

LEED CEMENT REPORT

OPERATOR: NOBLE	DATE: 12/6/18-12/11/18	API# 05-123-15359
LEASE NAME: M LEAMING 27-24	RIG # SPN 719	COUNTY: WELD

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
CEMENT DATE:	12-6-18	12-7-18	12-11-18	12-11-18	12-12-18
SIZE OF HOLE OR PIPE IN WHICH PLUG PLACED:	4 1/2"	4 1/2" x 9"	4 1/2" 8 5/8"	8 3/8" - 9"	8 5/8"
DEPTH TO BOTTOM OF TUBING OR DRILL PIPE:	6656'	4386'	2341'	679'	160'
SACKS OF CEMENT USED (EACH PLUG):	20SKS	255SKS	200SK	317SK	50
SLURRY VOLUME PUMPED:	5.4661	52661	41 BBL	65 BBL	10.2
MEASURED TOP OF PLUG:	6307'	3639'/4257'	1841'	Surface	Surface
SLURRY WT. #/GAL :	15.8	15.8	15.8	15.8	15.8
TYPE CEMENT:	G+SIUCA	G	G	G	G
MUD FLUSH USED BBLs:	0	10	10	10	0
CALCIUM CHLORIDE USED LBS:	0	0	0	0	0
SUGAR USED LBS:	0	50	50	50	50

SIGNATURE OF CEMENTER OR AUTHORIZED REPRESENTATIVE

SPN (LEED)

NAME OF CEMENTING CO.



Well Services

Date: 12/4/18 –12/12/18

Operator: Noble Energy Inc.

Well Name: M Leaming 27-24

Legal Location: SENW Sec. 27 T5N R65W

API # 05-123-15359-00

Job Log

Weld County

12/4/18: MI RU, check psi: 700/700/0 psi, pressure test pump lines and BOP's, circulate well with 155 BBLs of water, ND WH, NU BOP's, SWI.

12/5/18: Check psi: 0/0/0 psi, TOOH, tally and stand back 214 JTS and lay down the rest on float, RU WL to go in and set CIBP @6660', RD WL, TIH with 214 JTS, SWI.

12/6/18: Check psi: 0/0/0 psi, circulate well with water, pressure test plug to 1000 psi, held good, RU CMT equipment to pump 20sxs balance plug (6656'-6307'), RD CMT equipment, TOOH, stand back 142 JTS and lay down the rest on float, RU WL to go in and shoot squeeze holes @4486', RD WL, TIH with CICR and 142 JTS to set it @4386', SWI.

12/7/18: Check psi: 0/0 psi, pressure test back side to 500 psi, held good, RU CMT equipment to pump 255sxs of CMT (4386'-4257'), RD CMT equipment, TOOH, stand back 74 JTS and lay down the rest on float, SWI.

12/10/18: Check psi: 0/0 psi, RU WL to go in and cut CSG @2291', circulate well with water, ND BOP's and WH, UNLAND CSG, NU BOP's, TOOH, lay down 72-4 ½ JTS on float, SWI.

12/11/18: Check psi: 0 psi, TIH with 76 JTS (EOT@2341'), RU CMT equipment to condition well and to pump 200sxs balance plug (2341'-1841'), RD CMT equipment, lay down 54 JTS to leave EOT @679', RU CMT equipment to condition well and to pump CMT up to surface, lay down TBG, ND BOP's, top off well with CMT (317sxs top plug), SWI.

12/12/18: Check psi: 0 psi, tag CMT@160', top off well with 50sxs, SWI, RD MO.

All cement is 15.8 # Class "G" neat cement

Cementing Contractor: SPN Well Services

Cementing Contractor Supervisor: Matt Bulinski

Operator Supervisor: Colby Baxter

State Representative: Jason Gomez

Wireline Contractor: SPN Well Services – E - Line