	ANA BOARD OF	OIL AND GAS CO	NSERVATION	36.22.601	Graham	e: e (Private/State/Fe	ederal):					
		ation for Permit To:			Private							
Drill X	Deepen	Re-enter			Well Number	er:						
Oil X	Gas	Other			13-12-1-	1H						
Operator: Bla	ck Dog Operating	, LLC			Field Name	or Wildcat:						
Address: 6110		•			Elm Coul	lee, Northeast	DECEMEN					
City: Houston	St	ate: TX	Zip: 77055		Unit Name	(if applicable):	RECEIVED					
Telephone Nur	mber: 83	2-541-8334	•		NA		MAR 2 5 2025					
Surface Location of V	Vell (quarter-quarter and	footage measurements):			Objective F	ormation(s):	MAK Z 3 ZUZ3					
SWSE, 340' F	SL, 2266' FEL				Bakken	N	ONTANA BOARD OF OIL &					
	13, T29N, RS				Township, F	Range, and Section	COMPENSATION BULLING					
1		on(s) if directional or horizon	ontal well:			57E, Section 13	E.M.					
10021' TVD; 2		Castina 4 TOOM D			County:							
Bril - 220 FSL	NENE	Section 1, T29N, R	0/E		Rooseve	It						
l					Elevation (i	ndicate GL or KB)):					
		Older 103-	2025		2136' GL	•						
Size and descr	iption of drilling/spa	cing unit and applica		F	ormation at t	otal depth:	Anticipated Spud Date:					
1920	Acres (Sections	I, 12, & 13; T29N,		Bakke		6/1/2025						
Hala Ciara	0 : 0:	I										
Hole Size	Casing Size	Weight / Foot	Grade (API)	-	Depth	Sacks of Cemer	nt Type of Cement					
12-1/4"	9-5/8"	36.0 lbs/ft	J-55		2000'	549	Class C (Type III)					
8-3/4"	7"	32.0 lbs/ft	P-110		10570'	674	Class G					
6"	4-1/2"	13.5 lbs/ft	P-110	2	25983'	971	Class G					
Drill 12-1/4" sur 10570' with oil inhibited fresh casing. Hydrau Clean out latera	rface hole to 2000' based (invert) mud. water mud. Run 4-1 lically fracture stimu	Run 7" intermediate /2" liner and cement /late well with approx II. Install artificial lift, a	9-5/8" surface cas casing and cemer to liner top at 9659 imately 21250400	sing and nt to 200 o'. Ceme lbs of s	d cement to s 00' from surfa ent bond log and in 37040	surface. Drill 8-3/4 ace. Drill 6" lateral and pressure test 00 bbls at 90 bbls/	" intermediate hole to to 26003' with .7" intermediate min over 79 intervals					
	BOARD	USE ONLY										
Approved (date)	OCT 3 1 2025	Permit Fee	\$15000			hereby certifies that application is true ar						
By Benjami	in Davis	Check Numbe	r 1087		ned (Agent)	Danny						
Title Pr	chnical ogram	Permit Expires Permit Numbe	7 0	Title	• <u>Pe</u>	etroleum Engine	ering Consultant					
THIS PERMIT IS SUB		I Number: 25 - (\)85	00000	Date	e	3/25/2025						
STATED ON THE BA	NOTAL	114diliber: 23 - 08.5	- 22097	- Tele	ephone Numbe	er40	6-855-6208					
Samples Required:	NONE	ALL	FROM _			feet to	feet					
Core chip	s to address below, full (cores to USGS, Core Labor Montana i	ratory, Arvada, CO. Re Board of Oil and Gas 2535 St. Johns Ave Billings, MT 5910	Consen		washed, dried and del	ivered prepaid to:					

SUPPLEMENTAL INFORMATION

MAR 2 5 2025

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
	310 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:

- 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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

otal Base Non Water Volume: 0	otal Base Water Volume (gall) 15,556,800	True Vertical Depth (TVD) 10.021	Datum NAD83	Latitude 48.259926	Loogitude: -104.2472	Indian Well No	Federal Well No	Was Nameand Number Graham !	Operator Number Black Do	API Number 25-085-X	Sounty Rocsevel	State Montana	Job End Date: 7/20/2025	CZOZ/U/) GRED LADS GOF
	00			6	271		THE PARTY OF THE P	13-12-1-1H	g Operating, LLC	XXXXX-00-00			5 (proposed)	(proposed)

ydraulic Fracturing Fluid Composition:



151,190.37			
		STATE OF STREET	
21.280.400	21,250,400	STOLE BOOK	Co stalline Silica, Quarte, Sand
233,330	23.333	10.00	FER4100
36,323	3,889	934	BIOCITIAN
\$1.580	6,222	8.29	Product 6191
31.098	3.111	10.00	ASP ESC210
129,588,14	15,556,800	3 33	Water
Max (lbs)	Additive Quantity	Specific Gravity	delitiere

