FORM NO. 22 R 10/0	09 SUBMIT	IN QUADRUPLICATE TO:	ARM 3	6.22.307	Lease Nam	e:		1
MONTA	ANA BOARD OF	OIL AND GAS CO		6.22.601	Jacobsei	n Farms Inc.		
		UE, BILLINGS, MC			Lease Type	(Private/State/Fed	deral):	1
		ation for Permit To:			Private			
Drill X	Deepen	Re-enter			Well Number	er:		1
Oil X	Gas	Other			2-11-14-4	4H		
Operator: Blad	ck Dog Operating	, LLC			Field Name	or Wildcat:		1
Address: 6110	Clarkson Ln				Elm Coul	ee, Northeast	RECEIVED	
City: Houston	S	tate: TX	Zip: 77055		Unit Name (if applicable):	TALVILLE IN THE	
Telephone Nun	nber: 83	32-541-8334			NA		APR 0 3 2025	
Surface Location of W	/ell (quarter-quarter and	footage measurements):			Objective Fo	ormation(s):		
NWNE, 343' FI		1			Bakken	e	MONTANA BOARD OF OAS CONSERVATION • BIL	
	2, T29N, R				Township, F	Range, and Section		LING
		ion(s) if directional or horizo	ntal well:		T29N, R5	7E, Section 13	2	
10102' TVD; 26		V, Section 14, T29N, F	9670		County:			
Bric - 220 GE	, 000 F VVL, GVVGV	v, Section 14, 12914, 1	NOTE.		Roosevel	lt -		
					Elevation (i	ndicate GL or KB):		
		Order 10ce-	2025		2337' GL			
Size and descri	ption of drilling/spa	cing unit and applicat		F	ormation at t	otal depth:	Anticipated Spud Date:	
1920 A	Acres (Sections 2	2, 11, & 14; T29N, I	R57E)		Bakke	en	7/1/2025	
Hole Size	Casing Size	Weight / Foot	Grade (API)	ř	Depth	Sacks of Cemen	tl Turn of Comment	ĺ
12-1/4"	9-5/8"	36.0 lbs/ft					71	
			J-55		2000'	549	Class C (Type III)	
8-3/4"	7"	32.0 lbs/ft	P-110		11101'	716	Class G	
6" Describe Propose	4-1/2"	13.5 lbs/ft	P-110	2	26516'	972	Class G	
Drill 12-1/4" sur 11101' with oil t inhibited fresh v casing. Hydraul Clean out latera	face hole to 2000' pased (invert) mud vater mud. Run 4-1 ically fracture stimi	iagram of blowout preve with fresh water. Run . Run 7" intermediate I/2" liner and cement ulate well with approx II. Install artificial lift, a nal details.	9-5/8" surface casi casing and cement to liner top at 10179 imately 21250400 li	ing and to 200 9'. Cem bs of sa	I cement to s 10' from surfa nent bond log and in 37040	surface. Drill 8-3/4" ace. Drill 6" lateral g and pressure tes 00 bbls at 90 bbls/r	to 26536' with t 7" intermediate min over 79 intervals	
	BOARD	USE ONLY		1				
Approved (date)	OCT 3 1 202	Permit Fee	\$15000			hereby certifies that tapplication is true an		
By Benjamin	1 Dais	Check Number		Sigr	ned (Agent)	Danny	reen	
7711	chnical	Permit Expires	APR 3 U 2026	0.0	_			
	ogram rdinator	Permit Number	33079	Title	Pe	etroleum Engine	ering Consultant	
THIS PERMIT IS SUB.		Number: 25 - 085	-22096	Date	•	4/3/2025	_ 0	
STATED ON THE BAC				Tele	phone Numbe	er 406	6-855-6208	
Complex Description	NONE	v						
Samples Required: Core chips	NONE s to address below, full	ALL cores to USGS, Core Labor	FROM	uired ear	noles must be w	feet to_	vered prepaid to:	
			Board of Oil and Gas (/ation		· ·	
			2535 St. Johns Aven Billings, MT 59102	ue		085220) 96	

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

- 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)
ICES	

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.

