### State of New Mexico

Form C-101 Revised July 18, 2013

## **Energy Minerals and Natural Resources**

Oil Conservation Division

□ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-EI  Decretor Name and Address Cimarex Energy Co. of Colorado 202 S. Cheyenne Ave., Suite 1000									OGRID Number 162683 API Number 30-015-33985			
Property Code NM DD State Com						Property Name						
	3 <i>030</i>	<u> </u>	1	1417		urface Location						
UL - Lot	Section	Township		Range	Let Ida	Feet from		/S Line	Feet From	E/W Line	County	
D	32	248		26Ē		295		North	750	West	Eddy	
		<u> </u>				ed Bottom Hole						
UL - Lot	Section	Township		Range	Let Idn	Feet from	N	/S Line	Feet From	E/W Line	County	
D	32	248		26E		994	ı	North	996'	West	Eddy	
			***************************************		9. P	ool Information			DH	16. 47	8/9	
	Purple	Sage Wo	olfcam	o Gas & Wh	Pool te City Penn G	Name Bas					Pool Code 98220/87280	
					Addition	al Well Inform	ation	1				
II. Wor	: Туре В		12	Well Type Gas		13 Cable/Rotary			11 Lease Type State		<sup>15</sup> Ground Level Elevation 3468'	
18 Mb			17 Pr	Proposed Depth 18 Format				l	1º Contractor		20 Spud Date	
			PE	3TD 10781'		Canyon/ Wolfcam	1					
Depth to Ground water Distance from nearest fresh water 300'						fresh water well			Distance to nearest surface water			
]We will be		: Size			-	ising and Ceme		rogram g Depth	Sacks of C	'enient	Estimated TOC	
Surface	17		***************************************	8" H40	48#		222'		700 sk		Surface	
ntermediate	12	1/4"	9 5/8"		40#	!	1680'		1975 s	ks	Surface	
Production	8 3	/4*		2" P-110	17#		11734'		2520 :	sks	Surface	
				Casin	g/Cement Pi	ogram: Additio	nal (	Comments	<u> </u>			
***************************************												
		····.		22.	Proposed Blo	owout Preventie	n Pı	ogram				
Туре			V	Working Pressure			Test Pressure		Manufacturer			
			······································	*******								
J. I hereby ce	tify that th	ie informat d belief	ion giv	en above is tr	ue and complete	e to the		OIL C	ONSERVAT	ION DIVIS	SION	
	ify that I	ave comp		th 19,15,14,9	(A) NMAC &	and/or Appro	ved B	aymo	nd X	Roda		
Printed name Amithy Ofawford							Title: Geologist					
Title: Regulatory Analyst							Approved Date: 9-5-17 Expiration Date: 9-5-19					
-mail Addres	s: acr	awford@d	imare	c.com	***************************************							
Date: 9/1/2017 Phone: 432-620-1909								f Approval At		······································		

<sup>\*\*</sup> All Casing Previously set\*\*

District.1
1625 N. French Dr., Hobba, NM 88240
Phone: (375) 393-6161 Fax (575) 393-0720
District.11
811 S. First St., Artesta, NM 88210
Phone: (575) 748-1283 Fax (575) 748-9720
District.111
1690 Rio Bizzos Road, Artec, NM 87410
Phone: (505) 334-6178 Fax (505) 334-6170
District.11V
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

andus (200) a unater	irac familian	2-3-1072									
			WELLLO	OCATIO	N AND ACR	EAGE DEDIC	ATION PLA	T			
1	r		<sup>1</sup> Pool Code <sup>3</sup> Pool Name				pe	· · · · · · · · · · · · · · · · · · ·			
30-			87280	l	White City (Penn) Gas						
Property				Well Number							
				NM DD State Com						3	
<sup>7</sup> OGRID	No.	S Operator Name								<sup>9</sup> Elevation	
162683	[	Cimarex Energy Co of Colorado								3398'	
	·········	***************************************			<sup>™</sup> Surface I	Location					
UL or let no.	Section	Townshi	p Range	Let ldn	Feet from the	North/South line	Feet from the	East/We	st line	County	
D	32	245	26E		295	North	750	West		Eddy	
		<u> </u>	" Bo	ttom Ho	le Location If	Different Fron	Surface				
UL or lat no.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
D	32	248	26E		994'	North	996'	East	1	Eddy	
12 Dedicated Acre	5 13 Joint o	r Infill	14 Consolidation	Code 15 O.	der No.			······································			
640											

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.

