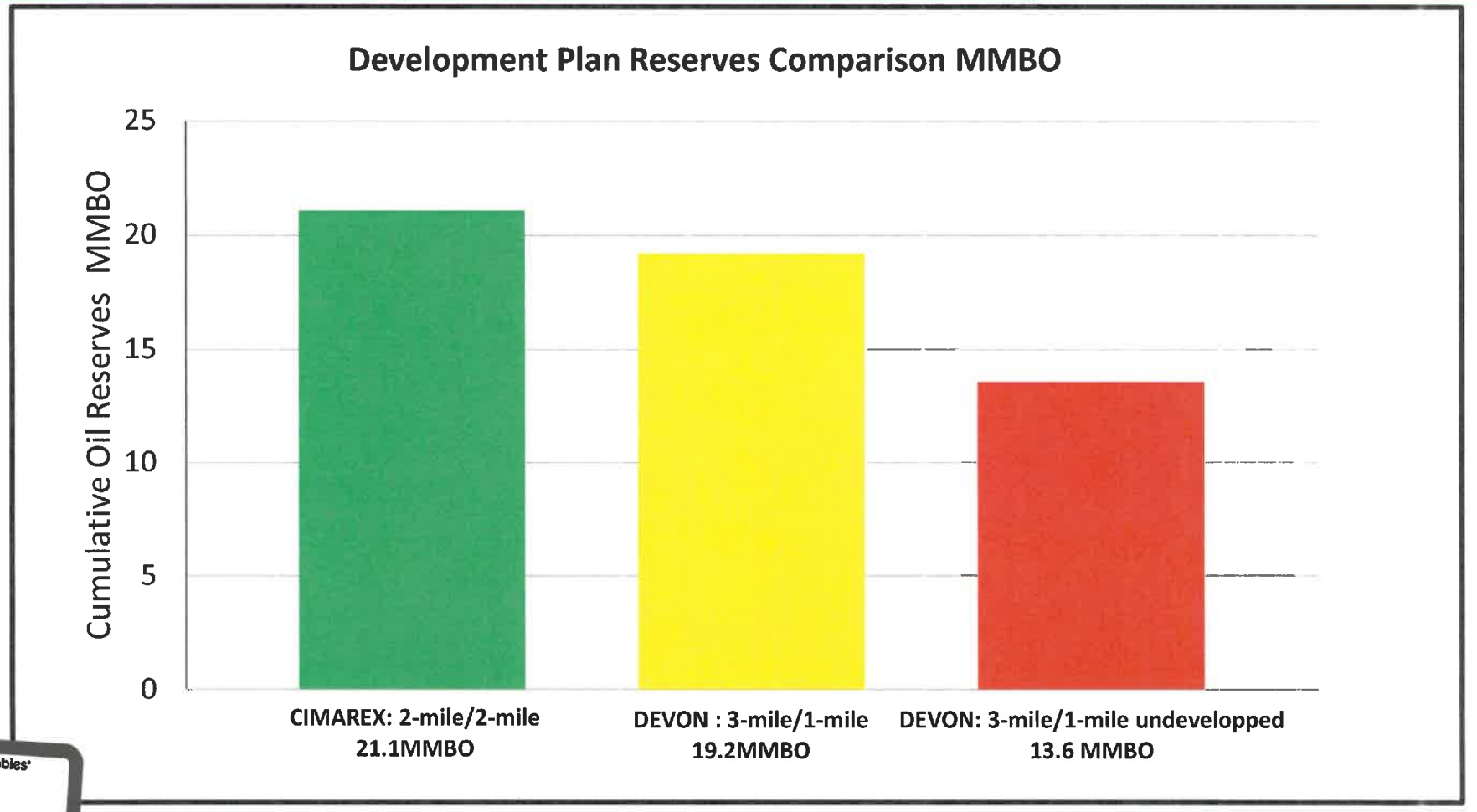
Schematic

- Oil, water, and gas separated on pad
- Flow to 9H Battery in group lines
  - Oil on pipe to Energy Transfer
  - Gas Sales LP to Lucid
  - Water 10" to NGL
- Plan to upgrade existing batteries from 6 oz tanks to lower emissions

One pad already built in E2E2 (Pad 4). Planned development off of Pad 1 and Pad 3 for AOI.

EXHIBIT
D. 1

Cimarex Proposal Promotes Efficient Production, Protects Correlative Rights, and Prevents Waste



Comparison of Captured Reserves: Cimarex's plan prevents waste—Devon's does not.

Cimarex Plan Develop AOI with 2 Miles - Captured Reserves 21,084 MBO EUR			
Formation	Devon 2 Mile Laterals (MBO)	Cimarex 2 Mile Laterals (MBO)	Stranded Reserves (MBO)
Avalon	2,268	2,626	0
1st Bone Spring	0	1,522	0
2nd Bone Spring	2,850	2,850	0
Wolfcamp / 3rd	4,484	4,484	0
Total	**9,602**	**11,482**	**0**

2-mile wells accelerates all development, but *more importantly*, **allows the majority of barrels to be captured.**

Devon Plan Develop AOI with 3 Mile and 1 Mile- Captured Reserves 19,183 MBO EUR			
Formation	Devon 3 Mile Laterals (MBO)	Cimarex 1 Mile Laterals (MBO)	Stranded Reserves (MBO)
Avalon	3,143	1,432	
1st Bone Spring	0	721	801
2nd Bone Spring	4,500	1,350	
Wolfcamp / 3rd	5,912	2,124	932
Total	**13,555**	**5,627**	**1,733**

Devon not targeting 1st Sand and poor performance in 3-mile Wolfcamp wells in this area strands barrels.

Devon Plan Develop AOI with 3 Miles and 0 Mile Captured Reserves 13,555 MBO EUR			
Formation	Devon 3 Mile Laterals (MBO)	Cimarex 1 Mile Laterals (MBO)	Stranded Reserves MBO
Avalon	3,143	0	1,432
1st Bone Spring	0	0	1,522
2nd Bone Spring	4,500	0	1,350
Wolfcamp / 3rd	5,912	0	3,056
Total	**13,555**	**0**	**7,361**

1-mile pushes Cimarex first spud out to 2029. This could strand barrels in the ground at low prices or different regulatory environment.

All cases assume 4500' for 1 mile, 9500' for 2 mile, 15,000' for 3 mile across the AOI
Wolfcamp 3-mile curve run at 16.5% degradation/ft:

- Assumes new Thistles continue to perform and poor Thistle outcome still equally likely due to landing zone. 80% of long laterals underperforming average and additional treatment challenges from tighter stacked development add risk to 3 miles

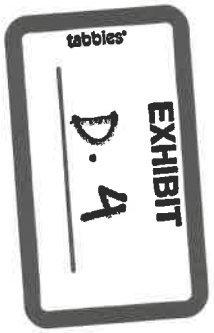
EXHIBIT
tabbies
D.3

Cimarex Wolfcamp/3rd Bone Spring Sand Development Plan

- Full section development is planned platted with 3rd Bone Spring Sand and Wolfcamp permits submitted
- Utilize existing facilities, existing water, oil, gas, and power infrastructure, and existing 3rd party contracts for all phases

FLAT 60 Base Sec 12 160 acres			
Lease	**Formation**	**ATax PV10 ($MM)**	**Atax Bonus 30 ($/acre)**
Coriander Thyme	Avalon	$9.54	$30,257
Coriander Thyme	1st Sand	$0.00	$0
Coriander Thyme	2nd Sand	$9.67	$29,317
Coriander Thyme	Wolfcamp/3rd	$16.81	$52,052
Coriander Thyme	**Lease Total**	**$36.01**	**$111,627**

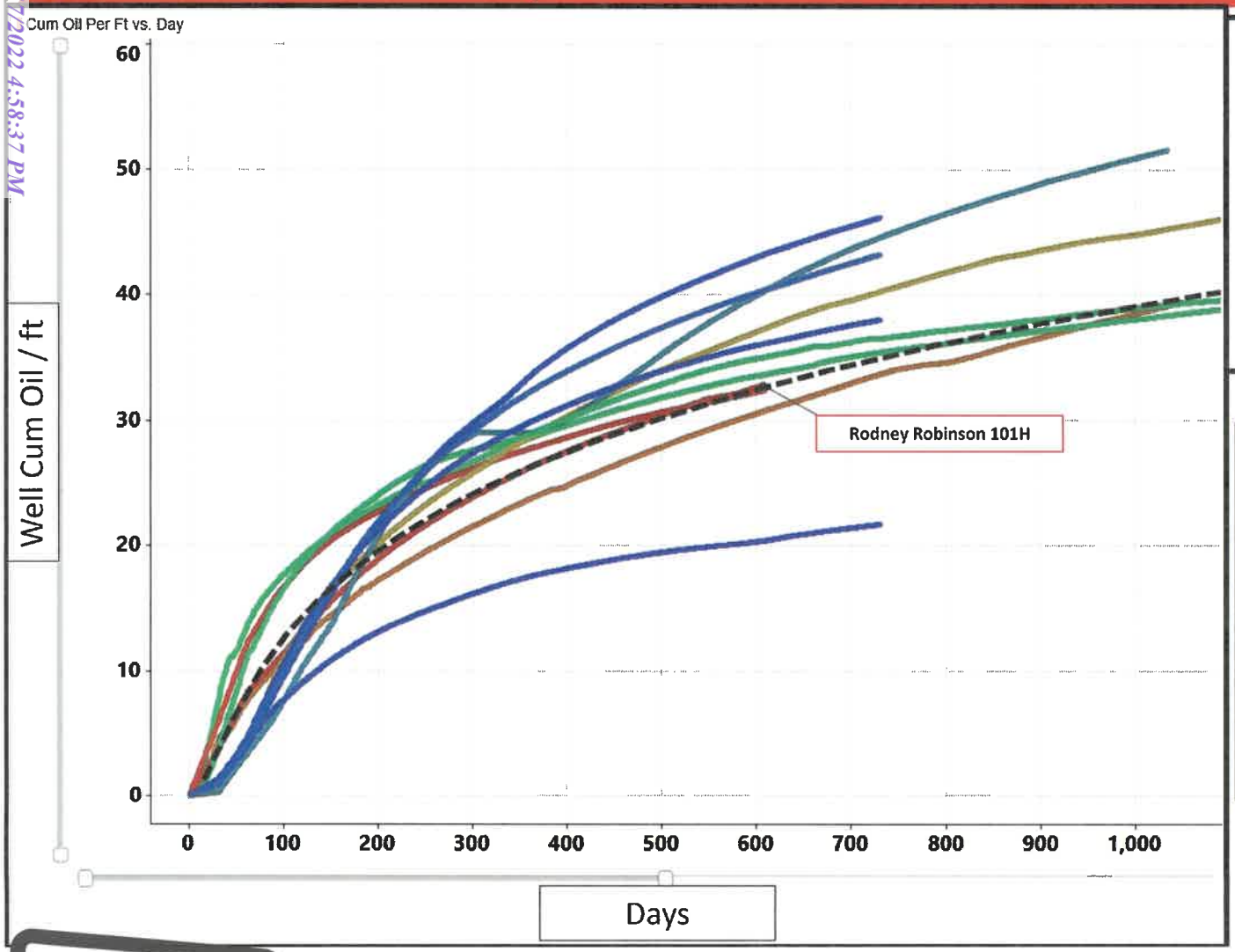
Note: Flat 60 Table from trade negotiations values 160 acres in NW/4 of Section 12. **Cimarex models Upper Wolfcamp XYA & 3rd Sand flow unit as ~50% of lease value**. Optimally executing 3rd Sand and Upper Wolfcamp flow unit is critical to realizing full lease value.



Avalon

ENGINEER

Avalon Slot 1 well Adjacent to Cimarex's Coriander Well Supports Curve



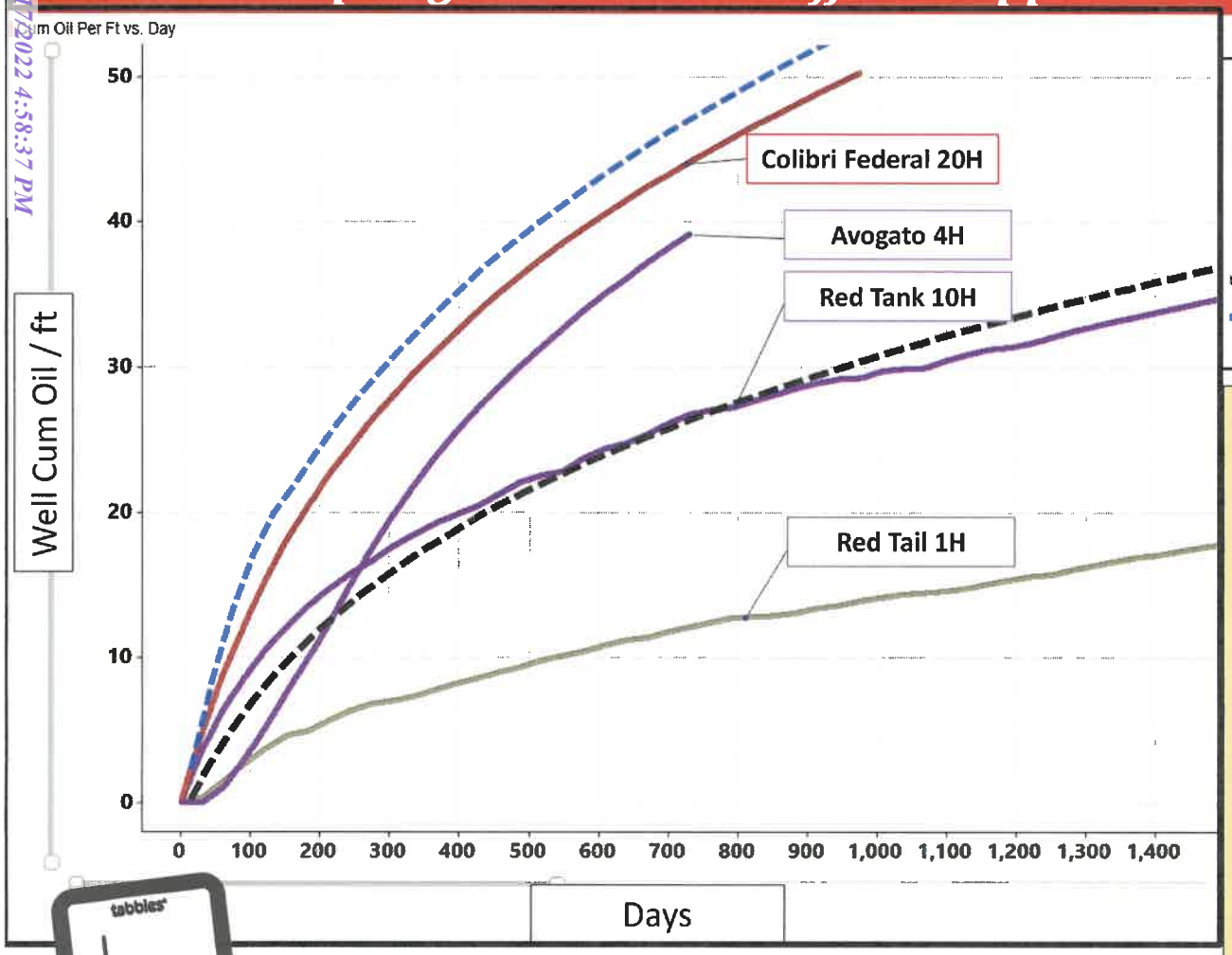
- The Rodney Robinson is adjacent to Coriander 1H and supports our well spacing.
- Cimarex's Type Curve lies on top of Slot 1 Fully-bounded Matador's Rodney Robinson 101H for 600 days.

