



**Marathon  
Oil Company**

# Casing & Cement

Well Name: 697-26A-12



## Casing Detail:

Casing Description	Prop Run?	Run Date	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Set Tension (1000lbf)	Centralizers	Scratchers
Surface	No	5/7/2010 17:30	2,218.0	2,207.3		One rigid	
Wellbore Name			Original KB Elevation (ft)	Water Depth (ft)		KB-Mud Line Distance (ft)	
	697-26A-12		8,424.00				

Comment

045-19229

## 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 (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	0.00	24.0	24.0	
1	Casing Hanger	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	3.18	24.0	27.2	
1	Casing Joints	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	45.12	27.2	72.3	
45	Casing Joints	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	2,010.91	72.3	2,083.2	
1	Air Collar	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	1.60	2,083.2	2,084.8	
1	Casing Joints	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	45.09	2,084.8	2,129.9	
1	Float Joint	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	43.15	2,129.9	2,173.1	
1	Float	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	1.24	2,173.1	2,174.3	
1	Shoe Joint	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	42.08	2,174.3	2,216.4	
1	Shoe	Casing (black)	9 5/8	8.921	36.00	J-55	Buttress Thread	1.66	2,216.4	2,218.0	

## Cementing Job Details:

String	Description	Type	Cementing Start Date	Cementing End Date	Cementing Company
Surface, 2,218.0ftKB	Surface Casing Cement	casing	5/8/2010 17:30	5/8/2010 00:00	BJ Services Company

Comment

No returns. Bumped plug @ 1034 psi Floats held OK. Got 1 bbl back. Final lift pressure prior to landing plug - 70 psi. Pumped 2 top outs for a total 350 sxs and 4 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		2,218.0	5/7/2010 03:11	5/8/2010 01:12	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	1,034.0	700.0		
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		0.0	01:18			

Comment

Primary Cement

Density (lb/gal)	Class	Amount (sacks)	Yield (ft <sup>3</sup> /sack)	V (bbl)	Mix H <sub>2</sub> O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
8.34				20.0		Fresh Water - other		5/7/2010 22:55	5/7/2010 23:05

Fluid Type

Spacer

Add	Type	Conc	Conc Unit	Amount	Amount Units

Density (lb/gal)	Class	Amount (sacks)	Yield (ft <sup>3</sup> /sack)	V (bbl)	Mix H <sub>2</sub> O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
12.30	Type III	1,088	2.09	404.0	11.62	Fresh Water - other		5/7/2010 23:10	5/7/2010 00:20

Fluid Type

Lead



**Marathon  
Oil Company**

**Casing & Cement  
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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		
FP-13L	foam preventer		1.0 lb/100 sk		

**Tail**

Density (lb/gal)	Class	Amount (sacks)	Yield (ft <sup>3</sup> /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		5/7/2010 00:20	5/8/2010 00:30

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 <sup>3</sup> /sack)	V (bbl)	Mix H2O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
8.33				164.0		Fresh Water - other		5/8/2010 00:40	5/8/2010 01:12

Fluid Type Comment

**Displacement**

Add	Type	Conc	Conc Unit	Amount	Amount Units
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**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		2,218.0		5/8/2010 06:15		5/8/2010 14:32		5.0													
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)	
2				2				2															

Comment

**Top Out**

Density (lb/gal)	Class	Amount (sacks)	Yield (ft <sup>3</sup> /sack)	V (bbl)	Mix H2O Ratio (gal/sack)	Water Source	Excess (%)	Pump Start	Pump End
14.20	Type III	350	1.47	91.6	7.35	Fresh Water - other		5/8/2010 06:15	5/8/2010 14:32

Fluid Type Comment

Top out 2 top outs for a total 350 sxs and 4 cubic yards of pea gravel.

Add	Type	Conc	Conc Unit	Amount	Amount Units
A-10			10.0 %		
Calcium Chloride	accelerator		2.0 %		
Static Free	anti-static		0.04 lb/sk		

**Wellheads**

Install Date	Type	Job	Removed Date	Comment
5/7/2010	WEATHERFORD WELLHEAD	ORIGINAL DRILLING, 5/6/2010 04:30		11" WFT-RL-R07 5,000 # WP