

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

401142552

## 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: 05-123-19164-00 5. Multiple completion? ☐ Yes ☐ No  
6. Well Name: HSR-HEINTZELMAN Number: 9-32  
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESE,32,3N,67W,6  
8. County WELD 9. Field Name: WATTENBERG  
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/27/2016

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: 649 Fm: _____	Tubing: _____ Fm: _____	Prod Csg _____ 0 Fm: _____	Intermediate Csg: _____	Surf. Csg 25
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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 H<sub>2</sub>O; 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"/> 649	<input type="checkbox"/>	<input type="checkbox"/> 0		H
05:00	<input type="checkbox"/> 648	<input type="checkbox"/>	<input type="checkbox"/> 0		H
10:00	<input type="checkbox"/> 648	<input type="checkbox"/>	<input type="checkbox"/> 0		H
15:00	<input type="checkbox"/> 648	<input type="checkbox"/>	<input type="checkbox"/> 0		H
20:00	<input type="checkbox"/> 648	<input type="checkbox"/>	<input type="checkbox"/> 0		H
25:00	<input type="checkbox"/> 648	<input type="checkbox"/>	<input type="checkbox"/> 0		H
30:00	<input type="checkbox"/> 648	<input type="checkbox"/>	<input type="checkbox"/> 0		H

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 H<sub>2</sub>O; 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:
	<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"/>		

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

Comments: SC PRODUCED 8 GALLONS OF WATER. BLEW DOWN SC AN EXTRA 30 MIN ENDED WITH A WHISPER. SHUT IN SC FOR 15 MIN ENDED WITH 22 PSI.

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

Test Performed By: JUSTIN LEE Title: \_\_\_\_\_ Phone: (970) 7681583

Signed: CINDY GRAY Title: ENGINEERING  
SPECIALIST Date: 11/3/2016

Witnessed By: \_\_\_\_\_ Title: \_\_\_\_\_ Agency: \_\_\_\_\_