



Service Order #: 70,181

Date: 10-Oct-17

Well Name	Location	County	St	API#		
LEFFLER I 21-02		WELD	CO			
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	PLUG		REWORK		

Customer: NOBLE ENERGY

Remarks: CLASS G CMT, 1.15 YIELD, 15.8 LB/ Gal  
200 SKS, 41 BBLS, THROUGH RETAINER  
10 SKS, 2 BBLS ABOVE RETAINER  
2500'-1990' ANNULUS. 2500'-2279' CASING  
290 SKS, 59.4 BBLS, @ 856'-0'

Customer Rep: STEW

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	452.0	
Production Casing:	4.500	11.6		
Intermediate:				
Drill Pipe:				
Tubing:	2.375	4.7	2,408.0	

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	10.000	452.0	805.0	

OTHER DATA		
BHT	Max PSI	Total Depth
	1,365	2,500.0

Packer or RetainerType / Depth:

Perf Depths:	#	Total
	0	0
	0	
	0	

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gl)	(psi)	(bbls)	(bbls)	
13:52	0	0.0	6.88	2,398	0.2	0.2	PSI TEST
13:53	0	0.0	6.88	59	0.2	0.2	MUD FLUSH
14:01	0	2.0	15.87	720	9.9	9.9	H2O SPACER
14:04	0	2.0	15.73	627	4.9	15.2	CMT
14:25	0	2.0	15.34	101	43.0	58.4	DISPLACEMENT
14:29	0	0.0	8.56	104	7.3	65.8	OFFLINE
14:34	0	0.0	8.56	54	7.3	65.8	Paused 14:34:55-11:35:12
12:01	0	0.0	6.88	2,131	0.2	0.2	PSI TEST
12:02	0	0.0	6.88	54	0.2	0.2	MUD FLUSH
12:09	0	2.1	15.85	124	10.0	10.0	H2O SPACER
12:12	0	2.1	15.85	119	5.0	15.1	CMT
12:39	0	0.0	15.85	193	57.4	72.6	CMT TO TANK OFFLINE
12:48	176	0.0	15.31	60	57.4	72.6	Paused 12:48:58

## Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.1	0.9	2,496	267

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory  
☐ Unsatisfactory

Cementer:

A.HOWELL

PRODUCTS USED