FORM 17Rev

6/99

State of Colorado Oil and Gas Conservation Commission

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



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Doc	ument	Numb	er:	ļ
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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: 100322 3. BLM Lease No:					11. Date of Test: 10/11/2016				
2. Name of Operator: NOBLE ENERGY INC	12. Well Status: Flowing								
4. API Number; 05-123-43291-00 5. Multiple completion? Yes No Shut In Gas Lift									
6. Well Name: Harper Number: LD21-668 Pumping Injection									
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW,22,9N,58W,6 Clock/Intermitter									
8. County WELD 9. Field Name: WILDCAT Plunger Lift									
10. Minerals: Fee State Federal	1	_	l I	nber of Casir					
14. EXISTING PRESSURES Two Three Liner?									
Record all Tubing: 0 Tubing: 0 Prod Csg	0 Inte	ermediate	Surf. Csg						
pressures Fm: Fm: Fm:	Cs	g: <u>0</u>	0						
BRADENHEAD TEST									
Buried valve? Yes X No	Elapsed Time		Fm:	Prod Csg	Intermedia	Bradenhead			
Confirmed open? X Yes No	(Min:Sec)	Tubing	Tubing:	PSIG	Csg PSIG	Flow:			
With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no	00:00			0		0			
intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals Define	05:00			0		0			
characteristics of flow in "Bradenhead Flow" column using letter designations below:	10:00			0		0			
O = No Flow; C = Continuous; D = Down to 0; V = Vapor H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas	15:00			0		0			
BRADENHEAD SAMPLE TAKEN?	20:00			0		0			
Yes No Gas Liquid	25:00					0			
Character of Bradenhead fluid: Clear Fresh Sulfur Salty Black	30:00			0		0			
Other:(describe)					_				
Sample cylinder number:	ous Bradenh	nead PSIG at	t end of test	t: > 0					
INTERMEDIATE CASING TEST									
Buried valve? Yes No	Elapsed Time	ı	Fm:	Prod Csg	Intermedia	Bradenhead			
Confirmed open? Yes No	(Min:Sec)	Tubing	Tubing:	PSIG	Csg PSIG	Flow:			
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: Instantaneous Intermediate Casing PSIG at end of test: >									
Comments:									

5.5" Monobore									
I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.									
Test Performed By: Bill Mansfield	Title:	Engineering Assistant		(970) 302-1868					
Signed: Jan Kajiwara	Title:	Regulatory Analyst III	Date:	10/14/2016					
Witnessed By:	Title:		Agency:						