

# HALLIBURTON

iCem<sup>®</sup> Service

## **NOBLE ENERGY INC E-BUSINESS**

**For: Pete Burns**

Date: Friday, October 28, 2016

**Fairmeadows Land Co 1**

PTA

Case 1

Job Date: Friday, October 28, 2016

Sincerely,

**Aaron Smith**

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3764013	Quote #:	Sales Order #: 0903628704
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep:	
Well Name: Fairmeadows Land Co		Well #: 1	API/UWI #:
Field:	City (SAP): GILL	County/Parish: WELD	State: COLORADO
<b>Legal Description:</b>			
Contractor: UNKNOWN		Rig/Platform Name/Num: WORKOVER RIG	
Job BOM: 7528			
Well Type: GAS			
Sales Person: HALAMERICA\HB61755		Srcv Supervisor: Aaron Smith	

**Job**

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	4002ft		Job Depth TVD 4002
Water Depth			Wk Ht Above Floor 3
Perforation Depth (MD)	From		To

**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
Casing		8.625	8.097	24			0	173		0
Tubing		2.875	2.441	6.5			0	4002		0
Casing		5.5	4.892	17			0	4002	0	0

**Tools and Accessories**

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	2.875			4002	Top Plug	2.875		HES
Float Shoe	2.875				Bottom Plug	2.875		HES
Float Collar	2.875				SSR plug set	2.875		HES
Insert Float	2.875				Plug Container	2.875		HES
Stage Tool	2.875				Centralizers	2.875		HES

**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	PLUG #1 4002'	HALCEM (TM) SYSTEM	100	sack	15.8	1.15		2	5
		4.98 Gal 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
2	PLUG #2 810'	HALCEM (TM) SYSTEM	500	sack	15.8	1.15		2	5

4.99 Gal		FRESH WATER		
<b>Cement Left In Pipe</b>	<b>Amount</b>	<b>ft</b>	<b>Reason</b>	<b>Shoe Joint</b>
<b>Fluid Data</b>				
<b>Stage/Plug #: 2</b>				
<b>Cement Left In Pipe</b>	<b>Amount</b>	<b>ft</b>	<b>Reason</b>	<b>Shoe Joint</b>
<b>Comment</b> , No cement to surface, 12 bbls to establish circulation, sporadic returns throughout the cement job.				

4.99 Gal		FRESH WATER		
<b>Cement Left In Pipe</b>	<b>Amount</b>	<b>ft</b>	<b>Reason</b>	Shoe Joint
<b>Fluid Data</b>				
<b>Stage/Plug #: 2</b>				
<b>Cement Left In Pipe</b>	<b>Amount</b>	<b>ft</b>	<b>Reason</b>	Shoe Joint
<b>Comment</b> , No cement to surface, 12 bbls to establish circulation, sporatic returns throughout the cement job.				

# HALLIBURTON

Customer: NOBLE ENERGY INC E-BUSINESS

Job: Noble Energy Fairmeadows Land Co 1 PTA

Case: Case 1 | SO#: 903628704

## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	10/28/201	04:30:00	USER					For on location @ 0830
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	10/28/201	07:15:00	USER					Journey management meeting held prior to departure
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	10/28/201	07:30:00	USER					Journey called into dispatch
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	10/28/201	09:00:00	USER					With pump and one bulk truck, one bulk truck stuck in ditch, rig circulating on bottom
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/28/201	09:05:00	USER					JSA to discuss the hazards of rig-up
Event	6	Rig-Up Equipment	Rig-Up Equipment	10/28/201	09:15:00	USER					
Event	7	Rig-Up Completed	Rig-Up Completed	10/28/201	09:45:00	USER					
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/28/201	10:15:00	USER	0.00	8.26	225.00	2.9	With all essential personnel
Event	9	Start Job	Start Job	10/28/201	10:20:38	COM5	0.00	8.34	122.00	0.0	With water supplied from frac tank, water tested good to mix cement, PH 7, CL O, Temp 65
Event	10	Test Lines	Test Lines	10/28/201	10:23:00	USER	0.00	8.35	46.00	2.0	@3000 psi
Event	11	Pump Water	Pump Water	10/28/201	10:26:00	USER	0.00	8.53	157.00	2.0	5 bbls fresh water to establish circulation

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(v. 4.2.393)

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Job: Noble Energy/ Fairmeadows Land Co 1 PTA  
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Event 12	Pump Cement	Pump Cement	10/28/2016	10:32:34	USER	1.90	15.54	289.00	0.9	100 sks (20.48 bbls) G cement @ 15.8 ppg verified with scales.
Event 13	Pump Displacement	Pump Displacement	10/28/2016	10:41:59	USER	2.20	8.26	9.00	1.5	21.92 bbls to balance
Event 14	Shutdown	Shutdown	10/28/2016	10:47:51	USER	0.00	8.02	38.00	18.1	Break off surface lines, lay down tubing to 810'
Event 15	Pump Water	Pump Water	10/28/2016	12:00:00	USER	0.00	7.85	26.00	60.2	12 bbls fresh water to establish circulation
Event 16	Pump Cement	Pump Cement	10/28/2016	12:11:51	USER	1.70	7.22	88.00	0.2	500 sks (102.41 bbls) G cement @ 15.8 ppg, verified with scales
Event 17	Pump Displacement	Pump Displacement	10/28/2016	13:02:04	USER	1.60	15.84	77.00	96.6	1.5 bbls fresh water to displace tubing
Event 18	Shutdown	Shutdown	10/28/2016	13:04:24	USER	0.00	-0.27	3.00	97.8	POOH
Event 19	End Job	End Job	10/28/2016	13:04:46	USER	0.00	-0.27	1.00	97.8	Thanks Aaron Smith and crew
Event 20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/28/2016	13:20:00	USER	0.00	8.14	44.00	97.8	JSA to discuss the hazards of rig-down
Event 21	Rig-Down Equipment	Rig-Down Equipment	10/28/2016	13:36:45	USER	0.00	-0.28	24.00	156.8	
Event 22	Rig-Down Completed	Rig-Down Completed	10/28/2016	13:40:00	USER					
Event 23	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	10/28/2016	13:50:00	USER					Journey management meeting held prior to departure
Event 24	Depart Location Safety Meeting	Depart Location Safety Meeting	10/28/2016	14:00:00	USER					Journey called into dispatch

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