

LEED CEMENT REPORT

OPERATOR: <u>Nohle</u>	DATE: <u>8-23-18</u>	API# <u>05-122-16586</u>
LEASE NAME: <u>TIANA Blue Doz-14</u>	RIG # <u>711</u>	COUNTY: <u>Wend</u>

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
CEMENT DATE:	<u>8-23-18</u>	<u>8-24-18</u>	<u>8-24-18</u>	<u>8-27-18</u>	
SIZE OF HOLE OR PIPE IN WHICH PLUG PLACED:	<u>2 7/8</u>	<u>2 7/8"</u>	<u>2 7/8"</u>	<u>2 7/8"</u>	
DEPTH TO BOTTOM OF TUBING OR DRILL PIPE:	<u>6510'</u>	<u>4345'</u>	<u>2414'</u>	<u>876'</u>	
SACKS OF CEMENT USED (EACH PLUG):	<u>10</u>	<u>225</u>	<u>185</u>	<u>337</u>	
SLURRY VOLUME PUMPED:	<u>2.7</u>	<u>56.3</u>	<u>37.8</u>	<u>69</u>	
MEASURED TOP OF PLUG:	<u>6043'</u>	<u>3701'</u>	<u>2062'</u>	<u>surface</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>G</u>	<u>G</u>	<u>G</u>	
MUD FLUSH USED BBLs:	<u>0</u>	<u>10</u>	<u>10</u>	<u>10</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>50</u>	<u>50</u>	

Sergio Gutierrez
SIGNATURE OF CEMENTER OR AUTHORIZED REPRESENTATIVE

SPAI
NAME OF CEMENTING CO.



Well Services

Date: 8/21/18 – 8/27/18

Operator: Noble Energy Inc.

Well Name: Tania Blue D 02-14

Legal Location: SESW Sec. 2 T3N R64W

API # 05-123-16586-00

Job Log

Weld County

8/21/18: Move in, rig up, shut down.

8/22/18: Check psi: 356/558/0 psi, pressure test pump lines and BOP's, circulate well with 46 BBLs of water, ND WH, NU BOP's, TOOH, lay down 206 JTS on float, RU WL to go in and set CIBP @6510', RD WL, TIH with mule shoe and 80 JTS, SWI.

8/23/18: Check psi: 0/0/0 psi, continue to trip in hole from float, tag CIBP @6510' with 202 JTS in the hole, circulate well with 23 BBLs of water, pressure test plug to 1000 psi, held good, RU CMT equipment to pump 10sxs balance plug (6510'-6043'), RD CMT equipment, TOOH, stand back 134 JTS and lay down the rest on float, RU WL to go in and shoot squeeze holes @4445' and to set CICR @4345', TIH with stinger, 135 JTS and 1-4' sub to sting into retainer, pressure test back side to 500 psi, held good, SWI.

8/24/18: Check psi: 0/0/100 psi, RU CMT equipment to condition well and to pump 260sxs through retainer and 15sxs on top of retainer (4345'-2062'), RD CMT equipment, TOOH, stand back 74 JTS and lay down the rest on float, RU WL to go in and shoot squeeze holes @2500' and to set CICR @2414', RD WL, TIH with stinger and 75 JTS to sting into retainer @2414', RU CMT equipment to condition well and to pump 175sxs through retainer and to leave 10sxs on top of retainer (2414'-2062'), RD CMT equipment, TOOH, stand back 28 JTS, circulate well with water, lay down the rest on float, SWI.

8/27/18: Check psi: 0/100 psi, RU WL to go in and cut CSG @876', RD WL, condition well with water, ND BOP's and WH, UNLAND CSG, NU BOP's, RU CMT equipment to condition well and to pump CMT up to surface, lay down CSG, ND BOP's, top off well with CMT (337sxs 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: Jorge Nava

State Representative: Jim Precup

Wireline Contractor: SPN Well Services – E - Line