

FORM  
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# State of Colorado Oil and Gas Conservation Commission

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DE ET OE ES

Document Number:

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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: 47120 3. BLM Lease No: \_\_\_\_\_  
2. Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP  
4. API Number: 05-123-31127-00 5. Multiple completion? ☐ Yes ☐ No  
6. Well Name: SHERWOOD L Number: 30-30D  
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW,30,3N,66W,6  
8. County WELD 9. Field Name: WATTENBERG  
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 04/10/2015

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: 550<br>Fm: _____ | Tubing: _____<br>Fm: _____ | Prod Csg 622<br>Fm: _____ | Intermediate<br>Csg: _____ | Surf. Csg<br>113 |
|-------------------------------|--------------------------|----------------------------|---------------------------|----------------------------|------------------|

### 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 ☐ Liquid
Character 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"/> 550 | <input type="checkbox"/> | <input type="checkbox"/> 622 |                     | G                |
| 05:00                  | <input type="checkbox"/> 552 | <input type="checkbox"/> | <input type="checkbox"/> 624 |                     | G                |
| 10:00                  | <input type="checkbox"/> 555 | <input type="checkbox"/> | <input type="checkbox"/> 626 |                     | G                |
| 15:00                  | <input type="checkbox"/> 559 | <input type="checkbox"/> | <input type="checkbox"/> 628 |                     | G                |
| 20:00                  | <input type="checkbox"/> 562 | <input type="checkbox"/> | <input type="checkbox"/> 630 |                     | G                |
| 25:00                  | <input type="checkbox"/> 564 | <input type="checkbox"/> | <input type="checkbox"/> 633 |                     | G                |
| 30:00                  | <input type="checkbox"/> 566 | <input type="checkbox"/> | <input type="checkbox"/> 635 |                     | G                |

Instantaneous Bradenhead PSIG at end of test: &gt; 1

### 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 ☐ Liquid
Character of Intermediate fluid: ☐ Clear ☐ Fresh
☐ Sulfur ☐ Salty ☐ Black

Other:(describe)

Sample cylinder number:

Instantaneous Intermediate Casing PSIG at end of test: &gt;

| Elapsed Time (Min:Sec) | Fm: Tubing               | Fm: Tubing:              | Prod Csg PSIG            | Intermedia Csg PSIG | Bradenhead Flow: |
|------------------------|--------------------------|--------------------------|--------------------------|---------------------|------------------|
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |

Comments:

SURFACE CASING PRODUCED NO FLUIDS DURING TEST. MONITORED THE SURFACE CASING AN EXTRA 30 MINUTES. PRESSURE STAYED AT A WHISPER. SHUT THE SURFACE CASING IN FOR 15 MINUTES. PRESSURE BUILT UP TO 4 PSI. POST REMEDIATION BLOW-DOWN ON 4-10-2015. PRESSURE AT 113 PSI. AND BLEW-DOWN TO A WHISPER.

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

Test Performed By: ROCKY BLAKE Title: NON-EMPLOYEE Phone: (970) 989-0242

Signed: JEANINE JONES Title: NON-EMPLOYEE Date: 5/5/2015

Witnessed By: JEANINE JONES Title: NON-EMPLOYEE Agency: KERR-MCGEE