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Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION  
2535 ST. JOHNS AVENUE  
BILLINGS, MONTANA 59102**

MONTANA BOARD OF OIL &  
GAS CONSERVATION • BILLINGS

**SUNDRY NOTICES AND REPORT OF WELLS**

Operator <b>Highlands Natural Resources</b>		Lease Name: <b>Helios 5-52</b>
Address <b>2401 E 2nd Ave, Suite 150</b>		Type (Private/State/Federal/Tribal/Allotted): <b>State</b>
City <b>Denver</b>	State <b>CO</b>	Well Number: <b>16-22</b>
Zip Code <b>80206</b>		Unit Agreement Name:
Telephone <b>303-322-1066</b>	Fax	Field Name or Wildcat: <b>Wildcat</b>
Location of well (1/4-1/4 section and footage measurements): <b>Township 5N, Range 52E, Section 16: SE¼NW¼ 2065' FNL &amp; 1840' FWL</b>		Township, Range, and Section: <b>Section 16, T5N, R52E</b>
API Number: <b>25   017   21177</b>	Well Type (oil, gas, injection, other): <b>Gas</b>	County: <b>Custer</b>
State <b>CO</b>	County	Well

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"/>

State **CO**

**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.

**Please see Attached**

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

11/30/2017  
Date

  
Signed (Agent)

**Stephen Miller**  
Print Name and Title

Telephone: **361-230-9375**

**BOARD USE ONLY**

Approved **DEC 06 2017**  
Date

  
Name

**Petroleum Engineer**  
Title

**SUPPLEMENTAL INFORMATION**

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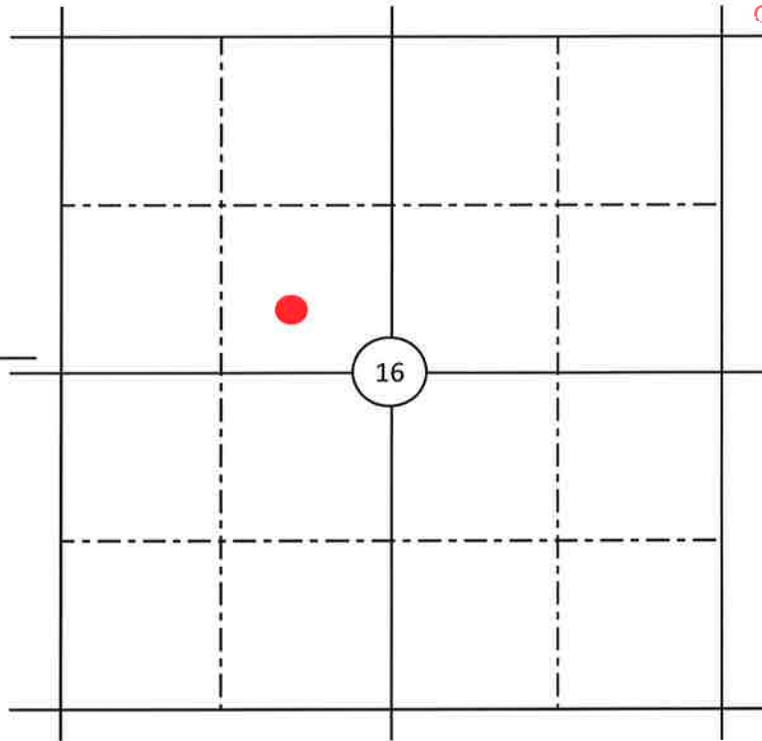
**MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS**

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.

Range 52E

NOT APPROVED  
Township 5N



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**CONDITIONS OF APPROVAL**

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

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Highlands Natural Resources

Recomplete Eagle Shale

Helios 5-52 16-22

Custer County, Montana

API#: 25-017-21177

KB: 2,686'

GL: 2,675'

Surface Location: 2065' FNL & 1840 FWL (SENW) Section 16 T5N R52E

BH Location: Same as Above

Spud Date: 9/18/2016

Rig Release:

Current Perforations:

Surface Casing: 9 5/8", 36 lb/ft @ 2,110', Cemented with 732 sacks of Class C Cement

TOC @ Surface,

Production Casing: 7", 26lb/ft, P-110 @ 5,289', Cemented with 695 Sacks Class G Cement

TOC @ 2,110'

St:

Production Tubing: 3 1/2", 9.3 lb/ft, L-80 @ 4,714.65'

**Summary:**

The purpose of this procedure is to outline the recompletion of the Helios 5-52 16-22 [HELIOS] well in the Eagle Shale. Highlands originally attempted to test the Eagle Shale in the Helios 5-52 16-32 [EAGLE] well but the EAGLE well was eventually P&A'd after a tool failure.

