

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2942664	Quote #:	Sales Order #: 9706321
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: McNabb, Randy	
Well Name: J & A Associates		Well #: 11H-1	API/UWI #:
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
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: RODRIGUEZ, EDGAR MBU ID Emp #: 442125	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ALVAREZ, JEREMIAH Nathan	3	489450	RAMIREZ, JORGE	6	-	RODRIGUEZ, EDGAR Alejandro	6	442125
SWAIN, KIRK	3	-	TORRES, CLEMENTE	6	344233			

### 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
7/30/2012	1	1	7/31/2012	5	2			
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
					30 - Jul - 2012	17:00	CST
Form Type			BHST	On Location	30 - Jul - 2012	22:20	CST
Job depth MD	1365. ft		Job Depth TVD	1366. ft	Job Started	31 - Jul - 2012	02:39
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	31 - Jul - 2012	03:51
Perforation Depth (MD) From			To		Departed Loc	31 - Jul - 2012	05:15

### 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
Surface Casing Open Hole				12.25				40.	1400.		
Preset Conductor	Unknown		13.375	12.415	68.			.	40.		
Surface Casing	Unknown		9.625	8.921	36.			.	1400.		

### 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	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	HES
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

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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)	440.0	sacks	12.4	2.1	11.61		11.61
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.607 Gal	FRESH WATER							
2	HalCem	HALCEM (TM) SYSTEM (452986)	150.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
3	Displacement (TBC)		102	bbl	.	.0	.0	.0	
<b>Calculated Values</b>			<b>Pressures</b>			<b>Volumes</b>			
Displacement	102	Shut In: Instant		Lost Returns		Cement Slurry	197	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	120	Actual Displacement	102	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	309
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	38 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>Randy McNeil</i>					

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## Cementing Job Log

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Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: McNabb, Randy	
Well Name: J & A Associates	Well #: 11H-1	API/UWI #:	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description:			
Lat:		Long:	
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		Srcv Supervisor: RODRIGUEZ, EDGAR MBU ID Emp #: 442125	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/30/2012 17:00							DISPATCH CALLED CEMENT CREW OUT FOR JOB. ENCANA OIL & GAS J & A ASSOCIATES #11H-1 9 5/8 SURFACE CASING
Other	07/30/2012 18:00							LOAD EQUIPMENT
Depart Yard Safety Meeting	07/30/2012 19:00							DISCUSSED ALL ROUTES TO TAKE AND THE POSSIBLE HAZARDS ON THE ROAD. DISCUSSED ALL PLANNED STOPS.
Crew Leave Yard	07/30/2012 19:10							
Arrive At Loc	07/30/2012 22:20							
Assessment Of Location Safety Meeting	07/30/2012 22:25							RUNNING CASING. LET CUSTOMER REP KNOW THAT BULK DRIVERS COMING OUT OF PAMPA WILL BE LATE. GOT NUMBERS FROM CUSTOMER REP. TP=9 5/8 36# K-55 1365.35' OH=12 1/4 @1366' SJ=38.95'
Pre-Rig Up Safety Meeting	07/30/2012 22:30							WENT OVER JSA TO DISCUSS ALL RED ZONES. WHERE TO SPOT EQUIPMENT AND RUN LINES. HAVE SPOTTER AT ALL TIMES

