

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

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JAN 27 2020

SUNDRY NOTICES AND REPORT OF WELLS

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Operator Denbury Onshore, LLC		Lease Name: Unit
Address 5320 Legacy Drive		Type (Private/State/Federal/Tribal/Allotted): Fee
City Plano State TX Zip Code 75024	Well Number: 35-15R	
Telephone 972-673-2000 Fax	Unit Agreement Name: BCCMU	
Location of well (1/4-1/4 section and footage measurements): SWSE Sec. 35, T8S - R54E 230' FNL & 671' FEL 598' FSL 1882' FEL		Field Name or Wildcat: Bell Creek
API Number: 25 075 22463	Well Type (oil, gas, injection, other): Oil	Township, Range, and Section: T8S - R54E, Sec. 35
State County Well	County: Powder River, MT	

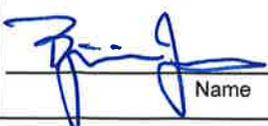
Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input checked="" type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) <u>Fracture Stimulate</u>	<input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Denbury requests approval to fracture stimulate the subject well. Please see attached procedure and wellbore diagram for additional information. A treatment report has been included from the service company along with the necessary CAS numbers.

BOARD USE ONLY	
Approved <u>JAN 28 2020</u>	Date
	Name
	Title

The undersigned hereby certifies that the information contained on this application is true and correct:

01/24/2019	
Date	Signed (Agent)
Naomi Johnson - Regulatory Compliance Specialist	
Print Name and Title	
Telephone: _____	972-673-2000

SUPPLEMENTAL INFORMATION

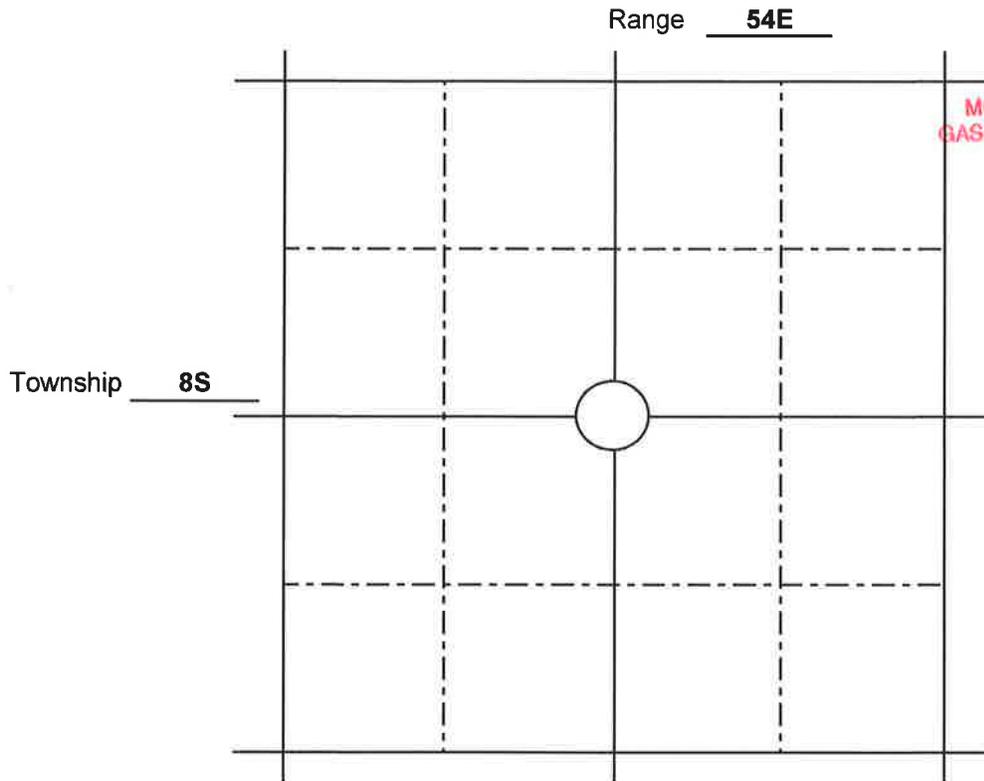
NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.

