, . · · ·	•		NM OIL CONSERVATION ARTESIA DISTRICT															
Form 3160-4 (August 2007)	WELL	COMPLI	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MPLETION OR RECOMPLETION REPORT AND LOG								FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010 5. Lease Serial No.							
															IMNM1			
la. Type of		Oil Well	Gas ' w Well	Well			$\square$ O $\square$ De		D Dhua	Deels	🗖 Di	cc n		6. If	Indian,	Allott	tee or	Tribe Name
0. Type of	Completion								🗖 Plug	Back	וענ		esvi.	7. U	nit or C	A Agr	reeme	nt Name and No.
2. Name of CIMAR	Operator EX ENERG		ANY E	-Mail:	tstath			ERRI S ex.com	TATHEN					8. La C	ease Nai OTTOI	me an NBEF	id We RRY 2	II No. 20 FEDERAL COM 4H
3. Address	202 S CH TULSA, C		AVE., STE	. 1000					Phone No : 432-620		de area c	ode)		9. A	PI Well	No.		30-015-43658
4. Location	of Well (Re	port locatio	on clearly ar	nd in ac	cordar	nce wit	h Fede	eral req	uirements	)*				10. H	Field and	d Pool	l, or E PRIN	Exploratory
At surfa	ce NENE	330FNL 7	700FEL											11. 5	Sec., T.,	R., M	1., or I	Block and Survey
At top p	rod interval i	reported be	low NEN	IE 330	FNL 7	700FE	L							0	r Area	Sec 2	20 T2	25S R27E Mer
At total	depth SES	SE 331FS	L 656FEL												County of DDY	or Par	ish	13. State NM
14. Date Sp 02/01/2	oudded 017			ate T.D /18/20		hed			16. Date	Compl A <b>1</b> /2017	eted 🛛 Ready	to Pi	rod.	17. I	Elevatio	ns (Dl 3139	F, KB ) GL	, RT, GL)*
18. Total D	epth:	MD TVD	11975 7445	5	19.	Plug B	lack T	.D.:	MD TVD		1972		20. Dep	th Bri	dge Plug	g Set:	N T	MD TVD
21. Type El NONE	lectric & Oth	er Mechan	ical Logs R	un (Sul	omit co	opy of	each)				v	Vas I	vell core OST run? tional Su		No No No	ō	Yes	(Submit analysis) (Submit analysis) (Submit analysis)
23. Casing an	nd Liner Reco	ord (Repor	rt all strings	set in	well)													
Hole Size	Size/G	rade	Wt. (#/ft.)	То (М	op D)		tom ID)		Cementer Depth	1	of Sks. of Of Sks.		Slurry (BB		Ceme	ent To	op*	Amount Pulled
17.500		375 J55	48.0	<b> </b>	0	<u> </u>	435	-		ļ		580					0	
<u>12.250</u> 8.500		625 J55 500 L80	<u> </u>		0	<u> </u>	1990 1975					730 2275					0	
0.000		300 200	17.0		0	<u> </u> '	1070	1		<u> </u>	2	215						
				<u> </u>														
24. Tubing Size	Record Depth Set (M	1D) Pa	cker Depth	(MD)	Si	ze	Dept	h Set (I	MD) F	acker D	epth (Ml	D)	Size	De	epth Set	(MD)	)	Packer Depth (MD)
2.375		7022		7022				D C					- <u></u>					
25. Producin		<u></u>	T				26.		ation Reco				<u>c:</u>		1 11.1	<u> </u>		D - C Status
FC	BONE SP	RING	Тор	7444	BO	ttom 1195	5	1	Perforated		O 1195	5			No. Hole	es 155 C		Perf. Status
 B)	00112 01					1100					0 1100	<u> </u>		<u> </u>				
_ <u>C)</u>					-													
<u>D)</u>	Transford																	
	acture, Treat		ient Squeeze	e, etc.					Δ.	mounta	nd Type	of M	aterial					
			55 123695	BBLS	FOTAL	FLUID	); 9247	7657# S			ind Type	01 101	lateria					
			_															
28. Producti	ion - Interval	A	<u></u>															
Date First	Test	Hours	Test Broduction	Oil BBL		Gas MCF		Water	Oil G			Gas		Product	ion Metho	d		
Produced 06/17/2017	Date 07/05/2017	Tested 24	Production	767		MCF 1478		3BL 747.	0 Corr.	48.2		Gravity				G	GAS LI	FT
Choke Size	Tbg. Press. Flwg. 750	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF		Water BBL	Gas:C Ratio	nil	v	Vell St	atus	-		·		
44/64	SI	1000.0		76	1	147 NICF	1	747		1926		Р	WO					
28a. Produc	tion - Interva	ıl B																
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Gas MCF		Water BBL	Oil G Corr.			Gravity			g BLM		prov	vals will
Choke Size	Tbg. Press. Flwg. Sl	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF		Water BBL	Gas:C Ratio	ii		Vell St	sut	-				
(See Instructi ELECTRON	ions and space	SSION #3	itional data 81564 VER	IFIED	BY T	'HE BI		ELL I	NFORM	ATION MITTI	SYSTE ED ** (	м		c		7	- 2	5-1-