08522096

Hydraulic Fracturing Fluid Product Component Information Disclosure

State Operation Number Operation Number Operation Number Exported Number Exported Number Exported Number Exported Number Exported Number Exported Number Operation Number Operation Number Operation Operation Operation Operation O
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Specific Gravity Additive Quantity 13: 15,256,201 15,256,201 15,256,201 15,256 15,252 15,255

		14.05535%	21,250,400	100.00%	14808-60-7	Crystalline Silica in the form of Quartz	Proppant		Quartz
		0.00015%	233	0.10%	04-18-/				Crystalline Silica,
		0.00015%	233	0.10%	1.08-00-1	Acetic Acid			
		0.00015%	233	0.10%	7-00-171				
		0.00015%	233	0.10%	127 08 2	m Salt			
		0.00003%	233	0.10%	BA 03 8	FOTA			
		0.00104%	2,000	0.40%	79-06-1	nide			
		0 004548	2 222	100%	9005-65-6				
		0.00154%	2,333	1:00/6	1000	thylana			
		0.00772%	1,00/	1 0000	68526-85-2	1			
		0.277700.0	11,007	5,00%	8007-43-0	-9-Octadecenoate (2:3)			
		0.007700	44 667	7 00%	78330-21-9	Ethoxylated			
		0.00772%	11,667	5,00%	(0-41-140)	Alcohols C11-14-Iso- C13-Rich			
		0.03087%	46,666	20.00%	04/4/-4/-0	Coding Chloride			
				20 2007	2742 47 0	Distillates (Petroleum), Hydrotreated			
		0.03087%	46,668	20.00%	38193-60-1	Salt, Polymer with 2-Propenamide			
						1-Propanesulfonic Acid, 2-Methyl-2-[(1- 0xo-2-Propenyl) Amino]-, Monosodium			
		0.06173%	93,332	40.00%	//32-18-5	ANGUE	Lindon Vadacet	Civilipiolity	
		0.00002%	36	0.10%	07-00-1	Michael Michae		ChampionX	FFR4100
		0.00108%	1,635	4.30%	ON-17-0	Mothanol			
		0.00108%	1,630	4,5076	84 17 6	Fihanol			
		0.00400%	7.200	A 5000	111-30-A	_			
		0 004008	7 265	20,00%	68424-85-1	Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides			
		0.00480%	7,265	20,00%	107-21-1	Ethylene Glycol			
		0.00480%	7,265	20.00%	//32-18-5	ANGIGI			
		0.00721%	10,897	30.00%	07-03-0	lacel obstroi	Tiones.		
		0.00000%	52	0.10%	1407-0		Bocide	ChampionX	BIOC11139W
		0.00003%	22	0.10%	74 87 3				
		0.00003%	52	0.10%	7647-14-5	Sodium Chloride			
		0.00000	3	0.10%	Z	Hydrochloride			
		0.00003%	20	0.10%	0.7000110	Amines Dicoco Alkymethyl			
_		0.00034%	010	0.00%	61789 67 3	Amines Dimon Allomethyl	Contract of		
FRVATION • BILLINGS	CAS CONSI	0.00034%	210	1,00%	67-63-0	Isopropano			
	MONTAN	0 0000487	n n	1 00%	61789-77-3	Quaternary Ammonium Compounds, Dicoco Alkyldimethyl. Chlorides			
		0.00682%	10,316	20.00%	61827-42-7	Poly (Cxy-1,2-Emanedyl), Alpha- Isodecyl-Omega-Hydroxy			
C202 C0	1	0.02388%	36,106	70.00%	7732-18-5	Water	Sunaciam	CHAMIDION	Liedor otal
_	A D	0.00002%	31	0.10%	7447-40-7	Potassium Chloride			0000
		0.00010%	155	0.50%	1310-73-2	Sodium Hydroxide			
		0.00010%	155	0.50%	111-46-6	Dietriyiene Giycol			
1117	, , ,	0.00082%	1,244	4.00%	10043-52-4	Calcium Chionge			
	T	0.00082%	1,244	4.00%	7647-14-5	Sodium Chionde			
]	0.00309%	4,685	15.00%	129898-01-7	Phosphinate, Sodium Salt			
		The second section in				2-Propencic Acid, Polymer with Sodium			
		0.00309%	4,665	15.00%	107-21-1	Ethylene Glycol			
		0.01234%	18,659	80.00%	7732-18-5	Water	Scale Inhibitor	ChampionX	MOF FOLZOO
		85.71162%	129,588,144	100.00%	7732-18-5	Water	Camer	Operator	Applea
		1% by mass)**						Oncerto	Mator
		in HF Fluid	(LBS)	(% by mass)**	Number (CAS a)				
	Community	Concentration	Component	Concentration in Additive	Abstract Service	ingradients	Purpose	Supplier	Trade Name
0		Ingradiant	Mass per	Madditum Ingradient	Chentical				
)		Maximum							