EXHIBIT
D-5

1st Bone Spring Sand

ENGINEER

1st Bone Spring Sand Modern Offsets Support Cimarex's Development Plan



Legend

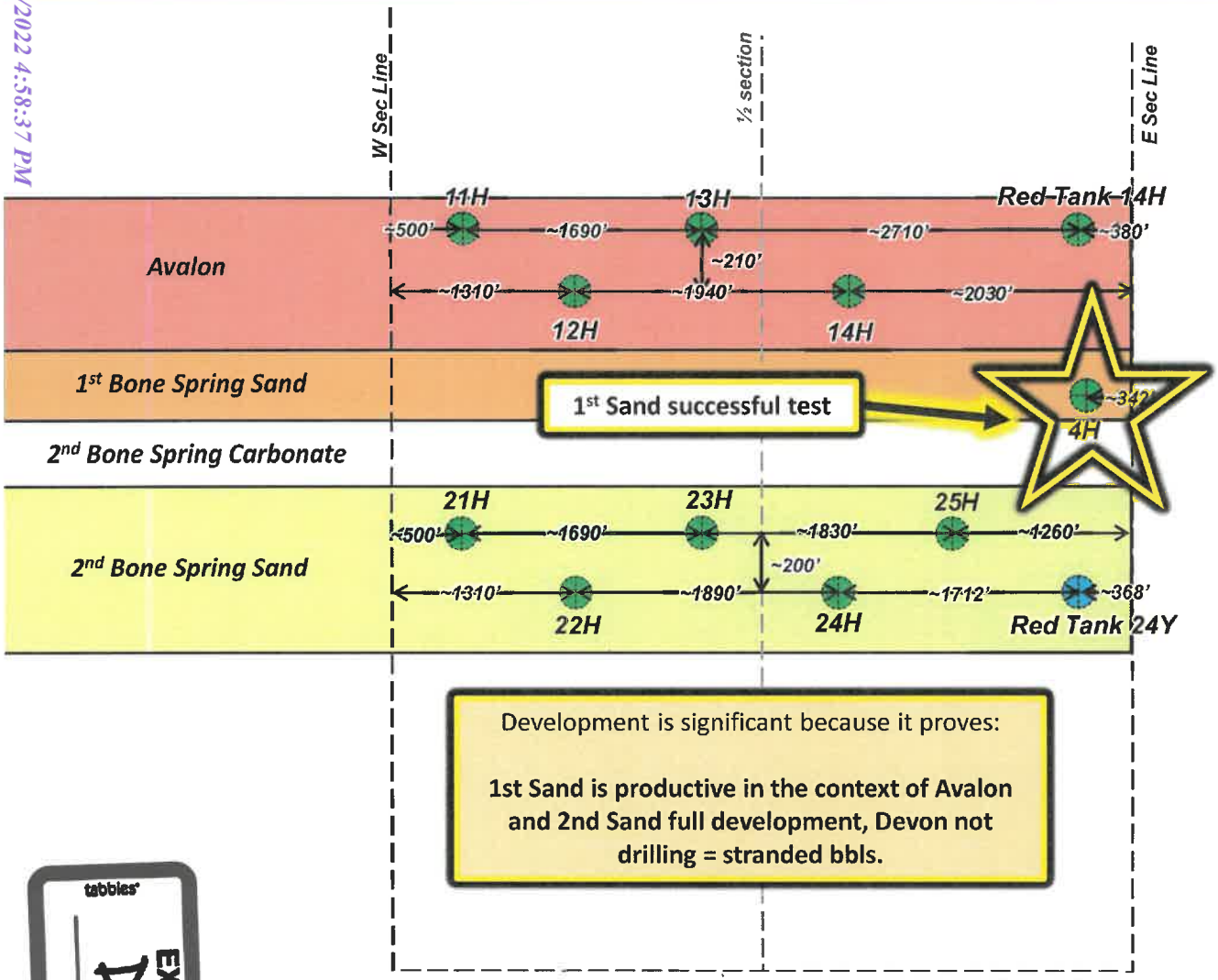
- AVOGATO 30-31 STATE COM #004H
- COLIBRI FEDERAL 23-32-10 FB #020H
- RED TANK 26 FEDERAL #10H
- REDTAIL STATE COM #1H
- Cimarex 1st Sand Type Curve
- EOG Avg Wolfcamp

1st Bone Spring Sand is less targeted, but modern completions support developing the formation

- **Oxy's Avogato 30-31 Fed State Com 4H supports 1st Sand adds bbls with Avalon and 2nd Sand developed**
- **Marathon's Colibri Fed 23-32 10 FB 20H BO/ft is close to Wolfcamp average with 3 years production.**
- **Concho's Redtail State Com 1H is an old, pre-slick water, 336 lb/ft frac well. Poor performance is driven by a lack of basin experience at the time of completion, not reservoir quality.**

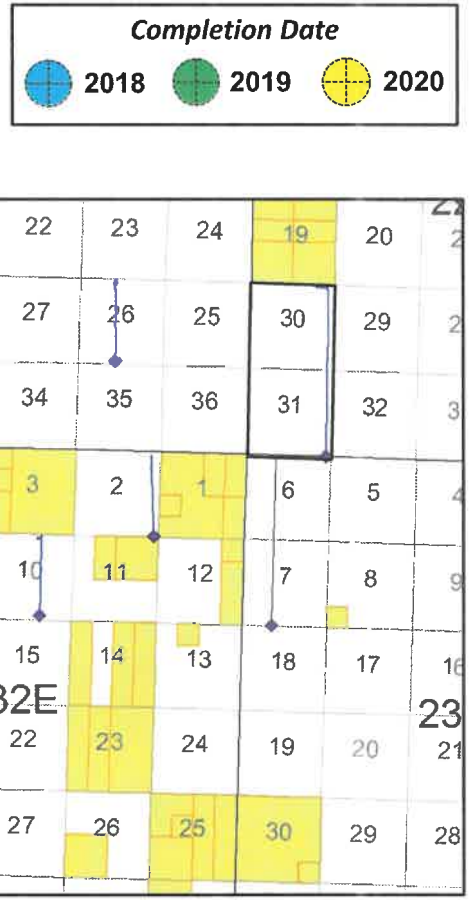
Oxy's Avogato Avalon, 1st Sand, and 2nd Sand Development

T22S R33E Sec 30-31



Development is significant because it proves:

1st Sand is productive in the context of Avalon and 2nd Sand full development, Devon not drilling = stranded bbls.

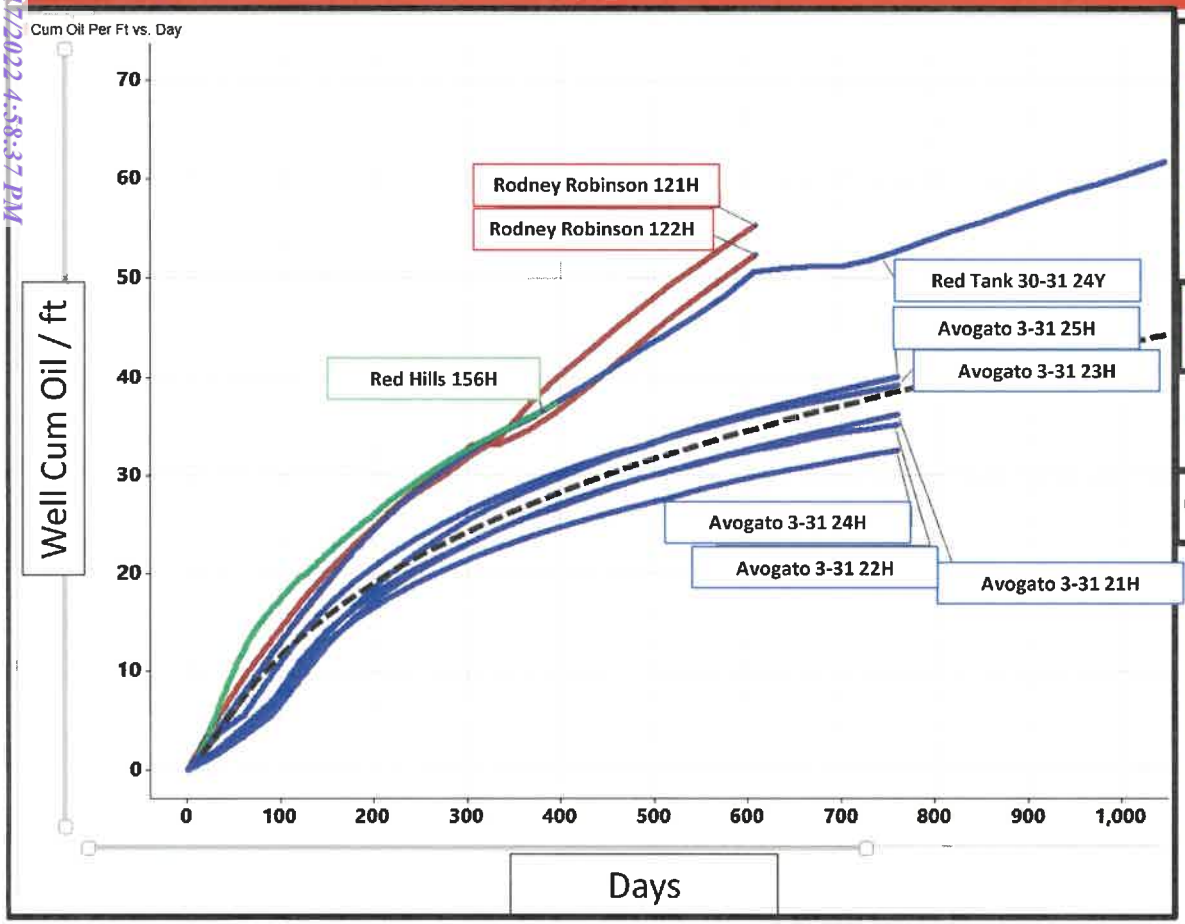


1st Bone Spring Sand horizontal producers

2nd Bone Spring Sand

ENGINEER

2nd Sand Cimarex Type Curve Anchored to Same Spacing Full Development



AVOGATO 30 31 STATE COM #023H AVOGATO 30 31 STATE COM #024H AVOGATO 30 31 STATE COM #025H AVOGATO 30-31 STATE COM #021H AVOGATO 30-31 STATE COM #022H RED TANK 30-31 STATE COM #024Y	Oxy 6 well development Oxy Parent
RODNEY ROBINSON FEDERAL #121H RODNEY ROBINSON FEDERAL #122H	4 WPS ~ Parent
RED HILLS 32-5 FED COM 156H	Cimarex 2-mile Parent
Cimarex 2nd Sand Type Curve	

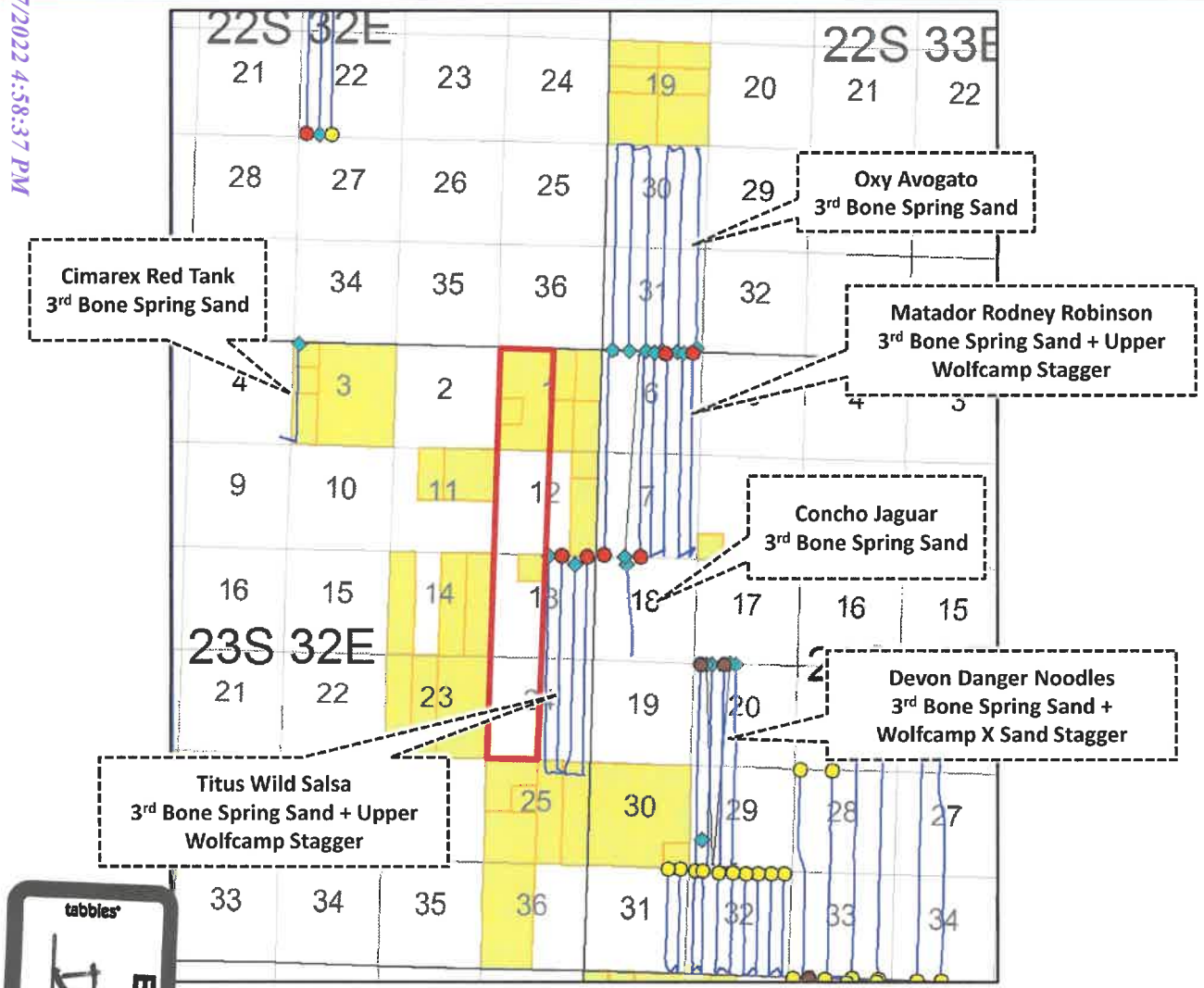
Cimarex Typecurve is anchoring expectations to identical Avogato spacing adjacent to Coriander lease.
Our 2 mile Red Hills 156H parent confirms we can execute similar results on 2 mile wells.

tabbies
EXHIBIT
D.3

3rd Bone Spring Sand + Wolfcamp

ENGINEER

Nearby Offsets Target 3rd Bone Spring Sand with Good Results



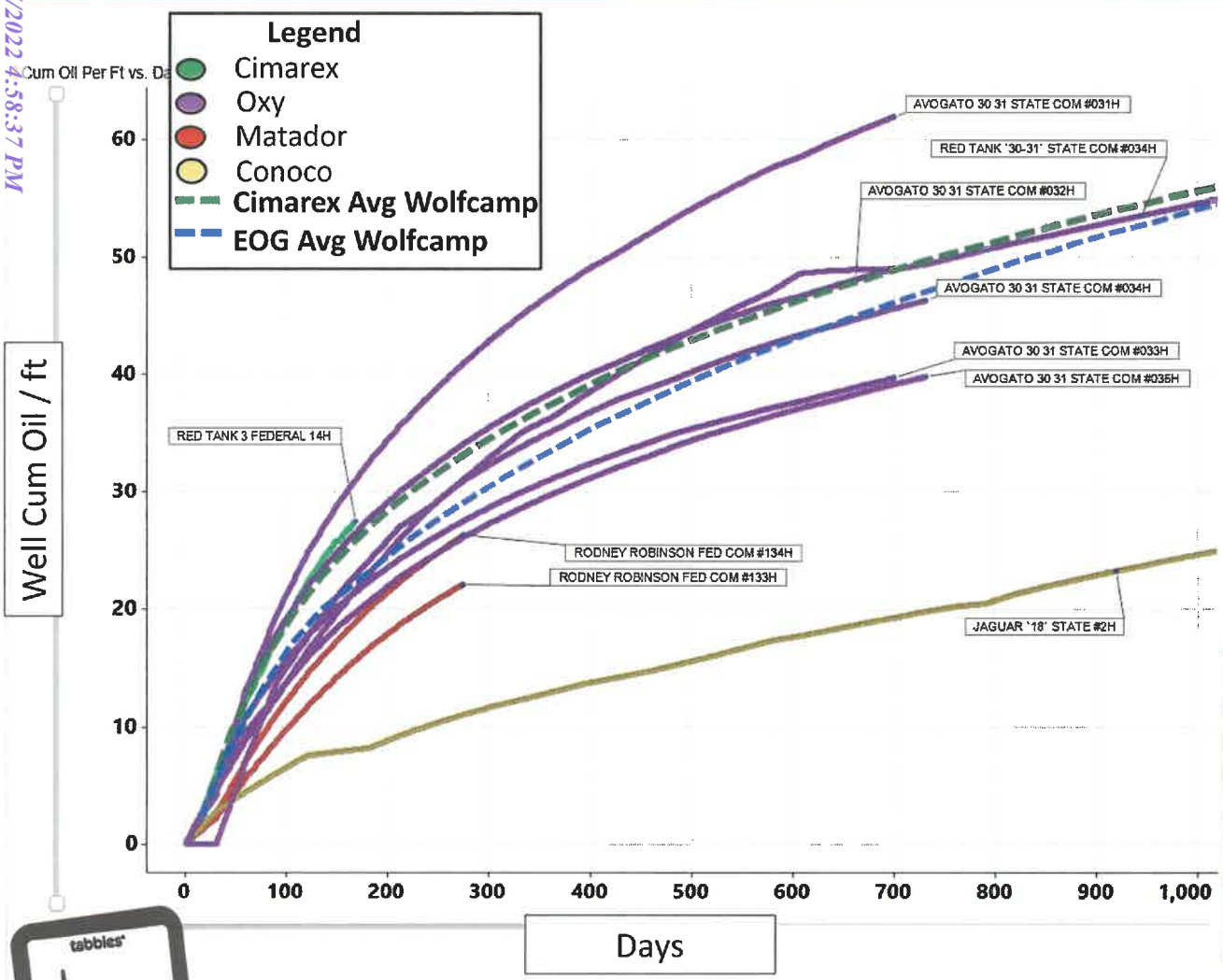
- 3rd Bone Spring Sand horizontal producers
- Wolfcamp X Sand horizontal producers
- Wolfcamp Y Sand horizontal producers
- Wolfcamp A horizontal producers

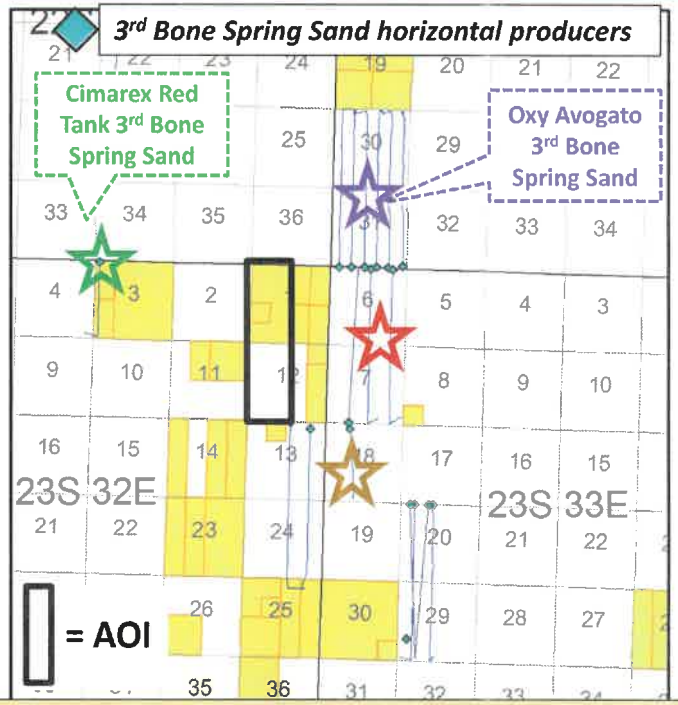
= Subject Area

tabbies

EXHIBIT P9

Landing in 3rd Sand with 6 WPS Accessed ~75% of Reserves that an 8 WPS Upper Wolfcamp Project Would be Expected to Capture





1. OXY 3rd Sand-only development (i.e. no co-development with Wolfcamp) but delivers Wolfcamp equivalent results verifying Cimarex targeting the 3rd Sand will outperform.
2. Cimarex delineated 3rd Sand two miles west of Coriander (Red Tank 3 Fed 14H).
3. Not landing in the proven oil-rich 3rd Sand will strand a portion of these barrels

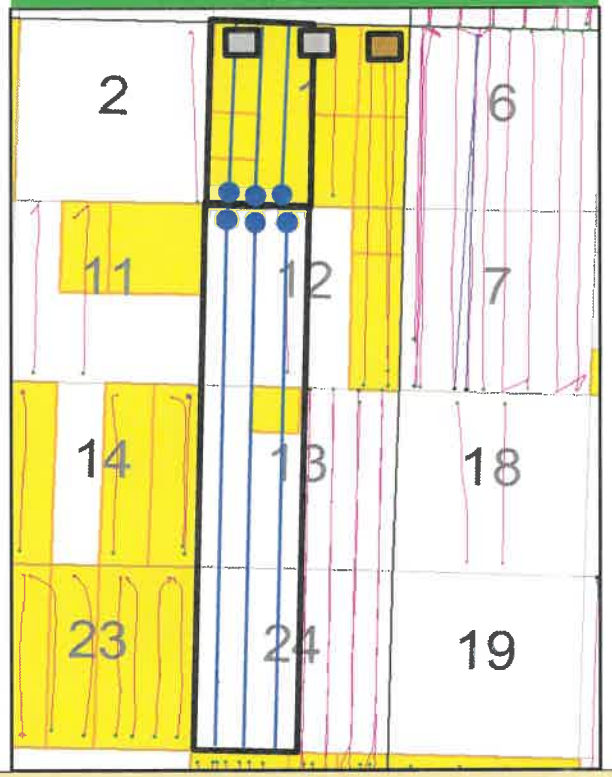
tabbies
EXHIBIT
P. 10

Outcome Comparison: Cimarex's Proposal Maximizes Reserves in the Near Term, Protects Correlative Rights, and Prevents Waste

Cimarex Proposal: Each Operator Develops Two Sections

- ✓ 2 mile development in two 640 units—less risk.
- ✓ All parties enjoy timely development.
- ✓ Economics support Wolfcamp development over the next two years for both companies.
- ✓ First and Third Bone Spring targeted in two of four sections—increases production and prevents waste.

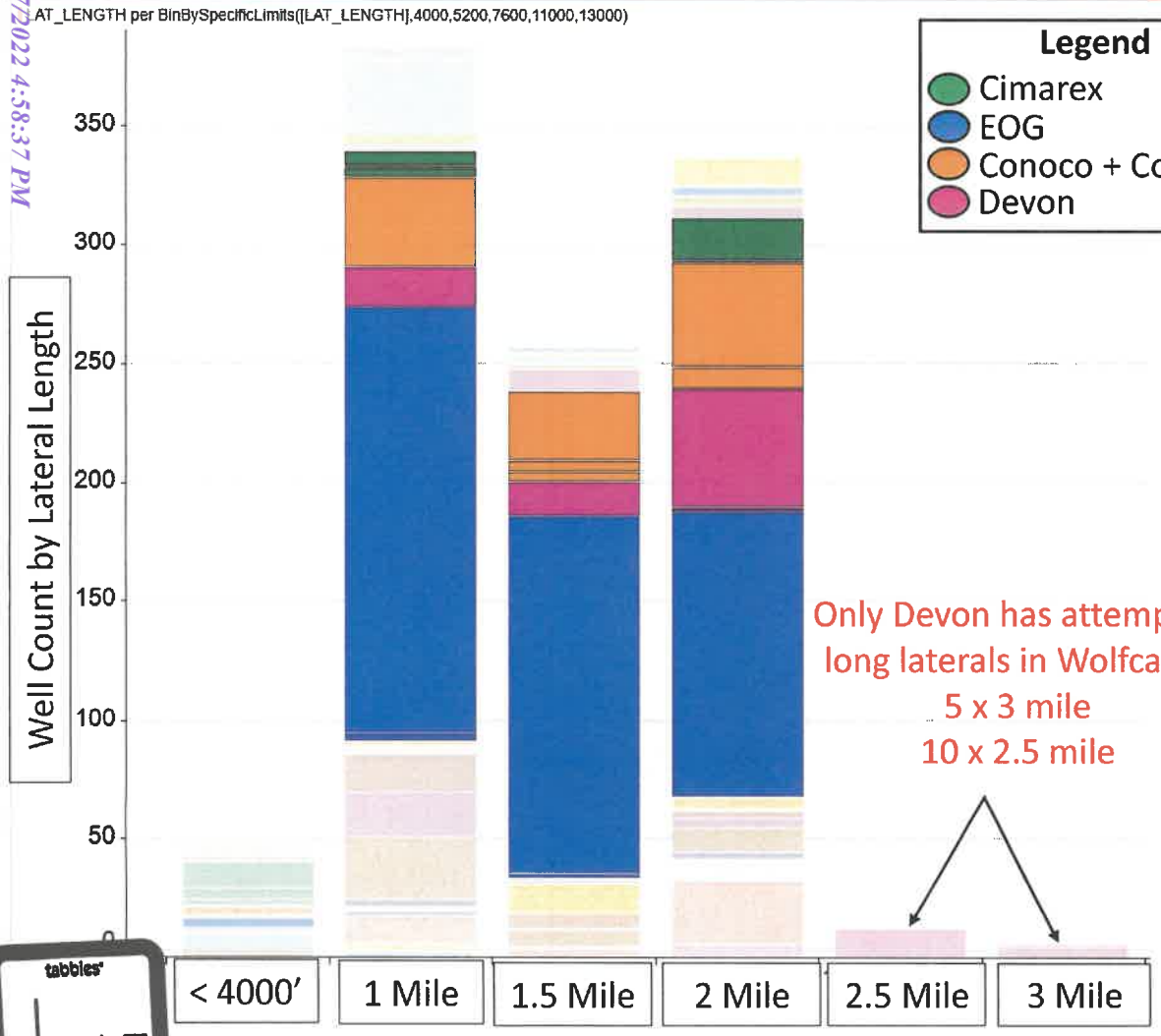
Devon Proposal: Devon Develops Three and Leaves Cimarex With One

