

FORM
17Rev
11/20State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403276772

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: 10775 3. BLM Lease No: _____

2. Name of Operator: KT RESOURCES LLC

4. API Number: 05-103-10113-00 5. Multiple completion? ☐ Yes ☐ No

6. Well Name: WRD UNIT Number: 29-33 WDW

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE,29,2N,96W,6

8. County RIO BLANCO 9. Field Name: WHITE RIVER

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

11. Date of Test: 12/31/2022

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

Comments: This bradenhead test has indicated that there is no communication between the surface casing (9.625") and the 7.0" production casing. The lack of communication between casings and the fact that the production casing pressure did not change when the bradenhead was opened indicates that this well has pressure integrity in with the production casing. In my opinion this well protects the health, safety, welfare, the environment and wildlife resources in the environment. It is requested that this bradenhead test be accepted has an alternative MIT as it has shown wellbore integrity and KT Resources has been unable to contract a workover rig due to high demand of equipment in the current price environment. If approved, this well will be turned into line.

NOTE: The tubing pressure from the beginning to the end of the test was negative 6 psig (vacuum). The form would not allow negative numbers so I input zeroes in.

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

Test Performed By: <u>Levin Boulger</u>	Title: <u>Foreman</u>	Phone: <u>(970) 509-0256</u>
Signed: <u>Tony Gale</u>	Title: <u>Co-owner</u>	Date: <u>1/1/2023</u>
Witnessed By: _____	Title: _____	Agency: _____