

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

402703184

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: 83130 3. BLM Lease No: _____

2. Name of Operator: STRACHAN EXPLORATION INC

4. API Number; 05-061-06331-00 5. Multiple completion? ☐ Yes ☐ No

6. Well Name: STATE Number: 1

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESE,21,19S,47W,6

8. County KIOWA 9. Field Name: NEENOSHE

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

11. Date of Test: 05/27/2021

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: 0 Fm: MRRW	Tubing: 0 Fm: MRRW	Prod Csg 0 Fm: MRRW	Intermediate Csg: _____	Surf. Csg 0
-------------------------------	-----------------------	-----------------------	------------------------	-------------------------	-------------

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 type="checkbox"/> Yes <input checked="" 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	00:00	MRRW 0	MRRW 0	0		NO FLOW	NONE
BRADENHEAD SAMPLE TAKEN?	05:00	MRRW 0	MRRW 0	0		NO FLOW	NONE
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	10:00	MRRW 0	MRRW 0	0		NO FLOW	NONE
Character of Bradenhead fluid:	15:00	MRRW 0	MRRW 0	0		NO FLOW	NONE
<input type="checkbox"/> Clear <input type="checkbox"/> Fresh	20:00	MRRW 0	MRRW 0	0		NO FLOW	NONE
<input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black	25:00	MRRW 0	MRRW 0	0		NO FLOW	NONE
Other:(describe)	30:00	MRRW 0	MRRW 0	0		NO FLOW	NONE
REQUIRED - Instantaneous Bradenhead Pressure at End of Test: 0 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 type="checkbox"/> No Confirmed open? <input 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:
	00:00						
	05:00						
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	10:00						
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) _____	15:00						
	20:00						
	25:00						
	30:00						
REQUIRED - Instantaneous Intermediate Casing Pressure at End of Test: _____ PSIG							

Comments: Discussed well conditions w S. Wolfe 5/25/21. Instructed to fill out this Form 17 as a paper trail.

Well ceased production in June of 2019 and has been SI status since. Ran a swab in to see if it had logged off due to formation fluid. Encountered mud in the tubing. Surmise we have both casing and tubing integrity issue. Built a remediation/PTA plan approved by S. Wolfe. We believe based on offset PTA Plan that we risk further damage to the tubulars by trying to pressure them up.

Approved Form 6 with the plan is Doc #402613753

Current status waiting on Rig equipment. Will advise of ops start via Form 42 (B. Welch)

Rigged up to perform PTA October 22,2021, BH was dead and remained so. PTA completed 10/26/21

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

Test Performed By: Shawn Reed Title: Petr. Consultant Phone: (303) 5626530

Signed: Shawn Reed Title: Petroleum Consultant Date: 3/9/2022

Witnessed By: _____ Title: _____ Agency: _____