

Submit In Quadruplicate To:

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

RECEIVED

MAR 02 2023

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator **EMEP Operating, LLC**
Address **1200 Smith Street, Ste 680**
City **Houston** State **TX** Zip Code **77002**
Telephone **346-261-1474** Fax _____

Lease Name:
Double "V"

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

Well Number:
1-21H

Location of well (1/4-1/4 section and footage measurements):
SW SE 200' FSL, 1500' FEL (Section 21-T25N-R53E) .

Unit Agreement Name:

Field Name or Wildcat:
Elm Coulee

Township, Range, and Section:
T25N, R53E, SEC 21

API Number:
25 | **083** | **221780000**
State County Well

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

County:
Richland

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

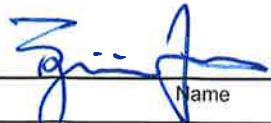
- Subsequent Report of Mechanical Integrity Test
- Subsequent Report of Stimulation or Treatment
- Subsequent Report of Perforation or Cementing
- Subsequent Report of Well Abandonment
- Subsequent Report of Pulled or Altered Casing
- Subsequent Report of Drilling Waste Disposal
- Subsequent Report of Production Waste Disposal
- Subsequent Report of Change in Well Status
- Subsequent Report of Gas Analysis (ARM 36.22.1222)

Describe Proposed or Completed Operations:

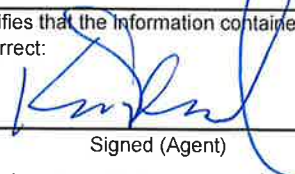
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

EMEP Operating, LLC ("EMEP") respectfully submits this Notice of Intent to perform a refrac.

Please find attached (1) EMEP's Recompletion Procedure for the Double "V" 1-21H, and (2) the Fracturing Fluid Disclosure.

BOARD USE ONLY	
Approved MAR 08 2023	Date
	Admin/lt Engineer
Name	Title

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

3/1/23 Date  Signed (Agent)

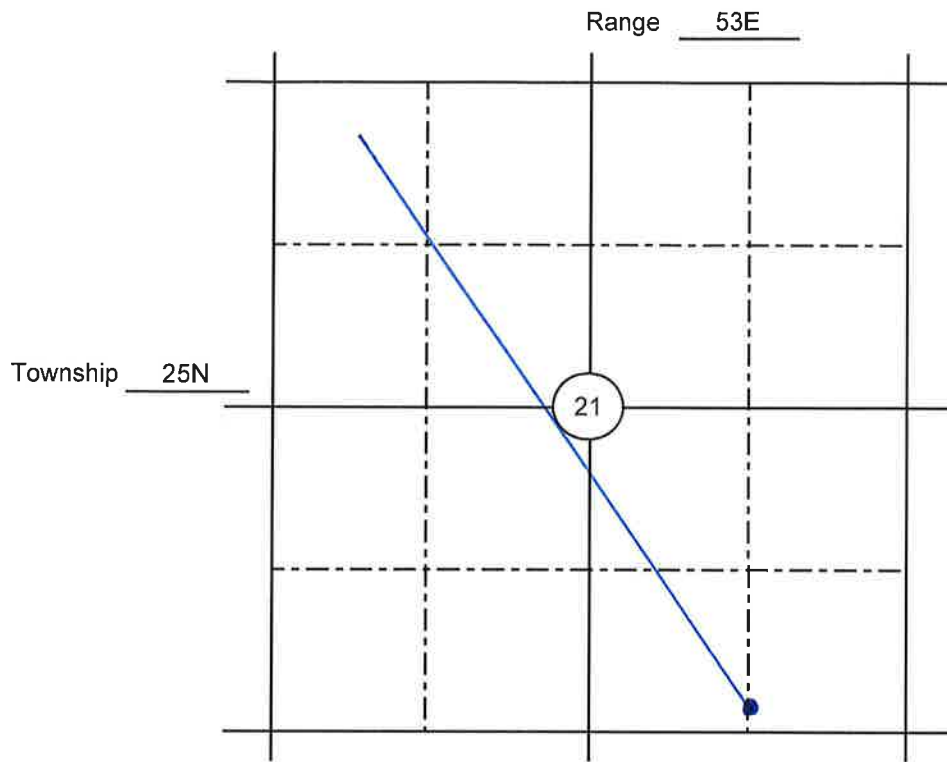
Kyle D. Dubiel - Vice President BD, Land and Legal Print Name and Title

Telephone: (346) 261-1474

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.

Client: Eagle Mountain Energy Partners
Disclosure Type: Pre-Job
Well: Double V 1-21H
Basin/Field: Williston Basin
State: Montana
County: Richland
Date Prepared: 2/15/2023



Fluid Name	Volume (gal)	Additive	Additive Description	Concentration	Volume
Slickwater	3,215,900	100 Mesh	Proppant	Varied Concentrations	270000 lb
		40/70 White	Proppant	Varied Concentrations	1800000 lb
		20/40 White	Proppant	Varied Concentrations	720000 lb
		20/40 Super LC	Proppant	Varied Concentrations	360000 lb
		ELEHV-6	Friction Reducer	1.40 gal / 1000 gal	4514 gal
		BioSuite GQ123x	Bactericide/Biocide	0.25 gal / 1000 gal	804 gal
		ELENE-4	Non-Emulsifier	0.50 gal / 1000 gal	1618 gal
		ELESale-2	Scale Inhibitor	0.25 gal / 1000 gal	804 gal
		ELEBR-6	Breaker	0.65 gal / 1000 gal	2103 gal
		ELECCL-10	Clay Control	1.00 gal / 1000 gal	3216 gal
		BioSuite GQ123xWM	Bactericide/Biocide	0.01 gal / 1000 gal	20 gal
		BioSuite GQ510x	Bactericide/Biocide	0.01 gal / 1000 gal	20 gal
		ELESurf-5	Surfactant	0.01 gal / 1000 gal	20 gal
		HCl-15	Solvent	0.31 gal / 1000 gal	1000 gal
		ACI-102HT	Corrosion inhibitor	0.00 gal / 1000 gal	10 gal
IC-50S	Iron Control	0.00 gal / 1000 gal	10 gal		

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CAS Number	Chemical Name	Trade Name	Mass Fraction
7732-18-5	Water		89.11412%
14808-60-7	Crystalline Silica (Quartz)		5.98068%
14808-60-7	Crystalline Silica (Quartz)		2.39227%
14808-60-7	Crystalline Silica (Quartz)		1.18417%
14808-60-7	Crystalline Silica (Quartz)		0.89710%
7732-18-5	Water		0.07194%
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic		0.06877%
9003-35-4	Phenolic Resin		0.05981%
7732-18-5	Water		0.05501%
25987-30-8	2-propenoic acid, polymer with 2-propenamamide, sodium salt		0.04264%
64742-47-8	Distillates (petroleum), hydrotreated light		0.04126%
7786-30-3	Magnesium chloride		0.02607%
9004-54-0	Dextran		0.02607%
7447-40-7	Potassium Chloride		0.02085%
7732-18-5	Water		0.02018%
67-56-1	Methanol		0.02018%
67-56-1	Methanol		0.00646%
75-91-2	Tert-Butyl hydroperoxide		0.00612%
7647-01-0	Hydrochloric Acid		0.00446%
69011-36-5	Poly(oxy-1,2-ethanediyl),a-tridecyl-w-hydroxy-,branched		0.00413%
57-13-6	Urea		0.00413%
111-30-8	Glutaraldehyde		0.00341%
1338-43-8	Sorbitan, monoleate		0.00275%
79-06-1	Acrylamide (as residual)		0.00138%
7173-51-5	Didecyl dimethyl ammonium chloride		0.00114%
68424-85-1	Alkyl dimethyl benzyl ammonium chloride (C12-16)		0.00114%
9041-33-2	Polyalkylene Oxide		0.00081%
4719-04-4	Preservative		0.00052%
7732-18-5	Water		0.00050%
67-56-1	Methanol		0.00034%
15827-60-8	Organophosphonate		0.00032%
77-92-9	2-hydroxypropane-1,2,3-tricarboxylic acid		0.00022%
107-21-1	Ethylene Glycol		0.00022%
107-21-1	Ethylene glycol		0.00012%
7647-01-0	Hydrochloric Acid		0.00010%
111-30-8	Glutaraldehyde		0.00008%
68424-85-1	Alkyl dimethyl benzyl ammonium chloride (C12-16)		0.00006%
68-12-2	N,N-Dimethylformamide		0.00005%
9003-11-6	Polyethylene/propylene block polymer		0.00004%
78355-51-8	Linear alkyl sulfate		0.00004%
15619-48-4	1-(Benzyl)quinolinium chloride		0.00003%
111-30-8	Glutaraldehyde		0.00003%
68424-85-1	Alkyl dimethyl benzyl ammonium chloride (C12-16)		0.00003%
127087-87-0	Nonylphenol ethoxylated		0.00002%
104-55-2	Cinnamaldehyde		0.00002%
68603-15-6	Alcohols, C6-12		0.00002%
111-76-2	Ethanol, 2-Butoxy-		0.00002%
78-40-0	Triethyl phosphate		0.00002%
67-56-1	Methanol		0.00001%
Total			100%

Fracture Start Date/Time	
Fracture End Date/Time	
State	Montana
County	Richland
API Number	25-001-2178-0900
Operator Number	
Well Name	Boisbutte V 1-21H
Federal Well No	
Indian Well No	
Longitude	-104.876638
Latitude	47.897325
Long/Lat Projection	NAD83
True Vertical Depth (TVD)	9458
Total Clean Fluid Volume (gals)	1,215,900



Additive	Specific Gravity	Additive Quantity	Mass (lbs)
Water	1.0	1,215,900	36,129,600
100 Mesh	(already reported in lbs)	276,000	276,000
40-70 White	(already reported in lbs)	1,800,000	1,800,000
20-40 White	(already reported in lbs)	526,000	526,000
20-40 Super LC	(already reported in lbs)	340,000	340,000
ELLEHV-6	0.13	4,516	41,191
Boisbutte GQ123	0.31	804	6,339
ELFENE-4	7.51	1,418	12,143
ELLEScale-2	8.26	801	6,483
ELLEDR-6	8.76	1,183	18,478
ELCCCL-10	9.76	3,216	31,381
Boisbutte GQ123XW1	8.44	20	168
Boisbutte GQ1510	8.54	20	171
ELLSurf-2	8.34	20	167
ICI-15	8.93	1,098	8,931
ACI-102HT	9.08	16	91
IC-505	10.82	16	168

Ingredients Section:

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
Water	Operator	Carrier	Carrier	7732-18-5	100.00%	24,820,600	89.11412%	
100 Mesh	Element	Proppant	MSDS and Non-MSDS Ingredients Listed Below					
40-70 White	Element	Proppant	MSDS and Non-MSDS Ingredients Listed Below					
20-40 White	Element	Proppant	MSDS and Non-MSDS Ingredients Listed Below					
20-40 Super LC	Coval	Proppant	MSDS and Non-MSDS Ingredients Listed Below					
ELLEHV-6	Element	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below					
Boisbutte GQ123	Boisbutte	Bactericide/Biocide	MSDS and Non-MSDS Ingredients Listed Below					
ELFENE-4	Element	Non-Emulsifier	MSDS and Non-MSDS Ingredients Listed Below					
ELLEScale-2	Element	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below					
ELLEDR-6	Element	Breaker	MSDS and Non-MSDS Ingredients Listed Below					
ELCCCL-10	Element	Clay Control	MSDS and Non-MSDS Ingredients Listed Below					
Boisbutte GQ123XW1	Boisbutte	Bactericide/Biocide	MSDS and Non-MSDS Ingredients Listed Below					
Boisbutte GQ1510	Boisbutte	Bactericide/Biocide	MSDS and Non-MSDS Ingredients Listed Below					
ELLSurf-2	Element	Surfactant	MSDS and Non-MSDS Ingredients Listed Below					
ICI-15	Element	Solvent	MSDS and Non-MSDS Ingredients Listed Below					
ACI-102HT	WST	Corrosion inhibitor	MSDS and Non-MSDS Ingredients Listed Below					
IC-505	WST	Iron Control	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 below:								
Element	Proppant	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	1,800,000	5.9068%	
Element	Proppant	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	276,000	2.1927%	
Element	Proppant	Proppant	Crystalline Silica (Quartz)	14808-60-7	99.00%	156,400	1.1817%	
Element	Proppant	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	276,000	0.9710%	
Element	Clay Control	Clay Control	Water	7732-18-5	89.00%	21,653	0.0718%	
Element	Friction Reducer	Friction Reducer	Distillates (petroleum), hydrotreated light naphthenes	64742-53-6	30.00%	20,697	0.0677%	
Element	Proppant	Proppant	Phenolic Resin	9003-35-4	1.00%	18,600	0.0581%	
Element	Friction Reducer	Friction Reducer	2-propanoic acid, polymer with 2-propanoamide, sodium	7732-18-5	98.00%	16,537	0.0510%	
Element	Friction Reducer	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-53-6	31.00%	12,113	0.0284%	
Element	Clay Control	Clay Control	Magnesium chloride	7786-30-3	25.00%	7,811	0.0249%	
Element	Clay Control	Clay Control	Dextran	9004-54-0	25.00%	7,811	0.0249%	
Element	Clay Control	Clay Control	Potassium Chloride	7447-40-7	20.00%	6,270	0.0203%	
Element	Non-Emulsifier	Non-Emulsifier	Water	7732-18-5	50.00%	6,972	0.0201%	
Element	Non-Emulsifier	Non-Emulsifier	Methanol	67-56-1	50.00%	6,972	0.0201%	
Element	Scale Inhibitor	Scale Inhibitor	Methanol	67-56-1	30.00%	1,943	0.0061%	
Element	Breaker	Breaker	Tert-butyl hydroperoxide	75-91-2	10.00%	1,342	0.0042%	
Element	Solvent	Solvent	Hydrochloric Acid	7647-01-0	15.00%	1,243	0.0038%	
Element	Friction Reducer	Friction Reducer	Poly(oxy-1,2-ethanediyloxy)tris(oxy-1,2-ethanediyloxy)propane	69911-36-3	3.00%	1,242	0.0011%	
Element	Friction Reducer	Friction Reducer	Urea	57-13-6	3.00%	1,242	0.0011%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Gluconic Acid	111-30-8	15.00%	1,024	0.0011%	
Element	Friction Reducer	Friction Reducer	Sorbitan, monooleate	1338-43-8	2.00%	823	0.0027%	
Element	Friction Reducer	Friction Reducer	Acrylamide (as residual)	79-06-1	1.00%	414	0.0018%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Diethyl dimethyl ammonium chloride	7173-51-3	2.00%	342	0.0011%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	2.00%	342	0.0011%	
Element	Non-Emulsifier	Non-Emulsifier	Polyalkylene Oxide	9914-33-2	2.00%	243	0.0007%	
Element	Clay Control	Clay Control	Preservatives	4719-04-4	0.50%	157	0.0002%	
Element	Surfactant	Surfactant	Water	7732-18-5	90.00%	250	0.0001%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Methanol	67-56-1	00.00%	191	0.0001%	
Element	Scale Inhibitor	Scale Inhibitor	Organophosphorus	13877-60-3	1.50%	97	0.0001%	
WST	Iron Control	Iron Control	2-hydroxypropane-1,2,3-tricarboxylic acid	77-92-9	60.00%	83	0.0002%	
Element	Scale Inhibitor	Scale Inhibitor	Ethylene Glycol	107-21-1	1.00%	83	0.0002%	
Element	Clay Control	Clay Control	Ethylene Glycol	107-21-1	40.00%	31	0.0001%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Hydrochloric Acid	7647-01-0	15.00%	23	0.0001%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Gluconic Acid	111-30-8	14.99%	23	0.0001%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	10.00%	17	0.0000%	
WST	Corrosion inhibitor	Corrosion inhibitor	N,N-Dimethylformamide	68-12-2	15.00%	14	0.0000%	
Element	Surfactant	Surfactant	Polyethylene propylene block polymer	9003-11-6	7.00%	12	0.0000%	
Element	Surfactant	Surfactant	Linear alkyl sulfate	78355-51-3	7.00%	12	0.0000%	
WST	Corrosion inhibitor	Corrosion inhibitor	1-(Hexa)quinoxinium chloride	15619-08-4	10.00%	9	0.0000%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Gluconic Acid	111-30-8	7.00%	9	0.0000%	
Boisbutte	Bactericide/Biocide	Bactericide/Biocide	Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	4.99%	8	0.0000%	
WST	Corrosion inhibitor	Corrosion inhibitor	Nonylphenol ethoxylated	127087-87-6	3.00%	8	0.0000%	
WST	Corrosion inhibitor	Corrosion inhibitor	CinnamylAldehyde	104-53-2	5.00%	5	0.0000%	
WST	Corrosion inhibitor	Corrosion inhibitor	Alcohols, C6-12	68003-15-6	5.00%	5	0.0000%	
WST	Corrosion inhibitor	Corrosion inhibitor	Ethanol, 1,2-butanyl	111-76-2	3.00%	5	0.0000%	
WST	Corrosion inhibitor	Corrosion inhibitor	Tricetyl phosphate	78-40-0	3.00%	5	0.0000%	
Element	Surfactant	Surfactant	Methanol	67-56-1	2.00%	5	0.0000%	

*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%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary," "trade secret," and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.