FORM NO. 22 R 10/	09 SUBMIT	IN QUADRUPLICATE TO:	ARM	36.22.307	Lease Nam	e:	
MONT		OIL AND GAS CO	ARM:	36.22.601		n Farms Inc.	
		UE, BILLINGS, MO			Lease Type	(Private/State/Fe	ederal):
		ation for Permit To:			Private		·
Drill X	Deepen	Re-enter			Well Number	ər:	
Oil 🗵	Gas _	Other _			2-11-14-2	2H	
Operator: Bla	ck Dog Operating	ı. LLC			Field Name	or Wildcat:	
Address: 6110		,,			Elm Coul	lee, Northeast	RECEIVED
City: Houston	St	tate: TX	Zip: 77055		Unit Name	(if applicable):	
Telephone Nur	mber: 83	32-541-8334			NA		APR 0 3 2025
Surface Location of V	Veli (quarter-quarter and	footage measurements):			Objective F	ormation(s):	MONTANA BOARD OF OL
	NL, 1614' FEL				Bakken	G	AS CONSERVATION . BILLIN
	a Tagn				Township, F	Range, and Section	
		on(s) if directional or horizo	ontal well:		T29N, R5	57E, Section 13	12
10102' TVD; 2 BHI - 220 FSI		E, Section 14, T29N, F	257E		County:		
DI 12 - 220 1 OL	-, 1000 EE, 3773E	., Jecuon 14, 129N, I	NOTE:		Rooseve	lt	
					Elevation (i	ndicate GL or KB);
		Order 106-20	25		2337' GL		
Size and descr	iption of drilling/spa	icing unit and applica	ble order, if any:	F	ormation at t	otal depth:	Anticipated Spud Date:
1920	Acres (Sections 2	2, 11, & 14; T29N, I	R57E)		Bakk	en	7/1/2025
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	-	10471'	666	Class G
6"	4-1/2"	13.5 lbs/ft	P-110	1 2	25894'	973	Class G
Drill 12-1/4" sur 10471' with oil inhibited fresh casing. Hydrau Clean out later	oe or attach labeled di rface hole to 2000' based (invert) mud. water mud. Run 4-1 lically fracture stimu	. Run 7" intermediate I/2" liner and cement ulate well with approx II. Install artificial lift, a	9-5/8" surface cas casing and cemen to liner top at 9540 imately 21250400	sing and at to 200 o'. Ceme lbs of sa	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 25914' with to "intermediate" min over 79 intervals.
	BOARD	USE ONLY					
Approved (date)	OCT 3 1 2025	Permit Fee	\$15000			hereby certifies that application is true a	
Benjami	in Davis	Check Numbe	r 1090	- Siar	ned (Agent)	Danny	reen
Tech	nnical	Permit Expires	APR 3 0 2021	6	(- 1 3 111)		
	gram	Permit Numbe	r 33 077	Title	PP	etroleum Engine	eering Consultant
THIS PERMIT IS SUB	dinator	I Number 25	00 01	Date	е	4/3/2025	
CONDITIONS OF APPEATED ON THE BA	PROVAL AP	I Number: 25 - <u>685</u>	82099	-		Ar	— 06-855-6208
				Tele	ephone Numbe	er 40	0-000-0200
amples Required:	NONE	X ALL	FROM _			feet to	
Core chip	s to address below, full o	cores to USGS, Core Labo Montana	ratory, Arvada, CO. Re Board of Oil and Gas 2535 St. Johns Avel Billings, MT 5910	Consen		washed, dried and de	livered prepaid to:

RECEIVED

SUPPLEMENTAL INFORMATION

APR 0 3 2025

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

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

- 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.
- 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

Total Basis Non Viller Volumet	TOTAL BALLEY VIOLET VOLUME (GREEN	True Versol Depth (TVD)	Datum	Lathich	Longitude	Indian Wed	Federal With	Water Street Street No.	Constant Number	API Martie	County	Sinto	Job End Date	Job Start Duto:
0	15,556,600	10,104	NAD83	48.301536	-104.266252	No	No	Jacobsen Farms Inc. 2-11-14-2H	Black Dog Operating, LLC	25-085-XXXXX-00-00	Roosevelt	Montana	8/20/2025 (proposed)	8/1/2025 (proposed)

Hydraulic Fracturing Fluid Composition:







