

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FEB 10 2015

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Elm Ridge Exploration Company, LLC

3a. Address  
PO BOX 156, Bloomfield, NM 87413

3b. Phone No. (include area code)  
505-632-3476

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
"D" - Sec. 1-T23N-R7W  
800' FNL X 880' FWL

5. Lease Serial No.

SF-078362

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Marcus A 15

9. API Well No.

30-039-24065

10. Field and Pool, or Exploratory Area

Lybrook Gallup

11. County or Parish, State

Rio Arriba, NM

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 checked="" 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 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 Operations (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.)

Elm Ridge Exploration did an acid clean out to this well on 1-23-15. The service treatment summary is attached.

RECEIVED

FEB 17 2015

NMOCD  
DISTRICT III

ACCEPTED FOR RECORD

FEB 12 2015

FARMINGTON FIELD OFFICE  
BY: J. Salazar

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Title

Signature

Amy Archuleta

Date

Sr. Regulatory Supervisor

February 9, 2015

THIS SPACE FOR FEDERAL OR STATE 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, makes 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.

(Instructions on reverse)

NMOCD

ELM RIDGE EXPLORATION CO LLC - EBUS  
12225 Greenville Ave  
Dallas, TX 75243

Marcus A15

Interval 1  
Sandoval County, New Mexico

Sales Order: 902060647

## Post Job Report

For: Randy Snyder  
Date: Thursday, January 22, 2015

Notice: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

039-24065

HALLIBURTON

SF-078362

Lybrook Sallie ~~SA~~

D 1-23-7

800 N x 880 FWL

Post Job

# HALLIBURTON

## Fracturing Service Treatment Report

### Legal Data

Date: January 23, 2015 District: Farmington Customer: Elm Ridge S.O. #: 902060647  
Well Name: Marcus A 015 Legals: S: 1 T: 23N /R: 07W County/State: Sandoval NM API#: 30-039-24065

### Well Data

Job Type	Foamed DuraKleen					
Formation	Gallup	Total Measured Depth	5,513	Tubing	2.375" 4.7# J-55	
Casing	4.5" 11.6# J-55	Liner	-	Packer	-	MD Interval: 5384' - 5446'
Perforations	4 spf	Perf Size	0.32"	Total		TVD Interval: 5384' - 5446'

### Treatment Data

Slurry		Foam		Average Rates		Pressure	
Pad Volume		Pad Volume	2,875	Clean	9.5	Average	3,954
Treatment	3,000	Treatment	8,375	Slurry	9.5	ISIP	979
Flush		Flush	3,263	Foam	18,270.0	5 Minute	N/A
Total	6,263	Total	14,513	N2 / C02	18,270	10 Minute	N/A
Pad %		Sand Total		Q	59	15 Minute	N/A

### Job Data

Time	Volumes		Rates		Pressure	Sand	Stage Description
Stage Time	Stage Volume	Fluid Total	Slurry Rate	BH Rate	Tubing/Casing	Stage LBS	
13:56	-	-	-	-	4,742	-	Pressure Test
N/A			N/A	N/A	N/A	-	Start Job - Load Well
14:49			N/A	N/A	2,688	-	Pad
14:58	3,000	3,000	9.1	29.0	3,993	-	Acid
15:06		3,000	N/A	N/A	N/A	-	Shut-In
15:10	2,381	5,381	13.3	12.8	3,375	-	Flush Annulus
N/A		5,381	N/A	N/A	N/A	-	Shut-In
15:17	882	6,263	5.8	5.9	3,257	-	Flush Tubing
N/A	-	-	-	-	N/A	-	Shut-In
15:21	-	-	-	-	979	-	ISIP
N/A	-	-	-	-	N/A	-	5-Min
N/A	-	-	-	-	N/A	-	10-Min
N/A	-	-	-	-	N/A	-	15-Min

### Job Summary & Comments

HES performed a Foamed DuraKleen Frac for Elm Ridge Resources on 1/23/2015. The job was pumped to completion per design.

HES pumped a BH Volume of 14513.32 gals, a Slurry Volume of 6263 gals, Clean Volume of 6263 gals with a Load to Recover of 6263 bbl.

HES pumped a total N2 Volume of 223523 scf. Max N2 Rate of 28469 scfm. Avg Treatment Rate of 18270 scfm.

The Max Treating Pressure for the Job was 4049 psi with an Average Treatment Pressure of 3954 psi.

The Max Slurry Rate for the Job was bpm with an Average Slurry rate of 9.46 bpm.

The Max Bottomhole Treating Pressure for the job was 6173 psi with a Max BH Rate of 29.5 bpm.

ISIP = 978.7 psi ; FG = 0.617 psi/ft

Treater/N2 Treater J. Chavers / J. Rushing

TCC Operator: F. Harris

Engineer: J. An

The maximum surface pressure reached (during treatment) was 3993 psi

### Chemicals Pumped

Chemical	Beg. Strap	After Prime Up	Ending Strap	Dosage	Used	Ticket Total	Percentage Error
HC-2	16	16	1	15	16	15.5	3.33%