

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

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OCT - 4 2017

SUNDRY NOTICES AND REPORT OF WELLS

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Operator Scout Energy Management, LLC
Address 4901 LBJ Freeway, Suite 300
City Dallas State TX Zip Code 75244
Telephone 972-325-1027 Fax

Lease Name: FEE-BR

Type (Private/State/Federal/Tribal/Allotted): PRIVATE

Well Number: 2377

Location of well (1/4-1/4 section and footage measurements):
SW, NW, 2621' FNL, 154' FWL
Latitude 46.105 Longitude -104.099

Unit Agreement Name: 8B

Field Name or Wildcat: CEDAR CREEK

Township, Range, and Section: T4N, R61E, Sec 13

API Number:
25 | **025** | **22271**
State County Well

Well Type (oil, gas, injection, other):
GAS

County: FALLON

Indicate below with an X the nature of this notice, report, or other data:

| | | | |
|---|-------------------------------------|--|--------------------------|
| Notice of Intention to Change Plans | <input type="checkbox"/> | Subsequent Report of Mechanical Integrity Test | <input type="checkbox"/> |
| Notice of Intention to Run Mechanical Integrity Test | <input type="checkbox"/> | Subsequent Report of Stimulation or Treatment | <input type="checkbox"/> |
| Notice of Intention to Stimulate or to Chemically Treat | <input checked="" type="checkbox"/> | Subsequent Report of Perforation or Cementing | <input type="checkbox"/> |
| Notice of Intention to Perforate or to Cement | <input checked="" type="checkbox"/> | Subsequent Report of Well Abandonment | <input type="checkbox"/> |
| Notice of Intention to Abandon Well | <input type="checkbox"/> | Subsequent Report of Pulled or Altered Casing | <input type="checkbox"/> |
| Notice of Intention to Pull or Alter Casing | <input type="checkbox"/> | Subsequent Report of Drilling Waste Disposal | <input type="checkbox"/> |
| Notice of Intention to Change Well Status | <input type="checkbox"/> | Subsequent Report of Production Waste Disposal | <input type="checkbox"/> |
| Supplemental Well History | <input type="checkbox"/> | Subsequent Report of Change in Well Status | <input type="checkbox"/> |
| Other (specify) _____ | <input type="checkbox"/> | Subsequent Report of Gas Analysis (ARM 36.22.1222) | <input type="checkbox"/> |
| | <input type="checkbox"/> | | <input type="checkbox"/> |

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

The above listed well will be perforated and hydraulic fractured.
Estimated total volume of treatment: Clean Foam/Clean Fluid - 14,333 gallons, N2 - 58,194 scf, Surface Slurry - 151 bbls
Estimated volume of principal components: 4,300 gallons
Estimated weight or volume of inert substances for well cleanup: 102 bbls
Maximum anticipated treating pressure: 380 psi
The description of fracturing fluids that will be used is attached to this form.
The well will be perforated in zone 1: 682' - 692'. A bridge plug will also be set at 710' to shut off the Eagle Perforations and only produce from the Judith River.

The undersigned hereby certifies that the information contained on this application is true and correct:

10-2-17 

Date Signed (Agent)
Tee Brown, Sr. Regulatory Specialist

Print Name and Title

Telephone: 972-325-1027

BOARD USE ONLY

Approved OCT 05 2017
Date



CHIEF FIELD INSPECTOR

Name Title

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION
BOARD OF OIL AND GAS CONSERVATION



STEVE BULLOCK, GOVERNOR

OIL AND GAS CONSERVATION DIVISION

STATE OF MONTANA

CONDITIONS OF APPROVAL

1. Fracturing Rules 36.22.1106

2. Field Inspector must be notified at least **24 hours** in advance of the start of fracture stimulation operations. Please contact Glendive District Inspector Clay Mercier (406) 698-4832

3. (a) New and existing wells which will be stimulated by hydraulic fracturing must demonstrate suitable and safe mechanical configuration for the stimulation treatment proposed.

(b) Prior to initiation of fracture stimulation, the operator must evaluate the well. If the operator proposes hydraulic fracturing through production casing or through intermediate casing, the **casing must be tested to the maximum anticipated treating pressure**. If the casing fails the pressure test it must be repaired or the operator must use a temporary casing string (fracturing string).

