

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2946223	Quote #:	Sales Order #: 9753743
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Perry, Carey	
Well Name: Nattier 16V	Well #: 1 SWD	API/UWI #: 15-079-20692	
Field:	City (SAP): NEWTON	County/Parish: Harvey	State: Kansas
Legal Description: Section 16 Township 24S Range 2E			
Contractor: Precision		Rig/Platform Name/Num: Precicison 207	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DAIGLE, COLTER		Srvc Supervisor: GALVAN, GEORGE	MBU ID Emp #: 447816

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BECERRA, JUAN Carlos	14	491933	GALVAN, GEORGE	14	447816	PROVINES, TYLER Wesley	14	523867

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
08-18-2012	14	1						

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	18 - Aug - 2012	09:30	CST
Job depth MD	902.2 m	Job Depth TVD	Job Started	18 - Aug - 2012	20:07	CST
Water Depth		Wk Ht Above Floor	Job Completed	18 - Aug - 2012	20:40	CST
Perforation Depth (MD) From		To	Departed Loc	18 - Aug - 2012	23:45	CST

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.	250.		
Preset Conductor	Unknown		14.	13.344	50.		J-55		60.		
Surface Casing	Unknown		9.625	8.921	36.		J-55		250.		

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

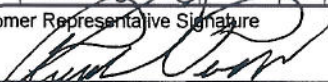
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

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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	STANDARD	HALCEM (TM) SYSTEM (452986)	90.0	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							
2	Standard Top out	CMT - STANDARD CEMENT (100003684)	200.0	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	19	Shut In: Instant		Lost Returns		Cement Slurry	42	Pad	
Top Of Cement	0	5 Min		Cement Returns	19	Actual Displacement	19	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	3.5	Displacement	3.5	Avg. Job	3.5		
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 					

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Field:	City (SAP): NEWTON	County/Parish: Harvey	State: Kansas
Legal Description: Section 16 Township 24S Range 2E			
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: Precicison 207		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DAIGLE, COLTER	Srvc Supervisor: GALVAN, GEORGE	MBU ID Emp #: 447816	

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/18/2012 00:30							CALLED OUT ON ENCANA OIL, NATTIER 16V 9 5/8 SUFACE CASING
Pre-Convoy Safety Meeting	08/18/2012 03:30							DISCUSS ROUTE TO LOCATION
Depart Yard Safety Meeting	08/18/2012 04:00							DEPART FROM HALLIBURTON YARD TO LOCATION
Arrive At Loc	08/18/2012 09:30							ARRIVED ON LOCATION
Pre-Rig Up Safety Meeting	08/18/2012 09:35							DISCUSS RIG UP PROCEDURE AND WHERE SAFETY AREA IS ON LOCATION
Rig-Up Equipment	08/18/2012 09:40							BEGAN RIGGING UP EQUIPMENT
Rig-Up Completed	08/18/2012 10:20							RIG UP COMPLETED
Wait on Customer or Customer Sub-Contractor Equip	08/18/2012 10:25							RIG RIGGING UP TO START DRILLING HOLE
Other	08/18/2012 10:30							START RUNNING DRILL PIPE IN HOLE
Other	08/18/2012 15:50							ALL DRILL PIPE WAS RAN IN HOLE
Other	08/18/2012 16:15							RAN SURVEY TOOL DOWN HOLE
Other	08/18/2012 16:43							BEGAN PULLING DRILL PIPE OUT OF HOLE
Other	08/18/2012 17:15							PUT ON GUIDE SHOE
Running In Hole	08/18/2012 18:00							BEGAN RUNNING CASING IN HOL E

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Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Casing on Bottom	08/18/2012 19:30							CASING ON BOTTOM
Circulate Well	08/18/2012 19:35							RIG CIRCULATING WELL
Safety Meeting	08/18/2012 20:00							DISCUSS JOB PROCEDURE
Start Job	08/18/2012 20:07							START JOB
Test Lines	08/18/2012 20:07		1				2000.0	TEST LINES 2000PSI
Pump Spacer	08/18/2012 20:09		3.5		20		90.0	PUMP FRESHWATER SPACER
Pump Cement	08/18/2012 20:12		3.5		42		125.0	PUMP CEMENT @ 15.6 LBM/GAL
Other	08/18/2012 20:14							WEIGHED CEMENT WITH CEMENT SCALES AND MEASURED 15.6 LBM/GAL
Shutdown	08/18/2012 20:24							SHUTDOWN WASH UP TUB
Drop Top Plug	08/18/2012 20:28							DROP TOP PLUG
Pump Displacement	08/18/2012 20:29		2		19		70.0	PUMP FRESHWATER DISPLACEMENT
Cement Returns to Surface	08/18/2012 20:29		2		19		70.0	GOT CEMENT RETURNS TO SURFACE AND GOT BACK TOTAL OF 19 BBL CEMENT BACK TO SURFACE
Bump Plug	08/18/2012 20:37		2		19		1020.0	BUMP PLUG 500PSI OVER
Post-Job Safety Meeting (Pre Rig-Down)	08/18/2012 21:15							DISCUSS RIG DOWN PROCEDURE COMPANY MAN WANTS TO KEEP PLUG CONTAINER FOR FOUR HOURS
Rig-Down Equipment	08/18/2012 22:00							BEGAN RIGGING DOWN EQUIPMENT
Rig-Down Completed	08/18/2012 23:20							ALL IRON BACK ON TRUCKS
Depart Location Safety Meeting	08/18/2012 23:30							DISCUSS ROUTE TO HALLIBURTON LOCATION
Activity Description	Date/Time	Cht	Rate m3/min	Volume m3		Pressure MPa		Comments

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		#		Stage	Total	Tubing	Casing	
Depart Location Safety Meeting	08/18/2012 23:45							THANK YOU FOR USING HALLIBURTON AND CREW

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