

FORM
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State of Colorado Oil and Gas Conservation Commission

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Document Number:

400811467

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: 47120 3. BLM Lease No: _____
 2. Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP
 4. API Number: 05-123-23449-00 5. Multiple completion? ☐ Yes ☐ No
 6. Well Name: NYGREN Number: 4-19
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW,19,4N,67W,6
 8. County WELD 9. Field Name: WATTENBERG
 10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 03/02/2015

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: 456	Tubing: _____	Prod Csg 604	Intermediate	Surf. Csg
	Fm: _____	Fm: _____	Fm: _____	Csg: _____	114

BRADENHEAD TEST

Buried valve? ☐ Yes ☒ NoConfirmed 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	<input type="checkbox"/> 456	<input type="checkbox"/>	<input type="checkbox"/> 604		G
05:00	<input type="checkbox"/> 456	<input type="checkbox"/>	<input type="checkbox"/> 605		G
10:00	<input type="checkbox"/> 456	<input type="checkbox"/>	<input type="checkbox"/> 605		G
15:00	<input type="checkbox"/> 456	<input type="checkbox"/>	<input type="checkbox"/> 605		G
20:00	<input type="checkbox"/> 456	<input type="checkbox"/>	<input type="checkbox"/> 606		G
25:00	<input type="checkbox"/> 456	<input type="checkbox"/>	<input type="checkbox"/> 606		O
30:00	<input type="checkbox"/> 456	<input type="checkbox"/>	<input type="checkbox"/> 606		O

Instantaneous Bradenhead PSIG at end of test: > 24

INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ NoConfirmed 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"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Instantaneous Intermediate Casing PSIG at end of test: >

Comments:

SURFACE CASING PRODUCED 15 GALLONS OF OIL. MONITORED SURFACE CASING AN EXTRA 30 MINUTES. PRESSURE BLEW-DOWN TO 12 PSI. SHUT-IN SURFACE CASING FOR 15 MINUTES. PRESSURE BUILT UP TO 19 PSI.

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

Test Performed By: JUSTIN LEE Title: NON-EMPLOYEE Phone: (970) 768-1583

Signed: JEANINE JONES Title: NON-EMPLOYEE Date: 3/19/2015

Witnessed By: JEANINE JONES Title: NON-EMPLOYEE Agency: KERR-MCGEE