

HALLIBURTON

iCem[®] Service

ENCANA OIL & GAS (USA) INC

For:

Date: Saturday, January 03, 2015

RUHL 1E-32 H-B264

Case 1

Job Date: Saturday, January 03, 2015

Sincerely,

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1 Job Design

1.1 Time of Stages

Graph Label	Time (min)	Stage Starts Pumping	Stage Enters Annulus
①	0.0	Clean Lines	
②	0.0	Pump Cement	
③	0.0	Drop Top Plug	
④	0.0	Pump Displacement	
⑤	0.0	End Job	
⑥	0.0	Arrive At Loc	
⑦	0.0	Check Floats	
⑧	0.0	Pump Spacer 1	
⑨	0.0	Pressure Test	
⑩	0.0	Call Out	
⑪	0.0	Pressure Up Well	
⑫	0.0	Bump Plug	
⑬	0.0	Shutdown	

1.2 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	1/3/2015	02:40:00	USER				CALL OUT FROM ARS OFFICE
Event	2	Arrive At Loc	Arrive At Loc	1/3/2015	07:00:00	USER				ARRIVE ON LOCATION MET WITH COMPANY REP TO DISCUSS JOB PROCESS AND CONCERNS
Event	3	Pressure Test	Pressure Test	1/3/2015	11:28:00	USER				PRESSURE TESTED PUMPS AND LINES FOUND NO LEAKS AND PRESSURE HELD GOOD (ONLY HELD PRESSURE FOR SHORT TIME DUE TO FREEZING TEMPS)
Event	4	Pump Spacer 1	Pump Spacer 1	1/3/2015	11:32:00	USER				MIXED 12.5PPG TUNE SPACER AT 5.0BPM 670PSI
Event	5	Pump Cement	Pump Cement	1/3/2015	11:44:00	USER				MIXED 105BBL OF 13.8PPG EXPANDACEM AT 5.0BPM 400PSI
Event	6	Shutdown	Shutdown	1/3/2015	12:04:00	USER				
Event	7	Clean Lines	Clean Lines	1/3/2015	12:04:10	USER				WASHED PUMPS AND LINES TILL FRESH WATER CAME OUT
Event	8	Drop Top Plug	Drop Top Plug	1/3/2015	12:12:00	USER				BLACK HAWK HAND RELEASED PLUG WITNESSED BY COMPANY REP AND HES TOOL HAND
Event	9	Pump Displacement	Pump Displacement	1/3/2015	12:12:10	USER				PUMPED 10BBL OF MMCR WATER AND

							161BBL OF FRESH WATER
Event	10	Bump Plug	Bump Plug	1/3/2015	12:45:20	USER	BUMPED PLUG 500PSI OVER FINAL PUMP PRESSURE
Event	11	Pressure Up Well	Pressure Up Well	1/3/2015	12:46:00	USER	PRESSURE UP WELL PER ENCANA POLICY
Event	12	Check Floats	Check Floats	1/3/2015	13:05:00	USER	RELEASED PRESSURE TO CHECK FLOATS , FLOATS HELD GOOD 2.0BBL BACK TO PUMP TRUCK
Event	13	End Job	End Job	1/3/2015	13:10:00	USER	