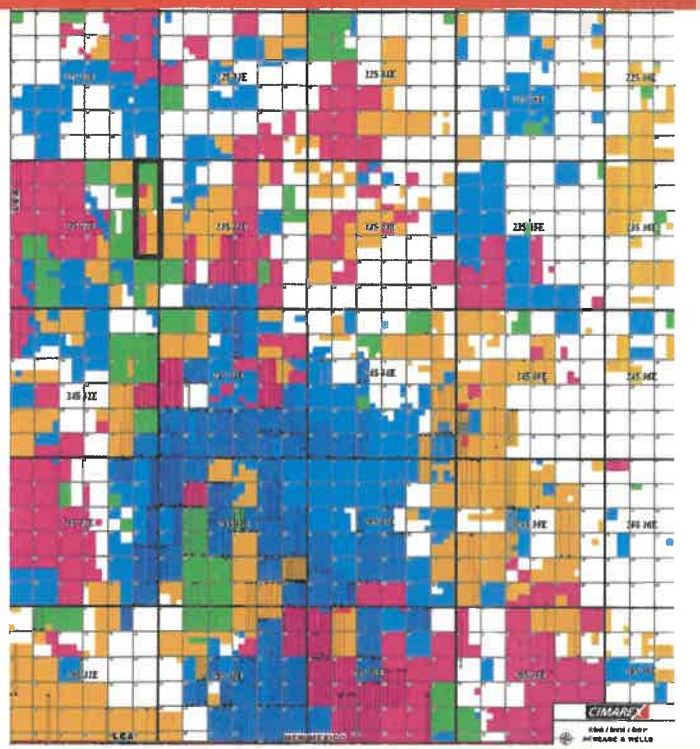


- ✗ 3 mile development of 960 acres & 1 mile development of 320 acres—more risk
- ✗ 1 mile economics won't compete with Cimarex 2 mile inventory; delays spud t 2029 which could strand barrels
- ✗ Risk of 3-mile Wolfcamp in this area low performance stranding reserves.
- ✗ First and Third Bone Spring not targeted over three sections—stranding reserves

EXHIBIT D-11

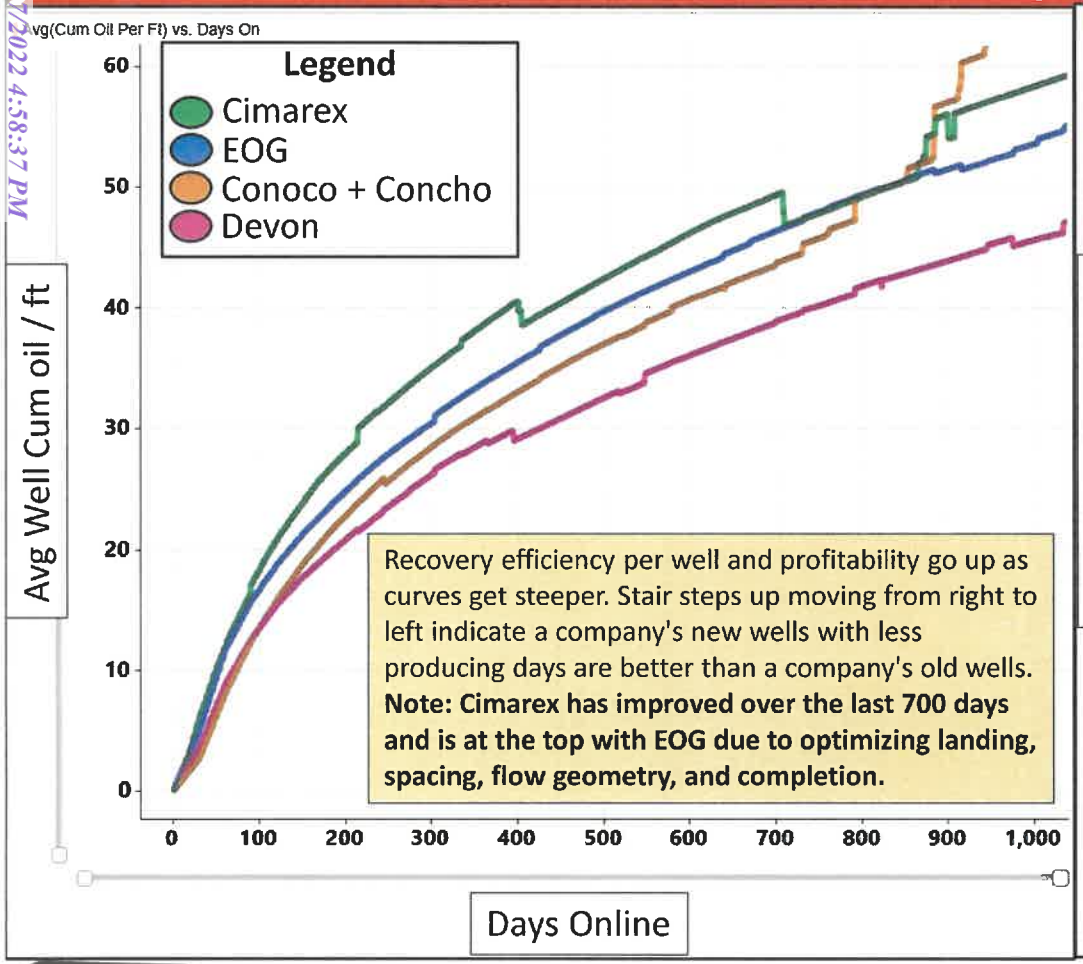
South Lea County Wolfcamp Well Count by Lateral Length - 720 sq. mile AOR

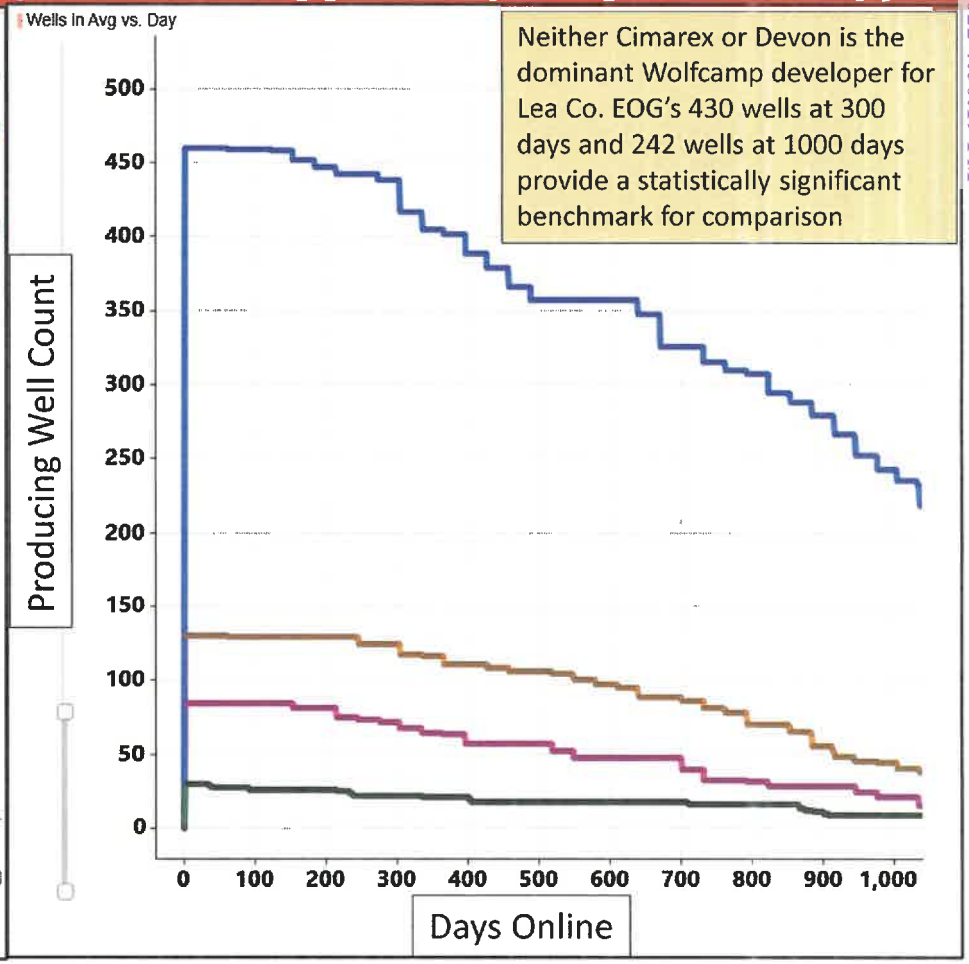




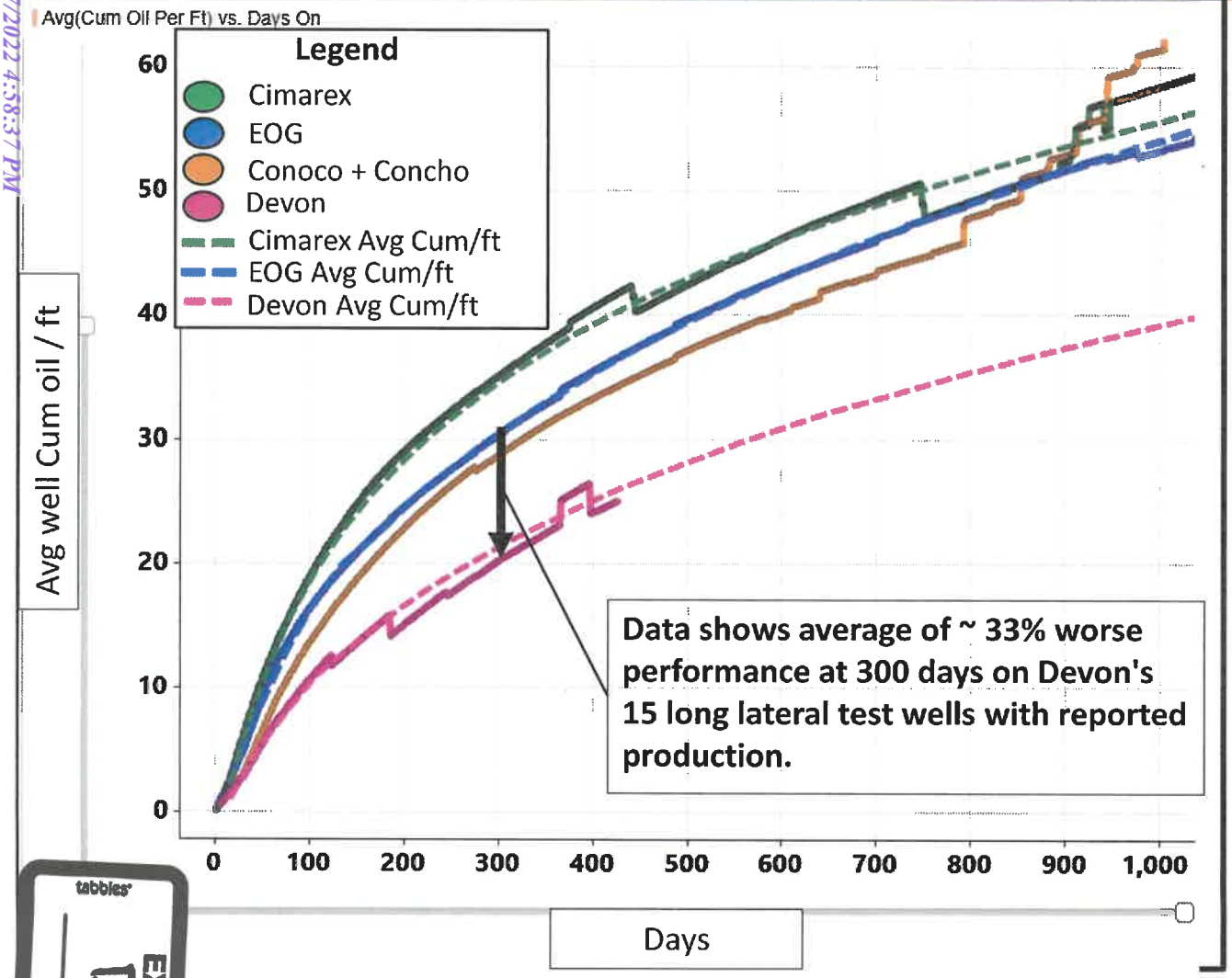
- EOG has the largest contiguous block with access to the most Lea County Wolfcamp-operated data and has executed 0 Wolfcamp laterals longer than 2 miles.
- This is because at >12,000 ft TVD, 12,000 psi surface treating pressure, >9000 psi reservoir pressure, and high formation heterogeneity **all operators see the same execution risks outweighing the benefits.**

Operator Comparison 1 to 2 mile wells only (Limited to upper Wolfcamp Lea County)





Devon's Extended Wolfcamp Wells in this Area Underperform vs. Proven 1 to 2 Mile Wolfcamp Wells

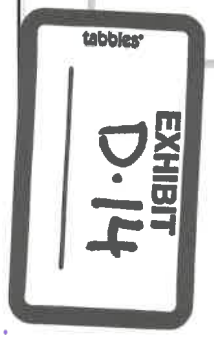


The plot compares Devon's average of 15 Lea County producing 2.5 and 3-mile Wolfcamp extended lateral wells >12,000 ft vs. proven 1 to 2 mile Wolfcamp development. **Note: Well EUR and profitability increase on graph with steeper lines moving up and to the left on this plot.**