157.75			The second second
11/25	21,250,400		Ding Tann S will aimitted.
111	23,333	10.00	FER4100
36,0	3,889	934	BIOCITISTA
- 65	6,222	8.29	Product 6192
TE	3,111	10.00	VSE SECTION
12755	15,556,800	633	Water
Mass (Ibs)	Samuel Sugario	Specific Of avily	CHARACTER

	14.05535%	21,250,400	100,00%	14808-60-7	Crystalline Silica in the form of Quartz	Proppant		Quartz
	0.00015%	233	0.10%	64-19-7	Acetic Acid			Crystalline Silica
	0.00015%	233	0.10%	7758-98-7	d, Copper (2+) Salt (1:1)			
	0.00015%	233	0.10%	127-08-2				
	0.00015%	233	0.10%	04-02-0				
	0.00015%	233	0.10%	1900-1				
	0.00154%	2,333	1.00.00	70.00	nide			
			4 0082	9005-65-6	Derivs			
	0.00154%	2,333	T.UU%	7-09-07000	1			
	0.00772%	11,667	5.00%	8007-43-0	(23)			
	0.00772%	11,66/	0.00%	200001				
			7 008	78330_21_0	-			
	0.00772%	11,66/	2,00%	(df)-145	Jen C13-Bich			
	0.03087%	40,000	E 0087	7647 14 6	m Chloride			
	0.000070	A D D D D D D D D D D D D D D D D D D D	20,00%	64742-47-A				
	0,0000,%	40,000	20.0070		ă			
	0 000070	10 000	20 00%	38193-60-1	_			
					1-Propanesulfonic Acid, 2-Methyl-2-[(1- Oxo-2-Propenyl) Amina!- Monasodii m			
	0.06173%	93,332	40.00%	7732-18-5	Water	Friction Reducer	CHARISTON	11 100
	0.00002%	36	0.10%	67-56-1	igi	744	Champing	EEDAIO
	0.00108%	1,635	4.50%	54-17-5				
	0.00108%	1,635	4.50%	11700	renyue			
	0.00400%	1.200	7 E00/	444 30 8	_			
	0 0000	7 285	20 00%	68424-85-1	Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides			
	0.00480%	7,265	20.00%	10/-21-1	En Mei le CiAcol			
	0.00480%	7.265	20.00%	1132-10-3	77400			
	0.00721%	10.897	30.00%	7793 40 5	Water	Ciocado	or serial property.	
	0.00003%	52	U.10%	14-07-0	1000	Discision	ChampionX	BIOC11139W
	0.00003%	52	0.10%	104/-14-0				
	g/c0000.0	20	0.10%	7647 14 5				
	wedge o	53	0.10%	X X				
	0.00003%	52	0.10%	61788-62-3	Amines, Dicoco Alkymethyl			
	0.00034%	516	1.00%	67-63-0				
GAS CONSTRVATION - BILLINGS	0.00034%	516	1.00%	61/89-77-3	Dicoco Alkykamernyi, Chionoes			
CAS CONST					Quaternary Ammonium Compounds,			
BOARD OF OF	0.00682%	10,316	20,00%	61827-42-7	Isodecyl-Omega-Hydroxy			
	0.02388%	36,106	70.00%	7732-18-5	Water	Sunaciant	ChampionX	Floduct of 81
AFT U 3 2023	0.00002%	31	0.10%	7447-40-7	Potassium Chloride			Dod of Bridge
-	0.00010%	155	0.50%	1310-73-2	Sodium Hydroxide			
	0,00010%	155	0.50%	111-46-6	Diethylene Glycol			
	0.00082%	1,244	4.00%	10043-52-4	Calcum Chlonds			
	0.00082%	1,244	4.00%	7647-14-5	Sodium Chionde		-	
じ「つ「一く「つ	0.00309%	4,665	15.00%	129898-01-7	Priosprinate, Sodium Salt			
					2-Propenoic Acid, Polymer with Sodium			
	0.00309%	4,665	15.00%	107-21-1	Ethylene Glycol			
	0.01234%	18,659	60,00%	7732-18-5	Water	Scale Inhibitor	ChampionX	ASP FSCZUU
	85.71162%	129,588,144	100,00%	7732-18-5	Water	Carrier	Operator	water
	Office and Selling	lean	Comment for all	for county touchisters				
Commenta	Concentration	Component	Contentration in Additive	ADSTRUCT SERVICE	Management	cappan	anippor	
	Ingredient	Mass per		Chantical	The state of the s	Districts	Supplier	Trade Name
	Transcription of the least							