

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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.

BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No. 751141038
6. If Indian, Allottee or Tribe Name UTE MOUNTAIN UTE
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. HARRIS HAWK 20-1
9. API Well No. 30-045-35631-00-X1
10. Field and Pool, or Exploratory VERDE GALLUP
11. County or Parish, and State SAN JUAN COUNTY, NM

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator BRIDGECREEK RESOURCES COLO LLC Contact: CHRISTINE CAMPBELL E-Mail: ccampbell@palomarnr.com	
3a. Address 8100 SOUTHPARK WAY, SUITE A1 LITTLETON, CO 80127	3b. Phone No. (include area code) Ph: 303-668-8318
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T31N R14W NWSE 1980FSL 1980FEL 36.884645 N Lat, 108.330312 W Lon	

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.)

Bridgocreek Resources (CO), LLC respectfully submits the proposed chemical list for the frac on the Harris Hawk 20-1 for approval.

We have not finalized negotiations with a vendor (Halliburton and Baker Hughes), but 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 frac to begin mid-March 2015, weather dependent.

ACCEPTED FOR RECORD

MAR 19 2015

By: *Dg*
Tres Rios Field Office
Bureau of Land Management

OIL CONS. DIV DIST. 3

MAR 30 2015

14. I hereby certify that the foregoing is true and correct. Electronic Submission #293338 verified by the BLM Well Information System For BRIDGECREEK RESOURCES COLO LLC, sent to the Durango Committed to AFSS for processing by BARBARA TELECKY on 03/04/2015 (15BDT0145SE)	
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 ****

NMOCD



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

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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.

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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)

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

Notes:null

Water Frac G 20#/ 52500.0 (Gal)

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

Notes:null

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

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