

FORM NO. 22 R 10/09	SUBMIT IN QUADRUPPLICATE TO:	ARM 36.22.307 ARM 36.22.601	Lease Name: Sundance Kid
MONTANA BOARD OF OIL AND GAS CONSERVATION 2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102			Lease Type (Private/State/Federal): Private
Application for Permit To:			Well Number: 4H
Drill <input checked="" type="checkbox"/>	Deepen <input type="checkbox"/>	Re-enter <input type="checkbox"/>	Field Name or Wildcat: Wildcat Richland RECEIVED
Oil <input checked="" type="checkbox"/>	Gas <input type="checkbox"/>	Other <input type="checkbox"/>	
Operator: Prima Exploration, Inc. Address: 250 Filmore St, Suite 500 City: Denver State: CO Zip: 80206 Telephone Number:			Unit Name (if applicable): N/A MAY 06 2021
Surface Location of Well (quarter-quarter and footage measurements): SW 1/4 SE 1/4 Sec. 24 T25N R58E 240' FSL 2333' FEL			Objective Formation(s): Bakken MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS
Proposed Total Depth and Bottom-hole Location(s) if directional or horizontal well: TD - 20,967' MD. BHL - NE 1/4 NE 1/4 Sec. 13 T25N R58E 250' FNL 550' FEL			Township, Range, and Section: T25N R58E Section 24
			County: Richland
			Elevation (indicate GL or KB): 2196' GL
Size and description of drilling/spacing unit and applicable order, if any:		Formation at total depth:	Anticipated Spud Date:
1280 Acre Section 24/13, MT Order 39-2020		Bakken	8/1/2021

Hole Size	Casing Size	Weight / Foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
13 1/2"	9 5/8"	36#	J-55 LTC	2,200'	605	See Attached
8 3/4"	7"	32#	P110 BTC	10,878'	660	See Attached
6"	4 1/2"	13.5#	P110 BTC	20,967'	545	See Attached

Describe Proposed Operations:
Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.
Please see attached programs.
Prima Exploration, Inc. requests variance to NOT run Open hole logs on the subject well. Offset logs can be found for the Whiting Petroleum Corporation, Hunter #1, Sec. 24 T25N R58E, Richland County, MT.

BOARD USE ONLY <i>By Cimix Consulting Inc.</i>	
Approved (date) <u>MAY 17 2021</u>	Permit Fee <u>\$150.⁰⁰</u>
By <u><i>[Signature]</i></u>	Check Number <u>5375</u>
Title <u>Petroleum Engineer</u>	Permit Expires <u>NOV 17 2021</u>
	Permit Number <u>321004</u>
THIS PERMIT IS SUBJECT TO THE CONDITIONS OF APPROVAL STATED ON THE BACK	API Number: 25 - <u>083 - 23423</u>
	The undersigned hereby certifies that the information contained on this application is true and correct:
	Signed (Agent) <u><i>[Signature]</i></u>
	Title <u>Ren Gardner - Agent/Pet Engineer</u>
	Date <u>5/3/2021</u>
	Telephone Number <u>406-259-4878</u>

Samples Required: NONE ALL _____ FROM _____ feet to _____ feet
Core chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

SUPPLEMENTAL INFORMATION

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

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:
 - 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:

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WARNING: Failure to comply with conditions of approval may void this permit.

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED

Fracture Start Date/Time:	
Fracture End Date/Time:	
State:	
County:	
API Number:	
Operator Number:	
Well Name:	
Federal Well:	
Longitude:	
Latitude:	
Long/Lat Projection:	
True Vertical Depth (TVD):	
Total Clean Fluid Volume* (gal):	8,344,602

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Additive	Specific Gravity	Additive Quantity	Mass (lbs)
Water	8.34	8,344,602	69,593,981
DVA-75	(already reported in lbs)	378	378
FRP-1S	9.17	15,937	146,206
HCL-1S	8.95	7,500	67,140
Liberty Clean Out Fluid	6.81	20	136
BioClear 5000	9.34	834	7,790
SurfFlo 430	8.26	8,338	68,889
Crystalline Silica Quartz / US Silica	(already reported in lbs)	10,164,375	10,164,375
DP-36S	8.76	2	13
ACI-300	8.76	30	263
WA-100	8.92	15	134
IC-50S	10.84	60	630
Total Slurry Mass (Lbs)			80,049,852



Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier	Carrier	7732-18-5	100.00%	69,593,981	86.93819%	
DVA-75	Liberty Oilfield Services	Diverting Agent	MSDS and Non-MSDS Ingredients Listed Below					
FRP-1S	Liberty Oilfield Services	Friction reduction	MSDS and Non-MSDS Ingredients Listed Below					
HCL-1S	Liberty Oilfield Services	Solvent	MSDS and Non-MSDS Ingredients Listed Below					
Liberty Clean Out Fluid	Liberty Oilfield Services	Cleanup Solution	MSDS and Non-MSDS Ingredients Listed Below					
BioClear 5000	Imnospec	Bioocide	MSDS and Non-MSDS Ingredients Listed Below					
SurfFlo 430	Imnospec	Flocculant Additive	MSDS and Non-MSDS Ingredients Listed Below					
Crystalline Silica Quartz / US Silica	Liberty Oilfield Services	Sand	MSDS and Non-MSDS Ingredients Listed Below					
DP-36S	WST	Defoamer	MSDS and Non-MSDS Ingredients Listed Below					
ACI-300	WST	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below					
WA-100	WST	Wetting Agent	MSDS and Non-MSDS Ingredients Listed Below					
IC-50S	WST	Iron Control	MSDS and Non-MSDS Ingredients Listed Below					
The trade name(s) of the additive(s) used, supplier(s), and the purpose(s) of the additive(s) are listed above. The ingredient(s) for the above additive(s) are listed below.								
	Liberty Oilfield Services	Sand	Crystalline Silica (quartz)	14808-60-7	99.90%	10,154,211	12.66484%	
	Liberty Oilfield Services	Sand	Aluminum Oxide	1344-28-1	1.00%	101,644	0.12698%	
	Liberty Oilfield Services	Friction reduction	Petroleum distillates, hydro-treated light	64742-47-8	45.00%	65,793	0.08219%	
	Imnospec	Flocculant Additive	Water	7732-18-5	95.00%	65,444	0.08175%	
	Liberty Oilfield Services	Solvent	Water	7732-18-5	85.00%	57,069	0.07129%	
	Liberty Oilfield Services	Sand	Iron Oxide	1309-37-1	0.10%	10,164	0.01270%	
	Liberty Oilfield Services	Sand	Titanium Oxide	13463-67-7	10.00%	10,071	0.01258%	
	Imnospec	Flocculant Additive	Hydrochloric Acid	7647-01-0	15.00%	6,889	0.00861%	
	Imnospec	Flocculant Additive	Benzene/sulfonic acid, dodecyl-emp, with 2-aminoethyl	26836-07-7	10.00%	6,889	0.00861%	
	Imnospec	Friction reduction	Dodecylbenzenesulfonate, triethanolamine salt	27323-41-7	10.00%	4,286	0.00548%	
	Imnospec	Friction reduction	Poly(oxo-1,2-ethanedithiol-2-ylidene-1,4-bis-thioxy)-branched	69011-36-5	3.00%	3,444	0.00430%	
	WST	Flocculant Additive	Sodium Alpha Olefin Sulfonate	68439-57-6	5.00%	3,900	0.00499%	
	WST	Iron Control	2,2-dibromo-3-methylpropanamide	10222-01-2	60.00%	389	0.00049%	
	Liberty Oilfield Services	Bioocide	Polyacide Resin	9051-89-2	5.00%	378	0.00047%	
	Liberty Oilfield Services	Diverting Agent	Oxegenate and paraffinic stream	876065-86-0	100.00%	135	0.00017%	
	WST	Cleanup Solution	Ethoxylated Decyl Alcohol	78330-20-8	40.00%	54	0.00007%	
	WST	Corrosion Inhibitor	2-Propen-1-ol compound with methoxisilane	38172-91-7	15.00%	39	0.00005%	
	Imnospec	Flocculant Additive	Tetranolamine	102-71-6	0.01%	6	0.00001%	
	Imnospec	Flocculant Additive	Ethanolamine	141-43-5	0.01%	6	0.00001%	
	Liberty Oilfield Services	Cleanup Solution	C.I. Solvent Yellow 33	8005-22-3	1.00%	1	0.00000%	
	WST	Defoamer	Polypropylene Glycol	25522-69-4	10.00%	1	0.00000%	
	WST	Defoamer	Polydimethylsiloxane	63148-62-9	6.00%	1	0.00000%	

*Total Water Volume sources may include fresh water, produced water, and/or recycled water.
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(f) and Appendix D.