

FORM
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State of Colorado Oil and Gas Conservation Commission

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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: 55030 3. BLM Lease No: _____
2. Name of Operator: MCCARTNEY ENGINEERING LLC
4. API Number: 05-001-09315-00 5. Multiple completion? ☐ Yes ☒ No
6. Well Name: HSR-FULENWIDER Number: 8-9
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE,9,2S,66W,6
8. County ADAMS 9. Field Name: BANNER
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 07/27/2019

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: 170 Fm: JSND | Tubing: _____ Fm: _____ | Prod Csg 350 Fm: _____ | Intermediate Csg: _____ | Surf. Csg 50 |
|-------------------------------|-------------------------|----------------------------|---------------------------|----------------------------|-----------------|

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) Dark colored water

Sample cylinder number: multiple

| Elapsed Time (Min:Sec) | Fm: Tubing | Fm: Tubing: | Prod Csg PSIG | Intermedia Csg PSIG | Bradenhead Flow: |
|------------------------|------------|--------------------------|------------------------------|---------------------|------------------|
| 00:00 | JSND 170 | <input type="checkbox"/> | <input type="checkbox"/> 350 | | H |
| 05:00 | JSND 170 | <input type="checkbox"/> | <input type="checkbox"/> 350 | | D |
| 10:00 | JSND 170 | <input type="checkbox"/> | <input type="checkbox"/> 350 | | D |
| 15:00 | JSND 170 | <input type="checkbox"/> | <input type="checkbox"/> 350 | | D |
| 20:00 | JSND 170 | <input type="checkbox"/> | <input type="checkbox"/> 350 | | D |
| 25:00 | JSND 170 | <input type="checkbox"/> | <input type="checkbox"/> 350 | | D |
| 30:00 | JSND 170 | <input type="checkbox"/> | <input type="checkbox"/> 350 | | D |

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: > 0

Comments: Initial pressure on bradenhead was 50 psig. Flowed small volume of water, less than 1 gallon. Pressure essentially zero rest of test. Took samples of water to Origins lab for testing. Also took gas sample, but may be of insufficient volume for testing. Will report test results when received.

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

Test Performed By: Jack McCartney Title: Manager Phone: (303) 830-7208

Signed: Jack McCartney Title: Manager Date: 8/2/2019

Witnessed By: _____ Title: _____ Agency: _____