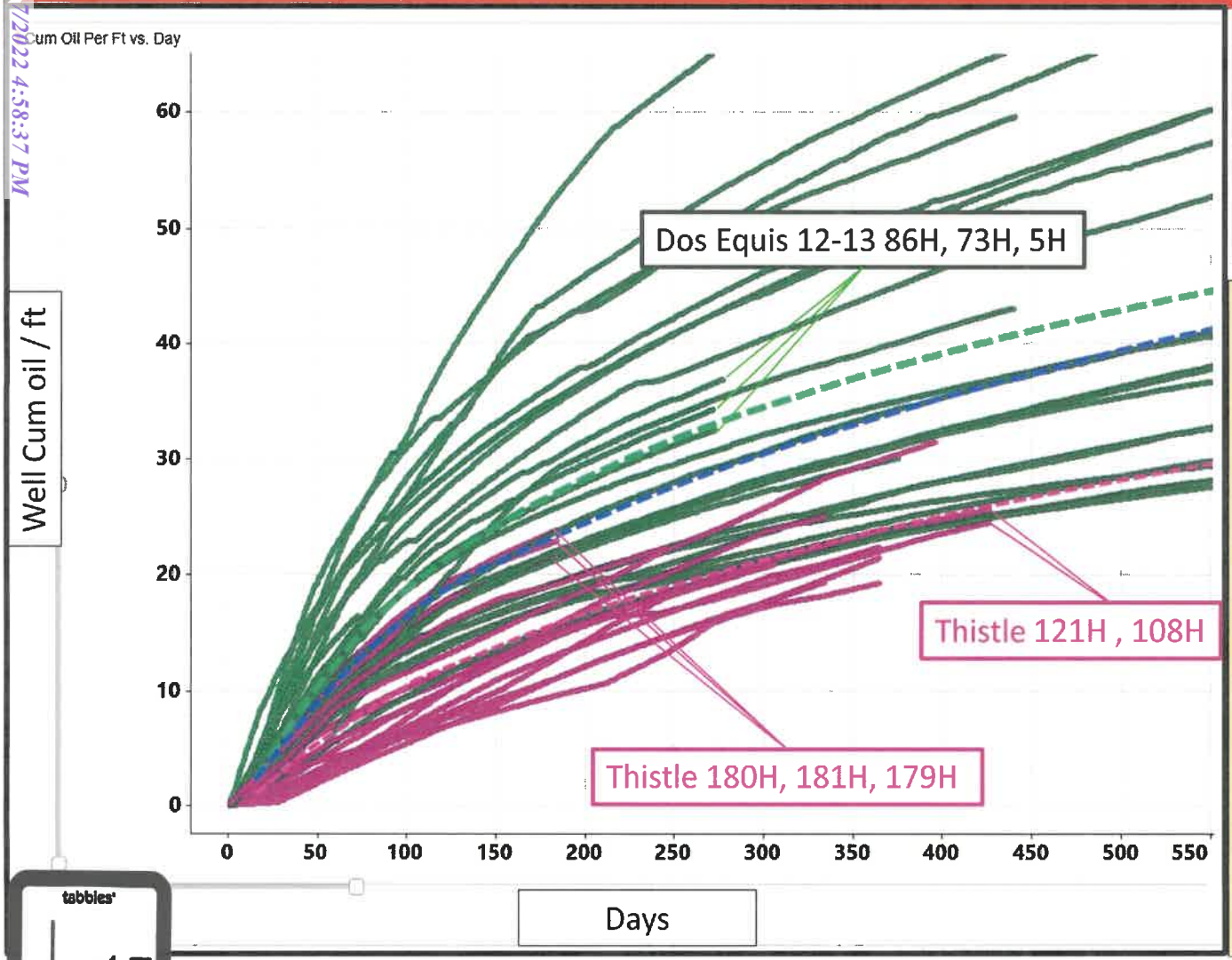
- **Cimarex on average is best/ft**
- **On a cum/ft basis Devon's Wolfcamp wells longer than 2 miles are ~33% worse on average/ft than EOG benchmark shown in blue. Devon's Wolfcamp wells take a year to equal what Cimarex Wolfcamp wells make per foot in the first 4 months.**

Remaining unknowns:

- **Short long lateral production history in Lea County means long term deliverability of 2.5-miles and 3-mile Wolfcamp wells in this area is unproven.**



Wolfcamp performance –Cimarex 1- to 2-Mile Wells Beat Devon's



Legend

- Cimarex
- Devon
- Cimarex Avg Cum/ft
- EOG Avg Cum/ft
- Devon Avg Cum/ft

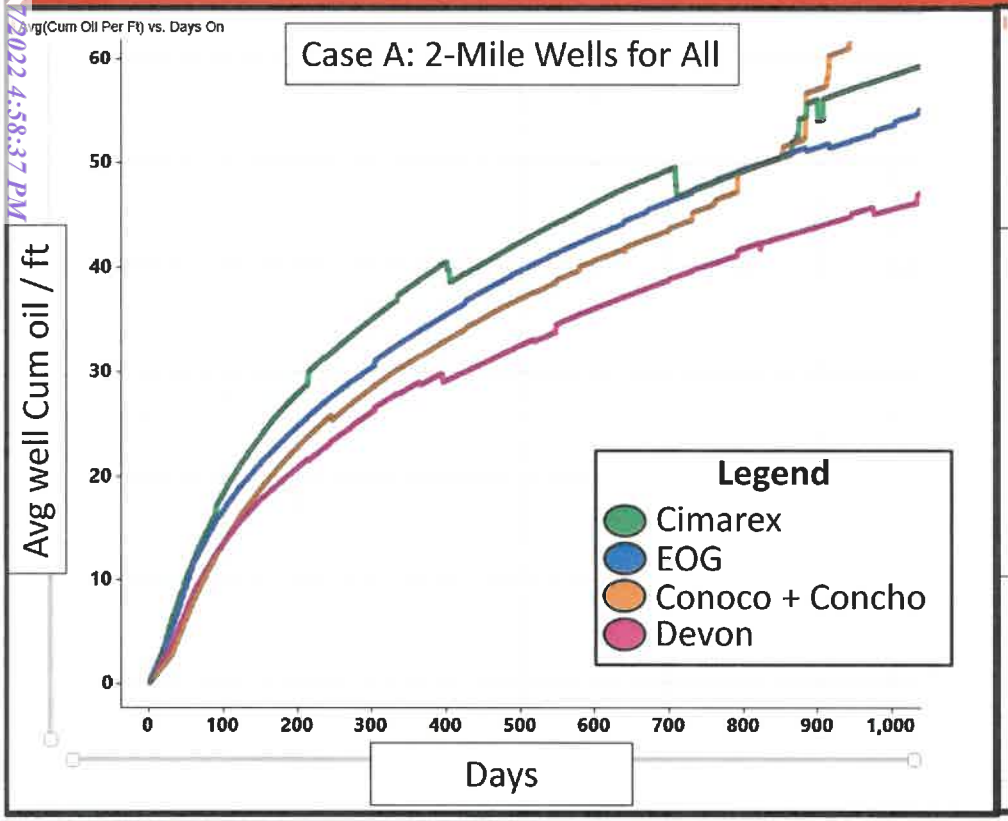
Devon hasn't achieved a single well result better than average.

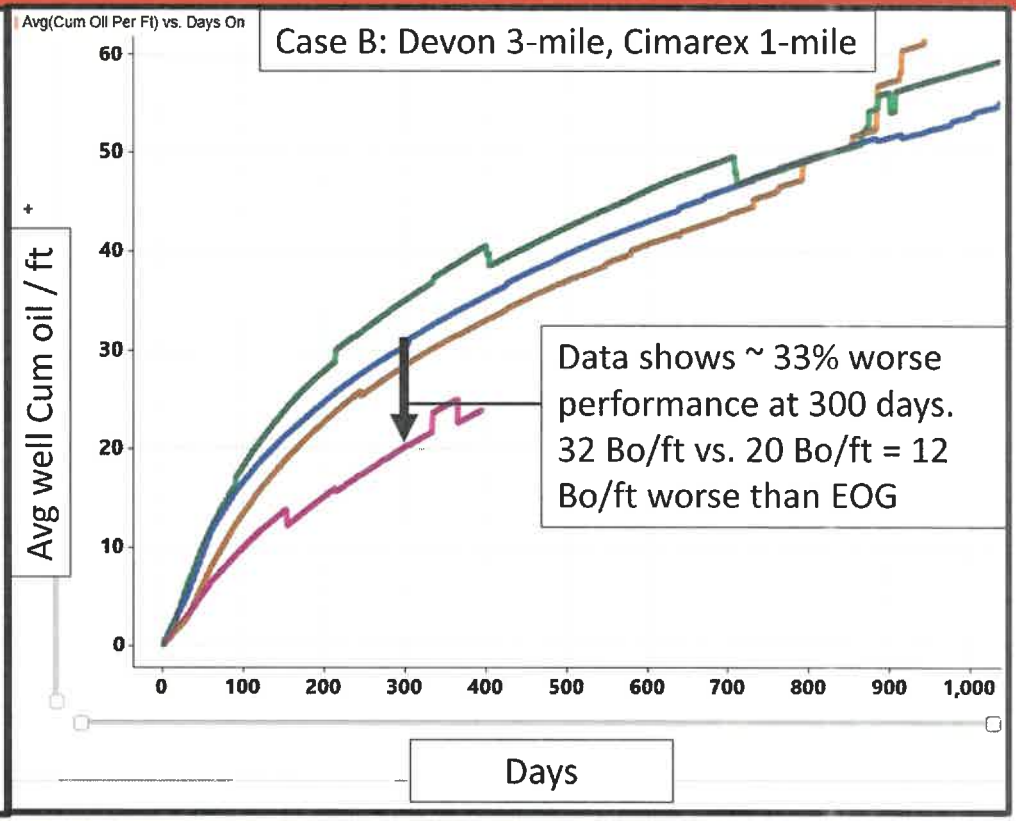
- The Thistle 121H and 108H 3-mile wells left ~ 50% of bbls behind at 240 days and are **12-to-16 BO/ft below EOG and Cimarex performance at 400 days**
- The most recent 3 Thistle wells (179-181H) are ~5 BO/ft (~20%) below Cimarex average cum/ft at 150 days and are close to EOG's average cum/ft. Last month of data shows a slope shift down on 2 of the 3 wells.
- Recent Cimarex Dos Equis Wolfcamp 2-mile development at tighter spacing than Thistle 3-miles beats all Devon Wells

tabbies

EXHIBIT D-157

Wolfcamp Impact on Standup 1280 Acres





Methodology: EOG's profile used for comparison for a statistically significant Wolfcamp type curve.
Case A: 9500' was used for 2 x 2 mile wells = 19,000' total completion across the 1280 / well slot. EOG's profile assumed for both Cimarex and Devon
Case B: 15000' was used for 3 mile wells. Cimarex 1 mile well ranks lower for Capital than Cimarex 2 mile inventory and is deferred to 2029 spud.

EXHIBIT
D.15.B

Cimarex Proposal Would Maximize Barrels Developed within the Next 5 Years

Case A: 2 x 2 mile units

Case B: 3 mile + 1 mile units

Table T.1 compares Case A (Standup 1280 acre development with 2 mile wells) vs. Case B (3 mile development of 960)

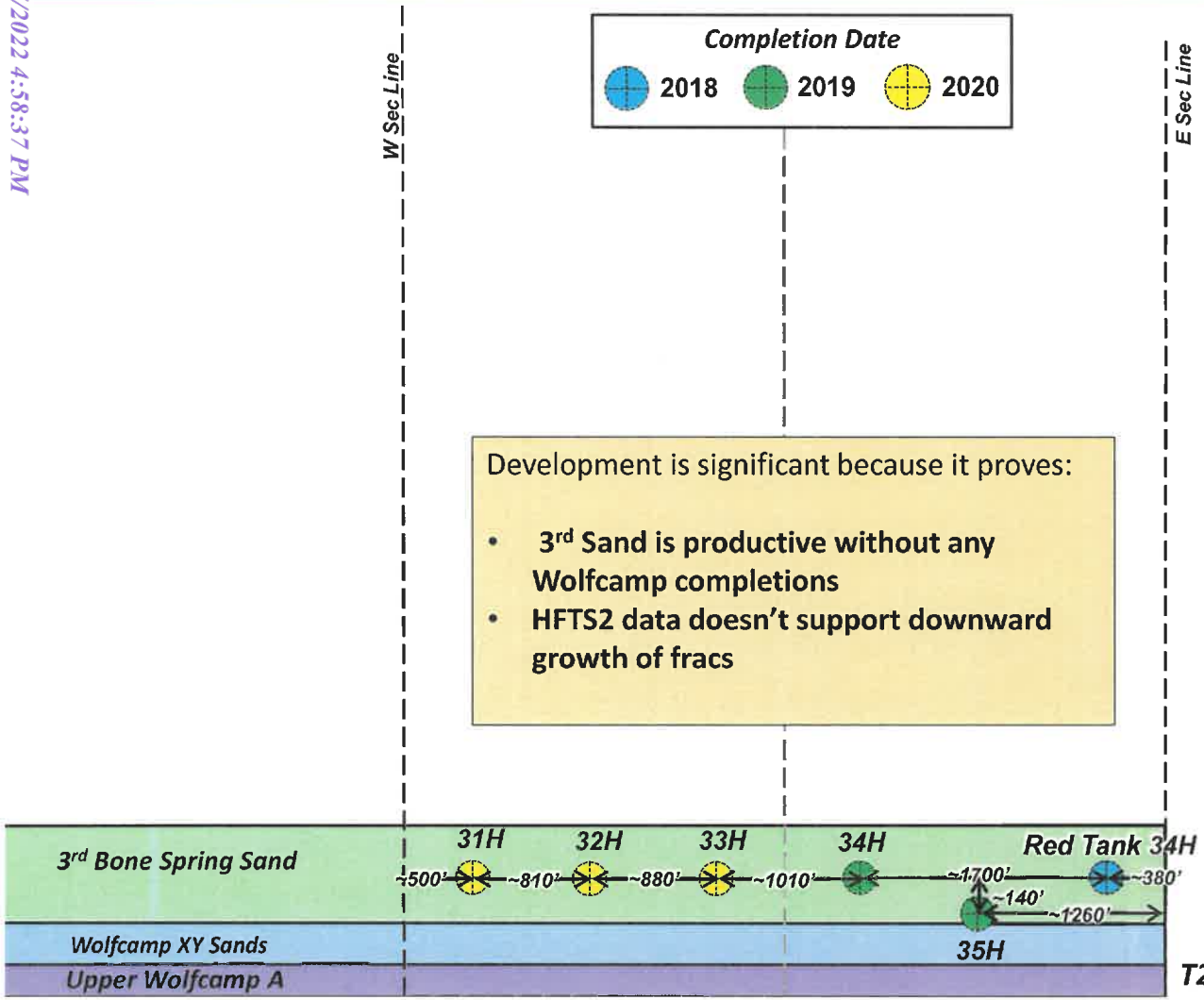
	$ / well					Delta $ Full Wolfcamp	
days	Case A: cum oil with 2 mile development of Standup 1280	Case B: cum oil Devon 3 mile development of 960	bbl Delta (A-B)	Delta Revenue at $60/bbl flat	Delta Royalty @ $60/bbl flat	Delta Revenue at @ $60/bbl flat	Delta Royalty @ $60/bbl flat
300	608,000	300,000	308,000	$18,480,000	**$3,080,000**	**$73,920,000**	**$12,320,000**
1000	1,007,000	570,000	437,000	$26,220,000	$4,370,000	**$104,880,000**	**$17,480,000**

