

RECEIVED**AUG 07 2026**

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 MorningStar Operating LLC		Lease Name: Great White
Address 400 W. 7th Street		Type (Private/State/Federal/Tribal/Allotted): Private
City Fort Worth	State TX	Zip Code 76102
Telephone 817-334-8088		Fax
Location of well (1/4-1/4 section and footage measurements): SESW 334' FSL & 2222' FWL (Sec. 23-T22N-R59E)		Well Number: 23-10-1H
		Unit Agreement Name:
		Field Name or Wildcat: Wildcat Richland
		Township, Range, and Section: Section 23: T22N-R59E
API Number: 25 083 23563	Well Type (oil, gas, injection, other): Oil	County: Richland County
State	County	Well

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

Notice of Intention to Change Plans	☐	Subsequent Report of Mechanical Integrity Test	☐
Notice of Intention to Run Mechanical Integrity Test	☐	Subsequent Report of Stimulation or Treatment	☐
Notice of Intention to Stimulate or to Chemically Treat	☐	Subsequent Report of Perforation or Cementing	☐
Notice of Intention to Perforate or to Cement	☒	Subsequent Report of Well Abandonment	☐
Notice of Intention to Abandon Well	☐	Subsequent Report of Pulled or Altered Casing	☐
Notice of Intention to Pull or Alter Casing	☐	Subsequent Report of Drilling Waste Disposal	☐
Notice of Intention to Change Well Status	☐	Subsequent Report of Production Waste Disposal	☐
Supplemental Well History	☐	Subsequent Report of Change in Well Status	☐
Other (specify) <u>Pre-Frac Chemical Disclosure</u>	☐	Subsequent Report of Gas Analysis (ARM 36.22.1222)	☐
	☐	Subsequent Report of	☐

Describe Proposed or Completed Operations:

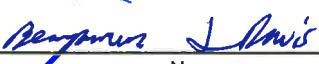
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Per APD COA requirements, MorningStar Operating LLC respectfully requests approval of the attached pre-job Chemical Disclosure in order to begin frac job. Work is estimated to begin on 9/10/2026

- Total volume = 22.7 MM gallons

- Maximum anticipated treating pressure is 9,500 psi down 7" 32# P-110 casing (12,460 psi Internal Yield) and 4.5" 13.5# P-110 liner (12,410 psi Int

Attachments: Pre-Job Chemical Disclosure.

BOARD USE ONLY	
Approved AUG 19 2026	Date
	Technical Program Coordinator
Name	Title

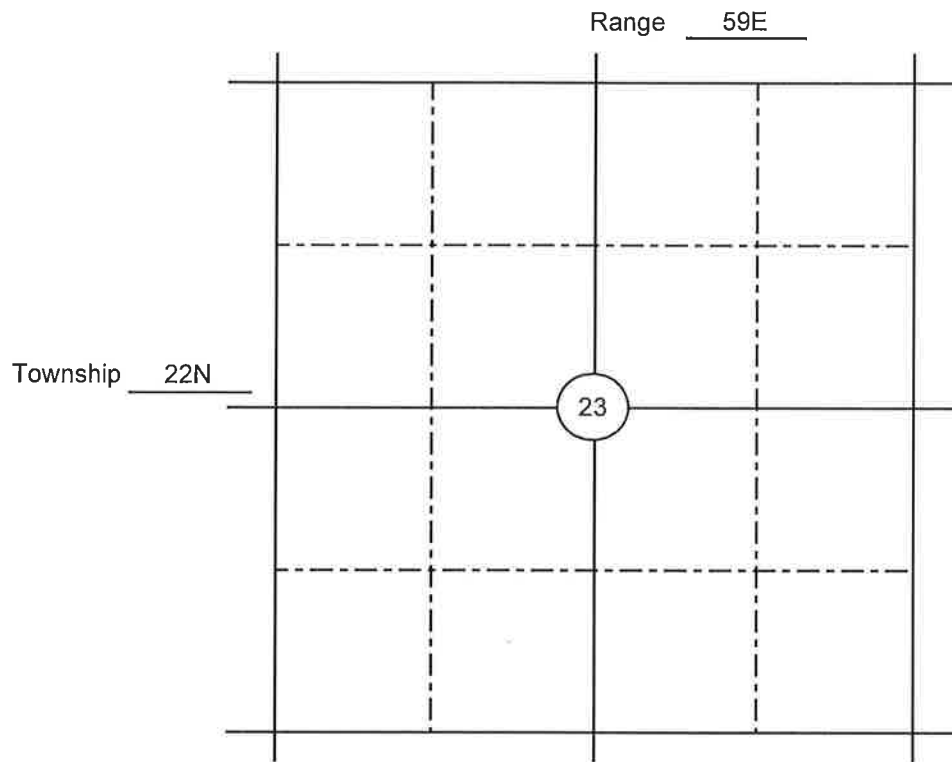
The undersigned hereby certifies that the information contained on this application is true and correct:

08/05/2026	
Date	Signed (Agent)
Holly Wood, Regulatory Analyst	
Print Name and Title	
Telephone: 817-334-8088	

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.

