

LEED CEMENT REPORT

OPERATOR: <u>Noble</u>	DATE: <u>9/17/18</u>	API# <u>05-123-28084</u>
LEASE NAME: <u>70 RANCH USX 9-15</u>	RIG # <u>719</u>	COUNTY: <u>Weld</u>

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
CEMENT DATE:	<u>9/17/18</u>	<u>9/18/18</u>	<u>9/19/18</u>	<u>9/20/18</u>	
SIZE OF HOLE OR PIPE IN WHICH PLUG PLACED:	<u>4 1/2</u>	<u>4 1/2</u>	<u>8 5/8-9"</u>	<u>8 5/8</u>	
DEPTH TO BOTTOM OF TUBING OR DRILL PIPE:	<u>6428'</u>	<u>2500'</u>	<u>780'</u>	<u>237'</u>	
SACKS OF CEMENT USED (EACH PLUG):	<u>20</u>	<u>25</u>	<u>336</u>	<u>74</u>	
SLURRY VOLUME PUMPED:	<u>5.4</u>	<u>6.2</u>	<u>69</u>	<u>15.09</u>	
MEASURED TOP OF PLUG:	<u>6079'</u>	<u>2063'</u>	<u>Surf</u>	<u>Top off</u>	<u>Surf</u>
SLURRY WT. #/GAL. :	<u>15.8</u>	<u>15.8</u>	<u>15.8</u>	<u>15.8</u>	
TYPE CEMENT:	<u>Silica</u>	<u>Silica</u>	<u>B</u>	<u>B</u>	
MUD FLUSH USED BBLS:	<u>0</u>	<u>0</u>	<u>10</u>	<u>0</u>	
CALCIUM CHLORIDE USED LBS:	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
SUGAR USED LBS:	<u>0</u>	<u>50</u>	<u>100</u>	<u>50</u>	

Sergio Gutierrez
SIGNATURE OF CEMENTER OR AUTHORIZED REPRESENTATIVE

SPN
NAME OF CEMENTING CO.



Well Services

Date: 9/13/18 –9/20/18

Operator: Noble Energy Inc.

Well Name: 70 Ranch USX BB 9-15

Legal Location: SWSE Sec. 9 T5N R63W

API # 05-123-28084-00

Job Log

Weld County

9/13/18: MI RU, check psi: 1350/1350/0 psi, pressure test pump lines, SWI.

9/14/18: Check psi: 1350/1350/0 psi, pressure test BOP's, blow pressure down, circulate well with 120 BBLs of water, ND WH, NU BOP's, SWI.

9/17/18: Check psi: 0/0/0 psi, TOOH, tally and stand back 210 JTS and lay down the rest on float, RU WL to go in and set CIBP @6428', RD WL, TIH with 208 JTS (EOT@6428'), circulate well with 60 BBLs of water, pressure test plug to 1000 psi, held good, RU CMT equipment to pump 20sxs balance plug (6428'-6079'), lay down 128 JTS, left 80 JTS in the hole, SWI.

9/18/18: Check psi: 0/0/0 psi, pick up 1 JT (81 JTS in the hole EOT@2500'), RU CMT equipment to pump 25sxs (2500'-2063'), RD CMT equipment, TOOH, stand back 24 JTS, lay down the rest on float, RU WL to go in and cut CSG @730', RD WL, condition well with water, ND BOP's and WH, UNLAND CSG, NU BOP's, TOOH, lay down 17-4 ½ JTS on float, SWI.

9/19/18: Check psi: 0 psi, TIH with 25 JTS (EOT@780'), RU CMT equipment to condition well with mud flush and to pump CMT up to surface, lay down TBG, ND BOP's, top off well with CMT (336sxs top plug), SWI.

9/20/18: Check psi: 0 psi, tag CMT @237', RU CMT equipment to top off well with 74sxs of CMT, SWI, RD, MO.

All cement is 15.8 # Class "G" neat cement

Cementing Contractor: SPN Well Services

Cementing Contractor Supervisor: Matt Bulinski

Operator Supervisor: Brian Murray

State Representative: Conor Pesicka

Wireline Contractor: SPN Well Services – E - Line