



Service Order #: 75229C

Date: 25-Oct-17

Well Name	Location	County	St	API#
JUDE 1		WELD	CO	05-123-10501

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

Customer: NOBLE ENERGY, INC.

Remarks: *CEMENT*
- 9.3 bbls / 45 sks (178' - 0')

Customer Rep: PETE BURNS

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.675	24.0	191.0	
Production Casing:	5.500	15.5	178.0	
Intermediate:				
Drill Pipe:				
Tubing:	2.875	6.5	191.0	

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

OTHER DATA		
BHT	Max PSI	Total Depth
	1,000	178.0

Packer or RetainerType / Depth:

Perf Depths: # Total

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbls)	(bbls)	
14:54	0	0.3	6.88	4,538		0.1	PSI TEST LINES
14:55	0	0.7	6.88	0		0.1	ESTABLISH CIRCULATION
14:56	0	1.9	6.88	6		2.0	SHUT DOWN - CIRCULATION ESTABLISHED
15:00	29	0.0	15.83	0		0.0	BATCH UP CEMENT @ 15.8 PPG
15:01	0	0.1	15.87	0		0.0	PUMP CEMENT
15:07	0	2.0	15.69	18		9.3	END CEMENT - DISP CEMENT WITH H2O
15:08	0	1.9	8.36	130		3.1	SHUT DOWN - END JOB

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.0	1.0	4,538	32

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory
☐ Unsatisfactory

Cementer:

Cory Thaut

PRODUCTS USED

CLASS G + 2.7% CaCl



Service Order #: 75228C

Date: 24-Oct-17

Well Name	Location	County	St	API#
JUDE 1		WELD	CO	05-123-10501

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

Customer: NOBLE ENERGY, INC.

Remarks: *CEMENT PLUG*
- 10.2 bbls / 50 sks (186' - 26')

Customer Rep: PETE BURNS

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.675	24.0	191.0	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:	2.875	6.5	191.0	

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

OTHER DATA		
BHT	Max PSI	Total Depth
	500	186.0

Packer or RetainerType / Depth:

Perf Depths: # Total

TIME	PUMP RATES		DENSITY (lb/gl)	PRESS (psi)	STG TOT (bbls)	TOTAL (bbls)	REMARKS
	WATER (gpm)	PUMP (bpm)					
13:26	0	0.1	6.88	2,477		0.1	PSI TEST LINES
13:27	0	0.7	6.88	0		0.0	ESTABLISH CIRCULATION
13:31	0	2.5	6.88	30		7.0	SHUT DOWN - CIRCULATION ESTABLISHED
13:35	39	0.0	15.89	0		0.0	MIX & PUMP CEMENT @ 15.8 PPG
13:45	0	1.0	16.00	0		10.2	END CEMENT - DISP CEMENT WITH H2O
13:46	0	1.0	16.01	0		0.7	SHUT DOWN - END JOB

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.5	0.7	2,477	8

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory
☐ Unsatisfactory

Cementer:

Cory Thaut

PRODUCTS USED

CLASS G + 3% CaCl



Service Order #: 75227C

Date: 23-Oct-17

Well Name	Location	County	St	API#		
JUDE 1		WELD	CO	05-123-10501		
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	PLUG	GAS	REWORK		

Customer: NOBLE ENERGY, INC.

Remarks: PLUG 1: 1 BBL / 5 SKS (125' - 109')
PLUG 2: 6.6 BBLs / 32 SKS (186' - 86')

Customer Rep: PETE BURNS

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.675	24.0	191.0	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:	2.875	6.5	191.0	

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

OTHER DATA		
BHT	Max PSI	Total Depth
	1,500	186.0

Packer or RetainerType / Depth:

Perf Depths: # Total

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbls)	(bbls)	
10:03	0	0.0	6.88	1,515		0.1	PSI TEST LINES
10:04	0	0.0	6.88	12		0.1	ESTABLISH CIRCULATION
10:08	1	1.5	6.88	12		9.0	SHTU DOWN - CIRCULATION ESTABLISHED
10:30	0	0.0	15.88	0		2.7	BATCH UP CEMENT @ 15.8 PPG
10:32	0	0.3	15.43	0		0.0	PUMP CEMENT
10:33	0	1.7	15.47	12		1.5	SHUT DOWN - END JOB
9:21	0	0.1	6.88	2,698		0.1	PSI TEST LINES
9:22	0	0.0	6.88	18		0.0	ESTABLISH CIRCULATION
9:28	0	2.0	6.88	24		8.0	SHUT DOWN - CIRCULATION ESTABLISHED
9:31	48	0.0	15.83	6		0.6	BATCH UP CEMENT @ 15.8 PPG
9:33	0	0.0	15.88	6		0.0	PUMP CEMENT
9:40	0	1.0	15.80	6		6.6	END CEMENT - DISP CEMENT WITH H2O
9:41	0	0.0	15.80	6		0.8	SHUT DOWN - END JOB

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.0	0.4	2,698	16

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory
☐ Unsatisfactory

Cementer:

Cory Thaut

PRODUCTS USED

CLASS G (neat)