

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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

SUNDRY NOTICES AND REPORTS ON WELLS
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.
NMNM0560378

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.
SHIFTING SANDS 15 FEDERAL COM 1

9. API Well No.
30-015-35386

10. Field and Pool, or Exploratory
HENSHAW; MORROW

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

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
CIMAREX ENERGY COMPANY
Contact: CRISTEN BURDELL
E-Mail: cburdell@cimarex.com

3a. Address
202 S. CHEYENNE AVE STE 1000
TULSA, OK 74103

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 15 T16S R30E 2260FNL 2150FWL

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

PD 12/21/15
Accepted for record
N.A.O.C.D.

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 18 2015

RECEIVED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #273844 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad Committed to AFSS for processing by LINDA DENNISTON on 01/13/2015 ()

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 *James C. Owens* Title *SPET* Date *12/13-15*

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 *CAD*

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	CIMAREX ENERGY	Sales RDT:	33521
Region:	PERMIAN BASIN	Account Manager:	STEVE HOLLINGER (575) 910-9393
Area:	LOCO HILLS, NM	Sample #:	573966
Lease/Platform:	SHIFTING SANDS 15 FEDERAL COM	Analysis ID #:	114059
Entity (or well #):	1	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WATER TANK		

Summary		Analysis of Sample 573966 @ 75 °F					
Sampling Date:	10/19/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	11/03/11	Chloride:	136.0	3.84	Sodium:	71.7	3.12
Analyst:	JENNIFER HARDELL	Bicarbonate:	24.0	0.39	Magnesium:	1.5	0.12
TDS (mg/l or g/m3):	264.7	Carbonate:	0.0	0.	Calcium:	11.0	0.55
Density (g/cm3, tonne/m3):	1	Sulfate:	3.0	0.06	Strontium:	0.9	0.02
Anion/Cation Ratio:	1.0000012	Phosphate:			Barium:	0.2	0.
Carbon Dioxide:	20 PPM	Borate:			Iron:	5.0	0.18
Oxygen:		Silicate:			Potassium:	11.0	0.28
Comments:		Hydrogen Sulfide:	0 PPM		Aluminum:		
RESISTIVITY 8 OHM-M @ 200°F		pH at time of sampling:		7.4	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		7.4	Lead:		
					Manganese:	0.400	0.01
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press psi
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	-1.58	0.00	-3.74	0.00	-3.82	0.00	-3.11	0.00	-0.69	0.00	0.02
100	0	-1.44	0.00	-3.73	0.00	-3.74	0.00	-3.08	0.00	-0.82	0.00	0.02
120	0	-1.30	0.00	-3.71	0.00	-3.63	0.00	-3.03	0.00	-0.92	0.00	0.03
140	0	-1.17	0.00	-3.67	0.00	-3.51	0.00	-2.98	0.00	-1.00	0.00	0.03

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 five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.