(August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR BURGALLOE LAND MANAGEMENT

**OCD Artesia** 

FORM APPROVED OMB No 1004-0137 Expires: July 31, 2010

BUREAU OF LAND MANAGEMENT											Expires: July 31, 2010							
WELL COMPLETION OR RECOMPLETION REPORT AND LOG												5. Lease Serial No NMNM0560353						
la Type of	Well 🛛 Oil W	ell [	Gas W	ell	□ Dry	у 1	□ Otŀ	ner						6 1	f Indian, All	ottee or	Tribe Name	
b. Type of	_	New W	<sup>/ell</sup> [	_	rk Over		Dee	pen	□ <sup>P</sup>	lug	Back	□ Diff	Resvr	7. (	Unit or CA	Agreem	ent Name and No.	
Name of Operator Contact. TERRI S     CIMAREX ENERGY COMPANY OF GEOMail: tstathem@cimarex.com									RI STATHEM com						8 Lease Name and Well No CRESCENT HALE 12 FEDERAL 1			
3. Address 600 NORTH MARIENFELD STREET SUITE 600   3a Phone No. (include area code)   9 API Well No.   9 API Well No.   15 API Well No.											15-39025-00-S1							
4. Location of Well (Report location clearly and in accordance with Federal requirements) = VED 10. Field and Pool, or Exploratory BENSON												Exploratory						
At surface NWNW 485FNL 530FWL										FEB: <b>2 9</b> 2012					BENSON  11 Sec , T., R., M., or Block and Survey or Area Sec 12 T19S R30E Mer NMI			
At top p	rod interval reporte	d below	NWN\	N 48	5FNL 5	30FV	٧L	1					1	i	County or I		13. State	
At total of 14 Date Sp	depth SWSW 3	38FSL 6	572FWL 15. Date	<u> </u>	Dancha	ad .		N	NMOCD ARTESIA					EDDY		NM		
10/06/2				2/20	11				16. Date Completed □ D & A Ready to Prod. 12/07/2011					17.	17. Elevations (DF, KB, RT, GL)* 3467 GL			
18 Total D	TVE	)	12962 8728		19. Pl			)	MD TVI		12	914	20 I	Depth B	ridge Plug S		MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) 3467 GL  22 Was well cored? Was DST run? No ☐ Yes (Submit analysis) Directional Survey? No ☐ Yes (Submit analysis)																		
23. Casing an	nd Liner Record (R	eport ali	strings s	et in 1	well)			•										
Hole Size	Size/Grade	Wt.	(#/ft.)	To (M)		Botto (MI		_	Cemen Depth	iter		of Sks. & of Cement		rry Vol. 3BL)	Cement	Top*	Amount Pulled	
17.500	13.375 J-	55	54.5		0		500					44	0			0		
12.250	12.250 9.625 N-80		40.0	0		4090		30			2300		0			0		
8.750 5.500 P-110		10	17.0 0		12962					1920		0			0			
24. Tubing	Record																	
Size	Depth Set (MD)	Packer	Depth (N	ИD)	Size		Depth	Set (N	MD)	Pa	acker De	pth (MD)	Sız	e E	Pepth Set (M	ID)	Packer Depth (MD)	
2.875	7964												<u> </u>					
25. Producii	ng Intervals						26. I	Perfor	ation R	leco	rd							
Fo	rmation		Top		Botto	om		F	Perforat	ted 1	Interval		Size		No. Holes		Perf. Status	
A)	BONE SPRING		8	649	1	2836					8649 T	O 9056				) open		
B) 9189 TO 9596 40 open																		
C)						9729 TO 10136						40 open						
D)										1	0269 TC	10676			40	open		
	acture, Treatment,	Cement	Squeeze,	Etc														
Depth Interval									Ar	nount an	d Type of	Materia		KECL	AW	IATION		
8649 TO 9056 gal total fluids, 331308# sand														DUE	ب	- 7-LZ		
9189 TO 9596 gal total fluids, 3313																		
	9729 TO																	
	10269 TO	10676	gal total fl	uids, 3	325161#	sand									•			

28. Production - Interval A Date First Gas MCF Water BBL Oil Gravity Production Method BBL Produced Date Tested Production Corr API Gravity 12/08/2011 12/24/2011 24 579.0 754 0 802 0 38.7 ELECTRIC\_PUMP\_SUB-SURFACE-Choke Tbg Press 24 Hr. Csg Gas Water Gas Oil Flwg 80 BBL MCF BBL Rate Size Press Ratio 48/64 SI 800 5797 754 802 1302 28a. Production - Interval B Date First Gas MCF Water BBL Hours Oil Gravity roduction Method BBL Corr API Production Produced Date Tested FEB 1 9 2012 Choke 24 Hr Gas Oil Ratio Tbg Press Flwg Csg Press Gas Water Well Status BBL BBL Size Rate sı MANACEMENT

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #130464 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

TOP SALT DELAWARE 4570 6120 TOP SALT DELAWARE BONE SPRING BONE SPRING  32. Additional remarks (include plugging procedure): additional perfs 10809-11216' - 42. 40 holes, open 11349-11756' - 42, 40 holes, open 11889-12296' - 42, 40 holes, open 11889-12296' - 42, 40 holes, open additional frac info 10809-11216' 230831 gals total fluid; 360119# sd  33. Circle enclosed attachments:	Production	on - Interv	al C	•								
Cheke Prog Pross   Production   Pro										Production Method		
Pres	.cu	aic	Tested		, DDL	Mei	DDC	Con Air	Gravity			
Due Per Due Due Text Due Text Due Text Due Text Due Text Producted Due Text Producted Due Text Producted Due Text Producted Due Text Due	Flv	lwg							Well Statu	s		-
Date   Tested   Produced   Date   Tested   Production   BBL   MCF   BBL   Corr API   Greenty	Productic	on - Interv	al D		I							
Size   Fiving   Frees   Rate   BBL   MCF   BBL   Ratio										Production Method		
SOLD  30. Summary of Porous Zones (Include Aquifers). Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.  Formation  Top Bottom Descriptions, Contents, etc.  Name  RUSTLER TOP SALT TOP SALT TOP SALT DELAWARE 4570 BONE SPRING  6120  32. Additional remarks (include plugging procedure) additional perfs 10809-11216' - 42, 40 holes, open 11349-11726' - 42, 40 holes, open 11349-11766' - 42, 40 holes, open 12429-12836' - 42, 40 holes, open 12429-12836' - 42, 40 holes, open 12479-12836' - 42, 40 holes, open 12479-12836' - 42, 40 holes, open 12489-1216' 230831 gals total fluid; 360119# sd  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (I full set req'd.) 2. Geologic Report 3. DST Report 4. Director of the control	Flv	lwg							Well Statu	ıs		
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.  Formation Top Bottom Descriptions, Contents, etc. Name  RUSTLER TOP SALT TOP SALT TOP SALT DELAWARE BONE SPRING 6120  32. Additional remarks (include plugging procedure) additional peris 10809-11216' - 42, 40 holes, open 11349-11756' - 42, 40 holes, open 11349-11756' - 42, 40 holes, open 11349-11756' - 42, 40 holes, open 11429-1280' - 42, 40 holes, open 12429-12836' - 42, 40 holes, open 12429-12836' - 42, 40 holes, open 1349-1176' 230831 gals total fluid; 360119# sd  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (I full set req'd.) 2. Geologic Report 3. DST Report 4. Dir 5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other:		on of Gas(S	Sold, use	d for fuel, ven	ted, etc.)	1.	<u> </u>					
tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.  Formation Top Bottom Descriptions, Contents, etc. Name  RUSTLER TOP SALT TOP SALT TOP SALT DELAWARE BONE SPRING  32. Additional remarks (include plugging procedure) additional perfs 10899-11216 - 42, 40 holes, open 11349-11766 - 42, 40 holes, open 11369-12286 - 42, 40 holes, open 12429-12806 - 42, 40 holes, open 12429-12806 - 42, 40 holes, open 133. Circle enclosed attachments:  1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report 4. Dir 5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other:	Summary	of Porous	Zones (I	nclude Aquife	ers).			<del></del>		1 Formation (Log) M	larkers	
RUSTLER TOP SALT DELAWARE BONE SPRING  32. Additional remarks (include plugging procedure) additional perfs 10809-11216 - 42, 40 holes, open 11349-11756 - 42, 40 holes, open 11349-11756 - 42, 40 holes, open 11889-12296 - 42, 40 holes, open 11889-12296 - 42, 40 holes, open 11899-11216 - 24, 40 holes, open 11899-11216 - 30331 gals total fluid; 360119# sd  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (I full set req'd.) 2. Geologic Report 3. DST Report 4. Dir 5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other:	tests, inclu	uding dept							s			
