



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 casing. 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: 10679 3. BLM Lease No: _____
2. Name of Operator: LOGOS OPERATING LLC
4. API Number; 05-067-09316-00 5. Multiple completion? ☐ Yes ☐ No
6. Well Name: IGNACIO 33-7 Number: 2-16A
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNE,16,33N,7W,N
8. County LA PLATA 9. Field Name: IGNACIO BLANCO
10. Minerals: ☐ Fee ☐ State ☐ Federal ☒ Indian

11. Date of Test: 05/30/2018
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: _____	Tubing: <u>101</u>	Prod Csg <u>107</u>	Intermediate	Surf. Csg
	Fm: _____	Fm: <u>MVRD</u>	Fm: <u>MVRD</u>	Csg: _____	<u>1</u>

BRADENHEAD TEST

Buried valve? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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"/>	MVRD 101	<input type="checkbox"/> 107		D
	05:00	<input type="checkbox"/>	MVRD 102	<input type="checkbox"/> 108		O
		<input type="checkbox"/>		<input type="checkbox"/>		
		<input type="checkbox"/>		<input type="checkbox"/>		
		<input type="checkbox"/>		<input type="checkbox"/>		
		<input type="checkbox"/>		<input type="checkbox"/>		
BRADENHEAD SAMPLE TAKEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid Character of Bradenhead fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black Other:(describe) _____ Sample cylinder number: _____						
Instantaneous Bradenhead PSIG at end of test: > <u>0</u>						

INTERMEDIATE CASING TEST

Buried valve? <input type="checkbox"/> Yes <input type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input type="checkbox"/> 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"/>		
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid 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) _____ Sample cylinder number: _____						
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: Darren Rowley Title: Operator Phone: (505) 947-4974

Signed: Larissa Farrell Title: Environmental Technician Date: 6/27/2018

Witnessed By: Bryan Clappe Title: Engineering Technician Agency: BLM