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28b. Proc	duction - Inter-	val C										
Date First Produced	Test Date	Hours Tested	Test Production		Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravit	у	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate		Gas MCF	Water BBL	Gas:Oil Ratio	Well S	itatus	s		
28c. Proc	luction - Interv	/al D		·		- <b>-</b>						
Date First Produced	Test Date	Hours Tested	Test Production		Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravit	y	Production Method	· · · · · · · · · · · · · · · · · · ·	
Choke Size	Tbg. Press. Flwg. Sl	Csg. Press.	24 Hr. Rate		Gas MCF	Water BBL	Gas:Oil Ratio	Well S	tatus			
29. Dispo SOL	osition of Gas( D	Sold, used	d for fuel, vent	ed, etc.)								
Show tests,	all important	zones of	nclude Aquife porosity and co l tested, cushic	ontents thereo			l all drill-stem d shut-in pressures		31. For	mation (Log) Markers		
<u></u>			T	Detterr	T	Degesieti				NI	Тор	
Formation		Тор	Bottom		Descripti	ons, Contents, etc.	oments, etc.		Name Mea			
BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING		2050 2970 4000 5520	2970 4000 5520 7460	WATER WATER WATER OIL AN WATER OIL AN				SALADO CASTILLE BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING		1230 1790 2050 2970 4000 5520		

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:											
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey								
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:									
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions): Electronic Submission #381564 Verified by the BLM Well Information System. For CIMAREX ENERGY COMPANY, sent to the Carlsbad											
Name (please print) TERRI STATHEM	Title	Title MANAGER REGULATORY COMPLIANCE									
Signature (Electronic Submission)	Date (	07/18/2017									
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1	make it a crime for any person kno	wingly and willfully to make to	any department or agency								