[illegible]

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)**	Comments
Produced Brine Water	Operator	Carrier	Produced Brine Water	7732-18-5	100.0000%	940	0.00046%	
Water	Operator	Carrier	Water	7732-18-5	100.0000%	189,942.833	92.09698%	
Acid Additive Mixture A11-7	Liberty Energy	Acid Additive Mixture	MSDS and Non-MSDS Ingredients Listed Below					
ACI-410	Italmatch Chemicals	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below					
Resin Coated Sand / Santrol	Liberty Energy	Proppant	MSDS and Non-MSDS Ingredients Listed Below					
FRP-10S	Liberty Energy	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below					
K-BAC 50310	Italmatch Chemicals	Biocide	MSDS and Non-MSDS Ingredients Listed Below					
FRP-1S	Liberty Energy	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below					
K-BAC 50310W	Italmatch Chemicals	Biocide	MSDS and Non-MSDS Ingredients Listed Below					
Liberty Clean Out Fluid	Liberty Energy	Cleanup Solution	MSDS and Non-MSDS Ingredients Listed Below					
SCI-78XW	Liberty Energy	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below					
Enviro-Syn HCR-7000-WL	Fluid Energy Group	Solvent	MSDS and Non-MSDS Ingredients Listed Below					
Soda Ash	Liberty Energy	Buffer	MSDS and Non-MSDS Ingredients Listed Below					
Enviro-Syn HCR-7000-WL-H	Fluid Energy Group	Solvent	MSDS and Non-MSDS Ingredients Listed Below					
SCI-78NDW	Liberty Energy	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below					
DF-36S	Italmatch Chemicals	Defoamer	MSDS and Non-MSDS Ingredients Listed Below					
SFT-NE45B10	Liberty Energy	Surfactant	MSDS and Non-MSDS Ingredients Listed Below					
BEZ-58	Liberty Energy	Breaker	MSDS and Non-MSDS Ingredients Listed Below					
SCI-78	Liberty Energy	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below					
WA-100	Italmatch Chemicals	Wetting Agent	MSDS and Non-MSDS Ingredients Listed Below					
HCL-28	Liberty Energy	Acid	MSDS and Non-MSDS Ingredients Listed Below					
HCL-36	Liberty Energy	Acid	MSDS and Non-MSDS Ingredients Listed Below					
SFT-NE45B	Liberty Energy	Surfactant	MSDS and Non-MSDS Ingredients Listed Below					
SFT-592	Liberty Energy	Surfactant	MSDS and Non-MSDS Ingredients Listed Below					
FRS-HV8100	Liberty Energy	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below					
FRS-HV8200	Liberty Energy	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below					
Crystalline Silica Quartz	Liberty Energy	Proppant	MSDS and Non-MSDS Ingredients Listed Below					
L-50S	Italmatch Chemicals	Iron Control	MSDS and Non-MSDS Ingredients Listed Below					