295'	" OPERATOR CERTIFICATION
750 NM DD State Com #3	Thereby certify that the information contained herein is true and complete
1 DE State Com #5	to the best of my knowledge and belief, and that this argumenton either
;	towns a working inserver or unleased mineral interest in the land inchaling
1,466	the proposed bottom hole location or has a right to drill this well at this
996'	heation pursuant to a contract with an owner of such a mineral or working
	integest, arto a volumary pooling agreement or a compulsory pooling
	order before for entered by the distribution
	MUNAUA / 9/1/2017
	Sunature Date
	Amithy Crawford
	Printed Name
	acrawford@cimarex.com
	E-mail Address
	L'HARI AGGIESS
	"SURVEYOR CERTIFICATION
	Thereby 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.
	Date of Survey
	Signature and Seal of Professional Surveyor.
	Certificate Number

Datris I 1625 N. French Dr., Hobbs, NM 88240 Phone, (575) 333-6161 Fax (575) 393-0720 Distris II 811 S. Fust St., Artesia, NM 88210 Phone (575) 748-1283 Fax (575) 748-9770 Datris III 1000 Rio Brazos Road, Aztec, NM 87410 Phone (505) 331-6173 Fax (505) 331-6170 Distric IIV 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

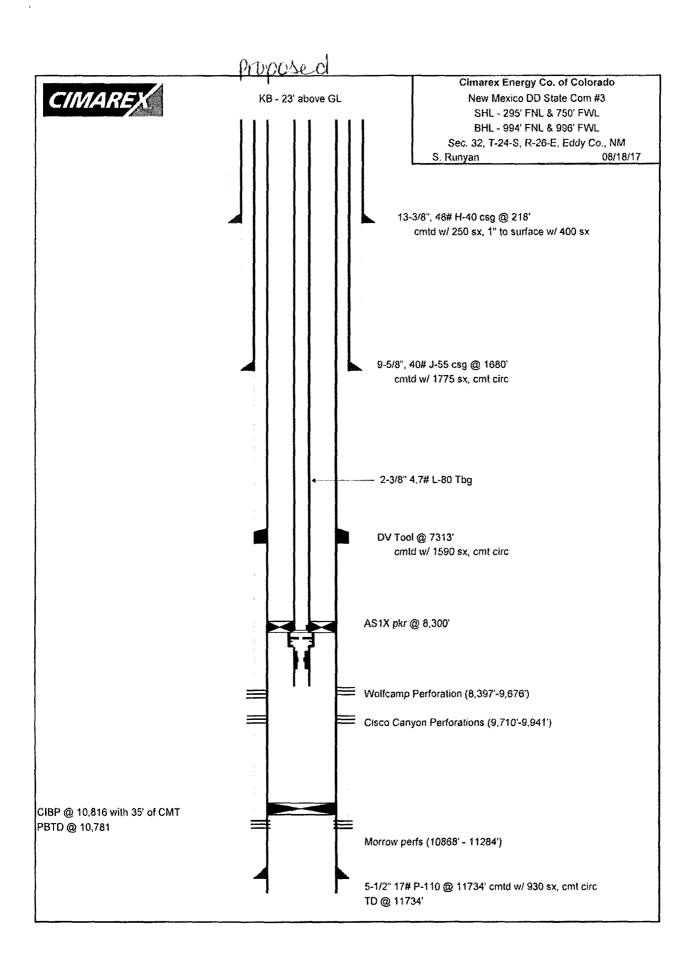
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■ AMENDED REPORT

