



Service Order #: 70,185

Date: 31-Oct-17

Well Name	Location	County	St	API#		
WELLS RANCH	AF 07-03	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 LBS/ GAL

25 SKS, 5.1 BBLs, @ 2550'-2221'
312 SKS, 64 BBLs, @ 811'-0'

Customer Rep: TONY

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	561.0	
Production Casing:	4.500	11.6		
Intermediate:				
Drill Pipe:				
Tubing:	2.375	4.7	2,550.0	
Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	9.000	561.0	761.0	

OTHER DATA		
BHT	Max PSI	Total Depth
	546	2,550.0

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)	
15:11	127	0.0	6.88	961	2.2	2.2	PSI TEST IRON
15:22	0	0.0	15.81	30	0.0	0.0	H2O SPACER
15:23	0	2.0	15.75	241	0.0	1.2	END H2O / START CMT
15:26	0	2.0	15.39	59	5.3	6.5	END CMT / START DISPLACEMENT
15:30	0	0.0	14.65	23	8.4	14.9	END DISPLACEMENT/ OFF LINE
14:30	0	0.3	2.25	65	0.1	0.1	PSI TEST
14:32	0	0.0	2.25	53	0.2	0.2	START MUD FLUSH
14:37	0	2.0	15.82	124	10.0	10.0	END MUD FLUSH/ STARTBH2O SPACER
14:39	0	2.0	15.56	136	5.0	15.0	END H2O SPACER / START CMT
14:59	0	0.0	16.01	47	56.6	71.8	OFF LINE
15:06	0	0.0	15.62	41	56.6	71.8	Paused 15:06:13

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.0	1.6	1,896	169

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory
☐ Unsatisfactory

Cementer:

A.HOWELL

PRODUCTS USED