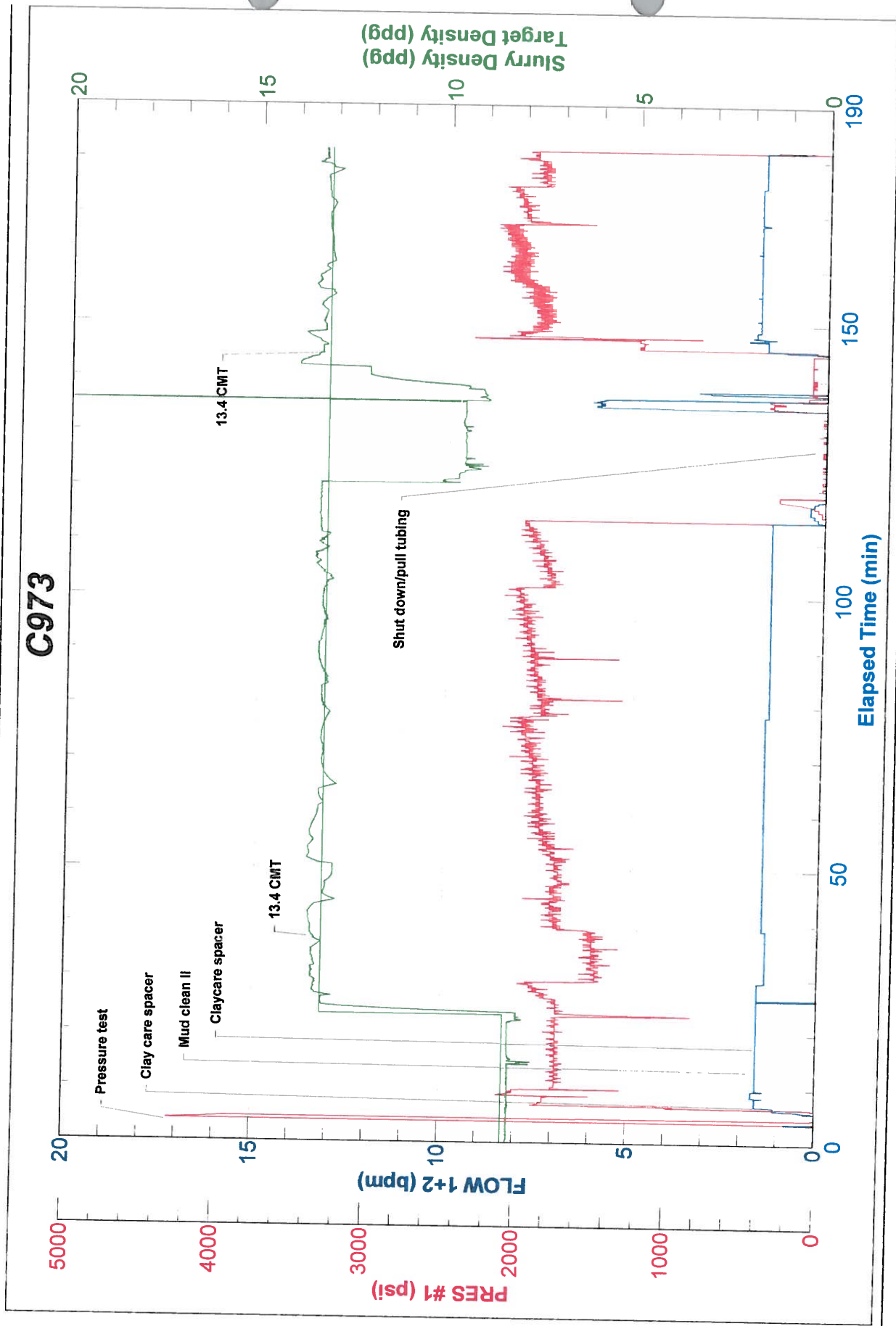




BJ Services JobMaster Program Version 3.50  
Job Number: 1001908651  
Customer: PDC  
Well Name: Knox 41-3



BJ Services

Job Start: Wednesday, May 16, 2012

# CEMENT JOB REPORT



<b>CUSTOMER</b> PETROLEUM DEVELOPMENT		<b>DATE</b> 16-MAY-12		<b>F.R. #</b> 1001908651		<b>SERV. SUPV.</b> COLE W MARRIOTT	
<b>LEASE &amp; WELL NAME</b> KNOX #41-3 - API 05123207940000		<b>LOCATION</b> Sec 3 - 5N - 67W		<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			