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SUMMIT Version: 7.3.0039

Tuesday, July 31, 2012 05:07:00

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## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Rig-Up Equipment	07/30/2012 22:40							
Rig-Up Completed	07/30/2012 23:40							
Assessment Of Location Safety Meeting	07/30/2012 23:45							RUNNING CASING
Casing on Bottom	07/31/2012 00:09							WILL CIRCULATE WHILE WE WAIT FOR BULK TO GET HERE. CUSTOMER REP IS AWARE.
Rig-Up Equipment	07/31/2012 00:50							RIG UP IRON ON FLOOR.
Wait on HES Materials to Arrive - End Time	07/31/2012 02:20							BULK GOT HERE. RIG UP TO PUMP TRUCK
Pre-Job Safety Meeting	07/31/2012 02:27							DISCUSSED HAZARDS, JOB STEPS WITH ALL ON LOCATION. WENT OVER NUMBERS, PUMPING RATES, AND PRESSURES WITH CUSTOMER REP. HAD EVERYBODY INVOLVED SIGN HES SAFETY SHEET.
Start Job	07/31/2012 02:39							
Test Lines	07/31/2012 02:39						2500. 0	PRESSURE TEST TO 2500 PSI.
Pump Spacer 1	07/31/2012 02:41		2	10			43.0	FRESH WATER
Pump Lead Cement	07/31/2012 02:44		5	165			119.0	440 SKS HLC STANDARD CMT @12.4 (165 BBLs)
Pump Tail Cement	07/31/2012 03:17		4.5	32			179.0	150 SKS STANDARD CLASS CMT @15.6 (32 BBLs)
Cement Returns to Surface	07/31/2012 03:19							120 BBLs OF CMT RETURNS
Shutdown	07/31/2012 03:24							
Drop Plug	07/31/2012 03:25							9 5/8 HWE TOP PLUG
Pump Displacement	07/31/2012 03:26		6	82	82		55.0	FRESH WATER
Slow Rate	07/31/2012 03:41		2	10	92		381.0	SLOW TO 3 BPM TO BUMP PLUG

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	07/31/2012 03:47		2	10	102		437.0	BUMP PLUG 500 PSI OVER. FINAL PRESSURE WAS 991 PSI
Check Floats	07/31/2012 03:50							FLOATS HELD. 1/2 BBL BACK
End Job	07/31/2012 03:51							
Pre-Rig Down Safety Meeting	07/31/2012 03:52							DISCUSSED ALL RED ZONES. PROPER LIFTING. SPOTTING EQUIPMENT OUT OF LOCATION
Rig-Down Equipment	07/31/2012 04:02							
Rig-Down Completed	07/31/2012 05:02							
Depart Location Safety Meeting	07/31/2012 05:05							DISCUSSED ALL ROUTES AND POTENTIAL HAZARDS ON THE WAY BACK TO THE YARD.
Crew Leave Location	07/31/2012 05:15							THANK YOU EDGAR A. RODRIGUEZ AND HALLIBURTON CREW.

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Tuesday, July 31, 2012 05:07:00

# HALLIBURTON

## Work Order Contract

Order Number

9706321

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Well No.	Farm or Lease	County	State	Well Permit Number
11H-1	J & A Associates	Ness	Kansas	
Customer		Well Owner	Job Purpose	
ENCANA OIL & GAS (USA) INC. - EBUS			Cement Surface Casing	

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

A. CUSTOMER REPRESENTATION - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc. (hereinafter "Halliburton").

B. PRICE AND PAYMENT - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices of Halliburton are exclusive of any federal, state or municipal taxes which may be imposed on the sale or use of any materials, products or supplies furnished or services performed. Customer agrees to pay such taxes in addition to the prices in Halliburton's price list. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, or Halliburton's actual attorney fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.

C. RELEASE AND INDEMNITY - Customer agrees to RELEASE Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint ventures with Customer. Customer also agrees to DEFEND, INDEMNIFY, AND HOLD Halliburton Group HARMLESS from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from loss of well control; services to control a wild well whether underground or above the surface; reservoir or underground damage, including loss of oil, gas, other mineral substances or water; surface damage arising from underground damage; damage to or loss of the well bore; subsurface trespass or any action in the nature thereof; fire; explosion; subsurface pressure; radioactivity; and pollution and contamination and its cleanup and control.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. Customer's RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insured on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

D. EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the current published replacement rate, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.

E. LIMITED WARRANTY - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. **THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.** Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, **HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP.** Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and **CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group.** Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. GOVERNING LAW - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. DISPUTE RESOLUTION Except for Halliburton's statutory rights with regard to collection of past due invoices for services or materials, including the Contractor's statutory rights for perfection and enforcement of mechanics' and materialmen's liens, Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

H. SEVERABILITY - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 10200 Bellaire Blvd, Houston, TX 77072-5299.

**I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. I AM SIGNING THIS WORK ORDER CONTRACT WITH THE UNDERSTANDING THAT ITS TERMS AND CONDITIONS WILL NOT APPLY TO THE EXTENT THEY CONFLICT WITH TERMS AND CONDITIONS OF A SIGNED MASTER SERVICE CONTRACT BETWEEN THE PARTIES.**

### Customer Acceptance of Terms and Conditions, Materials and Services

  
CUSTOMER Authorized Signatory

7/30/2012

Date