

State of Colorado
Oil and Gas Conservation Commission

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



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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found. Step 2. Sample now. If intermediate or surface casing pressure > 25 psi. In sensitive areas, 1 psi.
 Step 3. Conduct Bradenhead casing. Step 4. Conduct intermediate casing test. Step 5. Send report to BLM within 3 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: 95620 3. BLM Lease No: _____
 2. Name of Operator: WESTERN OPERATING COMPANY
 4. API Number; 05-001-09373-00 5. Multiple completion? ☐ Yes ☒ No
 6. Well Name: LINNEBUR Number: 6-23
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESW,6,3S,60W,6
 8. County ADAMS 9. Field Name: BARREL RANCH
 10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12/17/2019

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: 30 Fm: _____	Tubing: _____ Fm: _____	Prod Csg 30 Fm: _____	Intermediate Csg: _____	Surf. Csg 72
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BRADENHEAD TEST

Buried valve? ☐ Yes ☒ NoConfirmed open? ☒ Yes ☐ No

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 Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
 H = Water H₂O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?

☒ Yes ☐ No ☐ Gas ☒ LiquidCharacter of Bradenhead fluid: ☒ Clear ☐ Fresh☐ Sulfur ☐ Salty ☐ Black

Other:(describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
00:00	<input type="checkbox"/> 30	<input type="checkbox"/>	<input type="checkbox"/> 30		D
05:00	<input type="checkbox"/> 30	<input type="checkbox"/>	<input type="checkbox"/> 30		H
10:00	<input type="checkbox"/> 30	<input type="checkbox"/>	<input type="checkbox"/> 30		H
15:00	<input type="checkbox"/> 30	<input type="checkbox"/>	<input type="checkbox"/> 30		H
20:00	<input type="checkbox"/> 30	<input type="checkbox"/>	<input type="checkbox"/> 30		H
25:00	<input type="checkbox"/> 30	<input type="checkbox"/>	<input type="checkbox"/> 30		H
30:00	<input type="checkbox"/> 30	<input type="checkbox"/>	<input type="checkbox"/> 30		H

Instantaneous Bradenhead PSIG at end of test: > 0

INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ NoConfirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
 H = Water H₂O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?

☐ Yes ☐ No ☐ Gas ☐ LiquidCharacter of Intermediate fluid: ☐ Clear ☐ Fresh☐ Sulfur ☐ Salty ☐ Black

Other:(describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
05:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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: Annual. Blew down to 0 in about 5 seconds and had water coming out throughout test. After 5 minutes bradenhead had 18 PSI.

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

Test Performed By: Vic Behrens Title: Pumper Phone: (303) 810-6382

Signed: Eric Lang Title: Project Geologist Date: 12/30/2019

Witnessed By: _____ Title: _____ Agency: _____