The HELIOS was drilled to test the stratigraphic potential in the region with key objectives of identifying likely injection zones, Helium presence in the Muddy formation, and any additional zones with commercial potential. Highlands will now recomplete the HELIOS by isolating the Muddy formation, then perforating three stratigraphic benches of interest in the Eagle formation. Highlands will fracture stimulate each of these benches in sequence. After fracture stimulation the HELIOS will be flow tested to determine the productivity from these benches of the Eagle formation.

**Notes:**

- Notice must be provided to the State of Montana Via a Form 2 of the Recompletion prior to the start of operations.
- Within 30 days following completion of the well work, a subsequent report of the actual work performed must be submitted on a Form 2.
- All water for operations on this well should be 10% KCl.

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- 1) MIRU WO Rig
- 2) ND WH/NU BOP
- 3) POOH with 3 1/2" tubing and submersible pump, LD submersible pump
  - a. Coordinate with Summit ESP for a field tech to pull the pump and return pump to yard for storage as inventory
- 4) PU 7" bit and Scraper, RIH to +/- 2,800'
- 5) POOH with tubing, bit and scraper, laying down.
- 6) RIH with 7" CIBP and set @ 2,800'. Dump 5 Sks of cement on top of plug.
- 7) Pressure Test Casing to 3,000 psi, chart pressure test and send to Denver Office.
- 8) ND BOP/NU 2 - 5K X 7" manual valve, flow cross, and 3" 1502 adapter. Pressure test stack to 3,000 psi.
- 9) MIRU WL Unit
- 10) RIH With Compensated Neutron Density Cased Hole log, Log well from CIBP to Surface Casing @ 2,095'
  - a. Send Log into Denver office to finalize perms
- 11) PU and RIH to perforate from 2,600 – 2,610', utilizing a 4 1/2" gun, 6 spf, 0.44" EHD, 62.90 penetration, 39.0 gram charge. Total of 60 holes.
- 12) RDMO WL Unit and wait for frac date.
- 13) Set 2 - 500 BBL Frac Tanks for Frac Water, mix frac tanks with 10% KCl.
  - a. NOTE: Heat tanks to 90 Degrees the morning of the frac job.
- 14) Set 1- 500 BBL Frac Tank for stage 1 water transfer
- 15) MIRU Frac Service company and WL unit with 5,000 psi lubricator, BOPS, crane, and flowback manifold.
- 16) Pressure Test all iron to 3,000 psi.
- 17) Initiate Stage 1 pump in, pump @ 20-30 BPM until pit level no longer allows for water transfer.
  - a. NOTE: Pit contains roughly 200,000 BBLs
- 18) RIH and set plug 7" CIBP @ 2,550'. PU and perforate Stage 2 from 2,330 – 2,340', utilizing a 4 1/2" gun, 6 spf, 0.44" EHD, 62.90 penetration, 39.0 gram charge. Total of 60 holes.
- 19) Frac Stage 2 as per frac company Design, 90,000 Lbs of Sand, and 860 BBLs of 70 Quality Fluid.
- 20) RIH and set plug 7" CFP @ 2,320'. PU and perforate Stage 3 from 2,260 – 2,270' utilizing a 4 1/2" gun, 6 spf, 0.44" EHD, 62.90 penetration, 39.0 gram charge. Total of 60 holes.
- 21) Frac Stage 3 as per frac company Design, 45,000 Lbs of Sand, and 476 BBLs of 70 Quality Fluid.
- 22) RIH and set plug 7" CIBP @ 2,200'.
- 23) MIRU WO Rig
- 24) ND Frac Stack/NU BOP
- 25) PU 2 3/8" 4.7 lb/ft J-55 tubing and 6" Bit
- 26) RIH with 6" Bit, DO CIBP @ 2,200', control well with 15% KCl water. Continue in hole and drillout CFP @ 2,320' clean out to CIBP @ 2550'. Circulate hole clean. POOH.
- 27) RIH with 2 3/8" X 7" Arrowset AS-1X Packer and 2 3/8", 4.7 lb/ft J-55 tubing. Set packer @ 2,250' KB. Land TBG.

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- 28) ND BOP NU WH
- 29) RDMO WO Rig.
- 30) Turn Well Over to Production.

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Well Bore Diagram

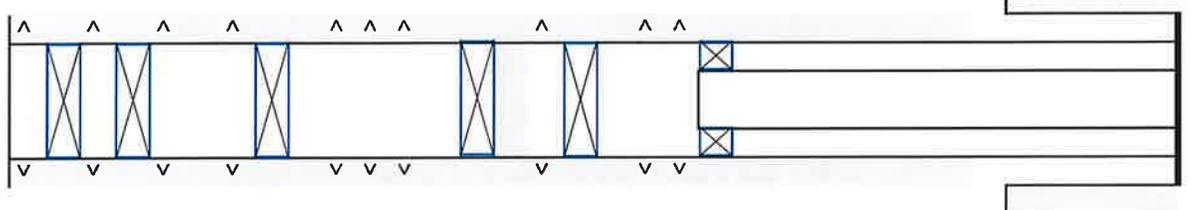
Highlands  
Helios  
SE

Highlands Natural Resources  
Helios 5-52 16-22  
SEMW Section 16 T5N R52E  
2065 FNL & 1840 FWL  
Custer County, MT  
API # 25-017-21177

KB: 2685.8  
GL: 2674.8

Surface Hole: 12 1/4"  
TOC @ 2,110' (CBL)

9 5/8", 36#, J-55 Casing Set @ 2095'.  
Cemented with 732 Sacks Class C, TOC @ Surface. (9/19/16)



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Muddy Formation:  
Treated with 9,000 Gals  
HCl Acid

- 2 3/8", 4.7lb/ft, J-55 Production tubing with 7" Arrowset AS-1X Production Packer @ 2,250' (KB)
- 2260 - 2270', 6 spf, 60 holes, 0.44" EHD, 60 Degree Phasing -Eagle Shale
- 2330 - 2340', 6 spf, 60 holes, 0.44" EHD, 60 Degree Phasing -Eagle Shale
- CIBP @ 2,550'
- 2600 - 2610', 6 spf, 60 holes, 0.44" EHD, 60 Degree Phasing -Eagle Shale
- CIBP @ 2,800'
- 4573 - 4579', 6 spf, 36 holes, 0.36" EHD, 60 Degree Phasing - Muddy Formation
- 4579 - 4585', 6 spf, 36 holes, 0.36" EHD, 60 Degree Phasing - Muddy Formation
- 4591 - 4601', 6 spf, 60 holes, 0.36" EHD, 60 Degree Phasing - Muddy Formation
- CIBP @ 4,910'
- 4925 - 4935', 6 spf, 60 holes, 0.36" EHD, 60 Degree Phasing - Dakota Formation
- 4958 - 4968', 6 spf, 60 holes, 0.36" EHD, 60 Degree Phasing - Dakota Formation
- CIBP @ 5,000'
- 5121 - 5125', 6 spf, 24 holes, 0.36" EHD, 60 Degree Phasing - Kootenai Formation
- CIBP @ 5,140'
- 5221.1 - 5225.1, 6 spf, 24 holes, 0.36" EHD, 60 Degree Phasing - Lakota Formation
- 7", 26#, P-110 Casing Set @ 5,289'
- Cemented with 695 Sacks Class G, TOC @ 2,110'

Production Hole: 8 3/4"

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Well Bore Diagram

Inds:

5-52

Highlands Natural Resources

Helios 5-52 16-22

SENN Section 16 T5N R52E

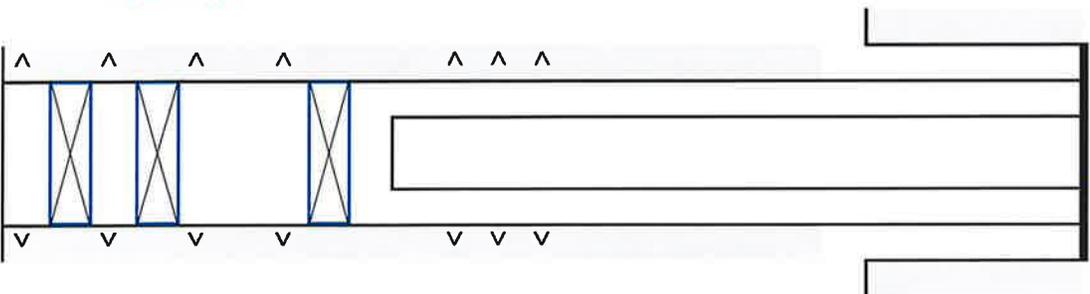
2065 FNL & 1840 FWL

Custer County, MT

API # 25-017-21177

KB: 2685.8  
GL: 2674.8

Surface Hole: 12 1/4"  
TOC @ 2,110' (CBL)



9 5/8", 36#, J-55 Casing Set @ , 2095'.  
Cemented with 732 Sacks Class C, TOC @ Surface. (9/19/16)

Muddy Formation:  
Treated with 9,000 Gals  
HCl Acid

4573 - 4579', 6 spf, 36 holes, 0.36" EHD, 60 Degree Phasing - Muddy Formation  
4579 - 4585', 6 spf, 36 holes, 0.36" EHD, 60 Degree Phasing - Muddy Formation  
4591 - 4601', 6 spf, 60 holes, 0.36" EHD, 60 Degree Phasing - Muddy Formation  
Tubing - 3 1/2", 9.3#, L-80 @ 4,714.65'

CIBP @ 4,910'  
4925 - 4935', 6 spf, 60 holes, 0.36" EHD, 60 Degree Phasing - Dakota Formation

4958 - 4968', 6 spf, 60 holes, 0.36" EHD, 60 Degree Phasing - Dakota Formation

CIBP @ 5,000'  
5121 - 5125', 6 spf, 24 holes, 0.36" EHD, 60 Degree Phasing - Kootenai Formation  
CIBP @ 5,140'

5221.1 - 5225.1', 6 spf, 24 holes, 0.36" EHD, 60 Degree Phasing - Lakota Formation  
7", 26#, P-110 Casing Set @ 5,289'  
Cemented with 695 Sacks Class G, TOC @ 2,110'

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Production Hole: 8 3/4"

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12/1/2017

Ben Jones  
Montana Board of Oil & Gas  
2535 St. Johns Ave  
Billings, MT 59102

**RE: Well Stimulation Disclosure**

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Mr. Jones:

Highlands Natural Resources intends to pump three stimulation treatments into the Eagle Formation on our Helios 5-52 16-22 (API# 25-017-21177) well in Custer County. The treatment will be performed by Basic Energy Services using their 25# MavFoam 70 fluid system.

The wellbore consists of 7", 26 lb/ft, P-110 Casing with an 80% burst rating of 7,960 psi. The well head is rated to 5,000 psi. Highlands will impose a maximum 3,000 psi surface pressure rating for all fracture stimulation activities.

The stage one fracture stimulation will target a lower interval of the Eagle formation and will consist of no more than 14,400 bbls of fresh water with only biocide and no proppant.

Stage 2 will consist of 1,446 bbls of 70Q N2 25ppt CMHPG Foam (318 bbls clean fluid, 930 MSCF N2), carrying 90,000 lbs of proppant.

Stage 3 will consist of 1,065 bbls of 70Q N2 25ppt CMHPG Foam (204 bbls clean fluid, 710 MSCF N2), carrying 45,000 lbs of proppant.



**Proposed Total Chemical and Proppant Volumes**

CL-57, Liquid Kcl Replacement	197.0	Gal
GEL-100, CMHPG Gel	550.0	Lb
WF-1, Foamer	110.0	Gal
S-3, Surfactant	22.0	Gal
BREAKER-503L, Liquid Enzyme Breaker	3.0	Qt
GB-3, Oxidative Breaker	7.0	Lb
GB-3 (Encap), Encapsulated Oxidative Breaker	11.0	Lb
BIO-II, Dry Biocide	9.0	Lb
CL-58, Liquid Kcl Replacement	197.0	Gal
BIO-I, Liquid Biocide	151.0	Gal
N2, Nitrogen	18,898.6	SCF
SAND, 12/20 Brown	1,350.0	Cwt

