FORM NO. 22 R 10/	09 SUBMIT I	N QUADRUPLICATE TO:		6.22.307	Legaco Hann	e:	
MONT	ANA BOARD OF	OIL AND GAS CO		6,22.601	Sarah 5-	8-17	
1		JE, BILLINGS, MC			Lease Type	(Private/State/Fed	deral):
		tion for Permit To:			Private		
Drill X	Deepen	Re-enter			Well Number	er:	
Oil 🗵	Gas	Other		П	#5H		RECEIVE
Operator: Kra	ken Operating LL				Field Name	or Wildcat:	RECEIVEL
	Bunker Hill Road,				Wildcat,	Richland	AUG 0.3 000F
City: Houston	•	ate: TX	Zip: 77024		Unit Name ((if applicable):	AUG 2 / 2025
Telephone Nur		3-360-7705	21p. 77024		N/A		MONTANA BOARD OF Q
·		footage measurements):			Objective F	ormation(s):	S CONSERVATION - BIL
Lot 2 Section (05, T24N, R59E - 39	95' FNL & 2017' FEL			Middle B		
						Range, and Section	n:
Proposed Total Depth	n and Bottom-hole Locati	on(s) if directional or horizo	ntal well:		1	59E, Section 05	
TD 22,734' M					County:		
SESE Section	17, T24N, R59E - 2	205' FSL & 580' FEL			1 '	County, MT	
						ndicate GL or KB):	
					2191' GL	,	
Size and descr	rintion of drilling/spa	cing unit and applica	ble order if any: I	F	ormation at t		Anticipated Spud Date:
		17)T24N R59E Ord			Middle B		10/31/2025
171	7 8(000.00, 00 0	17)124111036 010	161# /6J ~100		Wildule D	akkeli	10/31/2023
Hole Size	Casing Size	Weight / Foot	Grade (API)		Depth	Sacks of Cement	t Type of Cement
12 1/4	9 5/8	36#	J-55		1970	444	Type III
8 3/4	7	32#	P-110		10946	680	Type 1L
6	4 1/2	13.5#	P-110		22734	630	Class G
See attachmer Kraken Operat	nts for details ing, LLC requests v	agram of blowout preve variance to not run op Sec 05 T24N R59E.	en hole logs on the				
	BOARD	USE ONLY		Т			
Approved (date)	NOV 0 6 2025		515000			hereby certifies that application is true an	
Approved (date)	1 2 4	Check Numbe	-00112	- -	italiled on this	application is tige an	& Day
By Keyeron	n Maris			Sig	ned (Agent)	/ (200	× Just
	hnical ogram	Permit Expires	2000-		e	Senior Regula	atory Analyst
	dinator	Permit Numbe	r <u>33087</u>	•0].	-	ocilioi ((cgale	atory Arialyst
THIS PERMIT IS SUE	PROVAL A	1 Number: 25 - 683	-23500	Da	te	8/26/2025	- .
STATED ON THE BA	ICK			Tel	ephone Numb	er (71:	3) 360-7705
Samples Required:	NONE	ALL	FROM _			feet to _	feet
Core chi	os to address below, full	cores to USGS, Core Labo Montana	ratory, Arvada, CO. Re Board of Oil and Gas 2535 St. Johns Ave Billings, MT 5910	Consei nue		washed, dried and deli	ivered prepaid to:

SUPPLEMENTAL INFORMATION

AUG 27 2025

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

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- 1. 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.

スmomVmD

Kraken Operating, LLC Proposed Well Stimulation

Total Clean Fluid – 235,000 bbls

Maximum Anticipated Treating Pressure – 9,800 psi

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Hydraulic Fracturing Fluid Components Information Disclosure:

																								The trade name(s	Crystalline Silica	Liberty Clean Out	IC-50S	WA-100	ACI-300	HCL-15	ScaleCease 7103	Bioclear 5000	DVA-75	FRP-1S	Surf-Flo 430	Water	Trade Name
Innospec	Innospec	Liberty Oilfield Services	WST	WST	Liberty Oilfield Services	WST	Innospec	Liberty Oilfield Services	Innospec	Innospec	Іплоѕрес	Innospec	Lubrizol	Liberty Oilfield Services	Innospec	Liberty Oilfield Services	Liberty Oilfield Services	Innospec	Liberty Oilfield Services	Liberty Oilfield Services	Liberty Oilfield Services	Liberty Oilfield Services	Liberty Oilfield Services	of the additive(s) used, sur	Liberty Oilfield Services	Liberty Oilfield Services	WST	WST	WST	Liberty Oilfield Services	Іплоѕрес	Lubrizol	Liberty Oilfield Services	Liberty Oilfield Services	Innospec	Operator	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	oplier(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
Ethanolamine	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	Polylactide Resin	Dodecylbenzene sulfonate, triethanolamine salt	Benzenesulfonic Acid, dodecvl-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 listed below.	MSDS and Non-MSDS Ingredients Listed Below	Carrier	Ingredients										
141-43-5	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	14808-60-7	(s) are listed below												7732-18-5	Chemical Abstract Service Number (CAS #)
0.01%	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%	99 90%													100 00%	Maximum Ingredient Concentration in Additive (% by mass)**
0.67	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%	0.00000%	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)**