FORM NO. 22 R 10/	09 SUBMIT	IN QUADRUPLICATE TO:		36.22.307		ie:										
MONT		OIL AND GAS CO		36,22,601	Graham											
		UE, BILLINGS, MO			Lease Type	(Private/State/Fe	deral):									
		ition for Permit To:	THIAIR OUTUE		Private	•	,.									
Drill X	Deepen Deepen	Re-enter	Well Number	er:												
Oil X	Gas F	] Re-enter Other	13-12-1-													
	ck Dog Operating					or Wildcat:										
Address: 6110		I, LLC				lee, Northeast	DECENTER									
City: Houston		ate: TX	Zip: 77055			(if applicable):	RECEIVED									
Telephone Nur		2-541-8334	Zip. 77055		NA		MAR 2 5 2025									
		footage measurements):				ormation(s):	MAIL 2 3 ZOZS									
SWSE, 340' F		,			Bakken		MONTANA BOARD OF CIL									
Sed	ion 13, T291	RSTE on(s) if directional or horizon				G. Range, and Sectio	AS CONSERVATION • BILLI									
Proposed Total Depth	and Bottom-hole Locati	on(s) if directional or horizon	ontal well:		1	57E, Section 13	Tagai									
10021' TVD; 2					County:											
BHL - 220 FSL	_, 1980 FEL, NWNE	, Section 1, T29N, R	57E		Roosevelt											
	Cyder	104-2025			Elevation (indicate GL or KB): 2136' GL											
Size and descr		cing unit and applica	ble order, if any:	F	ormation at t		Anticipated Spud Date:									
		l, 12, & 13; T29N, I			Bakk		6/1/2025									
							57 17 E 0 E 0									
Hole Size	Casing Size	Weight / Foot	Grade (API)	-	Depth	Sacks of Cemen	t 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	•	10388'	660	Class G									
6"	4-1/2"	13.5 lbs/ft	P-110	2	25805'	972	Class G									
Drill 12-1/4" sur 10388' with oil inhibited fresh casing. Hydrau Clean out later	rface hole to 2000' v based (invert) mud. water mud. Run 4-1 lically fracture stimu	Run 7" intermediate /2" liner and cement late well with approx I. Install artificial lift, a	9-5/8" surface cas casing and cemer to liner top at 9455 imately 21250400	sing and at to 2005. 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 25825' with 7" intermediate min over 79 intervals.									
	BOARD	USE ONLY														
Approved (date)	OCT 3 1 202	5 Permit Fee	\$1500			hereby certifies that application is true ar										
	I A. S.	Check Numbe	1.0.00			Dannel	\									
Tec	hnical	Permit Expires	0 0 000	Sigi	ned (Agent)	Danny	Treen									
Title Pro	ngram dinator	Permit Numbe	0.0	Title	PP	etroleum Engine	ering Consultant									
THIS PERMIT IS SUE	SJECT TO THE AD	Number: 25 - () 85	22.068	Dat	е	3/25/2025										
CONDITIONS OF APP STATED ON THE BA		(Manipol. 20 - 0 6 5	20018	- Tele	ephone Numb	er 40	 6-855-6208									
Samples Required:	NONE	∠ ALL	FROM	***		feet to	feet									
		cores to USGS, Core Labor		Consen nue		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:

- 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.

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Montana Mortana Rossevett 25-085-XXXX-00-00 Black Dog Operating, LLC Graham 13-12-1-2H No -104-247407 48 259926 NAD83 10,021 15-556-800 0	State  Gounty API Number  Charled Number  Well Nameded Number  Well Nameded Number  Hiddan Well  Longtude  Longtude  Jantude  Jantude  Total Bass Water Volume (gall  Total Case Von Water Volume
7/20/2025 (proposed)	Job Bint Date
an are one of the chapter of	Attent september

NOWATER SHOW AS A STATE OF THE	Frac Chemical I
Xoil& Gas	Focus Disclosure Registry

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-			STATE OF THE PARTY
	21,250,400		Creatalline Silica, Quarte, Sand
	23,333	10.00	EER4100
100	1.889	1 te (i	BIOCHTERN
	6,222	829	Product 6191
	3111	10.00	ASP F8C200
	15.556,800	8.33	Water
H	Additive Quantity	Specific Gravity	Additive

