

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS Hobbs
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM94622

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
CHAPARRAL 33 FEDERAL COM 3 ✓

9. API Well No.
30-025-40253-00-S1 ✓

10. Field and Pool, or Exploratory
QUAIL RIDGE

11. County or Parish, and State
LEA COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **CIMAREX ENERGY COMPANY OF CO** Contact: **CRISTEN BURDELL**
Mail: cburdell@cimarex.com

3a. Address
600 NORTH MARIENFELD STREET, SUITE 600
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 918-560-7038

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 33 T19S R34E NENE 220FNL 880FEL
32.623383 N Lat, 103.559263 W Lon ✓

RECEIVED
DEC 02 2015

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

H2S gas analysis for facility as requested

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #273836 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs
Committed to AFMSS for processing by LINDA JIMENEZ on 05/04/2015 (15LJ1010SE)**

Name (Printed/Typed) **CRISTEN BURDELL** Title **REGULATORY ANALYST**

Signature (Electronic Submission) Date **10/27/2014**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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Chaparral 33 Feb 3



Permian Basin Area Laboratory
2101 S Market St. / Building B
Midland, TX. 79711

Report Date: 6/9/2014

Complete Water Analysis Report ssp v.8

Customer:	CIMAREX ENERGY CO	Sample Point Name	33 St #3
District:	New Mexico	Sample ID:	201401008878
Sales Rep:	Shannon Lee	Sample Date:	5/29/2014
Lease:	CHAPARELL	Log Out Date:	6/4/2014
Site Type:		Analyst:	Sandra Sanchez
Sample Point Description:			

CIMAREX ENERGY CO, CHAPARELL, 33 St #3

Field Data		Analysis of Sample											
		Anions:		mg/L		meq/L		Cations:		mg/L		meq/L	
Initial Temperature (°F):	250	Chloride (Cl ⁻):	97601.0	2753.2	Sodium (Na ⁺):	45100.0	1962.6						
Final Temperature (°F):	87	Sulfate (SO ₄ ²⁻):	1272.0	26.5	Potassium (K ⁺):	839.9	21.3						
Initial Pressure (psi):	100	Borate (H ₂ BO ₃):	213.3	3.4	Magnesium (Mg ²⁺):	787.4	64.8						
Final Pressure (psi):	15	Fluoride (F ⁻):	ND		Calcium (Ca ²⁺):	5168.6	257.9						
		Bromide (Br ⁻):	ND		Strontium (Sr ²⁺):	424.4	9.7						
pH:		Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	1.3	0.0						
pH at time of sampling:	6.2	Nitrate (NO ₃ ⁻):	ND		Iron (Fe ²⁺):	164.3	5.9						
		Phosphate (PO ₄ ³⁻):	ND		Manganese (Mn ²⁺):	2.1	0.1						
		Silica (SiO ₂):	ND		Lead (Pb ²⁺):	ND							
					Zinc (Zn ²⁺):	0.0	0.0						
Alkalinity by Titration:	mg/L meq/L				Aluminum (Al ³⁺):	ND							
Bicarbonate (HCO ₃ ⁻):	170.0 2.8				Chromium (Cr ³⁺):	ND							
Carbonate (CO ₃ ²⁻):	ND				Cobalt (Co ²⁺):	ND							
Hydroxide (OH ⁻):	ND				Copper (Cu ²⁺):	ND							
					Molybdenum (Mo ²⁺):	ND							
aqueous CO ₂ (ppm):	160.0	Organic Acids:	mg/L meq/L		Nickel (Ni ²⁺):	ND							
aqueous H ₂ S (ppm):	17.0	Formate:	ND		Tin (Sn ²⁺):	ND							
aqueous O ₂ (ppb):	ND	Acetate:	ND		Titanium (Ti ⁴⁺):	ND							
		Propionate:	ND		Vanadium (V ³⁺):	ND							
Calculated TDS (mg/L):	151738	Butyrate:	ND		Zirconium (Zr ²⁺):	ND							
Density/Specific Gravity (g/cm ³):	1.0936	Valerate:	ND										
Measured Density/Specific Gravity	1.1030				Total Hardness:	16650	N/A						
Conductivity (mmhos):	ND												
MCF/D:	No Data												
BOPD:	No Data												
BWPD:	No Data	Anion/Cation Ratio:		1.20									

Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
87°F	15 psi	0.73	0.628	0.54	21.241	-0.15	0.000	-0.28	0.000
105°F	24 psi	0.60	0.581	0.57	22.088	-0.14	0.000	-0.20	0.000
123°F	34 psi	0.49	0.524	0.62	23.582	-0.14	0.000	-0.11	0.000
141°F	43 psi	0.39	0.458	0.68	25.166	-0.14	0.000	-0.03	0.000
159°F	53 psi	0.30	0.384	0.75	26.700	-0.13	0.000	0.07	84.090
178°F	62 psi	0.22	0.304	0.82	28.152	-0.13	0.000	0.16	185.524
196°F	72 psi	0.14	0.218	0.89	29.523	-0.13	0.000	0.26	271.084
214°F	81 psi	0.08	0.127	0.96	30.959	-0.12	0.000	0.36	341.930
232°F	91 psi	0.02	0.033	1.04	32.346	-0.12	0.000	0.46	399.607
250°F	100 psi	-0.04	0.000	1.13	33.653	-0.12	0.000	0.57	445.863

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
87°F	15 psi	0.51	187.847	-1.11	0.000	2.96	34.685	0.69	26.242
105°F	24 psi	0.51	188.387	-1.12	0.000	2.88	34.515	0.77	28.347
123°F	34 psi	0.51	188.745	-1.12	0.000	2.84	34.550	0.86	30.645
141°F	43 psi	0.52	189.354	-1.13	0.000	2.83	34.666	0.95	32.642
159°F	53 psi	0.52	190.506	-1.14	0.000	2.84	34.815	1.02	34.271
178°F	62 psi	0.53	192.365	-1.14	0.000	2.85	34.973	1.09	35.566
196°F	72 psi	0.54	194.978	-1.14	0.000	2.87	35.130	1.15	36.576
214°F	81 psi	0.55	198.294	-1.15	0.000	2.90	35.313	1.20	37.480
232°F	91 psi	0.57	202.180	-1.15	0.000	2.94	35.493	1.25	38.209
250°F	100 psi	0.59	206.451	-1.15	0.000	2.98	35.655	1.28	38.758

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.
 Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.



ScaleSoft Pitzer™
SSP2010

Comments: