FORM NO. 22 R 10	/09 SUBMIT II	N QUADRUPLICATE TO:	ARM 36 ARM 36	22,307	Lease Nam	e:	
MONTA	NA BOARD OF	OIL AND GAS CO		,22,601	Katrina 3	0-31	CARTIER
		JE, BILLINGS, MC			Lease Type	(Private/State/	ederal):
	Applicat	tion for Permit To:			Private		1411 4 4 4441
Drill X	Deepen	Re-enter	П		Well Numb	er:	JAN 1 1 2021
Oil 🗵	Gas	Other			#1H	MON	NTANA BOARD OF OIL
Operator: Kra	ken Operating LI	С			Field Name	or Wildoat S Co	ONSERVATION · BILLI
	Katy Freeway S				Wildcat		
City: Houston	•	ate: TX	Zip: 77024		Unit Name	(if applicable):	
Telephone Nu		3-360-7705	p. //o_/		N/A		
		footage measurements):			Objective F	ormation(s):	
SESW Sec 19	9 T25N R59E, 291'	FSL 2532' FWL			Bakken	. ,	
					Township, F	Range, and Sect	tion:
Proposed Total Depti	h and Bottom-hole Locat	ion(s) if directional or horiz	ontal well:		1	25N R59E	
	D, 10,440' TVD				County:		
SWSW Sec 3	1 T25N R59E, 205	' FSL, 660' FWL			l '	County, MT	
						indicate GL or K	(B):
					2183' GL		,.
Size and descri	otion of drilling/spa	cing unit and applica	ble order if any	Fo	rmation at to		Anticipated Spud Date:
		25N-R59E), Order	Inu		Bakke		r introspatou opus Buto
1200 00100 (01		2011 11002), 01001	110. 2010		Danne		
Hole Size	Casing Size	Weight / Foot	Grade (API)		Depth	Sacks of Ceme	ent Type of Cement
13 1/2	9 5/8	36#	J-55		2087	665	See Attached
8 3/4	7	32#	P-110		10792	690	See Attached
6	4 1/2	13.5#	P-110	:	20971	562	See Attached
See attachme Kraken Opera	ibe or attach labeled nts for details ting, LLC requests	diagram of blowout pre variance to not run o 3-16730), located SV	open hole logs on	the su	bject well. O	·	
	BOARD	USE ONLY		Т			
Approved (date)_	JAN 2 6 2	Permit Fee	\$150.00			hereby certifies the application is true	hat the information e and correct:
ву	1	Check Number	144 7 0 101	Sig	ned (Agent)	14	mo
Title Vetra	Deun Enjin	Permit Expired Permit Number	2-662	Title	e	Sr. Drilling	g Engineer
THIS PERMIT IS SU CONDITIONS OF AF		Number: 25 - 08	3-23412	Dat	te	4/17/2020	
STATED ON THE BA				Tel	ephone Numb	per713-36	60-7705 EXT. 121
amples Required:		ALL				feet to	
Core chips	s to address below, full c	ores to USGS, Coire Labor Montana B	atory, Arvada, CO. Red loard of Oil and Gas	-	-	washed, dried and o	delivered prepaid to:
			2535 St. Johns Aver	nue	i valion		
			Billings, MT 59102	2			



IAN 1 1 2021

## SUPPLEMENTAL INFORMATION

MONTANA BOARD OF OIL GAS CONSERVATION • BILLINGS

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

- 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

## 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.

Other federal, state, county, or local permit or authorization: (specify type)

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:

In accordance with Board Order 104-2019, two week Notice required prior to hydraulic fracture stimulations due to overlap well.

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

## Kraken Operating, LLC Proposed Well Stimulation

Total Clean Fluid – 235,000 bbls

Maximum Anticipated Treating Pressure – 9,800 psi

Hydraulic Fracturing Fluid Compowents Information Disclosure:

Carrier
MSDS and Non-MSDS Ingredients Listed Below
iive(s) are listed above. The ingredient(s) for the above additive(s) are listed below.
Crystalline Silica (quartz)
Aluminum Oxide
Petroleum distillates, hydrotreated light
Iron Oxide
Titanium Oxide
Water
Water
Poly(oxy-1.2-ethanediyl), a-tridecyl-w-hydroxy-, branched
Water
Hydrochloric Acid
2,2-dibromo-3-nitriloproprionamide
BHIMT Phosphonate
Proprietary Ingredient
Benzenesulfonic Acid, dodecyl-,cmpd, with 2-aminoethanol
Dodecylbenzene sulfonate, triethanolamine salt
Polylactide Resin
Sodium Alpha Olefin Sulfonate
2-hydroxypropane-1,2,3-tricarboxylic acid
Oxygenate and paraffinic stream
Ethoxylated Decyl Alcohol
2-Propyn-1-ol compound with methyloxirane
C.I. Solvent Yellow 33
Triethanolamine
Ethanolamine