

**RECEIVED**

APR 24 2010

**Marathon  
Oil Company****Casing & Cement**  
Well Name: 596-33A-18**Casing Detail:**

Casing Description	Prop Run?	Run Date	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Set Tension (06)	Centralizers	Scratchers
Surface	No	4/23/2010 08:00	2,805.6	2,722.1		One rigid	
Wellbore Name	596-33A-18		Original KB Elevation (ft)	Water Depth (ft)		KB-Mud Line Distance (ft)	
			8,262.00				

Comment

045-19245

**Casing Components**

Joints	Item Description	Icon	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top Thread	Length (ft)	Top (ftKB)	Bottom (ftKB)	Comment
0	Casing Joints		9 5/8	8.921	36.00	J-55		0.00	24.0	24.0	
0								0.00	24.0	24.0	
0	Landing Joint		9 5/8	8.921	36.00	J-55	Buttress	0.00	24.0	24.0	
1	Hanger		9 5/8	8.921	36.00	J-55	Buttress	3.18	24.0	27.2	
61	Casing Joints		9 5/8	8.921	36.00	J-55	Buttress	2,647.08	27.2	2,674.3	
1	Air Collar		9 5/8	8.921	36.00	J-55	Buttress	1.60	2,674.3	2,675.9	
1	Casing Joints		9 5/8	8.921	36.00	J-55	Buttress	39.98	2,675.9	2,715.8	
1	Float Joint		9 5/8	8.921	36.00	J-55	Buttress	43.48	2,715.8	2,759.3	
1	Float Collar A		9 5/8	8.921	36.00	J-55	Buttress	1.24	2,759.3	2,760.6	
1	Shoe Joint		9 5/8	8.921	36.00	J-55	Buttress	43.40	2,760.6	2,804.0	
1	Float Shoe		9 5/8	8.921	36.00	J-55	Buttress	1.64	2,804.0	2,805.6	

**Cementing Job Details:**

String	Description	Type	Cementing Start Date	Cementing End Date	Cementing Company
Surface, 2,805.6ftKB	Surface Casing Cement	casing	4/23/2010 12:05	4/23/2010 19:40	

Comment

Floats did not hold shut in for 4 Hrs bleed off PSI OK. 5 Top outs 604 sx. 13.75 yds. 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	2,805.0	4/23/2010 12:05	4/23/2010 15:05	0.0	
Float Failed?	Plug Failed?	Full Return?	Pipe Reciprocated?	Pipe Rotated?	Top Plug?	Bottom Plug?
Yes	No	No	No	No	Yes	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
5	3	5	360.0	19:40	1,200.0	1,200.0

Comment

Primary Cement

**Spacer**

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
8.34				20.0		Fresh Water - other		4/23/2010 12:08	4/23/2010 12:15

Fluid Type

Spacer

Add	Type	Conc	Conc Unit	Amount	Amount Units



Casing & Cement  
Well Name: 596-33A-18

RECEIVED

APR 24 2010

Lead									
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	Prem-lite	1,088	2.09	404.4	11.62	Fresh Water - other		4/23/2010 12:17	4/23/2010 13:36

Fluid Type	Comment
Lead	

Add	Type	Conc	Conc Unit	Amount	Amount Units
Calcium Chloride	accelerator	1.0	%BWOC		
Static Free	anti-static	0.04	lb/sk		
Bentonite	extender	8.0	%BWOC		
FP-6L	foam preventer	1.0	lb/100 sk		

Tail									
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
14.20	Type III	150	1.47	39.0	7.35	Fresh Water - other		4/23/2010 13:37	4/23/2010 13:52

Fluid Type	Comment
Tail	

Add	Type	Conc	Conc Unit	Amount	Amount Units
Calcium Chloride	accelerator	1.0	%BWOC		
Static Free	anti-static	0.04	lb/sk		
FP-6L	foam preventer	1.0	gal/100 sk		

Displacement									
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
8.33				211.0				4/23/2010 14:01	4/23/2010 15:04

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	2,805.0		4/23/2010 20:15	4/24/2010 03:10	1.0		
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)
3	1	2		0.0				

Comment
Top Out

Top out									
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
14.20	Type III	604	1.47	158.1	7.35	Fresh Water - other		4/23/2010 20:15	4/24/2010 03:10

Fluid Type	Comment
Top out	5 top outs for a total 604 sxs and 13.75 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