

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTRECEIVED  
ELECTRONIC REPORT

FEB 27 2015

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.  
7511410386. If Indian, Allottee or Tribe Name  
UTE MOUNTAIN UTE

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
PRAIRIE FALCON 19-1

2. Name of Operator

BRIDGECREEK RESOURCES CO, LLC

Contact: CHRISTINE CAMPBELL

Email: ccampbell@palomarnr.com

9. API Well No.  
30-045-35628-00-X1

3a. Address

8100 SOUTHPARK WAY, SUITE A1  
LITTLETON, CO 80127

3b. Phone No. (include area code)

Ph: 303-668-8318

10. Field and Pool, or Exploratory  
VERDE GALLUP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T31N R14W NWNE 666FNL 1971FEL  
36.891898 N Lat, 108.348346 W Lon11. County or Parish, and State  
SAN JUAN COUNTY, 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 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 checked="" 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 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.)

Bridgreek Resources (CO), LLC respectfully submits the proposed chemical list for the frac on the Prairie Falcon 19-1 for approval.

We have not finalized negotiations with a vendor (Halliburton and Baker Hughes), but on 03/04/2015 these vendors will be performing the frac job on this well using the respective list of chemicals shown on their respective attachment.

We are anticipating the completion to begin mid-March 2015, weather dependent.

OIL CONS. DIV DIST. 3

MAR 30 2015

ACCEPTED FOR RECORD

MAR 19 2015

By:   
Tres Rios Field Office  
Bureau of Land Management

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

Electronic Submission #293337 verified by the BLM Well Information System  
For BRIDGECREEK RESOURCES CO, LLC, sent to the Durango  
Committed to AFMSS for processing by BARBARA TELECKY on 03/04/2015 (15BDT0144SE)

Name (Printed/Typed) CHRISTINE CAMPBELL

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 02/27/2015

## 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 \*\*

NMOCDAv Accepted For Record



Proposal No: 118250127B

**Palomar Natural Resources  
PRAIRIE FALCON 19 #1**

API # 30-045-35628-0000  
VERDE Field  
19B-31N-14W  
San Juan County, New Mexico  
February 24, 2015

**Well Proposal**

**Prepared for:**

Dan Gralla  
VP NORTH AMERICAN OPERATIONS  
Palomar Natural Resources

**Prepared by:**

Patricia V Cabrera  
Area Engineer

**Service Point:**

PP, FARMINGTON  
Bus Phone: 505-3276222  
Fax: 505-327-5766

**Service Representatives:**

Katherine Thompson Ferguson  
Account Manager

Powered by  
**PowerVision**

Operator Name: Palomar Natural Resources  
Well Name: PRAIRIE FALCON 19 #1  
Job Description: Stage 1 -70Q -Linear N2 Foam -51k Sand Brown  
Date: February 24, 2015



Proposal No: 118250127B

**JOB AT A GLANCE**

Surface Treating Pressure (max)	2,715 psi
Slurry HHP (avg)	629 hhp
Total Rate (max)	25.00 bpm
Slurry Rate (max)	25.00 bpm
Nitrogen Rate (max)	17,424 scfm
Estimated Pump Time (HH:MM)	00:33
Nitrogen Pumped Volume	456,216 scf
Nitrogen Cooldown Volume	20,000 scf
Treatment Fluid	27,500 gals 24PPT Linear Foam
Flush	2,000 gals Claytreat Water
Diagnostic	2,000 gals Claytreat Water
Diagnostic	1 gals SHUT DOWN
Proppants	51,000 lb Sand, Brown, 20/40

Operator Name: Palomar Natural Resources  
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## FLUID SPECIFICATIONS

### **Treatment Fluid: 24PPT Linear Foam**

Foam Volume: 27,500 Gallons  
Pumped Liquid 8,250 Gallons  
Pumped Gas Volume: 456 Mscf Nitrogen

#### Components:

6 gpt	FAW-22, 260 gl tote	Foaming Agent
6 gpt	GW-3LDF	Gelling Agent
1 gpt	Clay Master-5C	Clay Stabilization Product
1 gpt	Enzyme G-I	Gel Breaker
1 gpt	Flo-Back Prime, tote	Surface Tension Reducer
1 gpt	NE-35, 330 gl tote	Non-Emulsifier
1 ppt	GBW-5	Gel Breaker
	(Last 5k gallons)	
0.05 gpt	Magnacide 575	Bacteria Control Product

