

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

402715744

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: 69175 3. BLM Lease No: _____

2. Name of Operator: PDC ENERGY INC

4. API Number; 05-123-14039-00 5. Multiple completion? ☐ Yes ☐ No

6. Well Name: VONFELDT Number: 13-12

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW,12,6N,65W,6

8. County WELD 9. Field Name: GREELEY

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

11. Date of Test: 06/03/202112. 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: <u>760</u> Fm: _____	Tubing: _____ Fm: _____	Prod Csg <u>760</u> Fm: _____	Intermediate Csg: _____	Surf. Csg _____ 0
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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 = NoneBuried valve? ☐ Yes ☒ NoConfirmed open? ☒ Yes ☐ No

BRADENHEAD SAMPLE TAKEN?

☐ Yes ☒ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid:

☐ Clear ☐ Fresh☐ Sulfur ☐ Salty ☐ BlackOther:(describe)

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:	Bradenhead Fluid:
00:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760		NO FLOW	
05:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
10:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
15:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
20:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
25:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
30:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			

Instantaneous Bradenhead PSIG at end of test: > 0

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	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760		NO FLOW	
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	05:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
	10:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
	15:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
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) _____	20:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
	25:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
	30:00	<input type="checkbox"/> 760	<input type="checkbox"/>	<input type="checkbox"/> 760			
	Instantaneous Intermediate Casing PSIG at end of test: > 0 _____						

Comments: Pre P&A 0 PSI with no flow observed for 30 minutes. blew down to 0 PSI after 30 min.

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

Test Performed By: _____	Title: _____	Phone: () _____
Signed: <u>Jessica Johannsen</u>	Title: <u>Regulatory Analyst</u>	Date: <u>6/11/2021</u>
Witnessed By: _____	Title: _____	Agency: _____