District 7 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 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

State of New Mexico

Form C-101 Revised July 18, 2013

NM OIL CONSERVATION rals and Natural Resources

ARTESIA DISTRICT

NOV 07 2017

1220 South St. Francis Dr.

Santa Fe, NM 87505 BECFIVED

☐AMENDED REPORT

			1. Operator Name	and Address		R, DEEPEN,		GRID Nui 162683	mber	
			Cimarex Energy Co 202 S. Cheyer Tulsa, OK	o. of Colorado nne Ave			 -			
			Tulsa, OK	74103				30015-322	286	
4 Proper	ty Code 000				Property Name Echols Com	Name Com			Well No.	
				7,	Surface Location	on				
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County	
М	12	23S	26E		1110	South	990	West	Eddy	
UL - Lot	Section	Township	Range	* Propo	Feet from	N/S Line	Feet From	E/W Line	County	
OL - LOI	Section	Township	Kange	Tat idir	rect nom	· IVS Line	rectrom	L/W Luc	County	
		<u> </u>		9. :	Pool Informati	on I				
					ool Name				Pool Code	
Carlsbad; Upper l	Penn; South	(Gas) & Purp	le Sage; Wolfcamp (Ga	ıs)					96594 & 98220	
11. Work	T	—т	12 11/11/20	Additio	onal Well Infor		1. T	15. 4	2 17 171	
P Work			¹² Well Type Gas		Cable/Rotary		14. Lease Type Fee		15. Ground Level Elevation 3258	
^{16.} Mu	ltiple		17. Proposed Depth PBTD: 10941'		18. Formation o & Wolfcamp	on 19. Contractor 20. Spud Date			²⁰ . Spud Date	
Depth to Groun	Depth to Ground water: Distance from nearest fresh water					er well Distance to nearest surface water				
We will be	using a c	closed-loo	n system in lieu o	f lined pits						
		21.	p system in lieu o Proposed Casin	ng and Cen			reviously set	Cement	Estimated TOC	
Туре	Hole	21. e Size	Proposed Casing Size	ng and Cen	Weight/ft	Setting Depth	Sacks of C		Estimated TOC surf	
	Hole 1	21.	Proposed Casi	Casing V)	Estimated TOC Surf Surf	
Type *Surf	Hole 1'	21. e Size	Proposed Casin Casing Size 13-3/8"	Casing 4	Weight/ft	Setting Depth 487	Sacks of C	0	surf	
Type *Surf *Int	Hole 1'	e Size 7.5	Proposed Casin Casing Size 13-3/8" 9-5/8" 5-1/2"	Casing V	Weight/ft	Setting Depth 487 3188	Sacks of C 490 130	0	surf surf	
Type *Surf *Int	Hole 1'	e Size 7.5	Proposed Casin Casing Size 13-3/8" 9-5/8" 5-1/2"	Casing V	Weight/ft	Setting Depth 487 3188 12045	Sacks of C 490 130	0	surf surf	
Type *Surf *Int	Hole 1'	e Size 7.5	Proposed Casin Casing Size 13-3/8" 9-5/8" 5-1/2" Casin	Casing V Casing V 4 A 1 ng/Cement I	Weight/ft	Setting Depth 487 3188 12045 itional Comment	Sacks of C 490 130	0	surf surf	
Type *Surf *Int	Hole 1'	e Size 7.5	Proposed Casin Casing Size 13-3/8" 9-5/8" 5-1/2" Casin	Casing V Casing V 4 A 1 ng/Cement I	Weight/ft 8 0 7 Program: Addi Blowout Preven	Setting Depth 487 3188 12045 itional Comment	Sacks of C 490 130 180	0 0	surf surf	
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^{*}Casing previously set - no new casing

District.1
1625 N. Freuch Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-6720
District.11
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District.111
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District.1V
1220 S. St., Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

990'

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

WEI	T	T (0CA	TIC	M	AND	ACRE	AGE	DEDIC	MOTA	TA 1q
AA 12T	4 .	LЛ		111	JIN.	AIND	AL. N.	ALII	THEFT.	AIIUN	FLAI

3001	5 6	98	* Pool Cede 220		Nolfcamp (Gas)						
⁴ Preperty (29000			Echols Com					2 Well Number		1	
¹ogrid №. 162683			Cima	rex E	nergy (of Colorad	olorado				
					" Surface	e Location					
UL er lot no. M	Section 12	Township 23S	Range 26E	Lot Idn	Feet from t	he North/South line South	Feet from the 990		/West line Vest	Contr Eddy	ıly
			" Bo	ttom Ho	le Location	If Different Fron	n Surface				_
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he North/South line	Feet from the	East	/West line	Cour	зłу
¹² Dedicated Acre 320 No allowable division.			is comple		ll interests hav	ve been consolidated	or a non-standal	rd unit ha	s been ap	proved by the	
66			·				I hereby certify to the hest of a owns a workin the proposed to kocution pursu Interest, or to	y that the inform my knowledge at a interest or unli- matum to a contract a valuntary puo- we entered by th Amit	nation contained nd belief, and th leased mineral i whon or has a st i with an owner thus agreement	IFICATION If herein its orne and con out this organisation etil interest in the land inche gin on drill this well at a r of such a mineral or w or a computsory positin 111-6 Nford	her uding dus vorkin
	•						LINKE CHANG	-	ord@cim	narex.com	

E-mail Address

Date of Survey

Certificate Number

"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.

