



Date: 3/9/20 –3/13/20

Operator: Noble Energy Inc.

Well Name: Boiko PC G 15-29D

Legal Location: NWNW Sec. 15 T4N R65W

API # 05-123-33714-00

Job Log

Weld County

3/9/2020: MIRU. Check psi: 950/950/13 psi. Test BOP's. SWI.

3/10/2020: Check psi: 950/950/13 psi. Kill well with 70 BBLs down CSG and 30 BBLs down TBG. ND WH. NU BOP's. Tally out with 39 stands of 2 3/8" TBG. LD 172 JTS of TBG. RU WL, RIH with 4 1/2" CIBP set @ 7651'. Dump bail 2sxs. Set 2<sup>nd</sup> CIBP @ 6859'. Pressure test @ 500 psi. Test good. Dump bail 2sxs of CMT. RD WL. SWI.

3/11/2020: Check psi: 0/50/2 psi. RU WL, set 3<sup>rd</sup> CIBP @ 4119'. Dump bail 2sxs. Run CBL from 2600' to surface. Couldn't log due to gas in the well. RD WL. RIH with 82 JTS of TBG to 2510'. Circulate gas out with 60 BBLs. TOOH with 82 JTS. RU WL. Run CBL from 2600' to surface. TIH with 82 JTS of TBG. RU CMT equipment, pump balance plug with 40sxs. TOOH to 1220'. Reverse circulate with 20 BBLs. LD 43 JTS. SWI.

3/12/2020: Check psi: 0/0/1 psi. RU WL. Cut CSG @ 1218'. RD WL. Circulate well with 120 BBLs. ND BOP's. NU WH. UNLAND CSG. Failed. ND WH. NU BOP's. RU WL, RIH with squeeze gun, make perf @ 930'. RIH with CICR @ 1112'. RD WL. TIH with 2 3/8" TBG. Tagged stinger with 16 JTS @ 1112'. RU CMT equipment, pump 105sxs. TOH with 6 JTS. Reverse circulate out. TOC @ 930'. TOH with 15 stands, SWI.

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3/13/2020: Check psi: 0/0/0 psi. Load well with water, monitor for bubbles. TIH with 40 JTS of TBG. LD all TBG on trailer. RU CMT equipment on CSG. Pump surface plug with 280sxs from 930' to surface. RD CMT equipment. ND BOP's. RDMO. SWI.

\*\*\*All cement is 15.8 # Class "G" neat cement\*\*\*

Cementing Contractor: SPN Well Services

Cementing Contractor Supervisor: Matt Bulinski

Operator Supervisor: Jess Jacobs

State Representative: Abe Serna

Wireline Contractor: SPN Well Services – E - Line

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## SPN CEMENT REPORT

OPERATOR: <i>Noble</i>	DATE: <i>March 11, 2020</i>	API# <i>05 123 33714</i>
LEASE NAME: <i>Boiko PC G 15-290</i>	RIG # <i>SPN 712</i>	COUNTY: <i>WELD</i>

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
CEMENT DATE:	<i>3-11-20</i>	<i>3-12-20</i>	<i>3-13-20</i>		
SIZE OF HOLE OR PIPE IN WHICH PLUG PLACED:	<i>4 1/2, 11.6#</i>	<i>4 1/2, 11.6#</i>	<i>8 5/8, 9"</i>		
DEPTH TO BOTTOM OF TUBING OR DRILL PIPE:	<i>2510'</i>	<i>1218'</i>	<i>930</i>		
SACKS OF CEMENT USED (EACH PLUG):	<i>40</i>	<i>105</i>	<i>280</i>		
SLURRY VOLUME PUMPED:	<i>8.2</i>	<i>21.5</i>	<i>57.3</i>		
MEASURED TOP OF PLUG:	<i>2010'</i>	<i>930'</i>	<i>0'</i>		
SLURRY WT. #/GAL. :	<i>15.8#</i>	<i>15.8#</i>	<i>15.8</i>		
TYPE CEMENT:	<i>Great</i>	<i>G, 8%</i>	<i>G, 2%</i>		
MUD FLUSH USED BBLS:	<i>0</i>	<i>0</i>	<i>0</i>		
CALCIUM CHLORIDE USED LBS:	<i>0</i>	<i>200</i>	<i>400</i>		
SUGAR USED LBS:	<i>0</i>	<i>100</i>	<i>100</i>		

*[Signature]*

SIGNATURE OF CEMENTER OR AUTHORIZED REPRESENTATIVE

*SPN*

NAME OF CEMENTING CO.