



02054245

Casing & Cement
Well Name: 696-5C-13SURFACE CASING CEMENT AND
TOP OUT

045-18393

Casing Detail:

Casing Description	Prop Run?	Run Date	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Set Tension (1000lbf)	Centralizers	Scratchers
Surface	No	2/21/2010 12:00	2,303.7			1	
Wellbore Name	696-5C-13		Original KB Elevation (ft)	Water Depth (ft)	KB-Mud Line Distance (ft)		
			8,153.00				
Comment							

Casing Components

Joints	Item Description	Icon	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top Thread	Length (ft)	Top (ftKB)	Bottom (ftKB)	Comment
0	Landing Joint	Casing (red)	9 5/8	8.921	36.00	J-55		0.00	24.0	24.0	
1	Casing Hanger	Casing hanger	9 5/8	8.921	36.00	J-55		3.18	24.0	27.2	
49	Casing Joints	Casing (black)	9 5/8	8.921	36.00	J-55		2,161.68	27.2	2,188.9	
1	Air Collar	Casing (red)	9 5/8	8.921	36.00	J-55		1.60	2,188.9	2,190.5	
1	Casing Joints	Casing (black)	9 5/8	8.921	36.00	J-55		44.75	2,190.5	2,235.2	
1	Float Joint	Float collar	9 5/8	8.921	36.00	J-55		22.09	2,235.2	2,257.3	
1	Float Collar	Float collar	9 5/8	8.921	36.00	J-55		1.05	2,257.3	2,258.4	
1	Float Shoe Joint	Casing (black)	9 5/8	8.921	36.00	J-55		43.71	2,258.4	2,302.1	
1	Float Shoe	Casing shoe	9 5/8	8.921	36.00	J-55		1.67	2,302.1	2,303.7	

Cementing Job Details:

String	Description	Type	Cementing Start Date	Cementing End Date	Cementing Company
Surface, 2,303.7ftKB	Surface Casing Cement	casing	2/21/2010 12:00		BJ Services Company
Comment					

No returns. Bumped plug @ 1017 psi Floats held OK. Got 1 bbl back. Final lift pressure prior to landing plug - 170 psi. Pumped 4 top outs for a total 799.5 sxs and 7.75 cubic yards of pea gravel.

Cement Stage#1 Description:

Stg No.	Top (ftKB)		Bottom (ftKB)		Pump Start Date		Pump End Date		Cement Volume Return (bbl)		Lost Volume (bbl)		
1	24.0		2,303.7		2/22/2010 13:25		2/22/2010 16:26		0.0				
Float Failed?	Plug Failed?	Full Return?	Pipe Reciprocated?	Pipe Rotated?	Top Plug?	Bottom Plug?	Plug Bump Pressure (psi)	Pressure Held (psi)					
No	No	No	No	No	No	Yes	1,017.0	1,017.0					
Initial Pump Rate (bbl/min)		Final Pump Rate (bbl/min)		Average Pump Rate (bbl/min)		Final Pump Pressure (psi)		Pres Rel Time		Plug Depth (ftKB)		Drill Out Time	Drill Out Dia (in)
5		3		5		170.0		16:31					

Comment

Primary Cement

Spacer

Density (lb/gal)	Class	Amount (sacks)	Yield (ft ³ /sack)	V (bbl)	Mix H2O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
8.34				20.0		Fresh Water - other		2/22/2010 13:26	2/22/2010 13:33

Fluid Type

Spacer

Add	Type	Conc	Conc Unit	Amount	Amount Units
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Lead

Density (lb/gal)	Class	Amount (sacks)	Yield (ft ³ /sack)	V (bbl)	Mix H2O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
12.30	Type III	1,088	2.09	405.0	11.62	Fresh Water - other		2/22/2010 13:33	2/22/2010 15:18

Fluid Type

Lead

Add	Type	Conc	Conc Unit	Amount	Amount Units
Calcium Chloride	accelerator	1.0	%BWOC		
Static Free	anti-static	0.05	lb/sk		
Bentonite	extender	8.0	%BWOC		



**Marathon
Oil Company**

Casing & Cement
Well Name: 696-5C-13

Add	Type	Conc	Conc Unit	Amount	Amount Units
FP-13L	foam preventer		1.0 lb/100 sk		

Tail									
Density (lb/gal)	Class	Amount (sacks)	Yield (ft ³ /sack)	V (bbl)	Mix H2O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
14.20	Type III	150	1.47	39.0	7.35	Fresh Water - other		2/22/2010 15:18	2/22/2010 15:39

Fluid Type	Comment
Tail	

Add	Type	Conc	Conc Unit	Amount	Amount Units
Calcium Chloride	accelerator		1.0 %BWOC		
Static Free	anti-static		0.05 lb/sk		
FP-13L	foam preventer		1.0 gal/100 sk		

Displacement									
Density (lb/gal)	Class	Amount (sacks)	Yield (ft ³ /sack)	V (bbl)	Mix H2O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
8.33				167.0		Fresh Water - other		2/22/2010 15:52	2/22/2010 16:26

Fluid Type	Comment
Displacement	

Add	Type	Conc	Conc Unit	Amount	Amount Units

Cement Stage#2 Description:

Stg No.	Top (ftKB)	Bottom (ftKB)	Pump Start Date	Pump End Date	Cement Volume Return (bbl)	Lost Volume (bbl)		
2	24.0	2,303.7	2/22/2010 21:40	2/23/2010 08:55	2.0			
Float Failed?	Plug Failed?	Full Return?	Pipe Reciprocated?	Pipe Rotated?	Top Plug?	Bottom Plug?	Plug Bump Pressure (psi)	Pressure Held (psi)
No	No	No	No	No	No	No		
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Average Pump Rate (bbl/min)	Final Pump Pressure (psi)	Pres Rel Time	Plug Depth (ftKB)	Drill Out Time	Drill Out Dia (in)	
1	1	1						

Comment
Top Out

Top out									
Density (lb/gal)	Class	Amount (sacks)	Yield (ft ³ /sack)	V (bbl)	Mix H2O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
14.20	Type III	800	1.47	209.3	7.35	Fresh Water - other		2/23/2010 08:55	2/23/2010 08:47

Fluid Type	Comment
Top out	4 top outs for a total 799.5 sxs and 7.75 cubic yards of pea gravel.

Add	Type	Conc	Conc Unit	Amount	Amount Units
A-10				7,515.3 lb	
FP-13L				3.5 gal us	
Calcium Chloride	accelerator			1,503.06 lb	
Static Free	anti-static			31.98 lb	

Wellheads				
Install Date	Type	Job	Removed Date	Comment