

FORM

17

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State of Colorado

Oil and Gas Conservation Commission

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DE ET OE ES

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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 test. 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: 96155 3. BLM Lease No: _____
 2. Name of Operator: WHITING OIL & GAS CORPORATION
 4. API Number: 05-123-43122-00 5. Multiple completion? ☐ Yes ☐ No
 6. Well Name: Horsetail Number: 30H-3116
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE,30,10N,57W,6
 8. County WELD 9. Field Name: WILDCAT
 10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: _____

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

13. Number of Casing Strings:

☐ Two ☐ Three ☐ Liner?

14. EXISTING PRESSURES

Record all pressures as found
 Tubing: N/A Tubing: N/A Prod Csg Ø Intermediate Csg: N/A Surf. Csg (-2.8)
 Fm: _____ Fm: _____ Fm: _____

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	<u>N/A</u>	<u>N/A</u>	<u>Ø</u>	<u>N/A</u>	<u>O</u>
05:00	<u>↓</u>	<u>↓</u>	<u>Ø</u>	<u>↓</u>	<u>O</u>
10:00	<u>↓</u>	<u>↓</u>	<u>Ø</u>	<u>↓</u>	<u>O</u>
15:00	<u>↓</u>	<u>↓</u>	<u>Ø</u>	<u>↓</u>	<u>O</u>
20:00	<u>↓</u>	<u>↓</u>	<u>Ø</u>	<u>↓</u>	<u>O</u>
25:00	<u>↓</u>	<u>↓</u>	<u>Ø</u>	<u>↓</u>	<u>O</u>
30:00	<u>↓</u>	<u>↓</u>	<u>Ø</u>	<u>↓</u>	<u>O</u>

Instantaneous Bradenhead PSIG at end of test: > Ø

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					
05:00					
10:00					
15:00					
20:00					
25:00					
30:00					

Instantaneous Intermediate Casing PSIG at end of test: >

Comments: Bradenhead had a vacuum. No vapor or gas came out. Pressure equalized and stayed flat for the rest of test.

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

Test Performed By: Sean L. Jaffer Title: Lead/Lease Operator Phone: () 970 302 1694

Signed: [Signature] Title: Lead/Lease Operator Date: 2/13/20

Witnessed By: _____ Title: _____ Agency: _____