

1.2 Cementing Job Summary

HALLIBURTON

Cementing Call for Services

The Road to Excellence Starts with Safety											
Sold To#: 340078			Ship To#: 3117283			Primary Sales Order #: 0901706926					
Customer: ENCANA OIL & GAS (USA) INC. - EBUS						Job Purpose: 7523 CMT PRODUCTION CASING BOM					
Well Name: DRIETH			Well #: 1B-6 H-A368			API/UWI #: 05-123-37585-00					
Field: WATTENBERG			City: BERTHOUD			Country/Parish: WELD			State/Prov: COLORADO		
Legal Description:											
Rig Name & Number / Phone Number: Ensign 135 / 970-361-3273									Location: LAND		
myCem id#:			Job Criticality Status: GREEN			iFacts Request id#:					
Contacts											
Type	Name			Email			Phone				
Company Man											
Account Rep	Nicholas Wilson			Nicholas.Wilson@halliburton.com			+13037203334				
Service Coordinator	Ryan Wyckoff			Ryan.Wyckoff@halliburton.com			+17205386044				
PPE, Safety Huddles, JSA's, HOC & Near Miss Reporting, BBP Observations											
Distance/Mileage(1 way)			75 mile			Distance/Mileage(1 way) Mtls:			75 mile		
Srvcs:						Rqstd Job Start Date/Time:			09/30/2014		
HSE Information											
H2S Present:			Unknown			CO2 Present:			Unknown		
Drive Safely. Lights On for Safety. Wear Seat Belts. Observe all HES / Customer Safety Policies.											
Directions:											
Hwy 66 West to County Line RD, North to CR36, East to CR3, North 1 mile to Rig on West side of the road											
Instruction											
Please Make sure to Bring 10 Gal MMCR, 4 1/2" Cement Head											
General Equipment											
3rd Party / Inventory Items											
SAP Number	Description			Quantity	UoM	Pricing Enabled					
Job Info / Well Data											
Job Depth (MD) ft	Job Depth (TVD) ft	Well Fluid Type	Well Fluid Weight lbm/gal	Displacement Fluid	Displ Fluid Weight lbm/gal						
11500	11500	Oil Based	11	Fresh Water	8.3						
BHST degF	BHCT degF	Log Temp degF			Time Since Circ Stopped HH:MM:SS						
Job Tubulars/Tools											
Description	Size in	Weight lbm/ft	ID in	Thread	Grade	Top MD ft	Btm MD ft	Top TVD ft	Btm TVD ft	Shoe Jnt ft	% Excess
Intermediate Casing	7	26	6.276		N-80	0	7638	0	7638		
Production Open			6.125			7638	11500	7638	11500		20

Hole											
Production Casing	4.5	13.5	3.92		P-110	0	11500	0	11500		

Mud conditioning plan

The condition of the drilling fluid is one of the most important variables in achieving a cement barrier. Prior to cementing, circulate the mud at the planned highest displacement rate for the cement job for at least 2 bottoms-up until the well is clean, mud is free of gas and pump pressures have stabilized.

Materials

Stage/Plug #: 1

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time
1	11.5 lb/gal Tuned Spacer III		30	bbl	11.5	3.73	24			
149.45 lbm/bbl		Barite								
iFacts Test id #										

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time hr
2	ExpandaCem B2	EXPANDACEM (TM) SYSTEM	325	sack	13.8	1.67	7.7	4	7.7	
iFacts Test id #		2176837								

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time
3	Fresh Water		259.5	bbl	8.3					
iFacts Test id #										

Caution: Displacement quantities and densities are estimates ONLY! Do not use them for the actual job.

Packaged Materials

SAP #	Material	Qty	UOM	Comments
	FRESH WATER	3222.5	Gal	

Casing Equipment