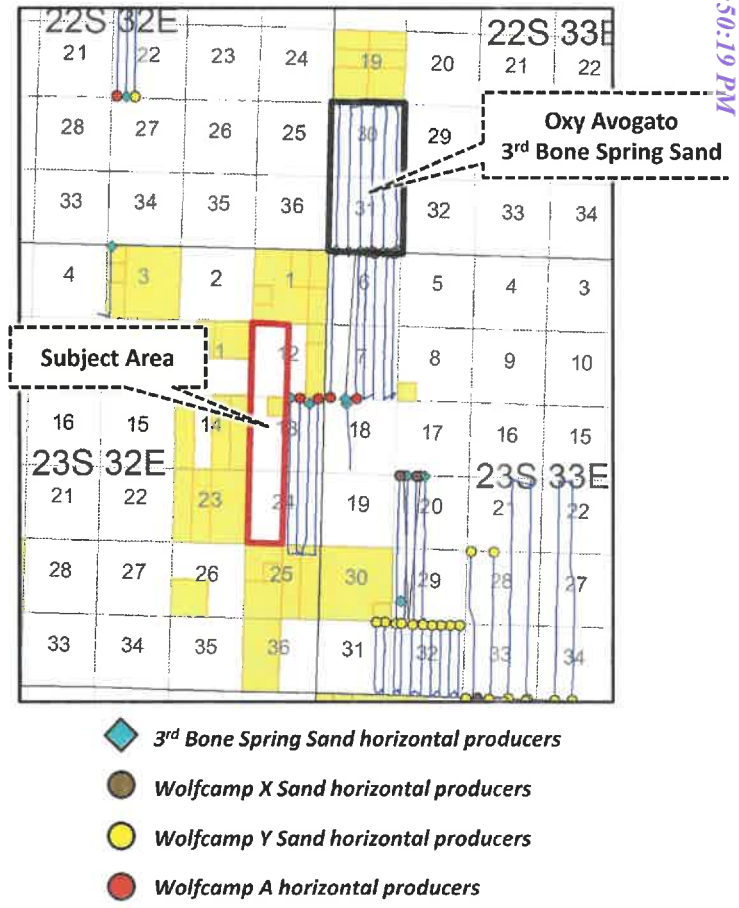
Case A Cimarex proposal would maximize barrels developed within the next 5 years for all stake holders.
1 mile Wolfcamp is deferred to 2029 from 2023 vs. our 2 mile inventory

EXHIBIT
D-16

Appendix

Oxy's Avogato 3rd Bone Spring Sand Development Proves 3rd Sand is Productive in AOR

