

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2947485	Quote #:	Sales Order #: 9760269
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Millins, Greg	
Well Name: Kerr 1V SWD	Well #: 1	API/UWI #: 15-135-35450	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 1 Township 20S Range 25W			
Contractor: Precision		Rig/Platform Name/Num: 209	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DAIGLE, COLTER		Srvc Supervisor: WOODROW, JOHN	MBU ID Emp #: 105848

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
LUONG, JOHN M	12	497077	NORTON, BRUCE Wayne	12	499926	RAMIREZ, JORGE M.	12	498481
SMITH, THOMAS Miles	12	493032	WOODROW, JOHN Phillip	12	105848			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
8/23/12	5	26						

**TOTAL** Total is the sum of each column separately

### Job

### Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type		BHST	On Location	23 - Aug - 2012	14:30	CST
Job depth MD	1582. ft	Job Depth TVD	Job Started	23 - Aug - 2012	15:47	CST
Water Depth		Wk Ht Above Floor	Job Completed	23 - Aug - 2012	17:12	CST
Perforation Depth (MD) From		To	Departed Loc	23 - Aug - 2012	19:00	CST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Surface Casing Open Hole				12.25				60.	1600.		
Preset Conductor	Unknown		14.	13.344	50.		J-55	.	60.		
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1600.		

### Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		

### 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

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
1	ExtendaCem	EXTENDACEM (TM) SYSTEM (452981)		sacks	12.4	2.09	11.5		11.5
	0.25 lbm	POLY-E-FLAKE (101216940)							
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	11.495 Gal	FRESH WATER							
2	HalCem	HALCEM (TM) SYSTEM (452986)		sacks	15.6	1.19	5.3		5.3
	1 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.302 Gal	FRESH WATER							
3	Top Out Cement	CMT - STANDARD CEMENT (100003684)		sacks	15.6	1.18	5.25		5.25
	94 lbm	CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)							
	5.245 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	6	Shut In: Instant		Lost Returns	0	Cement Slurry	184	Pad	
Top Of Cement	GL	5 Min		Cement Returns	60	Actual Displacement	121	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	40 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				Customer Representative Signature					

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## Cementing Job Log

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Well Name: Kerr 1V SWD	Well #: 1	API/UWI #: 15-135-35450	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 1 Township 20S Range 25W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Precision		Rig/Platform Name/Num: 209	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DAIGLE, COLTER		Srvc Supervisor: WOODROW, JOHN	MBU ID Emp #: 105848

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/23/2012 06:00							Requested Time To Be On Location @ 14:00 8/23/12
Other	08/23/2012 07:00							Load Equipment / Materials For Job
Pre-Convoy Safety Meeting	08/23/2012 07:55							Discuss Route Of Travel / Traffic / Wild Life / Emergency Contact Numbers
Crew Leave Yard	08/23/2012 08:00							Notify Dispatch / Journey Management
Arrive at Location from Other Job or Site	08/23/2012 14:30							Rig Running Last Jt. Of Casing
Casing on Bottom	08/23/2012 14:35							Ran 1582 Ft. Of 9 5/8 32# Casing
Circulate Well	08/23/2012 14:40							
Rig-Up Completed	08/23/2012 15:35							
Pre-Job Safety Meeting	08/23/2012 15:45							Discuss Job Procedure With All Personnel / Pressures / Evacuation Area
Comment	08/23/2012 15:55							Hook Up 9 5/8 P/C & Circulating Iron To Halliburton Lines
Test Lines	08/23/2012 16:00						2500.0	Holding
Pump Spacer	08/23/2012 16:01		4				140.0	Start Pumping 10 bbls. F/W Spacer
Pump Lead Cement	08/23/2012 16:04		5		126		165.0	Start Mixing 340 sks Lead Cmt. Slurry @12.4#/gal
Shutdown	08/23/2012 16:42						.0	

Sold To #: 340078

Ship To #: 2946886

Quote #:

Sales Order #:

9760269

SUMMIT Version: 7.3.0040

Thursday, August 23, 2012 05:54:00

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	08/23/2012 16:43							Verify Plug Left Head
Pump Displacement	08/23/2012 16:43		6				100.0	
Cement Returns to Surface	08/23/2012 16:57				60		200.0	Have 60 bbls. Out / Have Cmt. Returns To Surface
Slow Rate	08/23/2012 17:05				100			Have 110 bbls. Out / Slow Rate To 2 1/2 BPM
Bump Plug	08/23/2012 17:10				121		1100.0	Max Lift Pressure Was 500# / Bump Plug 500# Over PLP 1100#
Check Floats	08/23/2012 17:11							Got 3/4 bbl Back / Floats Holding
Comment	08/23/2012 17:11							Circulated 60 bbls. To Surface
Pre-Rig Up Safety Meeting	08/23/2012 17:15							Discuss Lifting / Pinch Points / Eyes On Path
Rig-Down Equipment	08/23/2012 17:20							
Assessment Of Location Safety Meeting	08/23/2012 17:22							Sign In On Encana Location / Spot Equipment / Tight Location / JSA / JSM
Pre-Rig Up Safety Meeting	08/23/2012 17:22							Discuss Lifting / Pinch Points / Eyes On Path
Pump Tail Cement	08/23/2012 17:23		5		58		180.0	Start Mixing 280 sks Tail Cmt. Slurry @ 15.6#/gal
Rig-Down Completed	08/23/2012 19:00							Had No Accidents Or Injuries

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