TOP SALT DELAWARE BONE SPRING  32. Additional remarks (include plugging procedure): additional perfs additional perfs 10809-11216* - 42. 40 holes, open 11349-11756* - 42. 40 holes, open 11849-1296* - 42. 40 holes, open 12429-12305* - 42. 40 holes, open 12429-1230* - 42. 40 hole	For	rmation		Тор	Bottom		Descriptions	, Contents, etc.		Name		Top Meas. Depth
32. Additional remarks (include plugging procedure): additional perfs 10809-11216' - 42, 40 holes, open 11349-11756' - 42, 40 holes, open 11849-12996' - 42, 40 holes, open 12429-12836' - 42, 40 holes, open additional frac info 10809-11216' 230831 gals total fluid; 360119# sd  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (1 full set req'd.) 2 Geologic Report 3 DST Report 4 Dir 5 Sundry Notice for plugging and cement verification 6 Core Analysis 7 Other:	DELAWARE			700 4570				Ł		TOP SALT DELAWARE		555 700 4570 6120
11349-11756'42, 40 holes, open 11889-12296'42, 40 holes, open 12429-12836'42, 40 holes, open additional frac info 10809-11216' 230831 gals total fluid; 360119# sd  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report 4. Dir 5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other:	additional	al perfs 🗀	`		edure)							
10809-11216' 230831 gals total fluid; 360119# sd  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (1 full set req'd.)  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 inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing and attached information is complete and correct as determined from all available records (see attached inserting that the foregoing attached information that the foregoing attached information is complete and correct as determined from all available records (see attached inserting that the foregoing attached information that the foreg	11349-11 11889-12	1756'42 2296'42	2, 40 ho 2, 40 ho	les, open les, open								
1. Electrical/Mechanical Logs (1 full set req'd.)  2. Geologic Report  3. DST Report  4. Dir  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 instance).				s total fluid; 3	60119# so	i						
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 institute of the content of the conten	Circle enc	closed atta	chments:							•		
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached ins										•	4 Direction	onal Survey
·	5 Sundry	y Notice fo	or pluggii	ng and cement	verificatio	n	6 Core Analy	'S1S	7 Otl	her:		
Electronic Submission #130464 Verified by the BLM Well Information System.	I hereby co	ertify that	the foreg	going and atta	ched inform	ation is co	omplete and corre	ect as determin	ed from all av	ailable records (see at	tached instruct	ions)
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad Committed to AFMSS for processing by JAMES (JIM) HUGHES on 02/09/2012 (12JLH0445SE)			(	1	For CIMA	REX ENE	ERGY COMPAI	ŇY OF CO, so	ent to the Cai	rlsbad		
Name (please print) TERRI STATHEM  Title REGULATORY ANALYST	Name (ple	ease print)				processi	by 0/1/12/5 (i	,		` '		
Signature (Electronic Submission) Date 02/08/2012	Signature .		(Electro	onic Submiss	ion)			Date <u>0</u> 2	2/08/2012			

## Additional data for transaction #130464 that would not fit on the form

#### 26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
10809 TO 11216		40	open
11349 TO 11756		40	open
11889 TO 12296		40	open
12429 TO 12836		40	open

## 27. Acid, Fracture, Treatment, Cement Squeeze, etc., continued

Depth Interval	Amount and Type of Materia
10809 TO 11216	gal total fluids, 360119# sand
11349 TO 11756	gal total fluids, 339267# sand
11889 TO 12296	gal total fluids, 333763# sand
12429 TO 12836	gal total fluids, 334819# sand

## 32. Additional remarks, continued

11349-11756' 219039 gals total fluid; 339267# sd 11889-12296' 225320 gals total fluid; 333763# sd 12429-12836' 244643 gals total fluid; 334819# sd

logs mailed via overnight mail.