



02054253

Casing & Cement
Well Name: 696-5C-11

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FEB 26 2010

Centralizers 1
Scratchers

KB-Mud Pump System
COGCC

Casing Detail:

| | | | | | |
|--------------------|-----------|----------------------------|------------------|------------------------|-----------------------|
| Casing Description | Prop Run? | Run Date | Set Depth (ftKB) | Set Depth (TVD) (ftKB) | Set Tension (1000lbf) |
| Surface | No | 2/25/2010 06:30 | 2,331.6 | | 108,000.0 |
| Wellbore Name | | Original KB Elevation (ft) | | Water Depth (ft) | |
| 696-5C-11 | | 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 | Casing (black) | 9 5/8 | 8.921 | 36.00 | J-55 | | 0.00 | 24.0 | 24.0 | |
| 0 | Casing Joints | Casing (black) | 9 5/8 | 8.921 | 36.00 | J-55 | | 0.00 | 24.0 | 24.0 | |
| 0 | Landing Joint | Casing (black) | 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 | |
| 51 | Casing Joints | Casing (black) | 9 5/8 | 8.921 | 36.00 | J-55 | | 2,195.40 | 27.2 | 2,222.6 | |
| 1 | Air Collar | Casing (black) | 9 5/8 | 8.921 | 36.00 | J-55 | | 1.60 | 2,222.6 | 2,224.2 | |
| 1 | Casing Joints | Casing (black) | 9 5/8 | 8.921 | 36.00 | J-55 | | 42.78 | 2,224.2 | 2,267.0 | |
| 1 | Float Joint A | Float collar | 9 5/8 | 8.921 | 36.00 | J-55 | | 22.00 | 2,267.0 | 2,289.0 | |
| 1 | Float Shoe A | Casing shoe | 9 5/8 | 8.921 | 36.00 | J-55 | | 1.06 | 2,289.0 | 2,290.0 | |
| 1 | Float Shoe Joint A | Casing (black) | 9 5/8 | 8.921 | 36.00 | J-55 | | 39.87 | 2,290.0 | 2,329.9 | |
| 1 | Float Shoe A | Casing shoe | 9 5/8 | 8.921 | 36.00 | J-55 | | 1.67 | 2,329.9 | 2,331.6 | |

Cementing Job Details:

| | | | | | |
|--|-----------------------|--------|----------------------|--------------------|---------------------|
| String | Description | Type | Cementing Start Date | Cementing End Date | Cementing Company |
| Surface, 2,331.6ftKB | Surface Casing Cement | casing | 2/25/2010 08:29 | 2/25/2010 11:30 | BJ Services Company |
| Comment | | | | | |
| Lift pressure 0 PSI at 2.5 BPM, bumped plug, floats held, 1 bbl back | | | | | |

Cement Stage#1 Description:

| Stg No. | Top (ftKB) | Bottom (ftKB) | Pump Start Date | Pump End Date | Cement Volume Return (bbl) | Lost Volume (bbl) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------|----------------------------|---------------------|
| 1 | 1,100.0 | 2,331.0 | 2/25/2010 08:29 | 2/25/2010 11:30 | 0.0 | |
| Float Failed? | Plug Failed? | Full Return? | Pipe Reciprocated? | Pipe Rotated? | Top Plug? | Bottom Plug? |
| No | 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 Bump Pressure (psi) | Pressure Held (psi) |
| 5 | 3 | | 0.0 | 11:30 | 712.0 | 708.0 |

Comment
Primary

| 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 | | 2/25/2010 08:29 | 2/25/2010 08:37 |

| | | | | | |
|------------|------|---------|-----------|--------|--------------|
| Fluid Type | | Comment | | | |
| Spacer | | Water | | | |
| Add | Type | Conc | Conc Unit | Amount | Amount Units |



**Marathon
Oil Company**

Casing & Cement

Well Name: 696-5C-11

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 | 404.0 | 11.62 | Fresh Water - other | | 2/25/2010 08:37 | 2/25/2010 09:58 |

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 | 8.0 % | | | |

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 | | 2/25/2010 09:58 | 2/25/2010 10:10 |

Fluid Type Comment

Tail

| Add | Type | Conc | Conc Unit | Amount | Amount Units |
|------------------|-------------|--------|-----------|--------|--------------|
| Calcium Chloride | accelerator | 1.0 % | | | |
| Static Free | anti-static | 0.04 % | | | |

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 | | | | 174.5 | | Fresh Water - other | | 2/25/2010 10:10 | 2/25/2010 11:01 |

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 | | 2/25/2010 15:00 | | 2/26/2010 03:47 | | 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 | 209.0 | 7.35 | Fresh Water - other | | 2/25/2010 15:00 | 2/26/2010 03:47 |

Fluid Type Comment

Top out

| Add | Type | Conc | Conc Unit | Amount | Amount Units |
|------------------|-------------|------|-----------|------------|--------------|
| A-10 | | | | 7,520.0 lb | |
| Calcium Chloride | accelerator | | | 1,504.0 lb | |
| Static Free | anti-static | | | 48.0 lb | |

Wellheads

| Install Date | Type | Job | Removed Date | Comment |
|--------------|------|-----|--------------|---------|
|--------------|------|-----|--------------|---------|

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