

FORM
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State of Colorado Oil and Gas Conservation Commission

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Document Number:

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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 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: 10531 3. BLM Lease No: _____
2. Name of Operator: VANGUARD OPERATING LLC
4. API Number: 05-045-07736-00 5. Multiple completion? ☒ Yes ☐ No
6. Well Name: GIBSON GULCH UNIT Number: 9-30A
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW,29,6S,91W,6
8. County GARFIELD 9. Field Name: MAMM CREEK
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 01/12/2016

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: 127 Fm: WMFK	Tubing: _____ Fm: _____	Prod Csg 122 Fm: WMFK	Intermediate Csg: _____	Surf. Csg 241
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BRADENHEAD TEST

Buried valve? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	00:00	WMFK 127	<input type="checkbox"/>	<input type="checkbox"/> 122		G
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	05:00	WMFK 130	<input type="checkbox"/>	<input type="checkbox"/> 140		W
BRADENHEAD SAMPLE TAKEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	10:00	WMFK 129	<input type="checkbox"/>	<input type="checkbox"/> 116		W
Character of Bradenhead fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black	15:00	WMFK 133	<input type="checkbox"/>	<input type="checkbox"/> 121		W
Other:(describe)	20:00	WMFK 127	<input type="checkbox"/>	<input type="checkbox"/> 118		W
Sample cylinder number:	25:00	WMFK 128	<input type="checkbox"/>	<input type="checkbox"/> 121		W
	30:00	WMFK 126	<input type="checkbox"/>	<input type="checkbox"/> 120		W
Instantaneous Bradenhead PSIG at end of test: > 0						

INTERMEDIATE CASING TEST

Buried valve? <input type="checkbox"/> Yes <input type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
Confirmed open? <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Other:(describe)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sample cylinder number:		<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: Lease Operator 3 Phone: (970) 319-9945

Signed: Aaron Axelson Title: Sr. Production Foreman Date: 1/14/2016

Witnessed By: COGCC Staff Title: NW Inspector Agency: 666801821