

FORM  
17  
Rev  
6/99

State of Colorado

Energy & Carbon Management Commission

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Document Number:  
401138077

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: 10447 3. BLM Lease No: \_\_\_\_\_  
 2. Name of Operator: URSA OPERATING COMPANY LLC  
 4. API Number; 05-045-13614-00 5. Multiple completion?  Yes  No  
 6. Well Name: NORTH BANK Number: C10  
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESW,12,6S,93W,6  
 8. County GARFIELD 9. Field Name: MAMM CREEK  
 10. Minerals:  Fee  State  Federal  Indian

11. Date of Test: 10/21/2016  
 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: <u>327</u> Fm: _____	Tubing: _____ Fm: _____	Prod Csg <u>525</u> Fm: _____	Intermediate Csg: _____	Surf. Csg <u>220</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

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
00:00	<input type="checkbox"/> 327	<input type="checkbox"/>	<input type="checkbox"/> 525		
05:00	<input type="checkbox"/> 295	<input type="checkbox"/>	<input type="checkbox"/> 500		
10:00	<input type="checkbox"/> 270	<input type="checkbox"/>	<input type="checkbox"/> 475		
15:00	<input type="checkbox"/> 257	<input type="checkbox"/>	<input type="checkbox"/> 460		
20:00	<input type="checkbox"/> 240	<input type="checkbox"/>	<input type="checkbox"/> 413		
25:00	<input type="checkbox"/> 234	<input type="checkbox"/>	<input type="checkbox"/> 375		
30:00	<input type="checkbox"/> 216	<input type="checkbox"/>	<input type="checkbox"/> 334		WHISPER

BRADENHEAD SAMPLE TAKEN?  
 Yes  No  Gas  Liquid

Character of Bradenhead fluid:  Clear  Fresh  
 Sulfur  Salty  Black

Other:(describe)  
 Sample cylinder number: \_\_\_\_\_

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

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

INTERMEDIATE SAMPLE TAKEN?  
 Yes  No  Gas  Liquid

Character of Intermediate fluid:  Clear  Fresh  
 Sulfur  Salty  Black

Other:(describe)  
 Sample cylinder number: \_\_\_\_\_

Instantaneous Intermediate Casing PSIG at end of test: >

Comments: blew down through 2" line it took 23 min to go to 0 psi

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

Test Performed By: Chris Combs Title: Lease Operator Phone: (970) 985-5857

Signed: Darcy Hurst Title: Production Foreman Date: 10/27/2016

Witnessed By: \_\_\_\_\_ Title: \_\_\_\_\_ Agency: \_\_\_\_\_