

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078		Ship To #: 2937798		Quote #:		Sales Order #: 9650093							
Customer: ENCANA OIL & GAS (USA) INC. - EBUS				Customer Rep: McNabb, Randy									
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 Surface Casing													
Well Type: Development Well				Job Type: Cement Surface Casing									
Sales Person: DAIGLE, COLTER			Srcv Supervisor: CARRILLO, EDUARDO			MBU ID Emp #: 371263							
Job Personnel													
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #						
BERUMEN, EDUARDO		5.5	267804	CARRILLO, EDUARDO Carrillo		5.5	371263						
LUONG, JOHN M		5.5	497077	REDFEARN, BRADY Tanner		5.5	497317						
LUNA, JOSE A		5.5	480456										
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					
7-07-2012	5.5	3.5											
TOTAL			Total is the sum of each column separately										
Job				Job Times									
Formation Name				Date		Time	Time Zone						
Formation Depth (MD) Top		Bottom		Called Out		07 - Jul - 2012	04:30 CST						
Form Type		BHST		On Location		07 - Jul - 2012	10:30 CST						
Job depth MD		1369. ft	Job Depth TVD	1369. ft	Job Started		07 - Jul - 2012 13:48 CST						
Water Depth		Wk Ht Above Floor		5. ft	Job Completed		07 - Jul - 2012 15:12 GMT						
Perforation Depth (MD) From		To		Departed Loc		07 - Jul - 2012	17:00 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		
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/3rd 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	H
					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	H
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 ³ /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)			bbl	.	.0	.0	.0		
4	HalCem	HALCEM (TM) SYSTEM (452986)		sacks	15.6	1.18	5.25		5.25	
	5.245 Gal	FRESH WATER								
Calculated Values			Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns		Actual Displacement		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						
				<i>Randy McNeil</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 Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DAIGLE, COLTER		Srv Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/07/2012 04:30							Dispach Calle Cement Crew Out For The Encana Oil Job On Well Pabst Farm 3H # 2. A 9 5/8 Surface Job
Other	07/07/2012 05:31							Loading Equipment.
Pre-Convoy Safety Meeting	07/07/2012 06:10							Discussed All Routs To Take And Hazards On The Road. Discussed All Stops.
Arrive At Loc	07/07/2012 10:30							
Assessment Of Location Safety Meeting	07/07/2012 10:35							Rig Was Triping Out Of With Drill Pipe
Other	07/07/2012 10:50							Got Numbers From Customer Rep Randy McNabb // TD = 1367 FT // TP = 1369.65 FT // SJ = 38.94 FT. Displacement = 103 BBLS Fresh Water
Pre-Rig Up Safety Meeting	07/07/2012 11:30							Discussed All Red Zones Were To Spot In Equipment And Run Lines. Have Spoter At All Times. Whent Over JSA.
Rig-Up Completed	07/07/2012 12:30							
Wait on Customer or Customer Sub-Contractor Equip	07/07/2012 12:35							Wating On Rig.
Other	07/07/2012 12:45							Casing At Bottom

Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl	Pressure psig	Comments
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Saturday, July 07, 2012 04:16:00

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		#		Stage	Total	Tubing	Casing	
Other	07/07/2012 13:10							Rig Circulating Customer Rep Said They Were Going To Circulat For 30 MIN.
Pre-Job Safety Meeting	07/07/2012 13:15							Discussed Job Step With All On Location Whent Over Numbers With Customer Rep Pumping Rates And PSI. Had Rig Hands Sign Safety Sheet. Customer Rep Said To Pump At 6 BPM.
Other	07/07/2012 13:16							Customer Said Once We Bumped Plug And Checked Floats To Rig Down Plug Contaner Then Wait 20 Min. To See If CMT Was Going To Drop If So We Would Run The Top Out CMT. Also Let Them Know We Had 100 LBM Of Suger So They Could Use It On Pits.
Start Job	07/07/2012 13:48							
Test Lines	07/07/2012 13:51						2500.0	Test Lines @ 2500 PSI. Heal For 1 Min.
Pump Spacer 1	07/07/2012 13:53		4	20	20		100.0	Pumped 20 BBLS H2O Fresh Water.
Pump Lead Cement	07/07/2012 13:59		6	165	185		250.0	Pumped 440 SKS CMT @ 12 .4 PPG // 440 = 165 BBLS CMT // 4400 X 2.1 = 924 CU/FT Lead CMT.
Pump Tail Cement	07/07/2012 14:34		6	32	217		300.0	Pumped 150 SKS CMT @ 15.6 PPG // 15 0 = 32 BBLS CMT // 150 X 1.2 = 180 CU/FT CMT Tail CMT.
Shutdown	07/07/2012 14:43							
Drop Plug	07/07/2012 14:44							
Other	07/07/2012 14:44							Got CMT Returs To Surface Just As We Shut Down To Drop Plug. Got 103 BBLS CMT Returns To Surface.

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	07/07/2012 14:46		6	103	320		400.0	Pumped 103 BBLS Fresh Water Displacement.
Displ Reached Cmnt	07/07/2012 15:02							
Slow Rate	07/07/2012 15:05		2.5	103	320		550.0	Slowed Down Last 10 BBLS Displacement @ 2.5 BPM.
Bump Plug	07/07/2012 15:08		2.5	103	320		650.0	Bumped @ 650 Took To 1191 PSI. Finel Lift Pressuer
Check Floats	07/07/2012 15:10							Check Float Got 1 1/2 BBLS Back Floats Are Good.
End Job	07/07/2012 15:12							
Pre-Rig Down Safety Meeting	07/07/2012 15:40							Discussed All Red Zones Proper Lifting Spoting Equipment Out Of Location
Rig-Down Completed	07/07/2012 16:40							
Other	07/07/2012 16:50							Thank You Ed And Crew Halliburton.
Crew Leave Location	07/07/2012 17:00							Discussed All Routs And Stops Back To Yard.

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