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD

PHYSICAL SLURRY PROPERTIES									
MATERIALS FURNISHED BY BJ	LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
Mud Clean II	0	0	8.34	0	0	00:00	10		
Premium Lite Cement + Adds	0	500	13.4	1.55	7.87	00:00	137.95	93.75	
Fresh Water	0	0	8.34	0	0	00:00	1		
Clay treat water	0	0	8.3	0	0	00:00	10		
Premium Lite Cement + additives	0	505	13.4	1.55	7.87	00:00	139.33	94.69	
Available Mix Water 500 Bbl.		Available Displ. Fluid 100 Bbl.		<b>TOTAL</b>		298.29 188.43			

HOLE				TBG-CSG-D.P.				COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
9	10	4400	4	4.5	11.6	CSG	4400	4400	N-80			

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH				TOP CONN		WELL FLUID	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.		
8.1	8.63	24	CSG	415	415	No Packer	0	0	0	2.375	8RD	WATER BASED	8.34		

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	
1.5	BBLS			0	0	0	8544	25000	6224	2500	Frac tank

### Circulation Prior to Job

Circulated Well: Rig ☒ BJ ☐      Circulation Time: 1      Circulation Rate: 1 BPM  
Mud Density In: 8.34 LBS/G      Mud Density Out: 8.34 LBS/GAL      PV & YP Mud In: 0      PV & YP Mud Out: 0  
Gas Present: NO ☒ YES ☐      Units:      Solids Present at End of Circulation: NO ☒ YES ☐

### Displacement And Mud Removal

Displaced By: Rig ☐ BJ ☒      Amount Bled Back After Job: 0 BBLS  
Returns During Job: ☐ NONE ☐ PARTIAL ☒ FULL      Method Used to Verify Returns: Visual  
Cement Returns at Surface: ☒ YES ☐ NO      Were Returns Planned at Surface: ☐ NO ☒ YES  
Pipe Movement: ☐ ROTATION ☐ RECIPROCATION ☒ NONE ☐ UNABLE DUE TO STUCK PIPE  
Centralizers: ☒ NO ☐ YES      Quantity:      Type: ☐ BOW ☐ RIGID  
Job Pumped Through: ☐ CHOKE MANIFOLD ☐ SQUEEZE MANIFOLD ☐ MANIFOLD ☐ NO MANIFOLD

### Plugs

Number of Attempts by BJ: 0      Competition: 0      Wiper Balls Used: ☒ NO ☐ YES      Quantity:  
Plug Catcher Used: ☒ NO ☐ YES      Parabow Used: ☒ NO ☐ YES  
Was There a Bottom: ☒ NO ☐ YES      Top of Plug: 0 FT      Bottom of Plug: 0 FT

### Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE ☐      SHOE SQUEEZE ☐      TOP OF LINER SQUEEZE ☐      PLANNED ☐ UNPLANNED ☐  
Liner Packer: ☒ NO ☐ YES      Bond Log: ☒ NO ☐ 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

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

PRESSURE/RATE DETAIL	EXPLANATION

# CEMENT JOB REPORT



## Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT  
 Number of Times Tests Conducted: 0  
 Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL  
 Mud Weight When Test was Conducted: 0 LBS/GAL

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

### 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	4280 PSI	CIRCULATING WELL - RIG	BJ
06:20	0	0	0	0	N/A	Arrive on location 37 miles			
06:25	0	0	0	0	N/A	Spot trucks rig ready for service			
06:30	0	0	0	0	N/A	Pre rig up safety meeting			
06:50	0	0	0	0	N/A	Pre job safety meeting			
07:03	4280	0	0	0	H2O	Pressure test			
07:07	1809	0	1.6	10	H2O	Claycare spacer			
07:13	1733	0	1.6	12	H2O	Mud clean II			
07:22	1733	0	1.6	10	H2O	Claycare spacer			
07:28	1809	0	1.5	128	CMT	Batch up weigh and pump 500 sxs of PLC + 3% Bentonite			
09:26	1962	0	1.8	66	CMT	Batch up weigh and pump 250 sxs of PLC + 3% Bentonite			
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 <input checked="" type="checkbox"/> N	0	Y <input checked="" type="checkbox"/> N	9	226	0	Y <input checked="" type="checkbox"/> N			