

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

402834075

BRADENHEAD TEST REPORT

Step 1. Before opening any valves, record all tubing and casing pressures as found.

Step 2. Collect liquid and gas samples as required; consult Bradenhead Testing and Reporting Instructions and Guidance for field specific Orders at <http://cogcc/reg.html#/opguidance>

Step 3. Conduct Bradenhead test.

Step 4. Submit Form 17 within 10 days of test. Attach a wellbore diagram if not previously submitted or if wellbore configuration has changed since last wellbore diagram was submitted.

Step 5. Submit sample analytical results via Form 43.

1. OGCC Operator Number: 77330 3. BLM Lease No: _____

2. Name of Operator: SG INTERESTS I LTD

4. API Number; 05-051-06085-00 5. Multiple completion? ☐ Yes ☒ No

6. Well Name: FEDERAL 11-90-15 Number: 1

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW,15,11S,90W,6

8. County GUNNISON 9. Field Name: RAGGED MOUNTAIN

10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 09/30/202112. 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>825</u> Fm: <u>MNCS</u>	Tubing: _____ Fm: _____	Prod Csg <u>910</u> Fm: <u>MNCS</u>	Intermediate Csg: <u>6</u>	Surf. Csg <u>15</u>
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BRADENHEAD TEST

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.

Describe character of flow in "Bradenhead Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Bradenhead Fluid" column: H = Water H₂O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = None

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:	Bradenhead Fluid:
Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	02:00	MNCS 910		825	6	CONTINUOUS	GAS
BRADENHEAD SAMPLE TAKEN?	05:00	MNCS 910		825	6	WHISPER	GAS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	10:00	MNCS 910		825	6	WHISPER	GAS
Character of Bradenhead fluid:	15:00	MNCS 910		825	6	WHISPER	GAS
<input type="checkbox"/> Clear <input type="checkbox"/> Fresh	20:00	MNCS 910		825	6	WHISPER	GAS
<input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black	25:00	MNCS 910		825	6	WHISPER	GAS
Other:(describe)	30:00	MNCS 910		825	6	WHISPER	GAS
REQUIRED - Instantaneous Bradenhead Pressure at End of Test: <u>0</u> PSIG							

INTERMEDIATE CASING TEST

With gauges monitoring production, intermediate casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals.

Describe character of flow in "Intermediate Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Intermediate Fluid" column: H = Water H₂O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = None.

Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermediate Csg PSIG	Intermediate Flow:	Intermediate Fluid:
	00:30	MNCS 825		910		CONTINUOUS	GAS
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	05:00	MNCS 825		910		WHISPER	GAS
	10:00	MNCS 825		910		WHISPER	GAS
	15:00	MNCS 825		910		WHISPER	GAS
	20:00	MNCS 825		910		WHISPER	GAS
Character of Intermediate fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black Other:(describe) _____	25:00	MNCS 825		910		WHISPER	GAS
	30:00	MNCS 825		910		WHISPER	GAS
	REQUIRED - Instantaneous Intermediate Casing Pressure at End of Test: <u>0</u> PSIG						

Comments: Bradenhead - Medium/heavy flow of gas for approx. 2 minutes when valve was opened. Flowed whisper from 2 minutes to >30 minutes.

Intermediate - Medium flow of gas for approx. 30 seconds when valve was opened. Flowed whisper from 30 seconds to >30 minutes.

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

Test Performed By: <u>Jacob Harter</u>	Title: <u>Consultant</u>	Phone: <u>(970) 946-3761</u>
Signed: <u>Jacob Harter</u>	Title: _____	Date: <u>10/9/2021</u>
Witnessed By: _____	Title: _____	Agency: _____