Signature and Seal of Professional Surveyor.

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State of New Mexico

Energy, Minerals & Natur**NA OHUGONSERVATION**OIL CONSERVATION DIVISIONSTRICT 1220 South St. Francis Dy. 0 7 2017

☐ AMENDED REPORT

Submit one copy to appropriate

Revised August 1, 2011

Form C-102

District Office

Santa Fe, NM 87505

RECEIVED

	WELL LOCATION AND A	CREAGE DEDICATION PLAT	
¹ API Number 30015-32286	1 Pool Code 96594	³ թույ Name Carlsbad; Upper Penn; South ((Gas)
⁴ Preperty Code 29000	Echols Cor	n Name	2 Well Number
7 OGRID No.	1 Oper	ator Name	* Elevation

Cimarex Energy of Colorado Elevation 3258 162683 " Surface Location UL or lot no. Section Township Range North/South line Let Idn Feet from the Feet from the East/West line County M 12 26E South 235 1110 990 West Eddy "Bottom Hole Location If Different From Surface UL or lot no. Feet from the North/South line Feet from the East/West line Section Township Range Lot Idn County 12 Dedicated Acres is Order No. ij Joint or Infill Consolidation Cade 320

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			17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete
			to the best of my knowledge and helief, and that this organization either
			gwas 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
			loculish pursuant to a contract with an owner of such a mineral or working
			Interest, or to a voluntary pooling agreement or a punjulsury pooling order heretofore entered by the division.
		(-	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
990'			Signature and Seal of Professional Surveyor:
1110′			
			Certificate Number



Plugback Procedure – Echols Com 2

Well Data

KB

18'

TD

12,050'

PBTD

11,365'

Casing

13-3/8" 48# H-40 @ 487'. Cmt'd w/ 490 sx, cmt circ

9-5/8" 40# @ 3,188'. Cmt'd w/ 1,300 sx, cmt circ

5-1/2" 17# P-110 & N-80 @ 12,045'. Cmtd w/ 1,800 sx. TOC @ 2,020' by TS

Tubing

2-3/8" 4.7# L-80 8rd

Proposed RC Perfs

Wolfcamp (8,748' – 10,112') & Cisco Canyon (10,112' – 10,503')

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.
- 4. ND WH, NU 5K BOP
- 5. Release packer and TOOH w/ 2-3/8" 4.7# N-80 tbg. Stand back Tubing.
- 6. MIRU WL
- 7. RIH w/ CIBP and set at +/- 10,976'
- 8. RIH w/ WL to bail 35' of cement on top of WL set at +/- 10,976'
- 9. RIH w/ CIBP and set at +/- 10,539.
- 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. 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# N-80 & P-110 csg to +/- 10,368'
- 17. Perforate Cisco Canyon from 10,112' 10,503'.
- 18. RU frac and flowback equipment.
- 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 8,748' 10,112'.



- 23. Acidize and frac Wolfcamp perfs down casing.
- 24. Set 10k flow through composite plug 15' above top perforation
- 25. Test to 8,500 psi
- 26. RD frac
- 27. MIRU 2" coiled tbg unit.
- 28. 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.
- 29. Clean out to PBTD 10,218'
- 30. POOH w/ blade mill, motor & CT
- 31. RDMO coiled tbg unit.
- 32. Flow back well for 24 hours, then SI well overnight.
- 33. RU wireline and lubricator.
- 34. RIH w/ GR/JB for 5-1/2" 17# N-80 to +/- 8,698'
- 35. RIH w/ 2-3/8" WEG, 2-3/8" 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, 5-1/2" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple. Set packer +/- 8,698'. 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
- 36. RD WL and lubricator
- 37. ND goat head and frac valve, NU BOP, MIRU Pulling Unit
- 38. TIH w/ on/off tool overshot, GLVs, and 2-3/8" 4.7# L-80 tbg.
- 39. Latch overshot onto on-off tool and space out tubing
- 40. ND BOP, NU WH
- 41. RDMO pulling unit
- 42. RU pump truck and pump out plug. Put well on production.
- 43. Run Production Log for allocation purposes after recovering load. Run additional production logs if actual production varies significantly from expected performance. Send copies of these logs to BLM and file for an adjustment of allocation factor if necessary.