	,		WELLIC	CATIO	N AND ACR	EAGE DEDICA	ATION PLAT	•	
30-1			<sup>2</sup> Pool Code 98220		•				
<sup>4</sup> Property Code		:		6 W	<sup>6</sup> Well Number 3				
<sup>7</sup> OGRID No. 162683				I	<sup>9</sup> Elevation 3398'				
					** Surface L	Location			
UL or let ue. D	Section 32	Township Range 24S 26E		Range Lot Idn Feet from t 26E 295		North/South line North	Feet from the 750	Enst/West line West	County Eddy
		<u> </u>	" Bo	ttom Hol	e Location If	Different From	Surface		
UL or lot no. D	Section 32	Township 24S	'   "		Feet from the 994'			Enst/West line East	County Eddy
12 Dedicated Acre	s 13 Joint e	r Infill	14 Consolidation	Code 13 Or	der 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.

Relative Company Compa	male terral energy and		
295'		***************************************	"OPERATOR CERTIFICATION
750' NM DD State Com #3			I berely certify that the information contained berein is true and complete
750 AMI DD State Com #5			to the best of my knowledge and belief, and that this organization either
<b>!</b>			owns a working inserest or insleased mineral inserest in the land including
994			the proposed bottom hole location or has a right to drill this well at this
996'			to cation pursuant to a contract with an worser of such a mineral or working
			intefest, ne to a voluntary pooling agreement or a compulsory pooling
			oner heretofere entered by the division
			X WA N 6 1 1 9/1/2017
			Alterature Date
			Amithy Crawford
			Printed Name
			acrawford@cimarex.com
			E-mail Address
			"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.
			Date of Survey
			Signature and Seal of Professional Surveyor.
			Signature and season of a teresmontal States of,
			Certificate Number
Conference of the second secon	MARKET CO.	68.6m.00042537325544444445	
			1



Current Cimarex Energy Co. of Colorado CIMARE) KB - 23' above GL New Mexico DD State Com #3 SHL - 295' FNL & 750' FWL BHL - 994' FNL & 996' FWL Sec. 32, T-24-S, R-26-E, Eddy Co., NM 01/31/2012 S. Gengler 9/22/2015 13-3/8", 48# H-40 csg @ 218' cmtd w/ 250 sx, 1" to surface w/ 400 sx 9-5/8", 40# J-55 csg @ 1680' cmtd w/ 1775 sx, cmt circ 335 jts 2-3/8" 4.7# L-80 Tbg DV Tool @ 7313' cmtd w/ 1590 sx, cmt circ On-off Tool w/ 1.875" X Profile nipple @ 10832' Versa Set pkr @ 10837' 1.875" XN Profile Nipple @ 10844' End of tbg @ 10845' Morrow perfs (10868' - 11284') PBTD @ 11626' 5-1/2" 17# P-110 @ 11734' cmtd w/ 930 sx, cmt circ TD @ 11734'



#### **CONFIDENTIAL.** August 17, 2017

Production Operations – Carlsbad Region, Permian Basin

New Mexico DD State Com #3 - Cisco Canyon and Wolfcamp

(Ciscamp) Proposed Commingling Allocation Factors. Eddy County, NM

# Appendix C: Recompletion Procedure – New Mexico DD State #3

#### Well Data

KB

23'

TD

11,734'

PBTD

11,626'

Casing

13-3/8" 48# H-40 @ 218'. Cmt'd w/ 400 sx, cmt to sfc

9-5/8" 40# J-55 @ 1,680'. Cmt'd w/ 1,775 sx, cmt circ

5-1/2" 17# P-110 @ 11,734'. Cmt'd w/ 930 sx, cmt circ@ 1,250'

**Tubing** 

2-3/8" 4.7# L-80 8rd, EOT @ 10,845'

**Proposed RC Perfs** 

Wolfcamp (8,570' – 9,506') & Cisco Canyon (9,864' – 10,100')

### **Procedure**

Notify BLM 24 hours prior to start of workover operations.