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CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

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

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PROCEDURE to Stimulate Well

Bell Creek Unit 35-15R

Well Status: Active Producer

Sec 35 – T8S - R54E

API # 25075224630000

Lat: 45°5'34.192"N

Long: 105°3'57.705"W

Powder River County, MONTANA

This is a FEE well

OBJECTIVE OF OPERATION:

Test production tubing to max treating pressure – Perform hydraulic fracture stimulation on the Muddy–
Flow back well - Release to Production

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1. **NOTE: Check local Well File before beginning job.**
2. **Pre-Job: Confirm Sundry approval. Secure Wellhead, Flowline, and Electrical. Notify BLM/State as required.**
3. MIRU SL. RIH with 1-1/4" bailer and tag bottom. Record depth. TOO. RDMO SL.
 - a. Notify Plano if tag high for path forward. Jar for sample if high.
4. MIRU Hot-oiler. PT Production Casing as directed below. RDMO Hot-oiler.
 - a. **Test to a maximum anticipated PCP of 1500psi for 15 min. Chart it – no more than 10% pressure loss.**
 - i. If casing fails – contact Plano for procedure moving forward.
5. MIRU SL. PU PX plug. RIH & set in X nipple at the packer. TOO. RDMO SL.
6. Bleed off pressure and ensure tubing & casing are dead.
7. Install BPV. ND WH. NU BOP. Test as per Denbury Standards. Remove BPV.
8. Install 6ft x 2-7/8" L-80 pup, 2-7/8 to 3" 1502 Xover, & 3" 1502 Plug Valve.
 - a. **Ensure all hammer union connection are whip-checked / secured in the case of an uncontrolled release of pressure.**
9. Close Pipe Rams. MIRU Clean Hot-oiler. PT tubing as directed below. RDMO Hot-oiler.
 - a. **Test tubing to maximum anticipated treating pressure @5000# for 15 minutes. Chart it - no more than 10% pressure loss. Hold 1000# on the backside (As anticipated for job).**
 - i. If tubing fails – contact Plano for procedure moving forward.
 - b. Bleed off casing to 0psi and **tubing to SI pressure when prong was set.**
10. MIRU SL. RIH and retrieve prong & PX plug.
11. MIRU 400bbl upright tank. Ensure clean – use hot-oiler if necessary.
 - a. Fill tank with 400bbbls of BIDDLE water.
12. MI Flowback Tank and 1502 iron for Flowback/ Frac Operation Relief if necessary.
13. MIRU clean Hot-oiler. Roll tank to 80-100degF (depending on the Weather). RDMO Hot-oiler.
14. MIRU Frac Company & Equipment. (Estimated 4-8 hr job -less than 30 minutes of pump time).
 - a. Frac Company responsible for ~20,000# 16/30 sand, frac fluid additives, and all frac equipment.

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Frac Additives				
Materials	U.O.M.	LOADING PER/1000 GALLONS		
		Fluid 1 1,910	Fluid 2 10,250	Totals
WG-1SLR, Slurried Guar Gel	gal	5	5	61
NE-1, Non Emulsifier (Nonionic)	gal	2	2	25
BIO-2L, Liquid Biocide (THPS)	gal	0	0.2	3
Buffer-4L, High pH (sodium hydroxide)	gal	0	0.1	2
XLB-1, Self Buffered Borate Crosslinker	gal	0	1.5	16
B-4LE, High pH/Low Temp. <140°F Enzyme Break	gal	0	0.3	4
B-1, Oxidizer Breaker (AP)	gal	1	1	13
KCL-2Sub, KCl Substitute (anionic product toleran	gal	2	2	25

preliminary design - final job volumes to be submitted in post job report

- b. **2 pressure relief valves will be installed on treating lines between pumps and wellhead to limit the line pressure to max anticipated treating pressure.**
 - c. **Pressure the Production Casing to 800-1000psi prior to job. Hold & monitor with gauge. Set pop-off at 1400psi (100psi less than PT).**
15. Close 3" Plug Valve. Install 3" Hydraulic valve & test to treating pressure prior to frac.
 - a. **Hydraulic valve will be hooked up during frac to accumulator and serve as the remote controlled shut-in device AT THE WELL HEAD.**

