

Submit In Quadruplicate To:

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

**RECEIVED****APR 11 2025****SUNDRY NOTICES AND REPORT OF WELLS****MONTANA BOARD OF OIL &  
GAS CONSERVATION - BILLINGS**Operator **MorningStar Operating LLC**Address **400 W. 7th Street**City **Fort Worth** State **TX** Zip Code **76102**Telephone **817-334-8096** Fax

Location of well (1/4-1/4 section and footage measurements):

NW NW 300' FNL & 300' FWL (Sec. 30-T24N-R58E) **LOT 3**

Lease Name:

Anderson-Dynneson

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

Private

Well Number:

1-30H

Unit Agreement Name:

Field Name or Wildcat:

Wildcat

Township, Range, and Section:

Section 30: T24N-R58E

API Number:

**25** | **083** | **22668**

State County Well

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

Oil

County:

Richland County

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

Notice of Intention to Change Plans ☐Notice of Intention to Run Mechanical Integrity Test ☐Notice of Intention to Stimulate or to Chemically Treat ☐Notice of Intention to Perforate or to Cement ☒Notice of Intention to Abandon Well ☐Notice of Intention to Pull or Alter Casing ☐Notice of Intention to Change Well Status ☐Supplemental Well History ☐Other (specify) Refrac ☒Subsequent Report of Mechanical Integrity Test ☐Subsequent Report of Stimulation or Treatment ☐Subsequent Report of Perforation or Cementing ☐Subsequent Report of Well Abandonment ☐Subsequent Report of Pulled or Altered Casing ☐Subsequent Report of Drilling Waste Disposal ☐Subsequent Report of Production Waste Disposal ☐Subsequent Report of Change in Well Status ☐Subsequent Report of Gas Analysis (ARM 36.22.1222) ☐Subsequent Report of Refrac Operations ☐**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.

Morning Star Operating ("MSO") respectfully submits this Notice of Intent to perform a refrac.

Please find attached (1) MSO's Recompletion Procedure for the Anderson-Dennysen 1-30H, and (2) the Fracturing Fluid Disclosure.

**SEE ATTACHED****CONDITIONS OF APPROVAL****BOARD USE ONLY**Approved **APR 16 2025**

Date

  
Name**Admin/Pet. Engineer**  
Title

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

04/09/2025

Date

  
Signed (Agent)

Holly Wood, Regulatory Analyst

Print Name and Title

Telephone: **817-334-8088**

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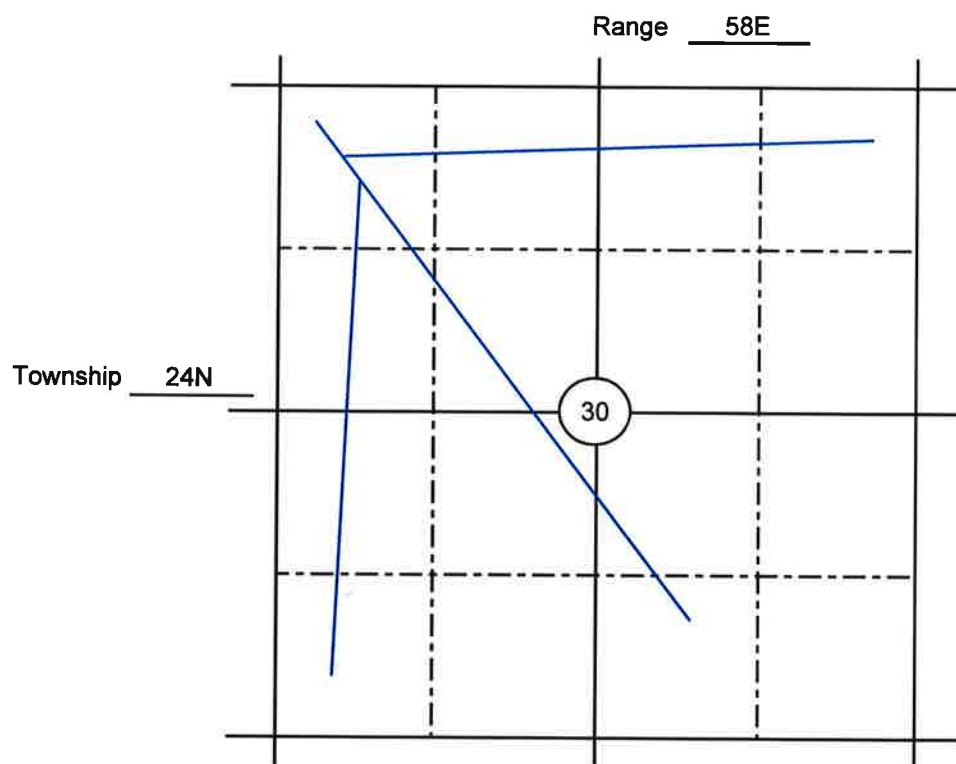
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### SUPPLEMENTAL INFORMATION

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.