- 1. Test anchors prior to MIRU PU.
- 2. MIRU PU, rental flare, and choke manifold.
- 3. Kill well with produced water if available or FW as necessary.
- ND WH, NU 5K BOP
- 5. Release Halliburton PLS packer with ¼ RH turn and POOH w/339 jts 2-3/8" 4.7# L-80/N-80 tbg standing back.
- 6. MIRU WL.
- 7. RIH w/ GR/JB to +/- 10,816'.
- RIH w/ WL to set CIBP at +/- 10,816'.
- 9. RIH w/ WL to bail 35' of cement on top of CIBP at +/- 10,816'.
  - a. Note: This will put TOC @ +/- 10,781'.
- 10. RU Pump truck and pressure test casing to 8,500 psi on a chart for 30 minutes with no more than 10% leak off.
- 11. ND 5k BOP, RDMO PU.
- 12. RU two 10k frac valves and flow cross.
- 13. MIRU water transfer with frac tanks to contain water to be pumped from frac pond
- 14. Test frac valves and flow cross prior to frac job.
  - a. Arrange for these items, manlift, forklift, and Pace testers to be on location the day before the frac job to test so that we do not have the frac waiting on a successful test the following day.
- 15. RU frac valves, flow cross, goat head, and wireline lubricator.
- 16. RIH w/ gauge ring/junk basket for 5-1/2" 17# P-110 csg to +/- 10,200'
- 17. Perforate Cisco Canyon from 9,710' 9,941'.
- 18. RU frac and flowback equipment.

# CIMAREX

#### **CONFIDENTIAL. August 17, 2017**

Production Operations – Carlsbad Region, Permian Basin

New Mexico DD State Com #3 - Cisco Canyon and Wolfcamp

(Ciscamp) Proposed Commingling Allocation Factors. Eddy County, NM

- 19. Acidize and frac Cisco Canyon perfs down casing.
- 20. Set 10k flow through composite plug 15' uphole of top perforation
- 21. Test to 8,500 psi
- 22. Perforate Wolfcamp from 8,397' 9,676'.
- 23. Acidize and frac Wolfcamp perfs down casing.
- 24. RD frac
- 25. MIRU 2" coiled tbg unit.
- 26. RIH w/ blade mill & downhole motor on 2" CT and drill out sand and composite plugs using freshwater for circulation. Pump sweeps each time a plug is tagged, each time a plug is drilled out, and every 60 bbls pumped.
- 27. Clean out to PBTD 10,781'
- 28. POOH w/ blade mill, motor & CT
- 29. RDMO coiled tbg unit.
- 30. Flow back well for 24 hours, then SI well overnight.
- 31. RU wireline and lubricator.
- 32. RIH w/ GR/JB for 7" 26# P-110 to +/- 8,300'
- 33. RIH w/ 2-7/8" WEG, 2-7/8" pump out plug pinned for 1,500 2,000 psi differential pressure, 10' 2-3/8" 4.7# L-80 tbg sub w/ 1.875" XN profile nipple w/ blanking plug in place, 7" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple. Set packer +/- 8,300'. From downhole up:
  - a. 2-3/8" WEG
  - b. 2-3/8" pump out plug pinned for 1,500 2,000 psi differential pressure
  - c. 1.875" XN profile nipple
  - d. 10' 2-3/8" 4.7# L-80 tbg sub
  - e. 5-1/2" x 2-3/8" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple
- 34. RD WL and lubricator
- 35. ND goat head and frac valve, NU BOP, MIRU Pulling Unit
- 36. TIH w/ on/off tool overshot, GLVs, and 2-3/8" 4.7# L-80 tbg.
- 37. Latch overshot onto on-off tool and space out tubing
- 38. ND BOP, NU WH
- 39. RDMO pulling unit
- 40. RU pump truck and pump out plug. Put well on production.
- 41. Run Production Log for allocation purposes after recovering load. Run additional production logs if actual production varies significantly from expected performance.