FORM NO. 22 R 10	/09 SUBMIT	N OUADDURINGATE TO	ARM 3	6.22.307	Lease Nam	0.					
		N QUADRUPLICATE TO:	ARM 3	6.22.601	Delores 4						
		OIL AND GAS CO UE, BILLINGS, MO				(Private/State/F	ederal):				
		ition for Permit To:	7117AIA 39102		Private		<b>,</b>				
Drill X	Deepen	Re-enter			Well Number	er:					
Oil X	Gas	Other	Ш		#12H		DECENTE				
Operator: Kra	ken Operating LL				Field Name	or Wildcat:	RECEIVE				
·	Bunker Hill Road,				Wildcat,	Richland	AUG 2 7 2025				
City: Houston	·	ate: TX	Zip: 77024			if applicable):	AUG Z / ZUZO				
Telephone Nu		3-360-7705	ZIP. 11024		N/A		MONTANA BOARD OF C				
	Well (quarter-quarter and				Objective F	ormation(s):	IO OCHOLIWATION DIL				
Lot 2 Section	05, T24N, R59E - 3	95' FNL & 1984' FEL			Middle B	akken					
Description of Total Description	b and Datter bala to a 1	(-) '7			Township, F	Range, and Secti	on:				
	n and Bottom-hole Locati D, 10,470' TVD	on(s) if directional or horizo	ontal well:		T24N, R	59E, Section 0	5				
		· 205' FSL & 720' FW	4		County:						
CTTCTT CCC	70, 12-11, NOOL	200 1 0E & 720 1 W	_		Richland	County, MT					
					Elevation (i	ndicate GL or KE	3):				
					2191' GL						
Size and desc	ription of drilling/spa	cing unit and applica	ble order, if any:	Fo	ormation at t	otal depth:	Anticipated Spud Date:				
147	77 a(Sec.04, 09 &	16)T24N R59E Ord	der# 162-2023		Middle B	akken	10/31/2025				
Hole Size	Casing Size	Weight / Foot	Grade (API)		Depth	Sacks of Ceme	ent Type of Cement				
12 1/4	9 5/8	36#	J-55		1970	444	Type III				
8 3/4	7	32#	P-110		11212	703	Type 1L				
6	4 1/2	13.5#	P-110	2	23014	630	Class G				
See attachmer Kraken Operat	nts for details ting, LLC requests v	agram of blowout preve variance to not run op Sec 05 T24N R59E.					n. and for the Sarah 1-5H				
	BOARD	USE ONLY		T							
Approved (date)	NOV 0 6 202	5 Permit Fee	\$15000			hereby certifies the application is true					
	1 2 1	Check Numbe	20011-1	-	tailled on this	Application state	A D				
By Dengenun	Mavi (		The state of the s	Sigi	ned (Agent)	/ av	k I Jaux				
	hnical ogram	Permit Expires	11 to 12 to	Title	<b>:</b>	Senior Regu	latory Analyst				
	dinator	Permit Numbe	J.5008			ooor	natory / trianyat				
THIS PERMIT IS SUE	BJECT TO THE AP	Number: 25 - 083	- 23521	Dat	e	8/26/2025	_				
STATED ON THE BA				Tele	ephone Numb	er(7	713) 360-7705				
amples Required:	NONE 5	∠ ALL	FROM			feet to	o feet				
		cores to USGS, Core Labo		Conser							

## SUPPLEMENTAL INFORMATION

AUG 27 2025

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

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

- Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
- 2. Attach an 8 1/2 x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a 1/2 mile radius of the well.
- 3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut/fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor). Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
- 4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications.
- 5. Describe the proposed plan for the treatment and/or the disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
- 6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:

x	No additional permits needed
	Stream crossing permit (apply through county conservation district)
	Air quality permit (apply through Montana Department of Environmental Quality)
	Water discharge permit (apply through Montana Department of Environmental Quality)
	Water use permit (apply through Montana Department of Natural Resources and Conservation)
	Solid waste disposal permit (apply through Montana Department of Environmental Quality)
	State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
	Federal drilling permit (specify agency)
	Other federal, state, county, or local permit or authorization: (specify type)

### NOTICES:

- 1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
- 2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

## **BOARD USE ONLY**

CONDITIONS OF APPROVAL

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

SEE ATTACHED
CONDITIONS OF APPROVAL

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

## 08353251

## Kraken Operating, LLC Proposed Well Stimulation

Total Clean Fluid – 235,000 bbls

Maximum Anticipated Treating Pressure – 9,800 psi

AUG 27 2025

REOM VIII

WA BOARD OF OIL & CONSERVATION • BILLINGS

# Hydraulic Fracturing Fluid Components Information Disclosure:

Гллоѕрес	Innospec	Liberty	WST	WST	Liberty	TSW	Innospec	Liberty	Innospec	Innospec	Innospec	Innospec	Lubrizol	Liberty	Innospec	Liberty	Liberty	Innospec	Liberty	Liberty	Liberty	Liberty	Liberty	The trade name(s) of the	Crystalline Silica Liberty	Liberty Clean Out Liberty Oilfield Services	IC-50S WST	WA-100 WST	ACI-300 WST	HCL-15 Liberty	ScaleCease 7103 Innospec	Bioclear 5000 Lubrizol	DVA-75 Liberty	FRP-1S Liberty	Surf-Flo 430 Innospec	Water Operator	Trade Name
		Liberty Oilfield Services			Liberty Oilfield Services			Liberty Oilfield Services						Liberty Oilfield Services		Liberty Oilfield Services	Liberty Oilfield Services	ec	Jiberty Oilfield Services	Liberty Oilfield Services	Liberty Oilfield Services	Liberty Oilfield Services	Liberty Oilfield Services	additive(s) used, supp	Liberry Oilfield Services	Oilfield Services				Liberty Oilfield Services	ec	ol	Liberty Oilfield Services	Liberty Oilfield Services	ec		Supplier
Flowback Additive	Flowback Additive	Cleanup Solution	Corrosion Inhibitor	Wetting Agent	Cleanup Solution	Iron Control	Flowback Additive	Diverting Agent	Flowback Additive	Flowback Additive	Scale Inhibitor	Scale Inhibitor	Biocide	Solvent	Flowback Additive	Friction reduction	Solvent	Scale Inhibitor	Sand	Sand	Friction reduction	Sand	Sand	plier(s), and the purpose(s) of the addit	Sand	Cleanup Solution	Iron Control	Wetting Agent	Corrosion Inhibitor	Solvent	Scale Inhibitor	Biocide	Diverting Agent	Friction reduction	Flowback Additive	Carrier	Purpose
Fthanolamine	Triethanolamine	C.I. Solvent Yellow 33	2-Propyn-1-ol compound with methyloxirane	Ethoxylated Decyl Alcohol	Oxygenate and paraffinic stream	2-hydroxypropane-1,2,3-tricarboxylic acid	Sodium Alpha Olefin Sulfonate		Dodecylbenzene sulfonate, triethanolamine salt	Benzenesulfonic Acid, dodecyl-cmpd, with 2-aminoethanol	Proprietary Ingredient	BHMT Phosphonate	2,2-dibromo-3-nitriloproprionamide	Hydrochloric Acid	Water	Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched	Water	Water	Titanium Oxide	Iron Oxide	Petroleum distillates, hydrotreated light	Aluminum Oxide	Crystalline Silica (quartz)	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	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	MSDS and Non-MSDS Ingredients Listed Below	Carrier	Ingredients
141 42 6	103-71-6	8003-22-3	38172-91-7	78330-20-8	876065-86-0	77-92-9	68439-57-6	9051-89-2	27323-41-7	26836-07-7	Proprietary	Proprietary	10222-01-2	7647-01-0	7732-18-5	69011-36-5	7732-18-5	7732-18-5	13463-67-7	1309-37-1	64742-47-8	1344-28-1		(s) are listed below.												7732-18-5	Abstract Service Number (CAS #)
0.0107	0.01%	1.00%	15 00%	40.00%	99.00%	60 00%	5,00%	100 00%	10.00%	10.00%	5.00%	5.00%	10.00%	15.00%	95_00%	3 00%	85.00%	95 00%	0.10%	0 10%	45 00%	1 00%	%06.66	7												100 00%	Concentration in Additive (% by mass)**
0/7	0.67	0.75	10.11	13.92	74.11	75 45	371.79	469.00	743.58	743.58	792.51	792.51	838.73	2,594,29	7,064,01	7,585.61	14,700.97	15.057.66	15,300.00	15.300.00	113,784.20	153,000.00	15,284,700.00		15,300,000.00	74.86	125.74	34 79	67.43	17,295.26	15,850,17	8,387,32	469.00	252,853,79	7,435.80	82.315.800.00	Mass per Component (LBS)
	0 00000%	0 00000%	0.00001%	0.00001%	0.00008%	0.00008%	0.00038%	0.00048%	0.00076%	0.00076%	0.00081%	0.00081%	0.00086%	0.00265%	0.00721%	0.00775%	0.01501%	0.01538%	0.01563%	0.01563%	0,11620%	0,15625%	15.60963%		15 62526%	0.00008%	0.00013%	0.00004%	0,00007%	0.01766%	0,01619%	0.00857%	0.00048%	0.25823%	0.00759%	84 06572%	Maximum ingredient Concentration in HF Fluid (% by mass)**