of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

\*\* ORIGINAL \*\*

	UNITED STATES			OMB N	APPROVED 0. 1004-0137 anuary 31, 2018		
	UREAU OF LAND MANA NOTICES AND REPO		-115		5. Lease Serial No. NMNM130854		
Do not use th	is form for proposals to II. Use form 3160-3 (AP)	-enter an		6. If Indian, Allottee o	r Tribe Name		
SUBMIT IN	TRIPLICATE - Other inst	tructions on	page 2		7. If Unit or CA/Agree	ement, Name and/or No.	
1. Type of Well	her				8. Well Name and No. COTTONBERRY	20 FEDERAL COM 4H	
2. Name of Operator CIMAREX ENERGY COMPA	Contact: NY E-Mail: tstathem@	TERRI STAT	HEM		9. API Well No. 30-015-43658		
3a. Address 202 S CHEYENNE AVE TULSA, OK 74103		3b. Phone No Ph: 432-62	. (include area code) 0-1936		10. Field and Pool or I BONE SPRING		
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	)			11. County or Parish,	State	
Sec 20 T25S R27E 330FNL 7	OOFEL				EDDY COUNTY	Υ, NM	
12. CHECK THE AN	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
□ Notice of Intent	□ Acidize	🗖 Dee	pen	Product	ion (Start/Resume)	U Water Shut-Off	
Subsequent Report	□ Alter Casing	•	raulic Fracturing	🗖 Reclama		Well Integrity	
,	Casing Repair	—	Construction	C Recomp		☑ Other Drilling Operations	
Final Abandonment Notice	<ul> <li>Change Plans</li> <li>Convert to Injection</li> </ul>	<ul> <li>Plug and Abandon</li> <li>Temp</li> <li>Plug Back</li> <li>Water</li> </ul>			brarity Abandon		
13. Describe Proposed or Completed Op If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involvec testing has been completed. Final Al determined that the site is ready for f	ally or recomplete horizontally, rk will be performed or provide d operations. If the operation re bandonment Notices must be fil	give subsurface the Bond No. or sults in a multipl	locations and measure of file with BLM/BIA e completion or reco	red and true ve Required sub mpletion in a t	rtical depths of all pertin provident reports must be new interval a Form 316	ent markers and zones. filed within 30 days 0-4 must be filed once	
Drilling 02/01/17 Spud well @ 4:30 a & set @ 435'. Mix & pump 58 02/02/17 Test csg to 1500# fo 02/04/17 TD 12-1/4" hole @ 1 lead: 530 sx Class C, 13.5 pp to surface. WOC 8 hrs. 02/05/17 Test csg to 1500# fo	i0 sx Class C, 14.8 ppg, 1 or 30 mins. Good test. 1990'. RIH w/ 9-5/8'', 36# g, 1.82 yld; tail w/ 200 sx	.35 yld. Circ <sup>I</sup> , J55 LTC csg	208 sx to surface g & set @ 1990'.	e. WOC 8 h Mix & pum	rs.	SERVATION	
02/08/17 TD 8-3/4" vertical ho 02/09/17 PU 8-3/4" curve BH 02/10/17 TOH w/ curve BHA.	ole @ 7019'. TOH & LD B A & drill curve. TIH w/ 8-1/2" lateral ass		lateral.	1 2017			
02/18/17 TD 8-1/2" hole @ 1	1975'.				RECE	(VED	
14. I hereby certify that the foregoing is	Electronic Submission #	381400 verifie ENERGY CON	d by the BLM Wel PANY, sent to th	l Informatior e Carlsbad	System		
Name (Printed/Typed) TERRIST	TATHEM		Title MANAGER REGULATORY COMPLIANCE				
Signature (Electronic S	Submission)	Date 07/16/2017					
	THIS SPACE FO	DR FEDERA		OFFICE U	SE	- <u>99. – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 19</u>	
				i <u>, An</u> , si			
Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to condu	uitable title to those rights in the		Title		<u></u>	Date	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a	ason knowingiv :	-	LM approvals wil htly be reviewed	d		
(Instructions on page 2) <b>** OPERA</b>	TOR-SUBMITTED ** O	PERATOR-	SUBMITTEI	and scann	ed 7-25-1	7	

## Additional data for EC transaction #381400 that would not fit on the form

## 32. Additional remarks, continued

02/19/17 LDDP. RIH w/ 5-1/2", 17#, L80, BTC/LTC csg & set @ 11975'. Mix & pump lead: 880 sx Class H, 11.0 ppg, 2.9 yld; tail w/ 1295 sx Class H, 14.5 ppg, 1.34 yld. Circ 76 sx surf. WOC. 02/20/17 Release rig.

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Completion 05/20/17 Test csg to 925# for 30 mins ? ok. Test csg to 7025# for 30 mins. OK. 06/08/17 to 6/09/17 Perf Bone Spring @ 7444-11955' w/ 455 holes, .43. Frac w/ 123695 bbls total fluid and 9247657# sand. 06/10/17 Mill out pluge and CO to PRTD @ 110721

06/10/17 Mill out plugs and CO to PBTD @ 11972'. 06/11/17 Flowback well. 06/13/17 SI well pending tbg installation. 06/17/17 RIH w/ 2-3/8" tbg, pkr & GLV & set @ 7022'. Turn well to production.