

State of Colorado  
Oil and Gas Conservation Commission

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FOR DECC USE ONLY

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 30 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: 100185  
2. Name of Operator: Encan Oil and Gas  
3. BLM Lease No:  
4. API Number: 05-123-20907  
5. Multiple completion? ☐ Yes ☐ No  
6. Well Name: Seltzer 14-34  
Number: 14-34  
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW 34 1N 67W 8 PM  
8. County: Weld  
9. Field Name: Wattenberg  
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 2/10/16

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

13. Number of Casing Strings:  
☒ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 185 Fm: J-Sand	Prod. Casing: 184 Fm: J-Sand	Intermediate Cag: 40	Surface Casing: 40
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15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

<p>16. Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>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</p> <p>BRADENHEAD SAMPLE TAKEN? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid</p> <p>Character of Bradenhead fluid: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black <input checked="" type="checkbox"/> Other: (describe)</p> <p>Sample cylinder number:</p>	<p>Elapsed Time (Min:Sec)</p> <p>Fm: Tubing</p> <p>Fm: J-Sand Tubing</p> <p>Production Casing PSIG</p> <p>Intermediate Casing PSIG</p> <p>Bradenhead Flow</p>
	00: 185 184 H
	05: 186 185 D
	10: 187 186 O
	15: 187 187 H
	20: 188 188 H
	25: 189 189 H
	30: 190 189 H
Note instantaneous Bradenhead PSIG at end of test: > 8	

STEP 4: INTERMEDIATE CASING TEST

<p>17. Buried valve? <input type="checkbox"/> Yes <input type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>With gauges monitoring production 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</p> <p>INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid</p> <p>Character of Intermediate fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black <input type="checkbox"/> Other: (describe)</p> <p>Sample cylinder number:</p>	<p>Elapsed Time (Min:Sec)</p> <p>Fm: Tubing</p> <p>Fm: Tubing</p> <p>Production Casing PSIG</p> <p>Intermediate Casing PSIG</p> <p>Intermediate Flow</p>
	00:
	05:
	10:
	15:
	20:
	25:
	30:
Note instantaneous Intermediate Casing PSIG at end of test: >	

18. Comments:  
At the start of the test the bradenhead pressure was 40 psi. The water was bled in about 10 seconds to a drip. The water was clear with a grey tint and slight odor. The bradenhead valve was closed at 10 minutes under the direction of the COGCC Inspector Joe MacLaren. The pressure slowly built in the bradenhead over the test. The pressure ended at 8 psi of water. Water samples were collected at the start and end. The water was darker on the first pump. COGCC Inspection DOCUMENT # 574602340.

19. STEP 5: See instructions above.

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

Test Performed by: Chris Overman Title: Crew Lead Phone: 303-659-8007

Signed: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESSED BY: [Signature] Title: Int'l Inspector Agency: COGCC