Respectfully,

**Stephen Miller**

Vice President of Operations

p. (361) 230-9375

e. [stephen.miller@highlandsnr.com](mailto:stephen.miller@highlandsnr.com)

w. [www.highlandsnr.com](http://www.highlandsnr.com)

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BASIC ENERGY SERVICES  
 HIGHLANDS NATURAL RESOURCES  
 HELIOS 5-52 16-22

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%	233357	54.245407%
FRAC SAND (ALL MESH)	PROPPANT SPECIALTIES	PROPPANT	CRYSTALLINE SILICA	14808-60-7	100.00%	135000	31.381711%
CL-57	EES	LIQUID KCL REPLACEMENT	WATER T-MAC METHANOL	773-18-2 75-57-0 67-56-1	34.00% 33.00% 33.00%	662 642 642	0.153842% 0.149318% 0.149318%
S-3	EES	SURFACTANT	WATER SODIUM CARBONATE PROTEOLYTIC ENZYME LINEAR ALKYL BENZENE SULFONATE PRIMARY C14-15 ALCOHOL SULFATE ALCOHOL ETHER SULFATE D-LIMONENE	7732-18-5 497-19-18 9014-01-1 68081-81-2 68081-98-1 68585-34-2 94266-47-4	92.00% 4.00% 0.01% 1.50% 1.00% 0.50% 1.00%	188 8 0 3 2 1 2	0.043628% 0.001897% 0.000005% 0.000711% 0.000478% 0.000297% 0.000478%
WF-1	EES	FOAMER (SPECIAL COAL)	METHANOL	67-56-1	52.00%	555	0.119106%
BREAKER-303L	EES	LIQUID ENZYME BREAKER	2-BUTOXETHANOL SUCROSE	111-76-2 57-50-1	48.00% 50.00%	513 5	0.119175% 0.001241%
GB-3	UNIVAR	AMMONIUM PERSULFATE/OXIDATIVE BREAKER	ETHYLENE GLYCOL	107-21-1	50.00%	5	0.001241%
GB-3 (Encap)	CHEMPLEX	ENCAPSULATED OXIDATIVE BREAKER	Ammonium Persulfate POTASSIUM PERSULFATE	7727-54-0 7727-31-1	100.00% 50.00%	8 7	0.0018606% 0.001511%
BID-II	WEATHERFORD	BIOCIDE	2,2-dibromo-3-nitropropanamide	14808-60-7	50.00%	7	0.001511%
N2	AIR LIQUIDE	NITROGEN	NITROGEN	10222-01-2	100.00%	10	0.002325%
GEL-100	Hercules	FRAC GEL	carboxymethyl 2-hydroxypropyl ether	7727-37-9 68130-15-4	100.00% 100.00%	57920 650	13.483916% 0.151097%

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# MONTANA SAGE GROUSE HABITAT CONSERVATION PROGRAM



STEVE BULLOCK, GOVERNOR

1625 ELEVENTH AVENUE

STATE OF MONTANA

PHONE: (406) 444-6554  
FAX: (406) 444-6721

PO BOX 201601  
HELENA, MONTANA 59620-1601

Project No. 2640 (Original Project No. 1471625283422)  
Governor's Executive Orders 12-2015 and 21-2015  
HMC well recompletion work

Eric Anderson  
Highlands Natural Resources  
220 Josephine, Suite No. 200  
Centennial, CO 80206

December 6, 2017

Dear Mr. Anderson,

The Montana Sage Grouse Habitat Conservation Program received a request for consultation and review of your project or proposed activity on November 4, 2017. Based on the information provided, all or a portion of this project is located within General Habitat for sage grouse. The Bureau of Land Management (BLM) classifies this area as a General Habitat Management Area (GHMA).

The original project (Project No. 1471625283422) was reviewed and a Program letter sent on September 9, 2016. That work was completed and included building a pad, drilling a well, and construction of a new gravel access road and evaporation pond. Once the well was drilled the proponent began gathering data to determine if the well was viable for commercial production. Here, the proponent is planning to collect that data to determine if the well is commercially viable or not.

Executive Orders 12-2015 and 21-2015 set forth Montana's Sage Grouse Conservation Strategy. Montana's goal is to maintain viable sage grouse populations and conserve habitat so that Montana maintains flexibility to manage our own lands, our wildlife, and our economy and a listing under the federal Endangered Species Act is not warranted in the future.

