FORM NO. 22 R 10/	/09 SUBMIT	IN QUADRUPLICATE TO:		6.22.307	Lease Nam	e:	
MONT	ANA BOARD OF	OIL AND GAS CO		6.22,601	Breaks 1	7-8-5	
		UE, BILLINGS, MO			Lease Type	(Private/State/Fed	eral):
		ation for Permit To:			Private	Federal	
Drill X	Deepen _	Re-enter			Well Numbe		
Oil 🗵	Gas	Other			#2H		
Operator: Kra	ken Operating Ll	_C			Field Name	or Wildcat:	
Address: 945	Bunker Hill Road,	, Suite 1200			Wildcat,	Richland	RECEIVED
City: Houston	S	tate: TX	Zip: 77024		Unit Name (	if applicable):	
Telephone Nui	mber: 71	13-360-7705			N/A		DEC 18 2024
Surface Location of V	Vell (quarter-quarter and	footage measurements):			Objective Fo	ormation(s):	
NWNE Section	n 20, T26N, R57E -	390' FNL & 2596' FE	L		Middle Ba	akken	MONTANA BOARD OF OI S CONSERVATION • BILL
					Township, F	Range, and Section	S CONSERVATION * BILL
		ion(s) if directional or horizo	ntal well:			57E, Section 20	•
	), 10,395' TVD	051 5111 0 0001 5144			County:		
Lot 4 Section (	US, 126N, R5/E - 2	05' FNL & 660' FWL				County, MT	
				1		ndicate GL or KB):	
					2413' GL	,	
Size and descr	ription of drilling/spa	acing unit and applicat	ole order if any.	F	ormation at to		Anticipated Spud Date:
		T26N R57E, Order			Middle Ba		9/1/2025
		1201111072, Older	" 3 (-NOV)		Wilddle De	arren	9/1/2023
Hole Size	Casing Size	Weight / Foot	Grade (API)		Depth	Sacks of Cement	Type of Cement
12 1/4	9 5/8	36#	J-55		2130'	477	See attached
8 3/4	7	32#	P-110	1	10874'	644	See attached
6	4 1/2	13.5#	P-110	2	26308'	808	See attached
See attachmer  Kraken Operat	be or attach labeled d nts for details ring, LLC requests v	iagram of blowout prevei variance to not run ope ted SESW Sec 21 T2	en hole logs on the				for the Palmer 24-
	BOARD	USE ONLY					
Approved (date)	AUG 0 5 202	Permit Fee	\$15000			hereby certifies that the application is true and	
By Bengamus	1 Prins	Check Number	16555	Sigr	ned (Agent)	Matte 1	)au
T144	echnical rogram	Permit Expires	FEB II 5 ZUZI	Title	,	Senior Pegulat	iony Anglyst
	ordinator	Permit Number	33058	1	2	Senior Regulat	ory Analyst
THIS PERMIT IS SUE CONDITIONS OF AP STATED ON THE BA	BJECT TO THE AP	Pl Number: 25 - 083	- 23509	Date		12/17/2024	
311112 54				Tele	phone Numbe	er	-360-7705
Samples Required:	NONE	X ALL	FROM			feet to	feet
		cores to USGS, Core Labor		uired sar	nples must be v	washed, dried and deliv	ered prepaid to:
			Board of Oil and Gas 2535 St. Johns Aven	Conser			
			Billings, MT 59102				

## SUPPLEMENTAL INFORMATION

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

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

- 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.
- 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.

# Kraken Operating, LLC Proposed Well Stimulation

Total Clean Fluid – 235,000 bbls

Maximum Anticipated Treating Pressure – 9,800 psi

Hydruntic Fracturing Fluid Components Information Disclosure:

