

Cement Report

Customer <i>Petrosantander</i>	Lease No.	Date <i>5-31-11</i>
Lease <i>Miller</i>	Well # <i>4</i>	Service Receipt <i>171701762</i>
Casing <i>5 1/2</i>	Depth <i>4950</i>	County <i>Keokuk</i> State <i>Ks</i>
Job Type <i>242 5 1/2 L.S.</i>	Formation	Legal Description <i>13 21 25</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>5 1/2</i>	Tubing Size	Shots/Ft		Lead <i>121 5120185 sk AA</i>
Depth <i>4950</i>	Depth	From	To	<i>1.59 # 7 sk @ 14.8 #/gal</i>
Volume	Volume	From	To	<i>@ 11.8 #/gal</i>
Max Press	Max Press	From	To	<i>90529 @ 215 sk A-CCU</i>
Well Connection	Annulus Vol.	From	To	Tail in <i>2.95 # 7 sk</i>
Plug Depth	Packer Depth	From	To	<i>18.15 @ 11.4 #/gal</i>
				<i>55 sk Premium +</i>
				<i>1.37 # 7 sk @ 14.8 #/gal</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>03:45</i>					<i>on loc. / Rig Running Csg</i>
<i>03:50</i>					<i>Held Safety Meeting</i>
<i>06:00</i>					<i>Csg on Bottom Cir. w/ Rig</i>
<i>07:01</i>	<i>3500</i>				<i>Test Pump + Lines</i>
<i>07:02</i>	<i>400</i>		<i>5</i>	<i>5</i>	<i>Start Fresh H₂O</i>
<i>07:03</i>	<i>500</i>		<i>12</i>	<i>5</i>	<i>Start Super Flush II</i>
<i>07:06</i>	<i>500</i>		<i>5</i>	<i>5</i>	<i>Start Fresh H₂O</i>
<i>07:08</i>			<i>51</i>	<i>5-4</i>	<i>Start Cmt 185 sk @ 14.8 #</i>
<i>07:22</i>					<i>Shutdown + Drop Plug</i>
<i>07:25</i>					<i>Wash Pump + Lines</i>
<i>07:31</i>	<i>200</i>		<i>0</i>	<i>6</i>	<i>Start Disp. w/ Fresh H₂O</i>
			<i>67</i>	<i>6</i>	<i>Switch to Mud</i>
<i>07:40</i>	<i>700</i>		<i>108</i>	<i>3</i>	<i>Slow Rate</i>
<i>07:52</i>	<i>1700</i>		<i>117.5</i>	<i>3</i>	<i>Bump Plug</i>
<i>07:53</i>	<i>0</i>		<i>118</i>	<i>0</i>	<i>Release / Float Held</i>
<i>07:55</i>					<i>Drop Opening Plug</i>
<i>08:13</i>					<i>Open Tool</i>
<i>08:15</i>					<i>Cir. w/ Rig Pump.</i>
					<i>2nd Stage</i>
<i>11:27</i>	<i>3500</i>				<i>Test Pump + Lines</i>
<i>11:23</i>	<i>250</i>		<i>113</i>	<i>6</i>	<i>Start Lead Cmt 215 sk @ 11.4 #</i>
<i>11:42</i>	<i>300</i>		<i>13</i>	<i>6</i>	<i>Start Tail Cmt 55 sk @ 14.8 #</i>

Service Units	<i>21755</i>	<i>2780819557</i>	<i>1980519808</i>	<i>1980819805</i>
Driver Names	<i>Cochran</i>	<i>Swafford</i>	<i>Munoz</i>	<i>J. Martinez</i>

Pete Customer Representative
 J. Bennett Station Manager
 M. Cochran Cementer



JOB LOG CONT

TICKET #

171701762

TICKET DATE

5-31-11

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press. (PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
	11:49							Shut down + Drop Closing Plug
	11:52							Wash Pump & Lines
	11:56	6	0		200			Start Disp. w/ Frick #20
	12:03	3	40		600			Slow Rate
	12:05	3	47		7500			Bump Plug + Close tool
	12:06				0			Release
								Tool Held
								End Job
								1st Stage
					850			Pressure before Plug landed
								2nd Stage
					650			Pressure before Plug landed
								Circulated Cmt to the Pit
								1st Stage Cmt
								185 sk AA2 5% W-60
								10% salt .6% C-15
								1/4# Defamer 5# bitsonite
								1.54 # 1/2 sk 6.6 gal / 1/2 sk
								Mixed @ 14.8 # / gal
								2nd Stage Cmt
								2.15 sk Acon 3% CC
								1/4# Polyflake 2% WCA-1
								2.95 # 1/2 sk 18.1 gal / 1/2 sk
								Mixed @ 11.4 # / gal
								5.5 sk Premium Plus
								2% CC 1/4# Polyflake
								1.34 # 1/2 sk 6.53 gal / 1/2 sk
								Mixed @ 11.8 # / gal



Customer <i>Petrosantander</i>	Lease No.	Date <i>5/26/11</i>
Lease <i>Miller</i>	Well # <i>4</i>	Service Receipt
Casing <i>4 5/8"</i>	Depth <i>532'</i>	County <i>Finney</i> State <i>KS</i>
Job Type <i>Surface</i>	Formation	Legal Description

Pipe Data		Perforating Data		Cement Data
Casing size <i>4 5/8"</i>	Tubing Size	Shots/Ft		Lead <i>370 gk from 14.8' @ 14.8' 1.54c / 1.54c 6.33 gal / SK 2% CaCl₂ 14' P2016</i>
Depth <i>524.94</i>	Depth	From	To	
Volume <i>30.7</i>	Volume	From	To	
Max Press <i>1000#</i>	Max Press	From	To	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	
Plug Depth	Packer Depth	From	To	Tail in

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00					on loc, spot trucks, Rig up, safety
14:45					Break Circ.
15:16	1500#				Psitest
15:16	100#		0	4	5t mix Prem. Plus @ 14.8'
15:41	0#		79	-	Finish Mixing
15:46	0		0	4	start disp, wash up on plug
15:55	200		20	2	slow Rate
16:00	200-400		31	-	Plug down
16:01	400-0				Release Psi, float held
					Job Complete
					Thank You
					Chad & Crew

Service Units	<i>19468</i>	<i>30463</i>	<i>19813</i>	<i>19805</i>	<i>19808</i>
Driver Names	<i>CHINEZ</i>	<i>R. Olden</i>		<i>H. Esquerda</i>	

Pete _____ Customer Representative
Jerry Bennett _____ Station Manager
Chad HINEZ _____ Cementer