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16. Perform breaker test with Biddle water from tank/X-linker & Breaker prior to job.
 - a. Record vortex closure time, crown time, and lip time of Xlinked fluid, and ensure fluid breaks prior to pumping (note any visible residue) and the time it takes to break @ 80-100°F
17. Establish 8-10bpm injection rate with 20# gel for 30 bbls. Record ISIP.
 - a. Note friction pressure of 20# gel at various rates
18. Pump the program recommended and attached. Hook up Frac equipment to pull off of 400bbl upright. Hook up diverter line to the flowback equipment.
 - a. Note additional friction pressure from X-linker. (inject X-liner directly into the blender discharge pump if possible)
 - b. Subject to additional pumping depending on pressures.
 - c. Prior to Flush - Drop tub level and bypass tub
 - d. Call flush once the proppant concentration at the inline densometer drops below 3.5ppg
 - i. Confirm with Frac company about bypassing or dropping tub level prior to flush.
 - e. End flush 1bbl prior to perforations. **Do NOT over flush.** This will allow for a cleaner interface downhole between the 4ppg proppant stage and the flush volume.
 - i. Talk with Frac company about washing out gel and proppant in blender tub through the prime up / bleed off line

Frac Schedule									
STG No.	Proppant Lbs./Gal.	Stage Gals.	Fluid Type or Comment	Proppant Type or Stage Description	Stage/lbs. Proppant	Clean Rate	Clean Bbls.	Slurry Bbls.	Stage Time.
1	0	1260	20# Linear	Pre-Pad	-	30	30	10	3
2	0	3000	20# X-Link	Pad	-	10	71	71	7.1
3	1	1500	20# X-Link	SLF 16/30 White	1,500	9.6	36	37	3.7
4	2	1500	20# X-Link	SLF 16/30 White	3,000	9.2	36	39	3.9
5	3	1500	20# X-Link	SLF 16/30 White	4,500	8.8	36	41	4.1
6	4	1500	20# X-Link	SLF 16/30 White	11,000	8.5	65	77	4.2
7	0	500	20# Linear	Flush	-	10	16.46	16.46	2.5

preliminary design - final job volumes to be submitted in post job report

19. Record the ISIP @5, 10, & 15 minutes after pumping.
20. RDMO Frac Company & Equipment.
 - a. Send pump chart and other necessary data to the Plano office.
21. RU 1502 iron & manifold to Gas Buster. Flowback the well as directed by Plano.
 - a. **Flowback 1.5x tubing volume no greater than 1bpm during the initial flowback.** Once the tubing volume has been recovered, continue to flowback the well **no greater than 2 bpm** until either the returns are proppant free and a sufficient amount of load volume has been recovered (greater than 100% of the clean volume pumped), the flow back tank has reached its capacity, or the well or is unable to flow under its own pressure anymore. Record total volume recovered.
22. MIRU slickline. RIH w/ 1-1/4" bailer and tag TD. Record depth. TOOH.
 - a. Notify Plano if tag high before moving forward. Jar for sample if high.
23. PU PX plug. RIH and set in X nipple above packer in SA. TOOH. RD SL. Bleed tubing Opsi.
24. Install BPV. RD BOP and associated equipment. NU Wellhead. Test. Remove BPV.
25. MIRU Clean Hot-oiler. Pressure up tubing to SI pressure when prong was set. RDMO Hot-oiler.
26. RU SL. RIH and retrieve PX plug in SA. TOOH. RDMO SL.
27. Release to operations.

