

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2946886	Quote #:	Sales Order #: 9833643
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Willson, Rodney	
Well Name: Kerr 12H	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: KLAUSE, JOHN	MBU ID Emp #: 456246

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERUMEN, EDUARDO	12	267804	KLAUSE, JOHN David	11	456246	RAMIREZ, JORGE M.	12	498481
WIFA, HENRY Neniebari	11	491916						

### 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
9-21/22	12	5						

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			
Job depth MD	1611. m	Job Depth TVD	Job Started			
Water Depth		Wk Ht Above Floor	Job Completed			
Perforation Depth (MD) From		To	Departed Loc			

### Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
Surface Casing Open Hole				12.25				60.	1612.		
Preset Conductor	Unknown		14.	13.344	50.		J-55		60.		
Surface Casing	Unknown		9.625	8.921	36.		J-55		1611.		

### 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		
SUGAR - GRANULATED	100	LB		

### 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	Conc	

### Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne
1	ExtendaCem	EXTENDACEM (TM) SYSTEM (452981)	340.0	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)	280.0	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	Displacement (TBC)		108.00	bbl	.	.0	.0	.0	
4	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	108	Shut In: Instant	1149	Lost Returns	0	Cement Slurry	129/59	Pad	
Top Of Cement	SURFACE	5 Min	X	Cement Returns	68	Actual Displacement	107	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating	6	Mixing	6	Displacement	7	Avg. Job	6.5		
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					
				<i>Rodney W. Wils</i>					

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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	Srv Supervisor: KLAUSE, JOHN	MBU ID Emp #: 456246	

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/21/2012 12:00							
Pre-Convoy Safety Meeting	09/21/2012 14:00							DISCUSS ROAD CONDITIONS AND ROUTE TO TAKE; CALL DISPATCH FOR JOURNEY MGMT.
Depart from Service Center or Other Site	09/21/2012 14:30							
Arrive At Loc	09/21/2012 20:00							CUSTOMER PULLING COLLARS; CASING CREW RIGGING UP
Assessment Of Location Safety Meeting	09/21/2012 20:15							TIGHT LOCATION; WAITING ON CUSTOMER TO SPOT EQUIPMENT ON LOCATION
Other	09/21/2012 21:15							CUSTOMER RUNINNG CASING
Other	09/21/2012 22:15							RUNNING CASING
Pre-Rig Up Safety Meeting	09/21/2012 23:00							EQUIPMENTMENT SPOTTED IN; PRE-RIG UP SAFTEY MEETING; STAY OUT OF RED ZONE WHILE CASING CREW BRINGING EQUIPMENT DOWN V-DOOR
Other	09/21/2012 23:47							CASING CREW ON LAST JOINT OF PIPE; WASHING DOWN LAST TWO JOINTS
Rig-Up Completed	09/22/2012 01:00							HES RIG-UP COMPLETE

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Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pre-Job Safety Meeting	09/22/2012 01:40							DISCUSS POSSIBLE HAZARDS DURING CEMENT JOB
Test Lines	09/22/2012 02:10							LINES TESTED; NO LEAKS
Pump Spacer	09/22/2012 02:15		3.1	20			159.0	PUMP FRESH WATER
Pump Lead Cement	09/22/2012 02:25		5.1	127			170.0	PUMP LEAD SLURRY @ 12.4# (340 SKS)
Pump Tail Cement	09/22/2012 02:47		5	59			132.0	PUMP TAIL SLURRY @ 15.6# (280 SKS)
Drop Top Plug	09/22/2012 03:03							CUSTOMER WITNESSED
Pump Displacement	09/22/2012 03:03		8	108			122.0	PUMP FRESH WATER DISPLACEMENT
Displ Reached Cmmt	09/22/2012 03:10							CEMENT BACK TO SURFACE @ 40 BBL (68 BBL CEMENT BACK TO SURFACE)
Slow Rate	09/22/2012 03:19							SLOW RATE @ 20 BBL LEFT TO DISPLACE
Bump Plug	09/22/2012 03:24							BUMP PLUG @ 498 PSI; FINAL C.P. 1149 PSI
Check Floats	09/22/2012 03:31							FLOATS HELD; 1 BBL BACK
Pre-Rig Down Safety Meeting	09/22/2012 03:47							DISCUSS POSSIBLE TRIPPING HAZARDS AND PINCH POINTS
Rig-Down Completed	09/22/2012 05:47							
Pre-Convoy Safety Meeting	09/22/2012 06:00							DISCUSS ROUTE BACK TO YARD
Depart Location for Service Center or Other Site	09/22/2012 06:30							THANK YOU FOR USING HALLIBURTON JOHN KLAUSE AND CREW

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