The Program has completed its review, including:

## Project Description:

**Project Type:** Energy – Oil/Gas

**Project Disturbance:** 0 Acres

**Construction Timeframe:** December, 2017 to December, 2017, Temporary (< 1 Year)

**Disturbance Timeframe:** December, 2017 to May, 2018, Temporary (< 1 Year)

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Director's Office: (406) 444-2074



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**Project Location:**

**Legal:** Township 5 North, Range 52 East, Section 16

**County:** Custer

**Ownership:** State Trust Land

**Executive Orders 12-2015 and 21-2015 Consistency:**

The project proposes to perform recompletion work on an existing exploratory gas well on State Trust Land in designated General Habitat for sage grouse.

As described in the original Program review letter, the proponent drilled the well to determine if it is viable for commercial production. Here, the proponent seeks Program review for permission to proceed with further tests on the well from the Montana Board of Oil and Gas.

To complete these tests, a workover rig will be used for approximately one week, and work will be completed between December 6, 2017 and December 13, 2017. This ensures that this activity will occur well outside of Executive Order 12-2015 (EO) seasonal timing stipulations. All work will be done within the existing well hole, and no other surface disturbance, construction, or other types of activity will occur for this project. Any actions taken based on these tests will be completed within the next six months.

Should the well prove viable, the proponent will return to the Program for additional consultation on the follow-up actions needed to complete the productive well site. Some additional equipment will be moved onto the existing pad, and at that time, the proponent will apply for an injection well permit allowing any produced water to be injected back into the ground. The evaporation pond would then be reclaimed. The Program thanks the proponent for their willingness to observe the EO seasonal timing stipulations for any future work, and we look forward to reviewing any further plans for this well site.

If the well does not prove commercially viable, the proponent will return to the Program for additional consultation for this phase of the project. Plug and abandon activities involve cutting off the pipe about four feet below the ground and capping it. The cap is then buried and the surface of the site is reclaimed to its previous grade and original contours. To accomplish this task, machinery is generally on site for a few days. The site will then be reclaimed with vegetation upon completion of the plugging and contouring procedures. Once the wells are plugged and abandoned, resumption of production will require initiation of a new permitting process through the respective state agencies. Consultation with the Sage Grouse Habitat Conservation Program would be required at that time.

Reclamation should re-establish native grasses, forbs, and shrubs. The goal of reclamation is to achieve cover, species composition, and life form diversity commensurate with the surrounding plant community or desired ecological condition to benefit sage grouse and replace or enhance sage grouse habitat to the degree that environmental conditions allow.



Based on the information you provided, your project is within two miles of an active sage grouse lek.

**Recommendations:**

These stipulations are designed to maintain existing levels of suitable sage grouse habitat by managing uses and activities in sage grouse habitat to ensure the maintenance of sage grouse abundance and distribution in Montana. Development should be designed and managed to maintain populations and sage grouse habitats.

- Weed management is required within General Habitat for sage grouse. Reclamation of disturbed areas must include control of noxious weeds and invasive plant species, including cheatgrass (*Bromus tectorum*) and Japanese brome (*Bromus japonicas*).

Your activities are consistent with the Montana Sage Grouse Conservation Strategy. Your proposed project or activity may need to obtain additional permits or authorization from other Montana state agencies or possibly federal agencies. They are very likely to request a copy of this consultation letter, so please retain it for your records.

Please be aware that if the location or boundaries of your proposed project or activity change in the future, or if new activities are proposed within one of the designated sage grouse habitat areas, please visit <https://sagegrouse.mt.gov/projects/> and submit the new information.

Thanks for your interest in sage grouse and your commitment to taking the steps necessary to ensure Montana's Sage Grouse Conservation Strategy is successful.

Sincerely,



Carolyn Sime  
Montana Sage Grouse Habitat Conservation Program Manager

cc: Shawn Thomas  
DNRC-Trust Land Management Administrator  
P.O. Box 201601  
Helena, MT 59620-1601

cc: Jim Halverson  
Administrator Montana Board of Oil and Gas  
2635 St. Johns Ave.  
Billings, MT 59102

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cc: John C. Carlson  
Management Zone 1 Greater Sage-Grouse Lead  
Bureau of Land Management  
Montana/Dakotas State Office  
5001 Southgate Drive  
Billings, MT 59101-4669



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Director's Office: (406) 444-2074

