



Well Name: Bockius 34-02G

API: 05-123-16499

Q/Q:NWNE Sec. 34 T/R 4N65W

P&A Procedure

Engineer: Narayan (Sonu) Choudhary (720-939-2574)

Date 2/14/2017

WELL NAME:	Bockius 34-02G			DATE:	2/16/2017		
LOCATION:							
Qtr/Qtr:	NWNE	Section:	34	Township:	4N	Range:	65W
Footages:	660'	FNL	&	1968'	FEL		
COUNTY:	WELD		STATE:	CO		API #:	05-123-16499
ENGINEER:	Narayan (Sonu) Choudhary			7 Day Notice Sent:			
	(Please notify Engineer of any major changes prior to work)			Do not start operations until:			
				Notice Expires:			
OBJECTIVE:	P&A						
WELL DATA:	Surface Csg:	8 5/8" 24# J-55 @ 613'			KB Elevation:	4756'	
	Surface Cmt:	430 sks			GL Elevation:	4745'	
	Long St Csg:	4 1/2" 11.6# M-75 @ 7196'			TD:	7204'	
	Long St Cmt:	350 sks (Calculated)			PBTD:	7128'	
	Long St Date:	1/29/1993					
	Plug Back (Sand or CIBP):						
	Perforation Interval (1):	Niobrara Perforations 6800' - 6964'					
	Perforation Interval (2):	Codell Perforations 7082' - 7096'					
	Perforation Interval (3):						
	Tubing:	2 3/8" 4.7# J-55 @ 7064'			Rods:		
	Pump:						
	Misc.:						
PRODUCTION STATUS:	Producing						
COMMENTS:	Uneconomic to do WBI work						

Procedure:

- 1) MIRU workover rig, pump, and tank.
- 2) Blow down well and roll hole with fresh water, if possible.
- 3) ND WH, NU BOP.
- 4) POOH and LD 2 3/8" tbg @ 7064'.
- 5) RIH w/ CIBP and wireline. Set CIBP @ 6750' (50' above Nio top perf @ 6800')

- 6) Dump bail 2 sxs of Class G Neat cement on top of CIBP.
- 7) Load hole with fluid and pressure test CIBP to 1000 psi with rig pumps. Hold for 15 minutes. Test will be considered successful if lose less than 100 psi. If test is unsuccessful, contact engineer.
- 8) RIH w/ workstring maintain circulation. Pump 50 sxs of balance plug from 3900' to 4550' (PlugCem 15.8 ppg cmt).
- 9) RIH w/ 1' perforating gun and shoot 4-6 spf @ 2500'.
- 10) RIH w/ CICR and set @ 2400' (100' above perforations).
 - RIH with CICR on workstring.
- 11) Load annulus between production casing and workstring. Test to 500 psi for 15 minutes. Test is considered successful if lose less than 50 psi. If pressure test fails, contact engineer.
- 12) Establish injection rate.
- 13) Pump 10 bbls Mud Flush (or similar spacer) followed by 190 sxs PlugCem cmt.(assuming open hole 10'' and 4 1/2'' production csg. And cement yield of 1.2).
 - TOC should be ~500' in annulus above perforations. Ensure that cement does not come up past where the shoe plug is planned.
 - BH issues, pump 15.8 ppg PlugCem from HES.
- 14) Displace cement with 7.5 bbls fresh water (2 3/8 4.7# J-55 0.0039 bbls/ft tbq capacity).
 - Number should be 2 bbls short of volume of workstring down to CICR.
- 15) Un-sting from CICR.
- 16) Place remaining 2 bbls of cement on top of CICR. Allow to fall on CICR as pulling out.
- 17) POOH w/ workstring.
- 18) Shut down for 4 hours (minimum). Confirm no pressure on the bradenhead or to surface. If pressure/gas migration remains, call engineer.
- 19) RIH w/ WL and cut production casing at 720'.
- 20) Circulate a MINIMUM of 2 bottoms up volumes (100 bbls total) or until well is free of oil, gas, or any large cuttings.
- 21) Perform flow check for 5 minutes to ensure well is static and record current fluid weight in WellView.
- 22) Unland production casing.
- 23) POOH and LD production casing filling pipe every 6 joints.
- 24) RIH w/ workstring to 720' (top of casing).
- 25) Establish circulation.
- 26) Pump 10 bbls Mud Flush (or similar spacer) followed by 233 sx of cement (PlugCem) as a balanced plug. TOC should be at surface.

- Known BH issues, pump 15.8 ppg PlugCem from HES and a minimum of a 300' plug placing cement at least 50' into surface casing. SDFN and ensure that well has no pressure prior to pumping second plug to surface. If pressure is present, contact engineer. Second plug can be Class G Neat cement.
- Fox Hill Covered

27) POOH w/ workstring. Top off cement if needed. Cement needs to be ~10' from surface.

28) ND BOP. Top off cement as needed.

29) RDMO.