

FORM
17
Rev
6/99

State of Colorado
Energy & Carbon Management Commission



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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 ECMC 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. ECMC Operator Number: 10531 3. BLM Lease No: 52447A
 2. Name of Operator: VANGUARD OPERATING LLC
 4. API Number; 05-045-19621-00 5. Multiple completion? Yes No
 6. Well Name: GGU Swanson Number: 32A-29-691
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE,29,6S,91W,6
 8. County GARFIELD 9. Field Name: MAMM CREEK
 10. Minerals: Fee State Federal Indian

11. Date of Test: 06/22/2018
 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: <u>120</u> Fm: <u>WMFK</u>	Tubing: _____ Fm: _____	Prod Csg <u>332</u> Fm: <u>RLNS</u>	Intermediate Csg: _____	Surf. Csg <u>154</u>
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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	WMFK 120	<input type="checkbox"/>	<input type="checkbox"/> 332		
05:00	WMFK 122	<input type="checkbox"/>	<input type="checkbox"/> 322		
10:00	WMFK 125	<input type="checkbox"/>	<input type="checkbox"/> 322		WHISPER
15:00	WMFK 128	<input type="checkbox"/>	<input type="checkbox"/> 322		WHISPER
20:00	WMFK 132	<input type="checkbox"/>	<input type="checkbox"/> 323		WHISPER
25:00	WMFK 136	<input type="checkbox"/>	<input type="checkbox"/> 323		WHISPER
30:00	WMFK 140	<input type="checkbox"/>	<input type="checkbox"/> 323		DOWN TO 0

Instantaneous Bradenhead PSIG at end of test: > 0

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"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Instantaneous Intermediate Casing PSIG at end of test: >

Comments:

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

Test Performed By: Lee Simpson Title: Production Foreman Phone: (970) 230-1154

Signed: Lee Simpson Title: Production Foreman Date: 6/24/2018

Witnessed By: Darin Holtz Title: Field Inspector Agency: COGCC