RECEIVED

MONTANA BOARD OF OIL & LAS CONSERVATION - BILLINGS

Quartz	2					The second second second	THE PARTY OF THE P					A CO. CO.						FFR4100								BIOC11139W			No. of the last of			THE WASTER		Tipour Cia.	Directore A101							1 100	ASP FSC200	Water		dittak anasi	Total Alleman
	DION STREET																	ChampionX								ChampionX			3				THE PARTY	Chambridge	ChampionX								ChampionX	Operator		Gildrice	a maille
Proppant	TOTAL CHEST	The second second																Friction Reducer	7	STAND VENEZUO						Biocide		The state of the s					200	Consecution	Curtortant								Scale inhibitor	Carrier		acciding	
Crystalline Silica in the form of Quartz	Acetic Acid	Sulfunc Acid, Copper (2+) Salt (1-1)	Acetic Acid, Potassium Salt	I GURSOGNIN ED IV	Tetrasodium EDTA	Acrylamida	Derivs	Sorbitan, Monooleate, Polyoxyethylene	Alcohols, C9-11-Iso- C10-Rich	Sorbitan (2)-9-Octadecenoate (2:3)	Luioxylated	Alconols, C11-14-190-, C13-Rich,	Sodium Chionde	Light	Distillates (Petroleum), Hydrotreated	Oxo-2-Propenyl) Amino]-, Monosodium Salt, Polymer with 2-Propenamide	1-Propanesulfonic Acid, 2-Methyl-2-[(1-	Water	Methanol	Ethanol	Giutaraldehyde	Benzyl-C12-16-Alkyldimethyl Chlorides	Quaternary Ammonium Compounds,	Ethylene Glycol	Water	Isopropanol	Methane Chloro-	Sodium Chloride	Hydrochloride	Amines Dicoco Alkymethyi	Isopropanol	Dicoco Alkyldimethyl, Chlorides	Isodecyl-Omega-Hydroxy	Poly (Ow.1 2-Emanadis) Alaba	Totassium Cillonda	Dotace in Chicade	CHECIVIERIO CIVCOI	Carcion Ciliona	Sodium Chloride	Priosprinate, Socium Sait	2-Propenoic Acid, Polymer with Sodium	Ethylene Glycol	Water	Water		ingrements	
14808-60-7	84-19-7	7758-98-7	127-08-2	04-UZ-8	84 03 0	70.06 4	9005-65-6		68526-85-2	8007-43-0	10330-21-9	79990 24 0	7647-14-5	64742-47-8		38193-60-1		7732-18-5	67-56-1	64-17-5	111-30-8	68424-85-1		107-21-1	7732-18-5	67-63-0	74-87-3	7847-14-5	NA	61788-62-3	67-63-0	61789-77-3	61827-42-7	0-01-2011	144/40-1	1310-73-2	111-40-0	14-7C-C#001	10043-53	129898-01-7		107-21-1	7732-18-5	7732-18-5		Number (CAS #)	Chemical
100 00%	0.10%	0.10%	0.10%	0.10%	0.10%	1.00%	1 00%		1.00%	5,00%	5.00%		5.00%	20.00%		20.00%		40.00%	0.10%	4.50%	4 50%	20 00%		20 00%	20.00%	30.00%	0.10%	0.10%	0.10%	0.10%	1_00%	1 00%	20 00%	/0,00%	70,000	0.50%	0.50%	4,00%	4.00%	15.00%		15 00%	60.00%	100.00%		Concentration in Additive	Maximum Ingredient
21 250 400	233	233	233	233	233	2,333	3 33 34		2,333	11,867	11,667		11.667	46 666		46,666		93,332	36	1,635	1,635	7 265		7,265	7,265	10,897	52	52	52	52	516	516	10,316	36,106	31	100	155	1,244	1,244	4,665		4,665	18.659	129 588 144		(LBS)	Mass per
7035300	0.00015%	0.00015%	0,00015%	0.00015%	0.00015%	0.00134%	0 0015.402		0.00154%	0.00772%	0.00772%		0.00772%	0.03087%		0.03087%		0.06173%	0.00002%	0.00108%	0.00108%	0.00480%		0.00480%	0.00480%	0.00721%	0.00003%	0.00003%	0 00003%	0.00003%	0.00034%	0.00034%	0.00682%	0.02388%	0.00002%	0.00010%	0.00010%	%ZBOOO O	0.00082%	0.00309%		0.00309%	0.01234%	85 71162%	(% by mass)**	in HF Fluid	Ingradient
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		STATE OF THE PARTY						N TO STATE OF THE PARTY OF THE				S Are State and					A 10 10 10 10 10 10 10 10 10 10 10 10 10								1 C C C C C C C C C C C C C C C C C C C							- A BOUL					A CONTRACTOR									Comments	