



## 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; 05-123-45913-00 5. Multiple completion? ☐ Yes ☐ No  
6. Well Name: AZUL Number: 13-4HZ  
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW,13,1N,66W,6  
8. County WELD 9. Field Name: WATTENBERG  
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 09/17/2018  
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: _____	Tubing: _____	Prod Csg _____ 0	Intermediate _____	Surf. Csg _____
	Fm: _____	Fm: _____	Fm: _____	Csg: _____	_____ 0

### BRADENHEAD TEST

Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
	00:00	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0		D
	05:00	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0		D
	10:00	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0		D
	15:00	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0		D
	20:00	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0		D
	25:00	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0		D
30:00	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0		D	
Instantaneous Bradenhead PSIG at end of test: > <u>0</u>						

BRADENHEAD SAMPLE TAKEN?  
☐ Yes ☒ No ☐ Gas ☐ Liquid  
Character of Bradenhead fluid: ☐ Clear ☐ Fresh  
☐ Sulfur ☐ Salty ☐ Black  
Other:(describe) \_\_\_\_\_  
Sample cylinder number: \_\_\_\_\_

### INTERMEDIATE CASING TEST

Buried valve? <input type="checkbox"/> Yes <input type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input type="checkbox"/> 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	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: > _____						

INTERMEDIATE SAMPLE TAKEN?  
☐ Yes ☐ No ☐ Gas ☐ Liquid  
Character of Intermediate fluid: ☐ Clear ☐ Fresh  
☐ Sulfur ☐ Salty ☐ Black  
Other:(describe) \_\_\_\_\_  
Sample cylinder number: \_\_\_\_\_

Comments: Surface casing produced no fluids. Surface casing shut in for 15 minutes ended with 0 PSI.

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

Test Performed By: HILLARY WORDEN Title: NON-EMPLOYEE Phone: (970) 336-3537

Signed: CHERYL LIGHT Title: STAFF REGULATORY ANALYST Date: 10/5/2018

Witnessed By: Title: Agency: