

## CEMENT JOB REPORT



<b>CUSTOMER</b> Petroleum Development Corp Of		<b>DATE</b> 11-FEB-11	<b>F.R. #</b> 1001759660	<b>SERV. SUPV.</b> AARON M MCWILLIAMS													
<b>LEASE &amp; WELL NAME</b> RIGGS #43-16 - API 05123220310000		<b>LOCATION</b> 16-6N-65W		<b>COUNTY-PARISH-BLOCK</b> Weld Colorado													
<b>DISTRICT</b> Brighton		<b>DRILLING CONTRACTOR RIG #</b> Workover		<b>TYPE OF JOB</b> Long String													
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES													
No Shoe		<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>									
MATERIALS FURNISHED BY BJ																	
Fresh Water		0	8.34	0	0	00:00	10										
Premium Lite Cement + Addds		230	11	3.22	19.86	00:00	130	107.32									
Fresh Water		0	8.34	0	0	00:00	1										
Mud Clean II		0	8.34	0	0	00:00	10										
Available Mix Water <u>260</u> Bbl.		Available Displ. Fluid <u>60</u> Bbl.		<b>TOTAL</b>			151	107.32									
HOLE			TBG-CSG-D.P.				COLLAR DEPTHS										
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE							
9	0	2670	4.5	10.5	CSG	2658	N-80	0	0	0							
LAST CASING			PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID								
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.						
8.625	24	CSG	409	No packer	0	0	0	1.25	8RD	WATER BASED ML	9						
DISPL. VOLUME		DISPL. FLUID		CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		MIX WATER			
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RATED	Operator	MIX WATER				
1	BBLS	Fresh Water	8.34	0	0	0	12888	4000	6224	4000	4000	4000	Transport				
Circulation Prior to Job																	
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: .5				Circulation Rate: 2 BPM									
Mud Density In: 9 LBS/GAL				Mud Density Out: 9 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"/>									
Displacement And Mud Removal																	
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: Visually													
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 type="checkbox"/> YES				Quantity:				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 type="checkbox"/> NO MANIFOLD																	
Plugs																	
Number of Attempts by BJ: 0				Competition: 0				Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Quantity:					
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Top of Plug: 0 FT				Bottom of Plug: 0 FT					
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES																	
Squeezes (Update Original Treatment Report for Primary Job)																	
BLOCK SQUEEZE <input type="checkbox"/>				SHOE SQUEEZE <input type="checkbox"/>				TOP OF LINER SQUEEZE <input type="checkbox"/>				PLANNED <input type="checkbox"/> UNPLANNED <input checked="" 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					
Casing Test (Update Original Treatment Report for Primary Job)																	
Casing Test Pressure: 0 PSI				With 0 LBS/GAL Mud				Time Held: 00 Hours 00 Minutes									
Shoe Test (Update Original Treatment Report for Primary Job)																	
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													
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None</b>																	

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

N/A

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

N/A

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

N/A

PRESSURE/RATE DETAIL						EXPLANATION				
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW		CO. REP.		
	PIPE	ANNULUS				X	X	X	X	
						TEST LINES 5800 PSI				
						CIRCULATING WELL - RIG X BJ				
07:45	0	0	0	0	N/A	Pre rig up safety meeting				
08:30	0	0	0	0	N/A	Pre job safety meeting				
09:10	5800	0	0	0	H2O	Pressure test pumps and lines				
09:12	1910	0	2	10	H2O	Preflush				
09:22	1740	0	2	10	MUD CLEAN	Mud clean II				
09:28	1740	0	2	10	H2O	Spacer				
09:35	2200	0	2	130	CMT	Batch up and pump 230sks of PLC + 4% Bentonite + 0.6% SM + 8 lbs/sack CSE-2 11 ppg 3.22 yield 19.86 gps				
10:43	1900	0	1.9	1	H2O	Displacement				
10:44	0	0	0	0	N/A	Stop pumping				
10:46	0	0	0	0	N/A	Rig down safety meeting				
BUMPED PLUG		PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT			Service Supervisor Signature: 
Y	N	0	Y	N	5	161	0	Y	N	

X Yang Shen