

FORM
17Rev
6/99

State of Colorado Oil and Gas Conservation Commission

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Document Number:

400864390

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: 100185 3. BLM Lease No: _____
2. Name of Operator: ENCANA OIL & GAS (USA) INC
4. API Number: 05-013-06512-00 5. Multiple completion? ☒ Yes ☐ No
6. Well Name: CALDWELL Number: 14-25
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW,25,2N,69W,6
8. County BOULDER 9. Field Name: WATTENBERG
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 07/07/2015

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: _____ Fm: JNBCD	Tubing: 229 Fm: JNBCD	Prod Csg 245 Fm: _____	Intermediate Csg: _____	Surf. Csg 470
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BRADENHEAD TEST

Buried valve? ☐ Yes ☒ No
Confirmed 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"/>	JNBCD 229	<input type="checkbox"/> 245		G
05:00	<input type="checkbox"/>	JNBCD 240	<input type="checkbox"/> 257		G
10:00	<input type="checkbox"/>	JNBCD 243	<input type="checkbox"/> 261		G
15:00	<input type="checkbox"/>	JNBCD 249	<input type="checkbox"/> 268		G
20:00	<input type="checkbox"/>	JNBCD 253	<input type="checkbox"/> 272		G
25:00	<input type="checkbox"/>	JNBCD 258	<input type="checkbox"/> 278		G
30:00	<input type="checkbox"/>	JNBCD 260	<input type="checkbox"/> 280		G

Instantaneous Bradenhead PSIG at end of test: > 30

INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No
Confirmed 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:

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"/>		

Instantaneous Intermediate Casing PSIG at end of test: >

Comments:

Bradenhead built back up to 340 psi 4 minutes after shut-in.

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

Test Performed By: Carl Rayas Title: Consultant Phone: (970) 630-6587

Signed: Toby Sachen Title: Regulatory Analyst Date: 7/8/2015

Witnessed By: Alberto Enriquez Title: Tester Agency: Colorado Torque