



**Marathon
Oil Company**



02054250

Casing & Cement
Well Name: 696-6A-45

SURFACE CASING CEMENT
AND TOP OUT
045-18396

Casing Detail:

Casing Description	Prop Run?	Run Date	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Set Tension (1000lbf)	Centralizers	Scratchers
Surface	No	2/27/2010 19:00	2,329.4	2,222.7	95,000.0	1	
Wellbore Name			Original KB Elevation (ft)	Water Depth (ft)		KB-Mud Line Distance (ft)	
696-6A-45			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	Casing Joints		9 5/8	8.921	36.00	J-55		0.00	0.0	0.0	
0								0.00	0.0	0.0	
1	Landing Joint	Casing (black)	9 5/8	8.921	36.00	J-55		24.00	0.0	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		2,141.64	27.2	2,168.8	
1	Casing Joints	Casing (black)	9 5/8	8.921	36.00	J-55		44.78	2,168.8	2,213.6	
1	Air Collar	Casing (black)	9 5/8	8.921	36.00	J-55		1.60	2,213.6	2,215.2	
1	Casing Joints	Casing (black)	9 5/8	8.921	36.00	J-55		44.79	2,215.2	2,260.0	
1	Float Joint	Float collar	9 5/8	8.921	36.00	J-55		21.68	2,260.0	2,281.7	
1	Float Collar	Float collar	9 5/8	8.921	36.00	J-55		1.04	2,281.7	2,282.7	
1	Float Joint	Float collar	9 5/8	8.921	36.00	J-55		45.00	2,282.7	2,327.7	
1	Float Shoe	Casing shoe	9 5/8	8.921	36.00	J-55		1.66	2,327.7	2,329.4	

Cementing Job Details:

String Surface, 2,329.4ftKB	Description Surface Casing Cement	Type casing	Cementing Start Date 2/27/2010 19:00	Cementing End Date 2/27/2010 21:30	Cementing Company BJ Services Company
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Comment
Lift pressure 0 PSI at 2.5 bbl/min. Bumped plug with 770 PSI, floats held, got 1 bbl back. 20 bbl sugar water pumped down parasite, good communication with 9 5/8

Cement Stage#1 Description:

Stg No. 1	Top (ftKB) 1,100.0	Bottom (ftKB) 2,329.4	Pump Start Date 2/27/2010 19:00	Pump End Date 2/27/2010 21:30	Cement Volume Return (bbl) 0.0	Lost Volume (bbl)		
Float Failed? No	Plug Failed? No	Full Return? No	Pipe Reciprocated? No	Pipe Rotated? No	Top Plug? Yes	Bottom Plug? No	Plug Bump Pressure (psi) 770.0	Pressure Held (psi) 770.0
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 3	Average Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 0.0	Pres Rel Time 21:30	Plug Depth (ftKB)	Drill Out Time	Drill Out Dia (in)	

Comment

Primary

Spacer

Density (lb/gal) 8.34	Class	Amount (sacks)	Yield (ft ³ /sack)	V (bbl) 20.0	Mix H2O Ratio (gal/sack)	Water Source Fresh Water - other	Excess (%)	Pump Start 2/27/2010 19:00	Pump End 2/27/2010 19:06
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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	35 /65 Poz	1,088	2.09	404.1	11.62	Fresh Water - other		2/27/2010 19:10	2/27/2010 20:35

Fluid Type		Comment				
Lead						
Add	Type	Conc	Conc Unit	Amount	Amount Units	
Calcium Chloride	accelerator	1.0 %				
Static Free	anti-static	0.04 %				
Bentonite	extender			7,572.0 lb		
Poz. A	Light Weight enhancer			381.0 sacks		
Type III	Portland Cement					

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	39.3	7.35	Fresh Water - other		2/27/2010 20:35	2/27/2010 20:42

Fluid Type		Comment							
Tail									
Add	Type	Conc	Conc Unit	Amount	Amount Units				
Calcium Chloride	accelerator	1.0 %							
Static Free	anti-static	0.04 %							
Type III	Portland Cement								

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
8.34				178.6		Fresh Water - other		2/27/2010 20:42	2/27/2010 21:27

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	1,100.0	2/28/2010 01:52	3/28/2010 10:40	1.0	
Float Failed?	Plug Failed?	Full Return?	Pipe Reciprocated?	Pipe Rotated?	Top Plug?	Bottom Plug?
No	No	No	No	No	No	No
Plug Bump Pressure (psi)	Pressure Held (psi)					
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
1	1	1				Drill Out Dia (in)

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	707	1.47	185.0	7.35	Fresh Water - other		2/28/2010 01:52	2/28/2010 10:40

Fluid Type		Comment							
Top out		4 top outs for a total 706.6 sxs and 6.5 cubic yards of pea gravel.							
Add	Type	Conc	Conc Unit	Amount	Amount Units				
A-10				6,642.04 lb					
Calcium Chloride	accelerator			1,328.4 lb					
Static Free	anti-static			28.26 lb					

Wellheads				
Install Date	Type	Job	Removed Date	Comment