

# CEMENT JOB REPORT



<b>CUSTOMER</b> Petroleum Development Corp 0		<b>DATE</b> 23-FEB-11		<b>F.R. #</b> 1001765956		<b>SERV. SUPV.</b> CHRISTOPHER M MCKEON				
<b>LEASE &amp; WELL NAME</b> HARPER #43-27 - API 05123223340000		<b>LOCATION</b> SEC 27 - 7 N - 65 W				<b>COUNTY-PARISH-BLOCK</b> Weld Colorado				
<b>DISTRICT</b> Brighton		<b>DRILLING CONTRACTOR RIG #</b> W/O				<b>TYPE OF JOB</b> Squeeze-Top				
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>		<b>PHYSICAL SLURRY PROPERTIES</b>						
		No Shoe		<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT³</b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>
<b>MATERIALS FURNISHED BY BJ</b>										
Mud Clean II				0	8.34	0	0	00:00	10	
Fresh Water				0	8.34	0	0	00:00	1	
Premium Lite Cement + additives				500	12.5	1.89	10.38		168.3	123.68
Clay treat water				0	8.34	0	0	00:00	10	
Available Mix Water 200 Bbl.		Available Displ. Fluid 150 Bbl.		<b>TOTAL</b>				189.3	123.68	
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>				<b>COLLAR DEPTHS</b>			
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>SIZE</b>	<b>WGT.</b>	<b>TYPE</b>	<b>DEPTH</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>
9	0	7355	4.5	11.6	CSG	7355	N-80	0	0	0
			1.66	3.02	TBG	2971	S-135			
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>			<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>
<b>SIZE</b>	<b>WGT</b>	<b>TYPE</b>	<b>DEPTH</b>	<b>BRAND &amp; TYPE</b>		<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>
8.625	24	CSG	415	No packer		0	0	0	1.315	8RD
										<b>WGT.</b>
										9.4
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>	
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>
1	BBLS	Fresh Water	8.34	0	0	0	12888	4000	6224	4000
										<b>MIX WATER</b>
										Frac Tank
<b>Circulation Prior to Job</b>										
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					Circulation Time: 2			Circulation Rate: 2.5 BPM		
Mud Density In: 0 LBS/GAL					Mud Density Out: 0 LBS/GAL			PV & YP Mud In: 0		
								PV & YP Mud Out: 0		
Gas Present: NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>					Units: 0			Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>		
<b>Displacement And Mud Removal</b>										
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>					Amount Bled Back After Job: 0 BBLS					
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL					Method Used to Verify Returns: EYE					
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES					
Pipe Movement: <input type="checkbox"/> ROTATION <input checked="" type="checkbox"/> RECIPROCATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE										
Centralizers: <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES					Quantity: 0			Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID		
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input checked="" type="checkbox"/> NO MANIFOLD										
<b>Plugs</b>										
Number of Attempts by BJ: 0					Competition: 0			Wiper Balls Used: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES		
								Quantity: 0		
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					Top of Plug: 0 FT			Bottom of Plug: 0 FT		
<b>Squeezes (Update Original Treatment Report for Primary Job)</b>										
BLOCK SQUEEZE <input type="checkbox"/>					SHOE SQUEEZE <input type="checkbox"/>			TOP OF LINER SQUEEZE <input type="checkbox"/>		
								PLANNED <input type="checkbox"/> UNPLANNED <input type="checkbox"/>		
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			PSI Applied: 0		
								Fluid Weight: 0 LBS/GAL		
<b>Casing Test (Update Original Treatment Report for Primary Job)</b>										
Casing Test Pressure: 0 PSI					With 0 LBS/GAL Mud			Time Held: 00 Hours 00 Minutes		
<b>Shoe Test (Update Original Treatment Report for Primary Job)</b>										
Depth Drilled out of Shoe: 0 FT					Target EMW: 0 LBS/GAL			Actual EMW: 0 LBS/GAL		
Number of Times Tests Conducted: 0					Mud Weight When Test was Conducted: 0 LBS/GAL					

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Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

None

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

None

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

None

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None

PRESSURE/RATE DETAIL						EXPLANATION		
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>		
	PIPE	ANNULUS				TEST LINES	5498 PSI	
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/>	BJ <input type="checkbox"/>
14:45	0	0	0	0	NA	Pre rig up safety meeting		
15:10	0	0	0	0	NA	Pre job safety meeting		
15:21	1694	0	0	0	H2O	Low pressure test		
15:23	5498	0	0	0	H2O	High pressure test		
15:24	1399	0	1.6	10	CT-3C	Claytreat water		
15:31	1268	0	1.6	10	H2O	Mud Clean II		
15:37	1273	0	1.6	10	CT-3C	Claytreat water		
15:44	2203	0	1.6	84	CMT	Batch up and pump 250 sx. PLC + 0.4% FL-52 + 3% Bentonite @ 12.5 ppg.		
16:37	1017	0	1.1	1	H2O	Displacement		
16:38	0	0	0	0	NA	Shut down/ Rig crew pull tubing		
17:04	2047	0	2.1	67	CMT	Batch up and pump 250 sx. PLC + 0.4% FL-52 + 3% Bentonite @ 12.5 ppg.		
17:38	0	0	0	0	NA	Shut down/ Job end.		
17:40	0	0	0	0	NA	Rig down safety meeting		
BUMPED PLUG Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	PSI TO BUMP PLUG 0	TEST FLOAT EQUIP. Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	BBL.CMT RETURNS/ REVERSED .1	TOTAL BBL. PUMPED 182	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Service Supervisor Signature:	

*[Handwritten signature]*