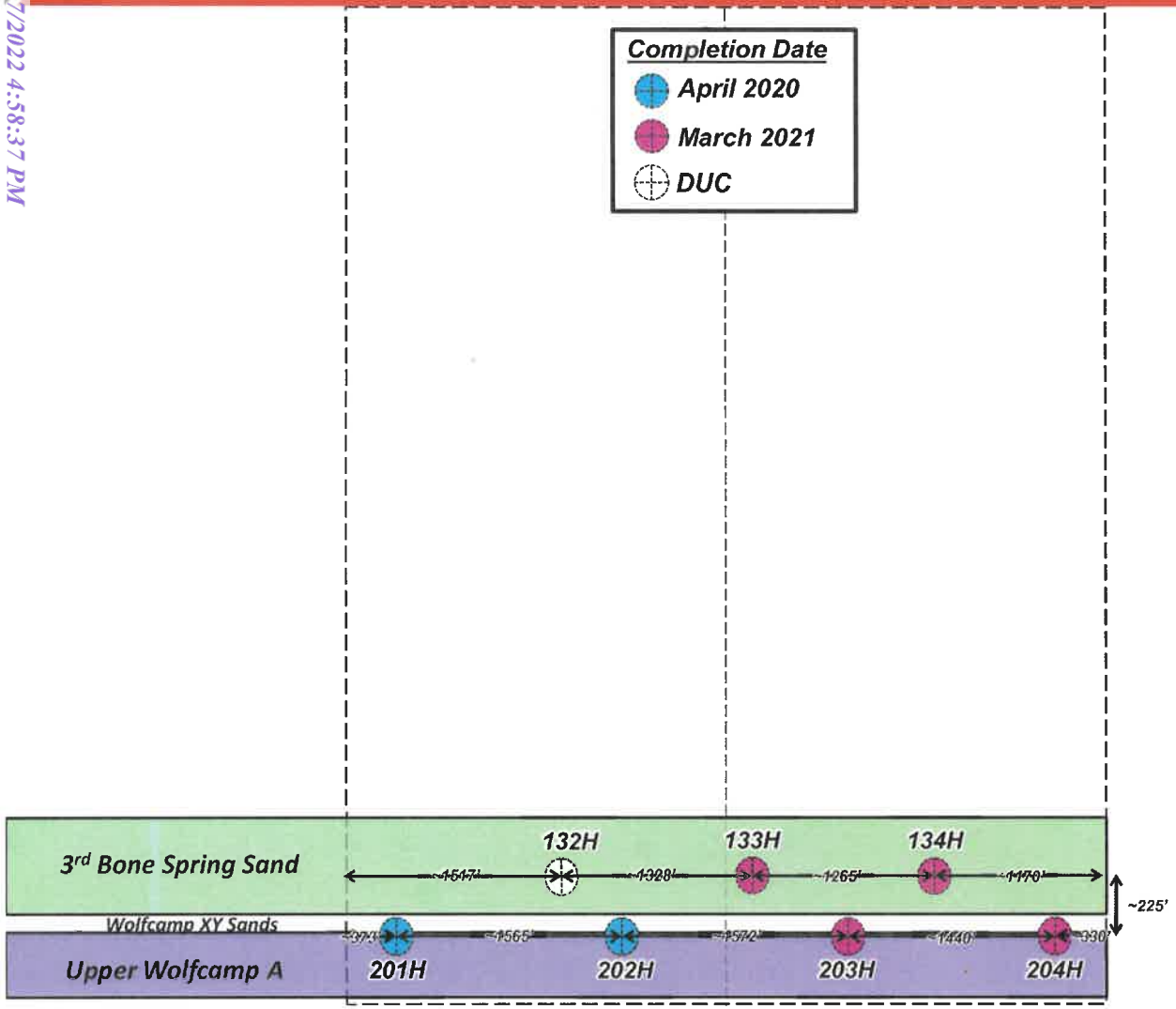


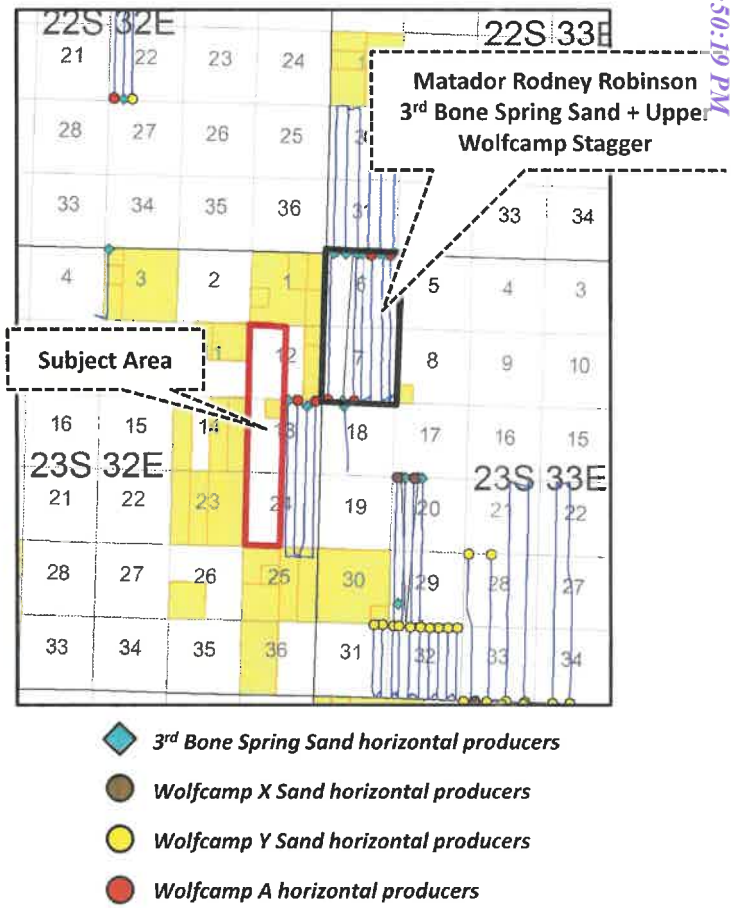


T22S R33E Sec 30-31

Matador Rodney Robinson 3rd Bone Spring Sand and Upper Wolfcamp A Development

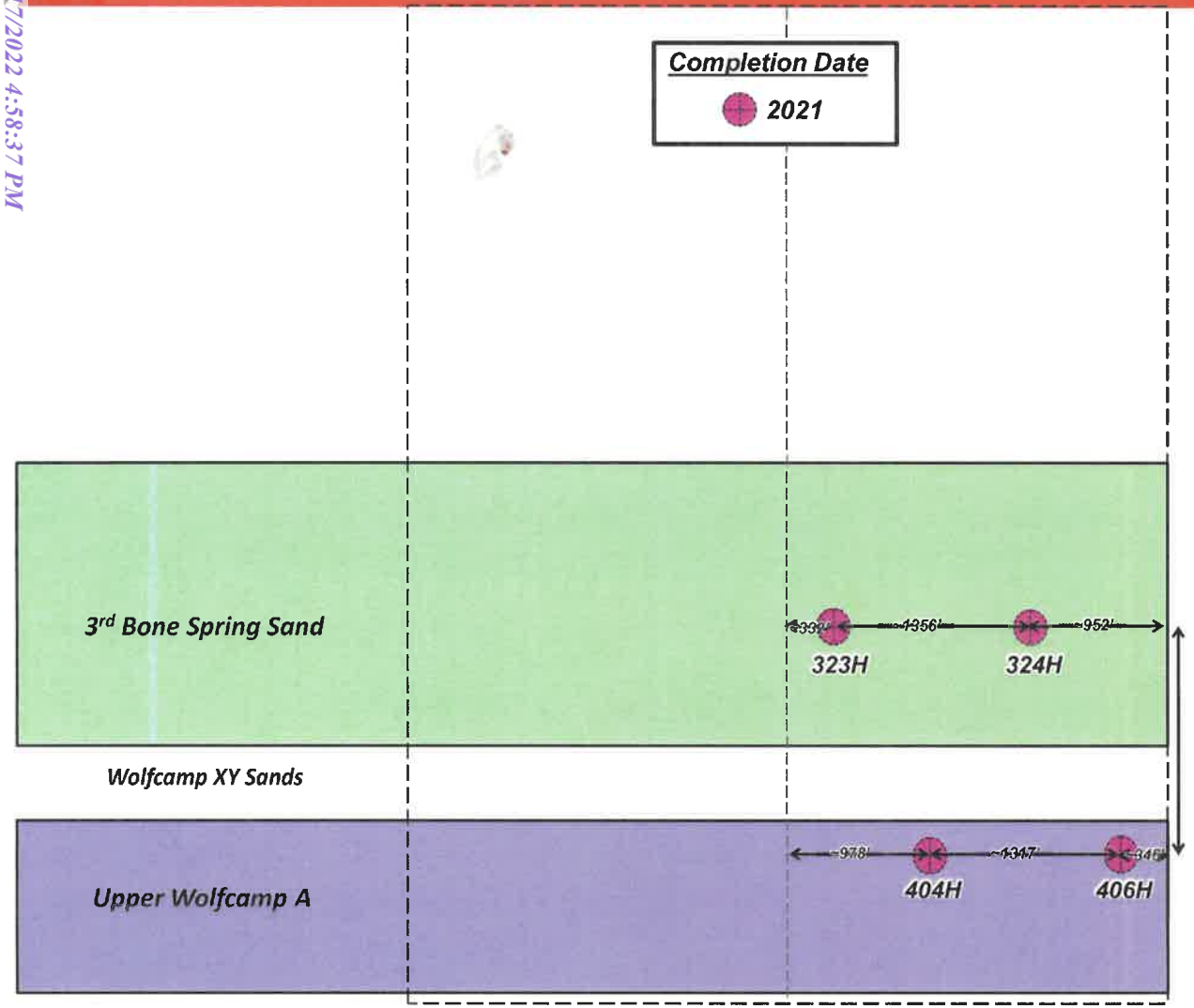
T23S R33E Sec 6-7

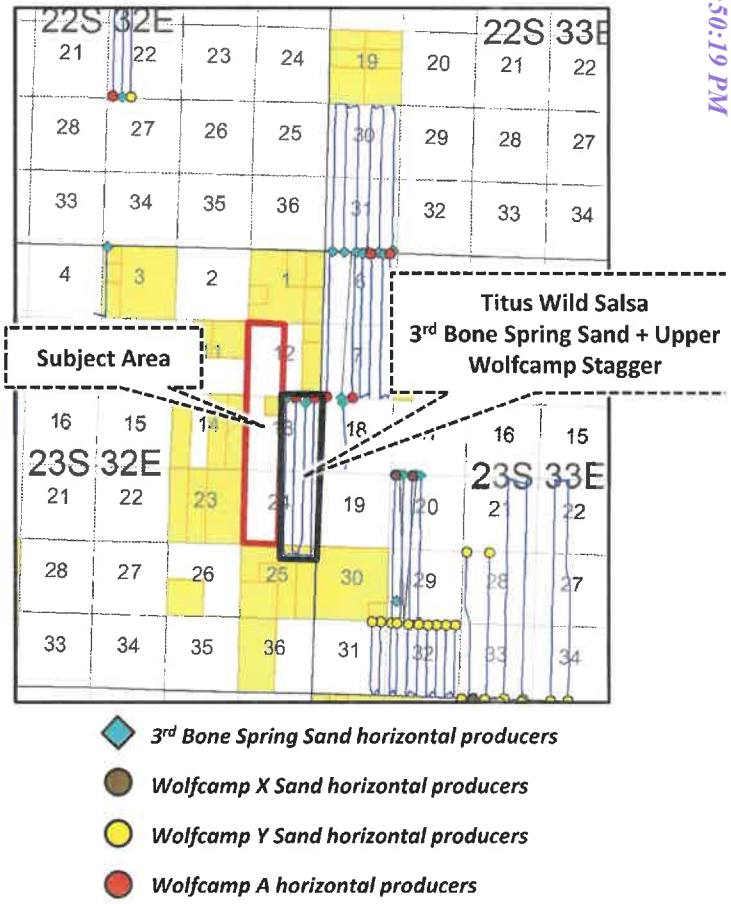




T23S R33E Sec 6-7

Titus's Wild Salsa 3rd Bone Spring Sand & Upper Wolfcamp A Development

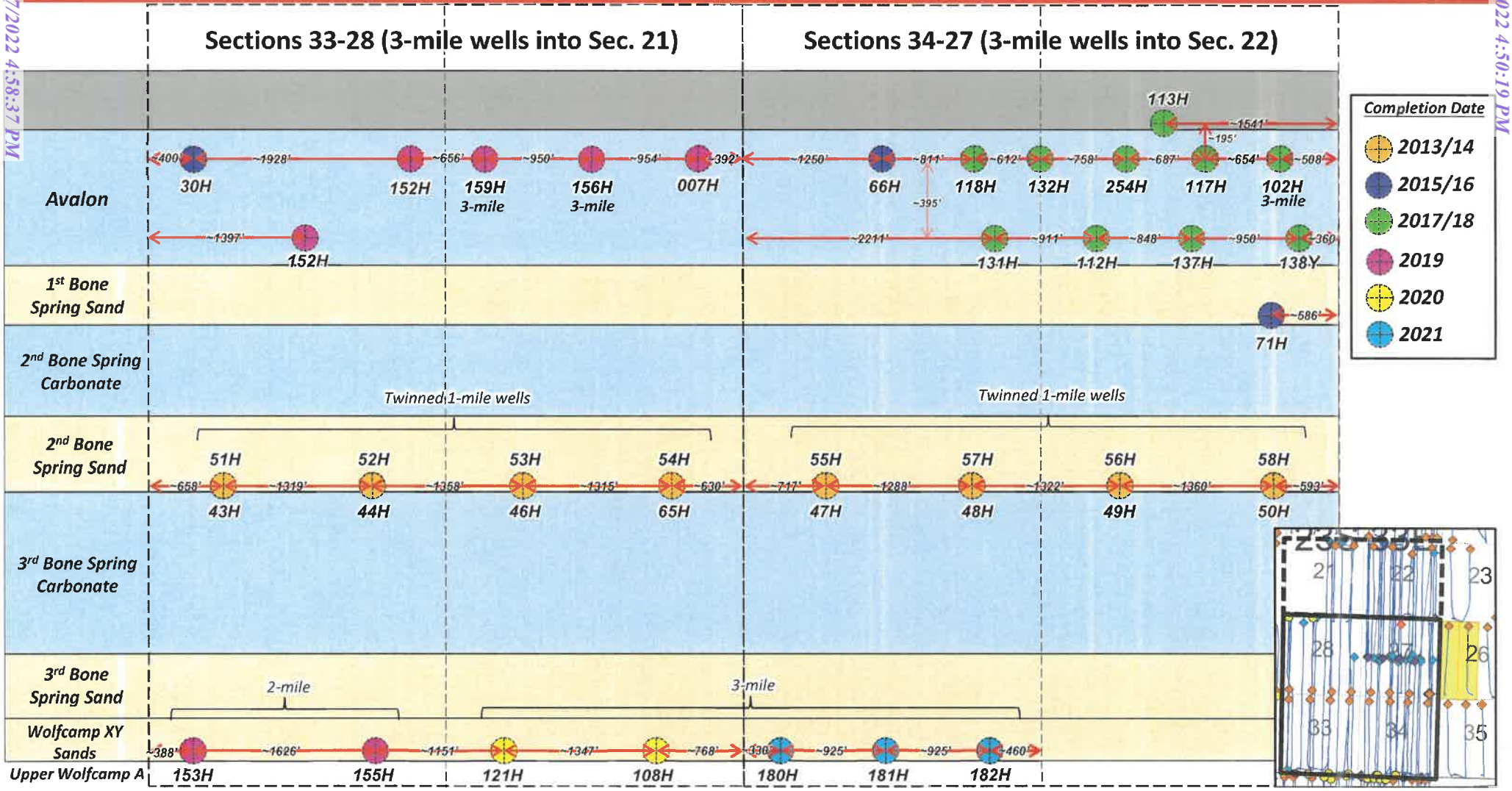




T23S R32E Sec 13-24

Devon's Thistle Unit

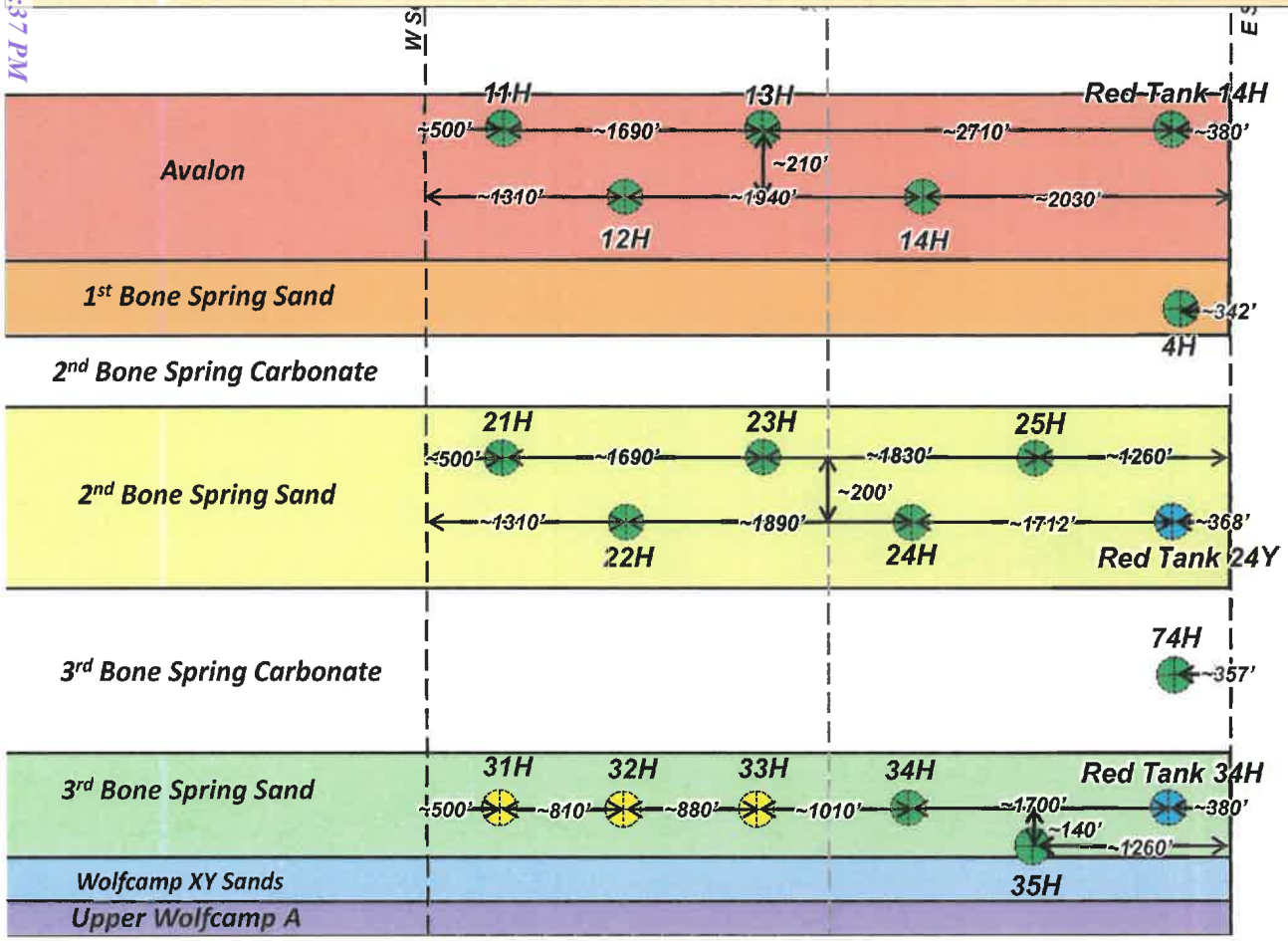
T23S R33E

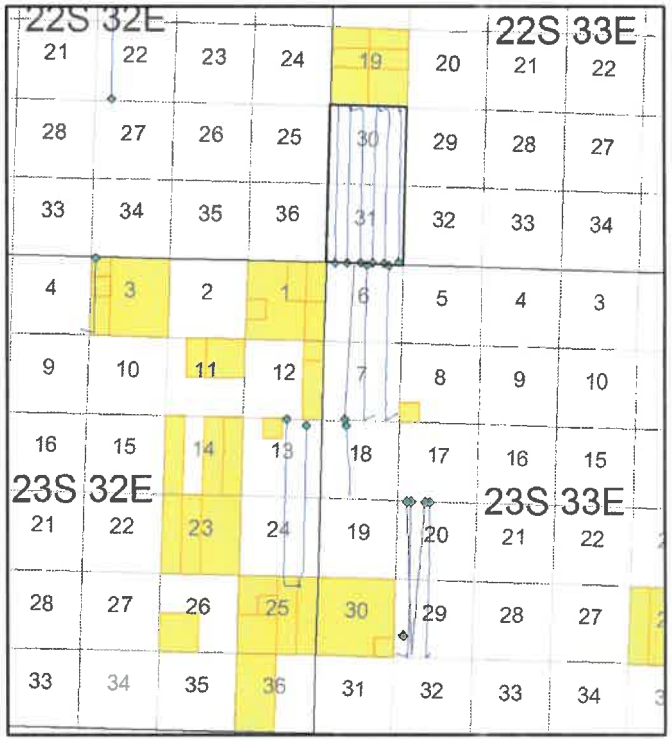


Oxy's Avogato

T22S R33E
Sec 30-31

Development is significant because it proves:
- **3rd Sand is productive w/o any Wolfcamp completions (HFTS2 data doesn't support downward growth of fracs)**
- 1st Sand is productive in the context of Avalon and 2nd Sand full development, Devon not drilling = stranded bbls.