SCI-78W	Liberty Energy	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below				
The trade name(s) of the additive(s) used, supplier(s), and the purpose(s) of the additive(s) are listed above. The ingredient(s) for the above additive(s) are listed below.							
			Crystalline Silica in the form of Quartz	14808-60-7	75.2926%	12,271,500	5.95004%
			Phenol-Formaldehyde Resin	9003-35-4	21.9227%	3,573,045	1.73245%
			Water	7732-18-5	1.1016%	179,550	0.08706%
			2-Propenoic acid, polymer with 2-propenamide, sodium	25987-30-8	0.3974%	83,575	0.04052%
			Distillates (petroleum), hydrotreated light	64742-47-8	0.3846%	64,771	0.03141%
			Water	7732-18-5	0.3089%	50,350	0.03039%
			Water	7732-18-5	0.2471%	40,268	0.02441%
			Hydrochloric Acid	7647-01-0	0.1527%	24,883	0.01207%
			Alcohols, C12-16, ethoxylated	68551-12-2	0.0641%	10,447	0.00507%
			Dodecylbenzenesulfonic acid, monoethanolamine salt	268316-07-7	0.0613%	9,983	0.00484%
			Water	7732-18-5	0.0536%	8,735	0.00424%
			Proprietary Ingredient		0.0509%	8,294	0.00402%
			Methanol	67-56-1	0.0459%	7,487	0.00363%
			Sorbitan monooleate	1338-43-8	0.0385%	6,268	0.00304%
			Quaternary ammonium compounds, benzyl-C12-16-alkyl	68424-85-1	0.0324%	5,285	0.00256%
			Phosphonic acid, [[(2-[(2-hydroxyethyl)](phosphonoethyl)](phosphonoethyl)](phosphonoethyl)]	129828-36-0	0.0312%	5,086	0.00247%
			Glutaraldehyde	111-30-8	0.0162%	2,643	0.00128%
			Urea	57-13-6	0.0128%	2,089	0.00101%
			Ethyl alcohol	64-17-5	0.0093%	1,510	0.00073%
			Sodium C14-16 olefin sulfonate	68439-57-6	0.0077%	1,248	0.00061%
			Oxygenate and paraffinic stream	876065-86-0	0.0052%	842	0.00041%
			Water	7732-18-5	0.0050%	815	0.00040%
			Water	7732-18-5	0.0047%	770	0.00037%
			polyacrylamide	9003-05-8	0.0042%	688	0.00033%
			Water	7732-18-5	0.0042%	684	0.00033%
			2-hydroxypropane-1,2,3-tricarboxylic acid	77-92-9	0.0040%	650	0.00032%
			Water	7732-18-5	0.0040%	644	0.00031%
			Water	7732-18-5	0.0039%	629	0.00031%
			Water	7732-18-5	0.0035%	566	0.00027%
			Water	7732-18-5	0.0035%	563	0.00027%
			hydrotreated distillate, light	64742-47-8	0.0035%	563	0.00027%
			Water	7732-18-5	0.0033%	535	0.00026%
			Water	7732-18-5	0.0033%	533	0.00026%
			Water	7732-18-5	0.0031%	506	0.00025%
			Ethylene Glycol	107-21-1	0.0029%	469	0.00023%
			Water	7732-18-5	0.0026%	432	0.00021%
			Polyacrylamide	9003-05-8	0.0026%	425	0.00021%
			Hydro-treated distillate, light	64742-47-8	0.0026%	425	0.00021%
			Water	7732-18-5	0.0023%	371	0.00018%
			Ethylene Glycol	107-21-1	0.0023%	368	0.00018%
			Ethoxylated Decyl Alcohol	78330-20-8	0.0022%	357	0.00017%
			Hydrochloric Acid	7647-01-0	0.0022%	354	0.00017%
			2-Propenoic acid, polymer with 2-propenamide, sodium	25987-30-8	0.0018%	298	0.00014%
			Hydrochloric Acid	7647-01-0	0.0017%	272	0.00013%
			Propylene Glycol	57-55-6	0.0016%	268	0.00013%
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl deriva., ch	68909-18-2	0.0016%	266	0.00013%
			Hydrochloric Acid	7647-01-0	0.0016%	266	0.00013%
			Ethylene Glycol	107-21-1	0.0015%	241	0.00012%
			Distillates (petroleum), hydrotreated light	64742-47-8	0.0015%	240	0.00012%
			Redacted ingredients	Proprietary	0.0014%	226	0.00011%
			Propylene glycol	57-55-6	0.0014%	226	0.00011%
			Tall oil fatty acid	61790-12-3	0.0014%	226	0.00011%
			Poly(oxy-1,2-ethanediyl), alpha-hexyl-omega-hydroxy-	31726-34-8	0.0014%	226	0.00011%
			Formic Acid	64-18-6	0.0014%	226	0.00011%
			Sodium chloride	7647-14-5	0.0014%	226	0.00011%
			Sodium benzoate	532-32-1	0.0014%	226	0.00011%
			Water	7732-18-5	0.0014%	223	0.00011%
			Methanol	67-56-1	0.0013%	219	0.00011%
			Acrylamide	79-06-1	0.0013%	209	0.00010%
			Formic acid	64-18-6	0.0012%	195	0.00009%
			Cinnamaldehyde	104-55-2	0.0012%	195	0.00009%
			Citric acid	77-92-9	0.0012%	195	0.00009%

