

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2631688	Quote #:	Sales Order #: 0905184722
Customer: NOBLE ENERGY INC-EBUS		Customer Rep: Tyson Hamacher	
Well Name: NOBLE MCWILLIAMS D 29-32,WELD	Well #: 2631688	API/UWI #: 05-123-25426	
Field:	City (SAP): KERSEY	County/Parish: WELD	State: COLORADO

Legal Description:	
Contractor:	Rig/Platform Name/Num:
Job BOM: 7528 7528	
Well Type: GAS	
Sales Person: HALAMERICA\HB70026	Srvc Supervisor: James Bunnell
Job	

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Tubing		2.375	1.995	4.7			0	6500		
Casing		4.5	4	11.6			0	6980		

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	CIBP Plug	HALCEM (TM) SYSTEM	<u>20</u>	sack	15.8	1.51		2	6.21

6720-6372'

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	HalCem	HALCEM (TM) SYSTEM	60	sack	15.8	1.15			5
5 Gal		FRESH WATER							

4601-3807

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Mud Flush III (Powder)	Mud Flush III	20	bbbl	8.4				
42 gal/bbl		FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	HalCem	HALCEM (TM) SYSTEM	<u>200</u>	sack	15.8	1.15			5

5 Gal	FRESH WATER
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2,552,1989



Service Order #: 73191

Date: 04-Oct-18

Well Name	Location	County	St	API#		
MCWILLIAMS D 29-32		WELD	CO	05-123-25426		
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	PLUG		REWORK		

Customer: NOBLE ENERGY

Remarks: TEST H2O, PH 7.3, PPM 870, F 62
 SAFETY MEETING
 320 SKS, 65.7 BBLS
 OH 870' - 654'
 SC, 654' - 0'
 10 SKS, 2 BBLS
 TOP OFF

Customer Rep: TYSON

PH:

Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	654.0	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:	2.375	4.7	870.0	

BHT	Max PSI	Total Depth

Packer or RetainerType / Depth:

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	9.000	654.0	870.0	

Perf Depths:	#	Total
	0	0
	0	
	0	

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gl)	(psi)	(bbbls)	(bbbls)	
8:19	0	0.2	6.88	1,961	0.1	0.1	PSI TEST
8:20	0	0.0	6.88	30	0.0	0.0	MUD FLUSH
8:25	0	2.0	15.69	145	9.9	9.9	END MUD FLUSH / START H2O SPACER
8:28	0	2.0	15.92	153	5.0	15.0	END SPACER / START CMT
9:01	0	0.0	16.28	18	65.7	80.7	OFFLINE

Summary

Max Fl. Rate Avg Fl. Rate Max Psi Avg Psi
 2.0 1.9 1,961 96

Customer Acknowledgement:

Service Rating:

- Satisfactory
- Unsatisfactory

Cementer:

S. BOHLEN

PRODUCTS USED

CLASS G CMT
 1.15 YEILD, 15.8 LBS/GAL