(c) If the operator proposes hydraulic fracturing through a fracturing string, it must be stung into a liner or run on a packer set not less than 100 feet below the cement top of the production or intermediate casing and must be tested to not less than maximum anticipated treating pressure minus the annulus pressure applied between the fracturing string and the production or immediate casing.

(d) A casing pressure test will be considered successful if the pressure applied has been held for 30 minutes with no more than ten percent pressure loss.

(e) A **pressure relief valve(s)** must be installed on the treating lines between pumps and wellhead to limit the line pressure to the test pressure determined above; the well **must be equipped with a remotely controlled shut-in device** unless waived by the board administrator should the factual situation warrant.

(f) The **surface casing valve must remain open** while hydraulic fracturing operations are in progress; the annular space between the fracturing string and the intermediate or production casing must be monitored and may be pressurized to a pressure not to exceed the pressure rating of the lowest rated component that would be exposed to pressure should the fracturing string fail.

DIVISION OFFICE
1625 ELEVENTH AVENUE
PO BOX 201601
HELENA, MONTANA 59620-1601
(406) 444-6675

TECHNICAL AND
SOUTHERN FIELD OFFICE
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102-4693
(406) 656-0040

NORTHERN FIELD OFFICE
201 MAIN STREET
PO BOX 690
SHELBY, MONTANA 59474-0690
(406) 434-2422

025-22271

DEPARTMENT OF NATURAL RESOURCES
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STEVE BULLOCK, GOVERNOR

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4. 36.22.1010 Work-Over, Recompletion, Well Stimulation

(1) No well may be reperfored, recompleted, reworked, chemically stimulated, or hydraulically fractured without first notifying the board on Form No. 2 and receiving approval from the administrator or other authorized representative of the board. **Within 30 days following completion of the well work, a subsequent report of the actual work performed must be submitted on Form No. 2.**

(2) Well repairs, including tubing, pump, sucker rod replacement or repair, repairs and reconfiguration of well equipment which do not substantially change the mechanical configuration of the well bore or casing, and hot oil treatments do not require prior approval or a subsequent report. Acid and chemical treatments of less than 10,000 gallons and similar treatments intended to clean perforations, remove scale or paraffin, or remedy near-well bore damage do not require prior approval, but do require a subsequent report of the actual work performed submitted on Form No. 2 within 30 days following completion of the work.

If you have any questions, please contact Chief Field Inspector David Popp at 406-656-0040.

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Baker 2377

Spud 05/24/2004
Completed 06/25/2004
API 25-025-22271
EAC 10/03/2017

CURRENT COMPLETION

KB: 3101' (6')
GL: 3095'
DF:

2621' FNL & 154' FWL
SW-NW, Sec. 13, T4N, R61E
Fallon, MT

Cum Production thru 08/30/2017
0 BO 492,474 MCF 569 BW

7" (Hole 9.875"), H-40/8 RND 17#/FT
@ 160' w/ 75 sacks w/ 3.5 barrels returned
TOC @ surface - circ

Proposed Tubing: 672' +/- of 1.75" X 1.0" polytube HDPE
for velocity string
Proposed Composite Bridge Plug: 710'

Judith River: 678'-790'
Proposed Perfs:
682'-692'
Judith River:
730'-740' 4 spf (03/06)
frac w/ 43000# 12/20 sand, N2, 9% KCL (03/06)

TBG: LAST PULLED 09/17/2014
1350' of 1.75" X 1.0" polytube HDPE
for velocity string.

Eagle: 1091'-1511'

Eagle:
1480'-1490' 4 spf (06/04)
1310'-1320' 4 spf (06/04)
1210'-1220' 4 spf (06/04)
frac w/ 43000# 12/20 sand, N2 (06/04)
frac w/ 43000# 12/20 sand, N2 (06/04)
frac w/ 43100# 12/20 sand, N2 (06/04)

4.5" (Hole 6.25"), J-55 10.5#/FT
@ 1881' w/ 40 sacks lead and 160 sacks tail
w/ 4.5 barrels returned
TOC @ surface - circ
Short Joint @ 1094.5'-1124.5' & 1163'-1193'

PBTD - 1852'
TD - 1900'

