

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 3280673	Quote #:	Sales Order #: 901046211
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Russell, Jack	
Well Name: Dreyer	Well #: #1	API/UWI #: 05-123-08551	
Field: LOVELAND	City (SAP): Lochbuie	County/Parish: Weld	State: Colorado
Lat: N 40.006 deg. OR N 40 deg. 0 min. 21.704 secs.		Long: W 104.704 deg. OR W -105 deg. 17 min. 44.066 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: Workover	
Job Purpose: Squeeze Perfs			
Well Type: Producing Well		Job Type: Squeeze Perfs	
Sales Person: FLING, MATTHEW		Srvc Supervisor: WHIPPLE, WESLEY	MBU ID Emp #: 518611

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ACEVEDO, ROBERTO Carlos	4.3	551312	BARNES, BRIAN L	4.3	485204	WHIPPLE, WESLEY Morgan	4.3	518611

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036298	10 mile	11398490	10 mile	12010172	10 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			Total is the sum of each column separately					

### Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	240. ft	Job Depth TVD	240. ft	Water Depth	Perforation Depth (MD)	From	To
				BHST								

### Job Times

Date	Time	Time Zone
16 - Jan - 2014	09:00	MST
16 - Jan - 2014	12:10	MST
16 - Jan - 2014	15:24	MST
16 - Jan - 2014	16:12	MST
16 - Jan - 2014	16:30	MST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

### Fluid Data


Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	WATER AHEAD			bbl	8.34	.0	.0	.0	

Stage/Plug #: 1
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Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
2	PREMIUM CEMENT	HALCEM (TM) SYSTEM (452986)		sacks	15.8	1.15	4.99		4.99
4.989 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry	17	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	1	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				<b>Customer Representative Signature</b> 					

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## Cementing Job Log

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Sold To #: 340078	Ship To #: 3260873	Quote #:	Sales Order #: 901046211
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Russell, Jack	
Well Name: Dreyer	Well #: #1	API/UWI #: 05-123-08551	
Field: LOVELAND	City (SAP): Lochbuie	County/Parish: WJD	State: Colorado
<b>Legal Description:</b>			
Lat: N 40.006 deg. OR N 40 deg. 0 min. 21.704 secs.		Long: W 104.704 deg. OR W -105 deg. 17 min. 44.066 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: Workover	
Job Purpose: Squeeze Perfs		Ticket Amount:	
Well Type: Producing Well		Job Type: Squeeze Perfs	
Sales Person: FLING, MATTHEW		Srvc Supervisor: WHIPPLE, WESLEY	MBU ID Emp #: 518611

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/16/2014 09:00							CREW CALLED OUT @0900 BY ARS OFFICE, REQUESTED ON LOCAITON @ 1300
Crew Leave Yard	01/16/2014 12:00							CREW PRE TRIPPED ALL EQUIPMENT, HELD PRE JOURNEY SAFETY MEETING TO DISCUSS ROUTE AND POTENTIAL DRIVING HAZARDS
Arrive At Loc	01/16/2014 12:10							CREW ARRIVED ON LOCATION, RIG WAS NOT READY, MET WITH COMPANY MAN TO GO OVER JOB PROCESS
Rig-Up Equipment	01/16/2014 15:00							CREW COMMENCED RIG UP OF ALL EQUIPMENT
Rig-Up Completed	01/16/2014 15:15							RIG UP COMPLETED
Safety Meeting	01/16/2014 15:20							HELD PRE JOB SAFETY MEETING WITH ALL HANDS ON LOCATION TO DISCUSS JOB PROCESS AND PROCEDURES.
Start Job	01/16/2014 15:24							
Test Lines	01/16/2014 15:26						3000.0	PRESSURE TESTED PUMPS AND LINES TO 3000 PSI, FOUND NO LEAKS AND PRESSURE HELD

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SUMMIT Version: 7.3.0109

Thursday, January 16, 2014 04:28:00

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Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	01/16/2014 15:30		1	5			1000. 0	PUMP FRESH WATER SPACER TO BREAK CIRCULATION AND WEIGH UP CEMENT
Pump Cement	01/16/2014 15:35		1.5	17			1200. 0	MIXED AND PUMPED 85 SKS OF PREMIUM MTN G TO 15.8PPG. DENSITY VERIFIED BY MUD SCALES
Pump Displacement	01/16/2014 15:55		1	1			1250. 0	PUMPED FRESH WATER DISPLACEMENT
Shutdown	01/16/2014 15:56							
Clean Lines	01/16/2014 16:02							CLEAN LINES PUMPS AND LINES FREE OF CEMENT
End Job	01/16/2014 16:12							COMMENCED RIG DOWN OF ALL EQUIPMENT. WET CEMENT SAMPLES WERE LEFT ON LOCATION

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