

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

402878621

BRADENHEAD TEST REPORT

Step 1. Before opening any valves, record all tubing and casing pressures as found.

Step 2. Collect liquid and gas samples as required; consult Bradenhead Testing and Reporting Instructions and Guidance for field specific Orders at

<http://cogcc/reg.html#/opguidance>

Step 3. Conduct Bradenhead test.

Step 4. Submit Form 17 within 10 days of test. Attach a wellbore diagram if not previously submitted or if wellbore configuration has changed since last wellbore diagram was submitted.

Step 5. Submit sample analytical results via Form 43.

1. OGCC Operator Number: 10683 3. BLM Lease No: _____

2. Name of Operator: HRM RESOURCES III LLC

4. API Number: 05-081-07450-00 5. Multiple completion? ☐ Yes ☐ No

6. Well Name: SPARKS RIDGE UNIT Number: 2 H

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW,7,11N,101W,6

8. County MOFFAT 9. Field Name: SAND WASH
HORIZONTAL
MANCOS

10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11/18/2021

12. Well Status: ☐ Flowing☒ Shut In ☐ Gas Lift☐ Pumping ☐ Injection☐ Clock/Intermitter☐ Plunger Lift

13. Number of Casing Strings:

☐ Two ☒ Three ☐ Liner?

14. EXISTING PRESSURES

Record all pressures as found	Tubing: 38 Fm: BXTR	Tubing: _____ Fm: _____	Prod Csg 689 Fm: BXTR	Intermediate Csg: 0	Surf. Csg 110
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BRADENHEAD TEST

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (Bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals.

Describe character of flow in "Bradenhead Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Bradenhead Fluid" column: H = Water H₂O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = None

Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:	Bradenhead Fluid:
Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	00:00	BXTR 38		689	0	NO FLOW	NONE
BRADENHEAD SAMPLE TAKEN?	05:00	BXTR 38		689	0	NO FLOW	NONE
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	10:00	BXTR 38		689	0	NO FLOW	NONE
Character of Bradenhead fluid:	15:00	BXTR 38		689	0	NO FLOW	NONE
<input type="checkbox"/> Clear <input type="checkbox"/> Fresh	20:00	BXTR 38		689	0	NO FLOW	NONE
<input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black	25:00	BXTR 38		689	0	NO FLOW	NONE
Other:(describe)	30:00	BXTR 38		689	0	NO FLOW	NONE
No Fluid	REQUIRED - Instantaneous Bradenhead Pressure at End of Test: 0 PSIG						

INTERMEDIATE CASING TEST

With gauges monitoring production, intermediate casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals.

Describe character of flow in "Intermediate Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Intermediate Fluid" column: H = Water H₂O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = None.

Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermediate Csg PSIG	Intermediate Flow:	Intermediate Fluid:
	00:00	BXTR 38		689	0		NONE
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	05:00	BXTR 38		689	0		NONE
	10:00	BXTR 38		689	0		NONE
	15:00	BXTR 38		689	0		NONE
	20:00	BXTR 38		689	0		NONE
Character of Intermediate fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black Other:(describe) No Fluid _____	25:00	BXTR 38		689	0		NONE
	30:00	BXTR 38		689	0		NONE
	REQUIRED - Instantaneous Intermediate Casing Pressure at End of Test: <u>0</u> PSIG						

Comments:

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed By: <u>Terry Pape</u>	Title: <u>VP Operations</u>	Phone: <u>(970) 768-5700</u>
Signed: <u>Gina Payne</u>	Title: <u>Regulatory Manager</u>	Date: <u>11/24/2021</u>
Witnessed By: _____	Title: _____	Agency: _____