Trade Name	Supplier	Pupose	Ingredients	Chemical Abstract Service Number (CAS#)	Maximum Ingredient Concentration in Additive	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Phid (% by mess !**
Water	Operator	Carrer	Carrier	201 054	(seeing dose)		
Surf-Flo 430	Innospec	Flowback Additive	MSDS and Non-MSDS Ineredients   Read Below	6-61-7677	100 00%	82,315,800 00	84 06572%
FRP-1S	Liberty Oilfield Services	Friction reduction	MSDS and Non-MSDS Introducts Lated Resignation			7,435 80	0.00759%
DVA-75	Liberty Oillield Services	Diverting Avent	WSDS and Non-WSDS form-death 1 John D. British			252,853 79	0.25823%
Bioclear 5000	Lubizol	Biocide	WSDS and NorthWSDS Translation of the Color			169 00	0 (30048%
Senh Cease 7103	Innospec	Scale Inhibitor	WORDS and Non-MeDS 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			8,387,32	0.00857%
ICL-15	Liberty Oilfield Services	Solveni	Mens and Man Mens II.			15.850 17	0.01619%
AC1-300	TSW	Cornsin Inhibitor	McDe and Non-Waba Ingredents Leted Below			17,295,26	0.01766%
WA-100	WST	Wetting Ament	Meno and workways logicoenis Listed Beaw			67.43	0.00007%
C-50S	WST	Iron Control	McDs and working the break below			34 79	0 00004%
uberty Clean Out		Cleanin Solution	Mistra and Nan-MSDS Ingredients Linked Relow			125 74	0 00013%
Crystallane Silica		Sand	Made and Non-MSDS Ingredients Listed Below			74 86	0 00008%
tende namele	of the addingstor ment com	All and the second	MOSE STATE NOTE WISES Ingredients Listed Below			15,300,000 00	15 62526%
	I doct. Official Control	secretary and the purposets) of the a	is an expectation of the control of the additional are interested and the interest and the production and the production and the control of the above additional are interested below.	(s) are listed below			
	LANCE COLLEGE SCIVICS	Danc	Crystaline Silica (quartz)	14808-60-7	%06 66	15.284,700.00	15 AND6282
	Laciny Chineta Services	sand	Aluminum Oxide	1344-28-1	1 00%	153 000 00	0.156250Z
	Liberty Chinesia Services	Friction reduction	Petroleum distillates, hydrotreated light	64742-47-8	45 00%	113.784.20	0 1162062
	Liberty Official Services	Sand	Iron Oxide	1309-37-1	0.10%	00 00551	0,020110 0,015210
	Liberty Oillield Services	Sand	Titanium Oxide	13463-67-7	0 10%	15 300 00	0.0120370
	Innuspec	Scale Inhibitor	Water	7732-18-5	US (17)6s.	77 63031	0.0120376
	Liberty Oilfield Services	Solveni	Water	7732-18-5	85 DOV	TO 002 1.1	0.01538%
	Liberry Oilfield Services	Friction reduction	Polytoxy-12-ethanedivl), a-Indecvi-w-lydioxy-, branched	69011-36-5	1 00%	14,000,41	0.01301%
	Innospec	Flovyback Addnive	Water	7732-18-5	2400 56	7.06.4.01	0.007700
	Liberty Oillield Services	Sokem	Hydrochloric Acid	7647-01-0	15 00%	0 404 C	0.0072150
	Lubrani	Biocide	2.2-dibromo-3-miriluproprionanside	10222-01-2	10.00%	838.73	0.0008487
	Innospec	Scale Inhibitor	BHMT Phosphonate	Propoetary	5.00%	700 51	0.0000000
	Innospec	Scak Inhibitor	Proprietary Ingredient	Proprietary	\$ 00%	15.002	0.00001%
	Innospec	Flowback Addrive	Benzenestillonic Acid dodecyl-cmpd with 2-aminoethanol	26836-07-7	10.00%	743.58	1) DOVIZED.
	Innospec	Flowback Additive	Dodecylbenzene sulfonate, triethanolamine salt	27323-41-7	10.00%	743 58	0.000000
	Liberty Oilfield Services	Diverting Agent	Polylactide Resin	9051-89-2	100 00%	00 691	0.0007070
	Innospec	Flowback Additive	Sodium Alpha Olefin Sulfonate	68439-57-6	5 (11%).	171 79	0.0003000
	WST	Iron Control	2-hydroxypropane-1,2,3-tricarboxylic acid	6-26-22	60 00%	75.15	D ODDINGS.
	Liberty Oillield Services	Cleanup Solution	Oxygenate and paraffine stream	876065-86-0	%00 66	74.11	0.0000000
	WST	Welting Agent	Ethoxy lated Decyl Alenhol	78330-30-8	40 00%	13.92	0.0000878
	WSI	Corrosion Inhibitor	2-Propyn-1-ul compound with methyloxirane	38172-91-7	15 00%	11 01	0.0000192
	Liberty Official Scorices	Cleanup Solution	C.1. Solvent Yellow 33	8003-22-3	1 00%	0.75	0.00000
	Unospec	Flowback Additive	Tricthanolamine	103-71-6	0.01%	0.67	0.000000
	PROSPEC	Flowshire A defense					0.00000

# RECEIVED

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