

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2370201	Quote #:	Sales Order #: 0905565812
Customer: NOBLE ENERGY INC-EBUS		Customer Rep: Tyson Hamacher	
Well Name: OCOMA	Well #: B 29-12,	API/UWI #: 05-123-13392	
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		Srcv Supervisor: Aaron Smith	

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/mi n	Total Mix Fluid Gal
1	Mud Flush III (Powder)	Mud Flush III	10	bbl	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/mi n	Total Mix Fluid Gal
2	HalCem	HALCEM (TM) SYSTEM	200	sack	15.8	1.16			5.05
5.05 Gal		FRESH WATER							

2500-1940

Cement Left In Pipe	Amount	ft	Reason	Shoe Joint

Comment

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate <i>(bbl/min)</i>	DH Density <i>(ppg)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Depart from Service Center or Other Site	Depart from Service Center or Other Site	3/18/2019	04:00:00	USER					Journey management meeting held prior to departure. Journey called into dispatch and approved.
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	3/18/2019	08:00:00	USER					Arrive on location with all equipment and materials. Hazard hunt performed before spotting in equipment. Met with customer rep, to discuss numbers and job procedure.
Event	3	Comment	Comment	3/18/2019	08:00:01	USER					Plug 1 Casing 4 1/2" 15.1 Perfs 2500' OH 9" TOC 1940'
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/18/2019	08:05:00	USER					JSA held with HES crew to discuss the hazards of rig-up.
Event	5	Rig-Up Completed	Rig-Up Completed	3/18/2019	08:15:00	USER					All bulk equipment and surface lines, rigged up. High pressure hoses, and valve brought up to floor after pre-job safety meeting.
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/18/2019	08:30:00	USER					JSA with all essential personnel to discuss the job procedure and hazards of the job.

Event	7	Start Job	Start Job	3/18/2019	09:00:19	COM5	0.00	5.72	8.00	6.20	Start Recording Data.
Event	8	Test Lines	Test Lines	3/18/2019	09:01:18	COM5	0.00	8.57	57.00	6.60	@3000 PSI.
Event	9	Circulate Well	Circulate Well	3/18/2019	09:05:49	COM5	0.00	8.64	52.00	6.60	5 bbls fresh water.
Event	10	Pump Spacer 2	Pump Spacer 2	3/18/2019	09:13:07	COM5	2.00	8.59	1027.00	0.00	10 bbls MudFlush.
Event	11	Pump Cement	Pump Cement	3/18/2019	09:15:30	COM5	2.00	8.59	1099.00	4.80	200 sks (40.96 bbls) G W/CC @ 15.8# 1.15 ft/sk, 5.00 gal/sk, verified with pressurized scales.
Event	12	Pump Displacement	Pump Displacement	3/18/2019	09:25:39	COM5	4.00	15.79	305.00	0.00	27.55 bbls fresh water.
Event	13	Shutdown	Shutdown	3/18/2019	09:33:03	COM5	0.00	7.60	595.00	27.60	WOC.
Event	14	Circulate Well	Circulate Well	3/18/2019	11:48:11	COM5	0.00	7.26	587.00	47.50	Could not establish circulation
Event	15	End Job	End Job	3/18/2019	12:21:11	COM5					
Event	16	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/18/2019	12:30:00	USER					JSA with HES crew to discuss the hazards of rig-down.
Event	17	Rig-Down Completed	Rig-Down Completed	3/18/2019	12:40:00	USER					All equipment and surface lines rigged down, area around HES equipment cleaned up.
Event	18	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	3/18/2019	12:45:00	USER					Journey management meeting held prior to departure. Journey called into dispatch and approved.