



Well Services

## CEMENT REPORT

LEED ENERGY

OPERATOR: <u>Noble</u>	DATE: <u>1-31-19</u>	API# <u>05-123-23455</u>
LEASE NAME: <u>FRANK C12-17</u>	RIG # <u>734</u>	COUNTY: <u>Weld</u>

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
CEMENT DATE:	<u>1-31-19</u>	<u>2-1-19</u>	<u>2-4-19</u>		
SIZE OF HOLE OR PIPE IN WHICH PLUG PLACED:	<u>4 1/2" #110</u>	<u>4 1/2" 9"</u>	<u>8 3/8" 9"</u>		
DEPTH TO BOTTOM OF TUBING OR DRILL PIPE:	<u>6358'</u>	<u>2568'</u>	<u>2122'</u>		
SACKS OF CEMENT USED (EACH PLUG):	<u>20</u>	<u>200</u>	<u>510</u>		
SLURRY VOLUME PUMPED:	<u>5.4</u>	<u>41.0</u>	<u>104.4</u>		
MEASURED TOP OF PLUG:	<u>6009'</u>	<u>1993'</u>	<u>Surfale</u>		
SLURRY WT. #/GAL. :	<u>15.8</u>	<u>15.8</u>	<u>15.8</u>		
TYPE CEMENT:	<u>Silica</u>	<u>G</u>	<u>G</u>		
MUD FLUSH USED BBLS:	<u>0</u>	<u>10</u>	<u>10</u>		
CALCIUM CHLORIDE USED LBS:	<u>0</u>	<u>0</u>	<u>0</u>		
SUGAR USED LBS:	<u>0</u>	<u>0</u>	<u>50</u>		

SIGNATURE OF CEMENTER OR AUTHORIZED REPRESENTATIVE

SPW  
NAME OF CEMENTING CO.



# Well Services

Date: 1/30/19 – 2/4/19

Operator: Noble Energy Inc.

Well Name: Frank C 12-17

Legal Location: NENE Sec. 12 T4N R64W

API # 05-123-23455-00

Job Log

Weld County

1/30/19: MI RU, check psi: 550/550/0 psi, pressure test pump lines and BOP's, blow pressure down, circulate well with 172 BBLs of water, ND WH, NU BOP's, lay down 8 JTS on float, SWI.

1/31/19: Check psi: 0/0/0 psi, TOOH, tally and stand back 200 JTS and lay down the rest on float, RU WL to go in and tag fil l@6941' and to spot 2sxs of CMT @6941', run in to set CIBP @6358', RD WL, TIH with 200 JTS, circulate well with water, pressure test plug to 1000 psi, held good, RU CMT equipment to pump 20sxs balance plug (6358'-6009'), TOOH, stand back 80 JTS and lay down the rest on float, SWI.

2/1/19: Check psi: 0/0 psi, RU WL to go in and cut CSG @2500', RD WL, circulate well with water, ND BOP's and WH, UNLAND CSG, NU BOP's, TOOH, lay down 60-4 ½ JTS on float, TIH with 80 JTS (EOT@2568'), RU CMT equipment to condition well and to pump 200sxs balance plug (2568'-1993'), TOOH, stand back 34 JTS and lay down the rest on float, SWI.

2/4/19: Check psi: 0 psi, TIH with 35 JTS (EOT@1127'), RU CMT equipment to condition well and to pump CMT up to surface, lay down TBG, ND BOP's, top off well with CMT (510sxs top plug), SWI, RD MO.

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

Cementing Contractor: SPN Well Services

Cementing Contractor Supervisor: Matt Bulinski

Operator Supervisor: Scott Marez

State Representative: Tom Peterson

Wireline Contractor: SPN Well Services – E - Line