### **Flush: Claytreat Water**

Foam Volume: 2,000 Gallons  
Pumped Liquid 1,889 Gallons

#### Components:

2 ppt	GBW-5	Gel Breaker
1 gpt	Clay Master-5C	Clay Stabilization Product
1 gpt	Flo-Back Prime, tote	Surface Tension Reducer
0.05 gpt	Magnacide 575	Bacteria Control Product

### **Diagnostic: Claytreat Water**

2,000 Gallons

#### Components:

1 gpt	Clay Master-5C	Clay Stabilization Product
0.05 gpt	Magnacide 575	Bacteria Control Product

### **Diagnostic: SHUT DOWN**

1 Gallons

### **Proppants**

51,000 lb 100% Sand, Brown, 20/40

Base fluid will be 2% KCl water and customer supplied. Breaker and additive loading subject to change pending lab testing.

**Operator:** Palomar Natural Resources  
**Well Name:** PRAIRIE FALCON 19 #1  
**Job Description:** Stage 1 -70Q -Linear N2 Foam -51k Sand Brown  
**Date:** February 24, 2015



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## FRACTURE TREATMENT SCHEDULE NITROGEN FOAM

### INPUT PARAMETERS

TVD Depth (Mid Perforation)	2,892 ft
MD Depth (Mid Perforation)	2,892 ft
Perforations Number	16
Perforation Diameter	0.380 in
Bottom Hole Frac Pressure	2,603 psi
Bottom Hole Static Temperature	128 ° F
Fluid Specific Gravity	1.010
Fluid Temperature in Tanks	60 ° F
Nitrogen Temperature at Surface	100 ° F
	<u>Top</u> <u>Bottom</u>
Casing 4 1/2" O.D. (4.000" I.D.) 11.6 # N-80	0 3,151

### CALCULATED TEMPERATURES

	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
System at Wellhead	64 ° F	60 ° F	
System at Perforation	77 ° F	61 ° F	
System at Formation (mean)			107 ° F

### CALCULATED RATES, PRESSURES & HHP REQUIREMENTS

	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
Surface Treating Pressure (psi)	2,715	1,698	2,479
Slurry Rate (bpm)	25.0	1.0	10.3
Nitrogen Rate (scfm)	17,425	14,748	16,072
Proppant Rate (lbs/min)	3,557	260	2,117
Slurry Hydraulic Horsepower	1,367	42	629

*Volumes, Rates and Qualities are based on Downhole Temperature and Pressures.*

## 2.2 Procedure

### 2.2.1 Job Fluids

#### 2% KCL Water/ 21000.0 (Gal)

<b>Base Fluid</b>	2% KCL WATER 1000.00 (gal/Mgal)	21000 (Gal)	<b>Additive Material</b>	BE-6 0.15 (lbm/Mgal)	2.00 (lbm)
<b>Additive Material</b>	Losurf-300D 1.00 (gal/Mgal)	18.00 (Gal)			

Notes:null

#### Water Frac G 20#/ 52500.0 (Gal)

<b>Base Fluid</b>	2% KCL WATER 1000.00 (gal/Mgal)	52500 (Gal)	<b>Additive Material</b>	BE-6 0.15 (lbm/Mgal)	8.00 (lbm)
<b>Breaker</b>	GBW-30 1.00 (lbm/Mgal)	53.00 (lbm)	<b>Surfactant</b>	Losurf-300D 1.00 (gal/Mgal)	53.00 (Gal)

Notes:null

#### Delta-R Foam Frac 20#/ 46578.0 (Gal)

<b>Base Fluid</b>	2% KCL WATER 1000.00 (gal/Mgal)	46578 (Gal)	<b>Breaker</b>	GBW-30 1.00 (lbm/Mgal)	47.00 (lbm)
<b>Surfactant</b>	Losurf-300D 0.50 (gal/Mgal)	24.00 (Gal)	<b>Additive Material</b>	Optiflo HTE 2.00 (lbm/Mgal)	94.00 (lbm)
<b>Additive Material</b>	BE-6 0.15 (lbm/Mgal)	7.00 (lbm)			

2.2.2 Job Totals

Fluids

Additive Material	BE-6	17.00(lbm)	Additive Material	Losurf-300D	95(Gal)
Breaker	GBW-30	100.00(lbm)	Additive Material	Optiflo HTE	94.00(lbm)

Proppants

	Designed Qty	Requested
Premium White-20/40	240000 (lbm)	240000(lbm)

Customer Supplied Items

	Designed Qty	Tank Bottom	Requested with Tank Bottom
2% KCL WATER	120078 (Gal)	0 (Gal)	120078(Gal)

CO2 and N2 Totals

N2 Volume	1130556 (scf)
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