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Quartz	Crystalline Silica											THE STREET STREET	TOTAL STREET	CONTRACTOR SOUTH					FFR4100								STATE OF THE PARTY	BIOC11139W										THE STATE OF THE S	Product 6191						The second secon			000	ASP ESCOD	Water		Trade Name	CHARLES OF THE STATE OF THE STA
100 大学の大学						The second second second	0		行りとであり、一方			- N - N			Property of the second				ChampionX									ChampionX											ChampionX							A STATE OF THE REAL PROPERTY.		Chamber	ChampionX	Operator	1	Supplier	
Proppant						Chicago Control of the Control of th													Friction Reducer		THE RESERVE OF THE PARTY OF THE							Biocide		1 2 2		Section 1		TOTAL PROPERTY					Surfactant		O COLUMN TO SERVICE OF THE PERSON OF THE PER							Coard IIII DIO	Coale Inhibitor	Carrier		Purpose	
Crystalline Silica in the form of Quartz	Acetic Acid	Summic Acid, Copper (2+) Salt (1:1)	MORIC ACID POTASSIUM SAIT	repasodidii EDIA	Tetraeconia EDTA	Acrylamide	Derrivs	Sorbitan, Monocieate, Polyoxyethylene	Alcohols, C9-11-Iso-, C10-Rich	Sorbitan (Z)-9-Octadecenoate (2:3)	Ethoxylated	AUGUSTON, C. 15-180-, C. 15-1821,	Alcoholic Citata Cita Cita	Coding Chlorida	Disunates (Petroleum), Hydrotreated	Control and A-Properation	1-Propanesulfonic Acid, 2-Methyl-2-[(1- Oxo-2-Propenyl) AminoJ-, Monosodium		Water	Methanol	Ethanol	Gutaraldehyde	Benzyl-C12-16-Alkyldimemyl, Chlondes	Quaternary Ammonium Compounds,	The state of the s	Ethylene Glycol	Water	Isopropanol	Methane, Chloro-	Sodium Chloride	Hydrochloride	Amines, Dicoco Alkymethyl,	Amines, Dicoco Alkymethyl	Isopropanol	Dicoco Alkyldimethyl, Chlorides	Quaternary Ammonium Compounds,	Isodecyl-Omega-Hydroxy	Poly (Oxy-1,2-Ethanediyi), Alpha-	Water	Potassium Chloride	Sodium Hydroxide	Diethylene Givcol	Calculi Chorde	occium Cilionae	Chlorida	Phosphinate Sodium Salt	2 Proposic And Boliman with Southern	Ethidon Clubs	Motor	Winter		Ingredients	
14808-60-7	64-19-7	7758-98-7	127-08-2	D-77-40	6400	30.06	2005-55-5		68526-85-2	8007-43-0	78330-21-9		/64/-14-3	04/424/40	64743 47 0	30193-00-1			7732-18-5	67-56-1	64-17-5	111-30-8	58424-85-1			107-21-1	7732-18-5	67-63-0	74-87-3	7647-14-5	NA		61788-62-3	67-63-0	61789-77-3		61827-42-7		7732-18-5	7447-40-7	1310-73-2	111-48-6	10043-52-4	7047-14-0	7047 14 5	129898-01-7	107-27-1		1702-100	7700 40 5	Number (CAS #)	Abstract Service	Chemical
100 00%	0.10%	0.10%	0.10%	0.10%	U.10%	1 00%	1 000		1 00%	5,00%	5.00%		5.00%	20.00%	2000	20.00%		0000	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%		70,00%	0.10%	0.50%	0.50%	4.00%	4.00%	10.0076	15 00%	10,00%	00.00%	100.00%	400 000	(% by mass)**	Concentration in Additive	Maximum ingredient
21 250 400	233	233	233	233	233	2,333		-	2 333	11.667	11,667		11,667	46,666		46,666		200,000	00000	36	1 635	1,635	7 265			7 285	7.265	10.897	52	52	52		52	516	516		10.316		36 106	31	156	155	1,244	1,244	4,000	A nns	4,665	18,658	129.588,144		(LBS)	Component	Mass per
14 055350	0.00015%	0.00015%	0.00015%	0.00015%	0.00015%	0.00154%		0.001.0010	0.00154%	0.00772%	0 00772%		0.00772%	0.03087%		0.03087%		0.0071070	0.0000270	0.00000	0.00108%	0.00108%	0.00480%			0 00480%	0 00480%	0 00721%	0.00003%	0 00003%	0 00003%		0 00003%	0.00034%	0 00034%		0.00882%		0 02388%	0.00002%	0.00010%	0.00010%	0.00082%	0.00082%	0.000000	2000000	0.00309%	0.01234%	85 /1162%	1% by mass)**	in HF Fluid	Concentration	maximum
			The second second		TOTAL TOTAL OF	0.5				THE PARTY OF THE P																																						The state of the s			NO Substanto	Commonte	ATMONTA
																														0		8		( )		Ž	i d	1	The same of the sa	j	1	ij	100	3							SERVATION - BILLINGS	A BUARD OF OIL &	)