



Service Order #: 73168

Date: 28-Aug-18

Well Name	Location	County	St	API#
MICK D 18-12		WELD	CO	

Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	PLUG		REWORK		

Customer: NOBLE ENERGY

Remarks: SAFETY MEETING  
20 BBLS MUD FLUSH  
293 SKS, 60.1 BBLS TO SURFACE  
10 SKS, 2 BBLS TOP OFF

Customer Rep: C. MATHIAS

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	610.0	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:	2.063	3.3	810.0	

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	9.000	610.0	810.0	

OTHER DATA		
BHT	Max PSI	Total Depth

Packer or RetainerType / Depth:

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Perf Depths:	#	Total
	0	0
	0	
	0	

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbls)	(bbls)	
7:43	0	0.0	6.88	0	0.9	0.9	PSI TEST
7:48	0	0.6	6.88	0	0.0	0.0	PUMP MUD FLUSH
7:56	0	0.0	6.88	49	2.2	12.6	OFF LINE
10:46	0	0.0	6.88	1,180	2.4	2.4	PSI TEST
10:48	0	0.0	6.88	7	0.0	0.0	MUD FLUSH
10:56	0	2.0	6.88	281	10.0	10.0	END MUD FLUSH / START H2O SPACER
10:59	52	2.0	16.41	247	5.0	15.0	END SPACER / START CMT
11:32	0	0.0	15.37	393	60.1	75.1	AT SURFACE / OFF LINE

### Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.0	1.4	3,810	236

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory  
☐ Unsatisfactory

Cementer:

S. BOHLEN

### PRODUCTS USED

CLASS G CMT  
1.15 YEILD, 15.8 LBS/GAL



Service Order #: 73167

Date: 27-Aug-18

Well Name	Location	County	St	API#		
MICK D 18-12		WELD	CO			
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	PLUG		REWORK		

Customer: NOBLE ENERGY

Remarks: SAFETY MEETING  
10 BBLS MUD FLUSH  
200 SKS, 40.9 BBLS  
2500'-1986'

Customer Rep: C. MATHIAS

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:				
Production Casing:	3.500	7.7	2,500.0	
Intermediate:				
Drill Pipe:				
Tubing:	2.063	3.3	2,550.0	

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	9.000	1,986.0	2,500.0	

OTHER DATA		
BHT	Max PSI	Total Depth

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/g)	(psi)	(bbls)	(bbls)	
15:16	0	0.0	6.88	915	1.7	1.7	PSI TEST
15:17	0	0.0	6.88	40	0.0	0.0	MUD FLUSH
15:23	53	2.0	15.73	930	10.0	10.0	END MUD FLUSH / START H2O SPACER
15:25	0	2.0	15.93	682	5.1	15.1	END SPACER / START CMT
15:46	0	2.0	15.00	188	40.9	56.0	END CMT / START DISPLACEMENT
15:49	0	0.0	8.34	404	5.8	61.8	OFF LINE
15:55	0	0.0	8.34	46	5.8	61.8	Paused 15:55:41

## Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.0	2.0	2,687	358

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory  
☐ Unsatisfactory

Cementer:

S. BOHLEN

## PRODUCTS USED

CLASS G CMT  
1.15 YEILD, 15.8 LBS/GAL



Service Order #: 74057

Date: 24-Aug-18

Well Name	Location	County	St	API#		
MICK D18-12		WELD	CO			
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	PLUG		REWORK		

Customer: NOBLE ENERGY

Remarks: THERMAL BLEND 1.53 YIELD, 15.8 LBS/GAL  
20 SKS, 5.4 BBLS  
7027' - 6436'  
  
CLASS G CEMENT, 1.15 YIELD, 15.8 LBS/GAL  
35 SKS, 7.1 BBLS  
4600' - 3823'

Customer Rep: CHRIS MATHIAS

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:				
Production Casing:	3.500	7.7	7,027.0	
Intermediate:				
Drill Pipe:				
Tubing:	2.063	3.3	7,027.0	

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

OTHER DATA		
BHT	Max PSI	Total Depth
	1,120	7,027.0

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/gal)	(psi)	(bbbls)	(bbbls)	
12:16	0	0.0	6.88	3,248	0.1	0.1	PSI TEST
12:17	0	0.0	6.88	0	0.0	0.0	H2O SPACER
12:21	0	0.9	11.68	259	5.0	5.0	CEMENT
12:27	0	1.9	6.93	2	5.4	13.4	DISPLACEMENT
12:37	0	2.0	8.25	887	18.9	32.3	OFF LINE
13:35	0	0.2	6.88	0	0.0	0.0	H2O SPACER
13:39	46	2.0	14.85	707	5.0	5.0	CEMENT
13:44	0	2.0	16.80	244	7.1	13.8	DISPLACEMENT
13:49	26	0.0	8.36	0	11.0	25.2	OFF LINE

Summary

Max Fl. Rate Avg Fl. Rate Max Psi Avg Psi  
2.0 0.9 3,248 467

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory  
☐ Unsatisfactory

Cementer:

RAFAEL GARCIA

PRODUCTS USED