



Well Name: HSR-Carney 15-34

API: 05-123-17099

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

P&A Procedure

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

Date 2/14/2017

WELL NAME:	HSR-Carney 15-34			DATE:	2/16/2017		
LOCATION:							
Qtr/Qtr:	SWSE	Section:	34	Township:	4N	Range:	65W
Footages:	800'	FSL	&	1840'	FEL		
COUNTY:	WELD		STATE:	CO		API #:	05-123-17099
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 @ 469'			KB Elevation:	4767'	
	Surface Cmt:	330 sks			GL Elevation:	4757'	
	Long St Csg:	4 1/2" 11.6# I-70 @ 7213'			TD:	7696	
	Long St Cmt:	340 sks			PBTD:	7662'	
	Long St Date:	7/17/1993					
	Plug Back (Sand or CIBP):						
	Perforation Interval (1):	Niobrara Perforations 6820' - 6954'					
	Perforation Interval (2):	Codell Perforations 7068' - 7084'					
	Perforation Interval (3):	J-Sand Perforation 7546' - 7592'					
	Tubing:	2 3/8" 4.7# J-55 @ 7143'			Rods:		
	Pump:						
	Misc.:						
PRODUCTION STATUS:	Producing						
COMMENTS:	Uneconomic to do WBI work						

Procedure:

- 1) Ensure Form 17 has been completed and reviewed.
- 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" 4.7# J-55 tbg @ 7143'.
- 6) RIH w/ wireline & CIBP. Set (2 7/8") CIBP @ 7496' (50' above J-Sand top perf @ 7546').
Dump bail 2 sxs of cement on top of CIBP.

- 7) RIH w/ wireline & CIBP. Set CIBP @ 6770' (50' above Nio top perf @ 6820'). Dump bail 2 sxs of cement on top of CIBP.
- 8) Load hole through workstring 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 46 sxs of balance plug Class G Cmt. from 3900' to 4500'. POOH w/ workstring.
- 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 200 sxs of cmt. 15.8ppg PlugCem (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.
- 15) Displace cement with 7.5 bbls fresh water (2 3/8 4.7# J-55 0.0039 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 669'.
- 20) Circulate a MINIMUM of 2 bottoms up volumes (~80 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 719' (inside csg).
- 25) Establish circulation.
- 26) Pump 10 bbls Mud Flush (or similar spacer) followed by 240 sx of cement as a balanced plug (Plug Cem). 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. Second plug can be Class G Neat cement.

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.

Proposed Wellbore Diagram