#### BOARD USE ONLY

#### 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.

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	8/1/2025
State:	Montana
County:	RICHLAND
API Number:	25-083-22668-00-00
Operator Name:	Morning Star Operating Co
Well Name and Number:	Anderson Dymeson 1-30H
Longitude:	-104.33432200
Latitude:	47.81875400
Long/Lat Projection:	NAD83
Indian/Federal:	none
Production Type:	Oil
True Vertical Depth (TVD):	10800
Total Water Volume (gal):	2728530.0000583166

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## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Ingredient Mass lbs	Comments
Fresh Water	Operator	Base Fluid						Density = 8.34
BE-7	Halliburton	Biocide						
DCA-17008	Halliburton	Acid Corrosion Inhibitor						
DCA-23003	Halliburton	Friction Reducer						
DCA-23010	Halliburton	Friction Reducer						
DCA-26001	Halliburton	Iron Reducing Agent						
DCA-30008	Halliburton	Scale Inhibitor						
DCA-32003	Halliburton	Surfactant						
DCA-32019M	Halliburton	Completion/Stimulation						
HYDROCHLORIC ACID, 28%	Halliburton	Solvent						
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant						
Sand-CRC-40/70	Halliburton	Proppant						
Sand-Premium White-40/70	Halliburton	Proppant						
<b>Ingredients</b>								
			Water	7732-18-5	100.00%	80.58844%	22813108	
			Crystalline silica, quartz	14808-60-7	100.00%	11.35842%	2925000	
			Phenol / formaldehyde resin	9003-35-4	5.00%	0.08824%	22750	
			Ammonium acrylate-acrylamide polymer	28100-47-0	60.00%	0.06355%	18366	
			Hexamethylenetetramine	100-97-0	2.00%	0.03534%	9100	
			Hydrocracked light petroleum distillate	84742-47-8	30.00%	0.03179%	8186	
			Hydrochloric acid	7847-01-0	30.00%	0.01945%	5009	
			Methanol	67-58-1	100.00%	0.01337%	3444	
			Sodium hypochlorite	7681-52-9	30.00%	0.01097%	2800	
			Oxirane, methyl-, polymer with oxirane, ether with D-glucitol	56448-05-9	30.00%	0.00740%	1906	
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	30.00%	0.00740%	1906	
			Sorbitan, mono-8-octadecenoate, (Z)	1338-43-8	5.00%	0.00530%	1385	
			Oleic acid, ethoxylated	9004-86-0	5.00%	0.00530%	1384	
			Sodium chloride	7847-14-5	5.00%	0.00255%	656	
			Amines, polyethylenepoly-, ethoxylated, phosphonomethylated, sodium salts	70900-18-2	5.00%	0.00255%	656	
			Sodium hydroxide	1310-73-2	5.00%	0.00181%	487	
			Alcohols, C12-16, ethoxylated	68551-12-2	1.00%	0.00106%	273	
			Poly(oxy-1,2-ethanediyl), a-hydroxy-hydroxy-, ether with D-glucitol, tetra-(9Z)-9-octadecenoate	61723-83-9	1.00%	0.00106%	273	
			Amines, tallow alkyl, ethoxylated	61791-28-2	1.00%	0.00106%	273	
			Alcohols, C12-14-secondary, ethoxylated	84133-50-6	1.00%	0.00106%	273	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61780-12-3	30.00%	0.00025%	85	
			Thioureas, polymer with formaldehyde and 1-phenylethanone	68527-49-1	30.00%	0.00025%	85	
			Diethanolamine	111-42-2	1.00%	0.00025%	64	
			Glycine, n,n-bis(2-bis(carboxymethyl)amino)ethyl-, pentasodium salt	140-01-2	0.10%	0.00011%	28	
			Sodium bisulfite	7631-90-5	0.10%	0.00011%	28	
			Formaldehyde	50-00-0	0.10%	0.00005%	14	
			Hexadecene	628-73-2	5.00%	0.00004%	11	
			Propargyl alcohol	107-19-7	5.00%	0.00004%	11	
			Alcohols, C14-C15, ethoxylated	68951-67-7	5.00%	0.00004%	11	
			Hydroxylamine hydrochloride	5470-11-1	60.00%	0.00001%	4	
			Citric acid	77-92-9	60.00%	0.00001%	4	
			Acrylamide, sodium acrylate polymer	25987-30-8	30.00%	0.00001%	3	
			Acrylamide	79-06-1	0.01%	0.00001%	3	
			Ethylene oxide	75-21-8	0.01%	0.00001%	3	
			2-Propenoic acid, ammonium salt (1:1)	10804-69-0	0.01%	0.00001%	3	
			Benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine	68584-25-8	10.00%	0.00000%	1	
			Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine	68584-24-7	10.00%	0.00000%	1	
			Sodium diacetate	126-96-5	5.00%	0.00000%	1	
			Sorbitan monooleate	9005-65-6	5.00%	0.00000%	1	
			polyoxyethylene derivative	78330-21-9	5.00%	0.00000%	1	
			Ethoxylated branched C13 alcohol	7631-66-9	5.00%	0.00000%	1	
			Silica, amorphous - fumed	88648-87-3	1.00%	0.00000%	1	
			Benzene, C10-16 alkyl derivatives	7376-31-0	1.00%	0.00000%	1	
			Bis(tris(hydroxyethyl)ammonium) sulphate	7447-39-4	1.00%	0.00000%	1	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%.

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

## MONTANA BOARD OF OIL AND GAS ATTACHMENT TO FORM 2 "CONDITIONS OF APPROVAL"

A. Field Inspector must be notified at least **24 hours** in advance of the start of fracture stimulation operation.

### **B. 36.22.1106 SAFETY AND WELL CONTROL REQUIREMENTS – HYDRAULIC FRACTURING**

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

(2) 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).

(a) **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.**

(3) 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.

(4) 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.

(5) **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.

History: 82-11-111, MCA; IMP, 82-11-111, MCA; NEW, 2011 MAR p. 1686, Eff. 8/26/11.

### **C. 36.22.1010 WORK-OVER, RECOMPLETION, WELL STIMULATION – NOTICE AND APPROVAL**

(1) Within 30 days following completion of the well work, a subsequent report of the actual work performed must be submitted on Form No. 2.