

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2937798	Quote #:	Sales Order #: 9691466
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Millins, Greg	
Well Name: Pabst Farm 3H	Well #: 2	API/UWI #: 15-135-25396	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 3 Township 18S Range 31W			
Contractor: Precision		Rig/Platform Name/Num: 209	
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: DAIGLE, COLTER		Srcv 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 #
CLEMENS, ANTHONY Jason	8	198516	MARTINEZ, JOSEPH	9	523879	MCCLELLAN, JAMES	9	496019
REDFEARN, BRADY	9	497317	RODRIGUEZ, EDGAR Alejandro	9	442125	TORRES, CLEMENTE	9	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
7/28/2012	8	3						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	28 - Jul - 2012	00:00	CST
Form Type		BHST	Job Started	28 - Jul - 2012	03:20	CST
Job depth MD	87250. ft	Job Depth TVD	Job Completed	28 - Jul - 2012	15:05	CST
Water Depth		Wk Ht Above Floor	Departed Loc	28 - Jul - 2012	16:08	CST
Perforation Depth (MD) From		To		28 - Jul - 2012	17:30	CST

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
Production Liner Open Hole				6.125				4660.	8871.	4280.	4280.
Intermediate Casing	Unknown		7.	6.366	23.		N-80	.	4660.	.	4280.
Production Liner	New		4.5	4.	11.6	Unknown		4460.	8871.	4280.	4280.
Drill Pipe	New		3.5	2.992	10.2	Unknown		.	4660.	.	.

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 lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.0	bbl	8.33	.0	.0	.0	
2	EconoCem	ECONOCEM (TM) SYSTEM (452992)	315.0	sacks	13.6	1.53	7.41		7.41
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	2 %	BENTONITE, BULK (100003682)							
	7.41 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	107	Shut In: Instant		Lost Returns		Cement Slurry	86	Pad	
Top Of Cement	3677	5 Min		Cement Returns		Actual Displacement	107	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	203
Rates									
Circulating	5	Mixing	5	Displacement	6	Avg. Job	5		
Cement Left In Pipe	Amount	85 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 McMillin</i>					

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Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 3 Township 18S Range 31W			
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 Production Liner			Ticket Amount:
Well Type: Development Well	Job Type: Cement Production Liner		
Sales Person: DAIGLE, COLTER	Srv 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	07/28/2012 00:00							DISPATCH CALLED CEMENT CREW OUT FOR JOB. ENCANA OIL & GAS PABST FARM 3H #2 4 1/2 PRODUCTION LINER CASING
Other	07/28/2012 00:30							LOAD EQUIPMENT
Depart Yard Safety Meeting	07/28/2012 00:50							DISCUSSED ALL ROUTES TO TAKE AND THE POSSIBLE HAZARDS ON THE ROAD. DISCUSSED ALL PLANNED STOPS.
Crew Leave Yard	07/28/2012 01:00							
Arrive At Loc	07/28/2012 03:20							
Assessment Of Location Safety Meeting	07/28/2012 03:25							RUNNING CASING. GOT NUMBERS FROM CUSTOMER REP. TP LINER= 4 1/2 #11.6 P-110 4321.84' DP=4" 14# 3332.15' HWDP=4" 28.6# 1070.5 OH= 6 1/8 @8725 SJ=85.56
Pre-Rig Up Safety Meeting	07/28/2012 04:00							
Rig-Up Equipment	07/28/2012 04:10							
Rig-Up Completed	07/28/2012 05:10							
Wait on Customer or Customer Sub-Contractor Equip	07/28/2012 05:15							RUNNING CASING

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Saturday, July 28, 2012 05:02:00

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Wait on Customer or Customer Sub-Contractor Equip	07/28/2012 06:30							DONE RUNNING CASING. WILL RUN DRILL PIPE.
Other	07/28/2012 12:02							DRILL PIPE ON BOTTOM.
Rig-Up Equipment	07/28/2012 13:00							RIG UP IRON ON FLOOR. RIG IS PUMPING BALL DOWN. WILL TAKE OVER WHEN IT LANDS ON SEAT.
Pre-Job Safety Meeting	07/28/2012 14:50							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	07/28/2012 15:05							
Test Lines	07/28/2012 15:06						5000.0	PRESSURE TEST TO 5000 PSI.
Pump Ball	07/28/2012 15:08		1.5					PUMP TO SHEAR PLUG
Other	07/28/2012 15:11		1.5	3			3080.0	SHEARED PLUG @3080 PSI
Pump Spacer 1	07/28/2012 15:13		2	10			39.0	FRESH WATER
Pump Cement	07/28/2012 15:17		5	86			199.0	315 SKS ECONOCEM CMT @13.6 (86 BBLS)
Shutdown	07/28/2012 15:35							
Clean Lines	07/28/2012 15:35							
Drop Plug	07/28/2012 15:37							COMPETITION PLUG
Pump Displacement	07/28/2012 15:41		6	35	35		78.0	FRESH WATER
Slow Rate	07/28/2012 15:48		2	10	45		1859.0	TO LET PLUG PASS THROUGH TOOL. MAX PSI IT WENT UP TO WAS 1859
Pump Displacement	07/28/2012 15:51		6	42	87			

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				Stage	Total	Tubing	Casing	
Slow Rate	07/28/2012 16:02		2	10	97		1482. 0	SLOW TO 3 BPM TO BUMP PLUG
Bump Plug	07/28/2012 16:05		2	10	107		2520. 0	BUMP PLUG 1000 PSI OVER. FINAL PRESSURE WAS
Check Floats	07/28/2012 16:06							FLOATS HELD. 1 BBL BACK
End Job	07/28/2012 16:08							RIG WILL CIRCULATE CMT OUT
Pre-Rig Down Safety Meeting	07/28/2012 16:08							DISCUSSED ALL RED ZONES. PROPER LIFTING. SPOTTING EQUIPMENT OUT OF LOCATION
Rig-Down Equipment	07/28/2012 16:18							
Rig-Down Completed	07/28/2012 17:18							
Depart Location Safety Meeting	07/28/2012 17:18							DISCUSSED ALL ROUTES AND POTENTIAL HAZARDS ON THE WAY BACK TO THE YARD.
Crew Leave Location	07/28/2012 17:30							THANK YOU EDGAR A. RODRIGUEZ AND HALLIBURTON CREW.

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