

State of Colorado
Oil and Gas Conservation Commission

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402566834

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: 74165 3. BLM Lease No: _____

2. Name of Operator: RENEGADE OIL & GAS COMPANY LLC

4. API Number; 05-001-07206-00 5. Multiple completion? ☐ Yes ☒ No

6. Well Name: BRADBURY B Number: 1

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW,14,2S,60W,6

8. County ADAMS 9. Field Name: BUCKSKIN EAST

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

11. Date of Test: 12/14/202012. 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>410</u> Fm: <u>JSND</u>	Tubing: _____ Fm: _____	Prod Csg <u>410</u> Fm: <u>JSND</u>	Intermediate Csg: _____	Surf. Csg <u>48</u>
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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	JSND 410	<input type="checkbox"/>	<input type="checkbox"/> 410		DOWN TO 0	WATER H2O
BRADENHEAD SAMPLE TAKEN?	05:00	JSND 410	<input type="checkbox"/>	<input type="checkbox"/> 410		SURGE	WATER H2O
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	10:00	JSND 410	<input type="checkbox"/>	<input type="checkbox"/> 410		SURGE	WATER AND VAPOR
Character of Bradenhead fluid:	15:00	JSND 410	<input type="checkbox"/>	<input type="checkbox"/> 410		SURGE	WATER AND VAPOR
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Fresh	20:00	JSND 410	<input type="checkbox"/>	<input type="checkbox"/> 410		SURGE	WATER AND VAPOR
<input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black	25:00	JSND 410	<input type="checkbox"/>	<input type="checkbox"/> 410		SURGE	WATER AND VAPOR
Other:(describe)	30:00	JSND 410	<input type="checkbox"/>	<input type="checkbox"/> 410		SURGE	WATER AND VAPOR
Instantaneous Bradenhead PSIG at end of test: > <u>1</u>							

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

Comments: 2020 bradenhead test performed on the Bradbury B#1 as required per adoption of COGCC rule to test all wells located in Adams County.
A water sample Analytical Sample Data Submittal Form 43 has been collected and submitted for the bradenhead fluid recovered from a 2019 bradenhead test performed 11/19/2019 and again after a prolonged bradenhead flow test concluded 9/15/2020. Both samples yielded very similar fluid analysis. Fluid recovered was approximately 7000 TDS.
A bradenhead remediation plan will now need to be submitted. In the interim the bradenhead will be flowed to the production tank to minimize the bradenhead back pressure exerted on non-cased formations.

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

Test Performed By: <u>Bill Espinosa</u>	Title: <u>Field Supervisor</u>	Phone: <u>(303) 829-4982</u>
Signed: <u>Edward Ingve</u>	Title: <u>Manager/Owner</u>	Date: <u>1/5/2021</u>
Witnessed By: _____	Title: _____	Agency: _____