



**Well Name: HSR-Gun Club 16-34**

**API: 05-123-18913**

**Q/Q:NWSE Sec. 34 T/R 4N65W**

*P&A Procedure*

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

**Date 2/14/2017**

<b>WELL NAME:</b>	HSR-Gun Club 16-34			<b>DATE:</b>	5/12/2017		
<b>LOCATION:</b>							
Qtr/Qtr:	NWSE	Section:	34	Township:	4N	Range:	65W
Footages:	1496'	FSL	&	1541'	FEL		
<b>COUNTY:</b>	WELD		<b>STATE:</b>	CO		<b>API #:</b>	05-123-18913
<b>ENGINEER:</b>	Narayan (Sonu) Choudhary			7 Day Notice Sent:			
	(Please notify Engineer of any major changes prior to work)			Do not start operations until:			
				Notice Expires:			
<b>OBJECTIVE:</b>	P&A						
<b>WELL DATA:</b>							
Surface Csg:	8 5/8" 24# @ 713'				KB Elevation:	4760'	
Surface Cmt:	500 sks				GL Elevation:	4750'	
Long St Csg:	3 1/2" 7.7# I-70 @ 7494'				TD:	7514'	
Long St Cmt:	564 sks calculated				PBTD:	7447'	
Long St Date:	3/3/1996						
Plug Back (Sand or CIBP):							
Perforation Interval (1):	Sussex Perf 4713' to 4718 (Already Squeezed)						
Perforation Interval (2):	Niobrara Perforations 7094' - 7252'						
Perforation Interval (3):	Codell Perforations 7363' - 7373'						
Tubing:	2 1/16" 3.25# J-55 @ 7025'				Rods:		
Pump:							
Misc.:	Sussex Perf 4713' to 4718 (Already Squeezed)						
<b>PRODUCTION STATUS:</b>	Producing						
<b>COMMENTS:</b>	Uneconomic to do WBI work						

### **Procedure:**

- 1) Perform Form 17
- 2) MIRU workover rig, pump, and tank.
- 3) Blow down well and roll hole with fresh water, if possible.
- 4) ND WH, NU BOP.
- 5) POOH and LD 2 3/8" tbg @ 7025'.
- 6) RIH w/ CIBP and wireline. Set CIBP @ 7044' (50' above Nio top perf @ 7094')

- 7) Dump bail 2 sxs of Class G Neat cement on top of CIBP.
- 8) 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.
- 9) RIH w/ workstring maintain circulation. Pump 30 sxs of balance plug from 4200' to 4850' (Regular Class G Neat).
- 10) RIH w/ 1' perforating gun and shoot 4-6 spf @ 2500'.
- 11) RIH w/ CICR and set @ 2400' (100' above perforations).
  - RIH with CICR on workstring.
- 12) 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.
- 13) Establish injection rate.
- 14) Pump 10 bbls Mud Flush (or similar spacer) followed by 225 sxs Class G Neat (assuming open hole 10" and 3 1/2" production csg.).
  - TOC should be ~500' in annulus above perforations. Ensure that cement does not come up past where the shoe plug is planned.
- 15) Displace cement with 6 bbls fresh water (2 1/16 3.25# J-55 0.00298 bbls/ft tbg capacity).
  - Number should be 2 bbls short of volume of workstring down to CICR.
- 16) Un-sting from CICR.
- 17) Place remaining 2 bbls of cement on top of CICR. Allow to fall on CICR as pulling out.
- 18) POOH w/ workstring.
- 19) RIH w/ WL and cut production casing at 820'.
- 20) Circulate a MINIMUM of 2 bottoms up volumes (90 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 870' (inside casing).
- 25) Establish circulation.
- 26) Pump 10 bbls Mud Flush (or similar spacer) followed by 285 sx of cement as a balanced plug. TOC should be at surface.
  - Pump 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.

- 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.

NWSE	34-4N-65W		
1496'	FSL & 1541' FEL		
WELD COUNTY, CO			
Wattenberg			
CURRENT WELLBORE SCHEMATIC			
with PROPOSED P&A			
5/12/2017			

TD:	7514'
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