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Denbury		Tbg - Perfs		Bell Creek Unit #A 35-15R C02						
Sect 35	Twp 8 S	Range 64 E	Reg E	Surface Legal Location:						
Field Name	API/UVI	State ID#	Well Status	Well Configuration Type	Assoc. Test Site					
Bell Creek C02	25075224630000		A - Active							
Gr Elev (ft)	Orig. GS Elev (ft)	GS Elev (ft)	Total Depth, A - TDS	Total Depth, TTD - TDS	PSD A - TDS					
3,812.60	3,826.60	13.00	Original Hole - 4,490.0	Original Hole - 4,460.8						
Start Date	TD Date	Rig Release Date	Completion Start Date	Completion End Date	On Production Date					
12/4/2019	12/14/2019	12/19/2019	12/23/2019	12/31/2019						
Original Hole: 12/30/2019 10:00:00 AM										
		Tubing								
		Tubing Description	Set Depth (ft)	Run Date	Per Date					
		Tubing - Production								
Job	Item Desc	Com	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Cond Run	Top (ft)
	Tubing Hanger		6.98	2.441			EUE	0.95	New	13.0
	Pin by Pin Sub		2 7/8	2 3/8			TTS-8	0.44	New	14.0
1	J-55 TTS-8 TIGHT		2 7/8	2.359	6.50	J-55	TTS-8	29.98	New	14.6
	Pup joint		2 7/8	2.359		L-80	TTS-8	4.03	New	44.4
	Pup joint		2 7/8	2.359		L-80	TTS-8	0.85	New	48.4
125	J-55 TTS-8 TIGHT		2 7/8	2.359	6.50	J-55	TTS-8	3,821.13	New	49.3
	Injection Mandrel		2 7/8	2.441		J-55	TTS-8	3.83	New	3,870.4
14	J-55 TTS-8 TIGHT		2 7/8	2.359	6.50	J-55	TTS-8	427.06	New	3,874.3
	TTS-8 Sub x G.S. Pn.		3 1/4	2 3/8			TTS-8	0.85	New	4,301.3
	G.S. Sub x G.S. Pn.		3 11/16	2			EUE	0.89	New	4,302.2
	Baker-L-10 On-Off Tool		3 3/4	1 7/8			EUE	1.51	New	4,302.9
	L-10 String w/ 8PS		2.9	1 7/8				0.03		4,304.4
	Baker-Horrel Packer		4.1	1.935			EUE	7.13		4,304.4
	Profile Nipple		3 1/16	1.791				1.06		4,311.6
	Wireline Guide		3 1/16	2			EUE	0.42		4,312.6
Perforation Statuses										
Date	Top (ft)	Bot (ft)	Status	Linked Zone						
12/29/2019	4,352	4,372	Open							
1-3, Baker Horrel Packer: 1 3/4; 4.10; 4,304.28; 4,311.52		1-14, Profile Nipple: 1 7/8; 3 1/16; 4,311.52; 4,312.58								

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PRESSURE PUMPING LLC

CAS INFORMATION:

Additive	Max Loading/ 1000 Gal	Specific Gravity	Additive Quantity	Mass (lbs)
Water (Customer Supplied)	1,000.00	1.00	12,160	101,475
WG-1SLR, GUAR SLURRY	5.00	1.04	61	550
BIO-2L BIOCIDE	0.30	1.00	4	33
NE-S-1 NON EMULSIFIER SURFACTANT	2.00	0.95	25	198
NLB-1, CROSSLINKER	1.50	1.35	16	180
B-1, BREAKER	2.00	2.85	25	35
B-4LE, ENZYME BREAKER	0.30	1.03	4	31.4
KCI-2SUB, KCI SUBSTITUTE	2.00	1.08	25	275
NORTHERN WHITE SAND	4,000.00	2.65	10,000	26,000
				Total Slurry Mass (Lb.):
				122,703

Name	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Total Component Mass in HF Fluid (lbs)	Maximum Ingredient Concentration in HF Fluid (% by mass)**
Water (Customer Supplied)	Water	7732-18-5	100.00%	101,475	82.50001%
NORTHERN WHITE SAND	Silica Quartz	14808-60-7	100.00%	26,000	16.28955%
WG-1SLR, GUAR SLURRY	Solvent Naphtha (pet.) heavy aliphatic	64742-47-8	60.00%	318	0.33937%
	Guar Gum	8000-30-0	50.00%	265	0.21614%
NE-S-1 NON EMULSIFIER SURFACTANT	Methanol	67-58-1	50.00%	60	0.04851%
KCI-2SUB, KCI SUBSTITUTE	Choline Chloride	67-48-1	70.00%	158.0	0.12878%
	Water	7732-18-5	30.00%	6.7	0.05519%
NLB-1, CROSSLINKER	Water	7732-18-5	60.00%	188.2	0.08814%
	Potassium Hydroxide	1310-58-3	30.00%	54.1	0.04407%
	Boric Acid	10043-35-3	50.00%	54.1	0.04407%
B-1, BREAKER	Azoxobenzene persulfate	7727-54-0	100.00%	25.0	0.02057%
	Water	7732-18-5	90.00%	38.9	0.03232%
B-4LE, ENZYME BREAKER	Sodium Chloride	7647-14-5	15.00%	3.2	0.00420%
	Mannanase Enzymes	37288-54-3	2.00%	0.7	0.00056%
BIO-2L, BIOCIDE	Tetrasulfonate (hydroxyethyl) Phosphonium Salt	55566-30-8	20.00%	6.7	0.00543%
	Water	7732-18-5	80.00%	26.7	0.02176%

100.00%

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