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Scout

Basic Energy Services

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Mass per Component (LBS) | Maximum Ingredient Concentration in HF Fluid (% by mass)** |
|----------------------|----------------------|--|-------------------------------------|--|--|--------------------------|--|
| Water | CUSTOMER | BASE FLUID | WATER | 7732-18-5 | 100.00% | 119394 | 68.704998% |
| FRAC SAND (ALL MESH) | PROPPANT SPECIALTIES | PROPPANT | CRYSTALLINE SILICA | 14808-60-7 | 100.00% | 45000 | 25.895169% |
| CL-58 | QUEST | LIQUID KCL REPLACEMENT | CHOLINE CHLORIDE | 67-48-1 | 100.00% | 80 | 0.046145% |
| GEL-100 | Hercules | FRAC GEL | carboxymethyl 2-hydroxypropyl ether | 68130-15-4 | 100.00% | 100 | 0.057545% |
| WF-3 | EES | FOAMER | METHANOL | 67-56-1 | 50.00% | 82 | 0.046957% |
| | | | 2-BUTOXYETHANOL | 111-76-2 | 50.00% | 82 | 0.046957% |
| BIO-II | WEATHERFORD | BIOCIDES | 2,2-dibromo-3-nitropropionamide | 10222-01-2 | 100.00% | 2 | 0.001151% |
| BREAKER-503L | EES | LIQUID ENZYME BREAKER | SURCOSE | 57-50-1 | 50.00% | 1 | 0.000768% |
| | | | ETHYLENE GLYCOL | 107-21-1 | 50.00% | 1 | 0.000768% |
| GB-3 | UNIVAR | AMMONIUM PERSULFATE/ OXIDATIVE BREAKER | Ammonium Persulfate | 7727-54-0 | 100.00% | 1 | 0.000575% |
| GB-3 (Encap) | CHEMPLEX | ENCAPSULATED OXIDATIVE BREAKER | POTASSIUM PERSULFATE | 7727-21-1 | 50.00% | 1 | 0.000575% |
| | | | SILICA | 14808-60-7 | 50.00% | 1 | 0.000575% |
| S-3 | EES | SURFACTANT | WATER | 7732-18-5 | 92.00% | 30 | 0.017280% |
| | | | SODIUM CARBONATE | 497-19-18 | 4.00% | 1 | 0.000751% |
| | | | PROTEOLYTIC ENZYME | 9014-01-1 | 0.01% | 0 | 0.000002% |
| | | | LINEAR ALKYL BENZENE SULFONATE | 68081-81-2 | 1.50% | 0 | 0.000282% |
| | | | PRIMARY C14-15 ALCOHOL SULFATE | 68081-98-1 | 1.00% | 0 | 0.000188% |
| | | | ALCOHOL ETHER SULFATE | 68585-34-2 | 0.50% | 0 | 0.000094% |
| | | | D-LIMONENE | 94266-47-4 | 1.00% | 0 | 0.000188% |
| KCL | UNIVAR | CLAY CONTROL/ KCL | POTASSIUM CHLORIDE | 7447-40-7 | 100.00% | 9000 | 5.179034% |

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8/14/2017

Mel Hicks
Scout Energy Partners
4901 Lbj Freeway, Ste 300
Dallas, Tx 75244

Thank you for the opportunity to present the following treatment proposal. This recommendation is submitted for your consideration.

Well Data

Casing: 4 1/2 in 10.5 lb/ft, J-55
Tubing: None

| Stage Info | Stage 1 |
|--------------------|--------------|
| Formation: | JUDITH RIVER |
| Packer/ EOT Depth: | |
| TVD: | 800 |
| Perf. Top: | 730 |
| Perf. Btm: | 740 |
| SPF: | 2 |
| Total Shots: | 100 |
| Perf Diam: | 0.4 |
| Bht (deg F) | 100 |
| Frac Gradient: | 0.9 |

Treatment Summary

| | |
|-------------------------------|----------------|
| Primary Fluid SpGr: | 1.01 |
| Treat Via: | Casing |
| Primary Fluid Type: | 25-35# MavFrac |
| CO2 (y/n): | No |
| Estimated Treat psi: | 380 |
| Estimated Perf Fric (psi): | 3 |
| Acid Volume (gls): | |
| Total Clean Fluid/Foam (gls): | 14,333 |
| Pad Volume (gls): | 3,000 |
| SLF Volume (gls): | 10,333 |
| Estimated Flush Volume (gls): | 489 |
| Proppant Volume (lbs): | 45,000 |
| Estimated Pump Time (min): | 26.0 |

*NOTE: Total clean fluid/foam volume does not include flush volume.

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