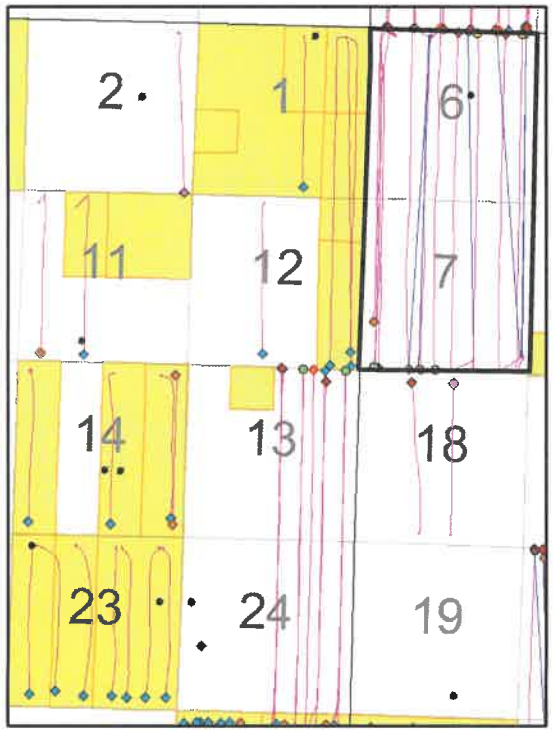


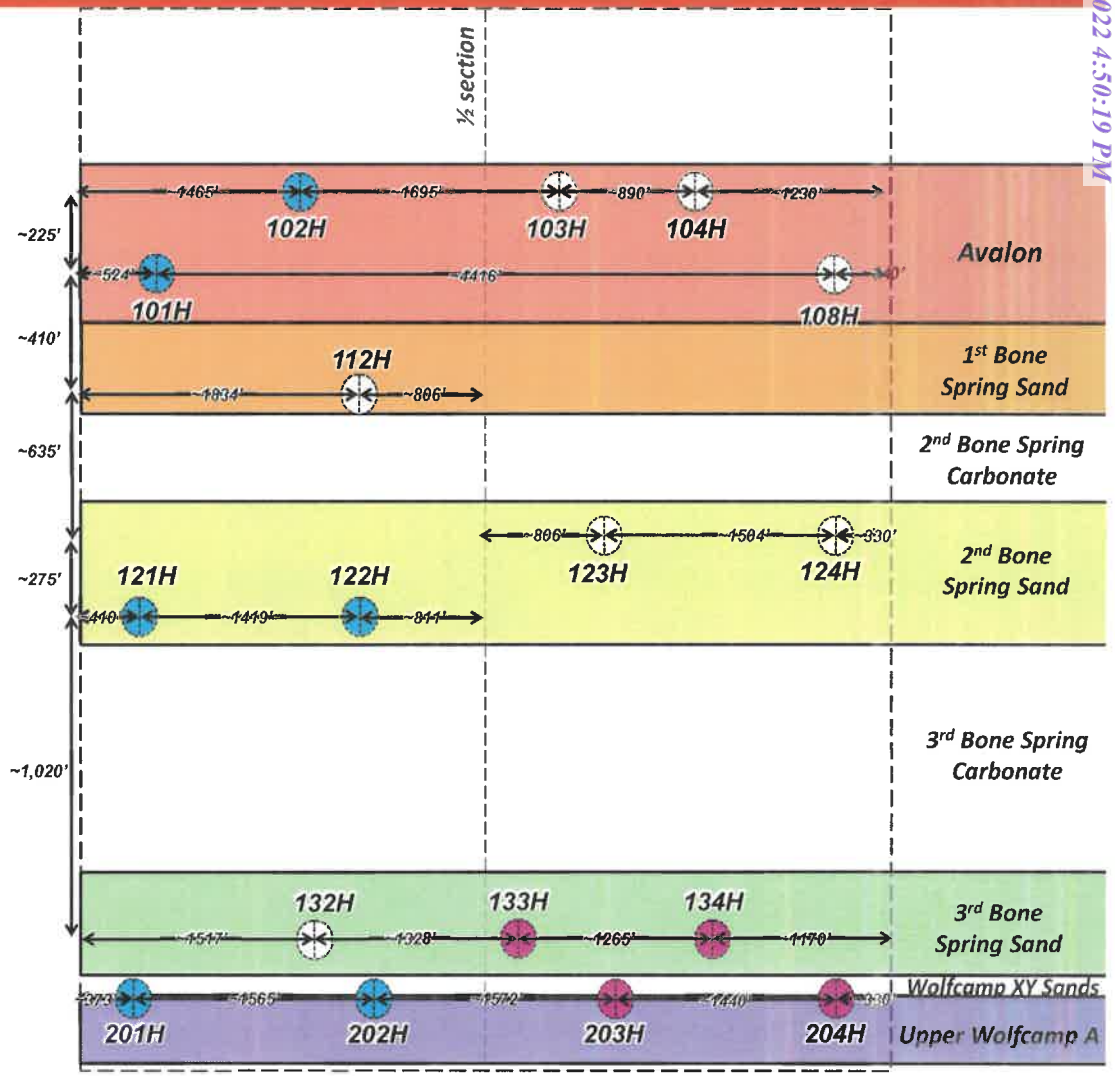


3rd Bone Spring Sand horizontal producers

Matador Rodney Robinson 6-7

Completion Date
- April 2020
- March 2021
- DUC





KELSI HENRIQUES

6000 Choctaw Ct • Midland, TX 79705 • 405-301-0977 • kelsihenriques@gmail.com

Experience

Cimarex Energy Co.

Landman ***November 2020 - Present***

- Worked Delaware Basin Assets in Southern Lea County.
- Analyzed trades and worked to negotiate and close acreage trades between companies.
- Reviewing well proposals and working to come to an agreement with other operators on proposed operations.
- Preparing wells to drill by reviewing title, negotiating term assignments, prepping operating agreements and calculating working interests for he proposed projects.

Concho Resources

Landman II ***October 2018 – October 2020***

- Managed roughly 40,000 Gross Acres in the Southern Midland Basin.
- Maintained obligations from leases with continuous development clauses as well as insured that all leases are maintained by current production.
- Assisted the asset team to plan to drill new wells and in two year have contributed to the drilling of roughly 150 new wells and have prepared projects for another 50 for the coming years.
- Negotiated numerous contracts including but not limited to operating agreements, production sharing agreements, leases, well data collection agreements, and data trade agreements.
- Assisted in acquiring various Mineral/Working Interest in "bolt" on areas to expand core asset development.
- Managed a team of brokers and title attorneys.
- Calculated Working Interests, Net Revenue Interests, Overriding Royalty Interests, Non Participating Royalty Interests, etc. to be in line with title opinions and various contractual agreements and longer lateral wells.
- Worked closely with the surface landman to facilitate drilling operations.
- Negotiated leases with mineral owners for favorable terms for both parties.
- Drilled multiple types of wells from allocation, lease, unit, and PSA and curated documents to be in line with each type of well.

Landman I ***June 2017 – October 2018***

- Participated in rotation program in Division Orders and Lease Departments.
- Analyzed oil and gas documents such as leases, operating agreements, production sharing agreements and inputted said documents into internal databases.
- Set up Division Orders, Joint Interest Billing and Revenue Decks while chaining out title.
- Worked on Asset Team starting January 1, 2018.
- Title Research, Reviewed title opinions, Cured requirements for both drilling and division order requirements.
- Conducted prospect reviews to confirm acreage, agreements in place, and interests for both surface and mineral.

Land Intern **Summer 2014, 2015, 2016**

- Worked in Lease Records in 2014 and Division Orders in 2015.
- Summer of 2016 – worked Eddy County, New Mexico.

Triple Crown Energy, LLC

Land Intern ***September 2014 – May 2015***

- Searched to find contact information of mineral owners.
- Negotiated with mineral owners to buy mineral rights.
- Created Offer Letters, Termination Notices and other legal documents used in buying minerals.
- Managed small projects regarding leases, joint operating agreements, assignments, etc.

Education & Certifications

American Association of Professional Landmen

- Registered Professional Landman – Achieved in December 2019

Texas Tech University, August 2019 - Present

- Current Student in the MBA Program.
- GPA: 4.0

The University of Tulsa, August 2013 to May 2017

- Major: Energy Management, double concentration of Upstream and Midstream
- Minor: Finance
- GPA: 3.56, Cum Laude

EXHIBIT tabbies E-1

Key Skills

- Staff Development & Training
- Ability to catch on to new material quickly and create informed decisions
- Adaptable to ever changing environments.
- Proficient in land related programs: P2, Quorum, Enertia, Drilling Info, ArcMap
- High level analytical skills and ability to problem solve
- Excellent team player with strong numerical and communication skills
- Superb leadership, interpersonal and planning abilities
- Detail oriented with a strong ability to lead, mentor and train staff.

Jennifer A. Blake

jennyblake413@gmail.com

(281) 639-4419 • 3217 Elma Dr. • Midland, TX 79707

SUMMARY

Self-motivated petroleum geologist currently working for Cimarex Energy in the Permian Basin. Technical background includes deep-water depositional processes and geologic reservoir characterization of unconventional reservoirs. Enjoys working on a highly-collaborative team of geoscientists and engineers to efficiently plan and develop high rate-of-return projects.

WORK EXPERIENCE

Coterra Energy Inc. *(formerly Cimarex Energy Co.)* **(Geologist)** *Midland, TX* **June 2020 – Present**

- Collaborate within a team of geoscientists and engineers to plan executable, multi-section horizontal drilling development plans; determine optimal landing zones and well spacing
- Coordinate with regulatory, engineers, land, and surveyors to plan pad locations and obtain drilling permits
- Generate pre-drill geological prognoses; identify drilling hazards and important casing points
- Lead pre-spud meetings with geoscientists, geosteerers, and engineers to verify drilling plans and discuss stratigraphic complexities and potential drilling hazards (e.g. faults, chert)
- Review daily drilling operations; communicate regularly with mudloggers and geosteerers to ensure drilling plans are correctly executed
- Create regional maps and cross-sections to reconstruct depositional history and to better understand geologic controls on production; de-risk and optimize target zones
- Build inventory by identifying additional landing zones through geological and petrophysical evaluation; analyze relevant offset production data, if available
- Aided in the creation of a salinity model across the Delaware Basin to improve petrophysical model (i.e. refine water saturation calculations)
- Continue to incorporate new maturity data into thermal maturity model that was created during prior internships

Coterra Energy Inc. *(formerly Cimarex Energy Co.)* **(Summer Intern)** *Midland, TX*; **(Part-time)** *Denver, CO* **May 2019 – May 2020**

- Created a 3D thermal maturity model for the Delaware Basin using Petra and Kingdom
- Utilized a new, innovative approach to create maturity with depth curves; tested the model against production data (IP180 GOR) to determine its accuracy
- Expanded thermal maturity model from the Delaware Basin to the entire Permian Basin as a part-time intern in Denver, CO

Antero Resources Corporation (Summer Intern) *Denver, CO* **May 2018 – August 2018**

- New Ventures study focused on the emerging Knox play in central Ohio
- Studied the depositional history of the Cambrian/Ordovician Knox; reconstructed basin history to define stratigraphic and structural trapping mechanisms; defined limits of the play using geologic software (Petra) and petrophysical analysis

EDUCATION

Colorado School of Mines, Golden, CO **January 2018 – May 2020**
MS Geology; Advisor: Dr. Steve Sonnenberg GPA: 4.0
Thesis: *Geologic Reservoir Characterization of the Avalon Shale and 1st Bone Spring Formation in the Southern Delaware Basin*

Texas A&M University, College Station, TX **August 2013 – August 2016**
BS Geology, Minor Meteorology Overall GPA: 3.96, Geology GPA: 4.0

SKILLS & RELEVANT INDUSTRY COURSES

- Petra, Kingdom Suite, StarSteer, Microsoft Office, Adobe
- The Petroleum System in Unconventional Exploration & Production: Geology, Geochemistry and Basin Modeling – *Andy Pepper, Nautilus Training Alliance* **May 2021**
- Petrophysics of Unconventional Reservoirs – *The Discovery Group* **August 2018**
- Basic Openhole Log Interpretation – *The Discovery Group* **July 2018**

ORGANIZATIONS & ACHIEVEMENTS

- Colorado School of Mines AAPG Student Chapter Secretary **May 2018 – May 2019**
- AAPG Imperial Barrel Award Program 2018 – *2nd Place at Regionals*

EXHIBIT tabbies E·2

Eddie Behm
Cimarex Energy Co. Reservoir Engineer, Lea County NM
4502 Green Tree Blvd. Midland TX, 79707
Cell# 661-204-3805 email: eddie.behm@cimarex.com

Education:

- BS in Petroleum engineering from the University of Tulsa, 2009-2011, Magna Cum Laude
- Pursuit of Civil engineering degree from UT Austin, 2002-2006

Awards:

- Top ranked employee at Cimarex and Oxy
- Professor selected PE engineering graduate of the year class of 2011

Skills:

10 years planning and executing complex multivariate projects over long time horizons in asset management teams. New well design, spacing and completions, horizontal and vertical multi-stage fracs, competitor analysis, working over 10 to 70 year old wells, multi-zone injector conformance control, primary and waterflood surveillance, primary and waterflood expansion, debottlenecking and optimizing facilities, beam, PCP, and gas lift, economic cash flow analysis/ sensitivities, mentoring early career engineers, proven history of finding and delineating ideas to grow inventory.

Experience:

Reservoir Engineer, Cimarex Energy Co. Lea county NM
(February 2019 to present)

- Responsible for multiyear development planning, permitting, and execution of new wells in tier 1 company acreage position moving Cimarex Lea County assets from primarily the testing delineation phase to predominantly development phase with 1 to 2rigs/year of activity.
- Evaluating participation, farm outs, sales, and trades in Lea County NM.
- Tying competitor results, geology, spacing, completion, lift and landing together

Production Engineer, Cimarex Energy Co. Lea County NM
(June 2017 to February 2019)

- Responsible for, Flowback, lift, workovers, chemical, disposal, planning new wells and optimizing production with pumpers and foreman.
- Worked with facilities department to successfully move to bulk gathering from flow lines / well.
- Designed and evaluated first large 3rd party Cimarex deal for SWD to provide up to 140,000 bbls/day disposal and makeup frac water for Red Tank and Red Hills development area.
- Designed and evaluated first two 3rd party Gas LP take away HP gas buy back deals for Red Tank and Red Hills development area.

EXHIBIT
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Asset Development Staff and Senior Reservoir Engineer for Oxy Vintage
(Oct 2013 to June 2017)

- Designing / implementing Mt. Poso heavy oil waterflood in Pyramid Hill
- Planned, began, and managed full field expansion with pattern surveillance and optimization.
- Successfully targeted bypassed Vedder attic oil with 300' laterals targeting mini reservoir highs where mobile oil had re accumulated due to aquifer influx after Shell abandoned the Vedder steam flood in the 80's. Successfully executed 5 reactivations and >30 new drills in 75% RF Darcy rock to offset pattern fill up time with high oil IP wells and provide hot make up water for up hole Pyramid Hill water flood to increase 18 API oil mobility and maintain hot plate effect.

Asset Development Team Staff Prod/Ops engineer for Oxy Elk hills
(May 2011 to Nov 2013)

- Identifying, writing, and executing programs for new drills, workovers, waterflood patterns, idle well reactivations, fracing tight shaly sands, managing 45 injectors with Spotfire pattern surveillance tool, and designing implementing beginning of 120 pattern expansion.
- Increased waterflood production from 400 to 1400 BOPD peak in a year with surface and down hole work taking Buena Vista from appraisal drilling to a 5 year $300MM EOR development plan
- Partnered with simulation to optimize near term expansion for ~15% anticipated production improvement and ~30% NPV gain
- Designed, tracked, and Implemented a 130 well pumping unit upsize and reactivation project driven by historic price crashes and acquisition dates

Reservoir Engineering Intern, full and part time for Oxy Elk Hills.
(May 2010 to April 2011)

- Summer internship evaluating potential waterflood expansion where I learned to work with geologists, production, reservoir, drilling, surface ops, down hole ops, company experts, and JV partner Chevron.
- Successfully Designed, evaluated, and pitched a 2 phase 10 pattern flood expansion to Oxy and Chevron.
- Continued internship part time identifying low pressure gathering system, stimulation, return to production candidates, and effects of completion type and mud system on production.

Assistant Bar Manager of "The Hole in the Wall" in Austin Texas
(May 2007- January 2009)

- managed staff of 15, kept books, liquor and beer ordering for 3 full bars, attempted buy out, and designed and implemented strategy to save a failing business. Increased profit from -$8K/mo. to $35K/ mo. over a 6 month period with manager and staff.