

SAGASCO Resources Ltd

CASING AND CEMENTING RECORD

Well Name: King 1 Permit: T/18P
 Job Type: 9 5/8" casing Rig Name: Ocean Epoch

CASING DETAILS :

| Jts | Size | Weight | Grade | Range | Connection | Burst | Collapse |
|-----|--------|--------|-------|-------|------------|-----------|-----------|
| 117 | 9.625" | 47 ppf | N80 | 3 | New Vamm | 47334kPa | 32728 kPa |
| 1 | 9.625" | 47 ppf | N80 | 1 | New Vamm | 47334 kpa | 32728 kPa |

Note: All measurements RKB; give depth of float collar and float shoe.

| Description | Length | Bottom | Top |
|--|----------------|---------|---------|
| 1 x Float shoe (Weatherford) | 0.44 | 1237.07 | 1236.63 |
| 2 x jts casing | 24.02 | 1236.63 | 1212.61 |
| 1 x Float collar (Weatherford) | 0.43 | 1212.61 | 1212.18 |
| 95 x jts casing | 1115.47 | 1212.18 | 96.71 |
| 1 x casing pup jt + 9 5/8" casing hanger | 2.89 | 96.71 | 93.82 |
| R/tool + HWDP running string to RT | 93.82 | 93.82 | 0.00 |
| Total : | 1237.07 | | |

Centralisers: Number: 6
 Location: 3 ea on stop collars on first 3 jts, 1 ea on next 3 casing collars

Cementing Data

Mud Type : SW/Gel/Polymer

| | | | | | | | |
|----------------|-----------------------------|-----------------|----------------------|------------------|------------------|----------------|-------------|
| Mud Wt (ppg): | 9.3 | VIS/PV/YP : | 42/14/18 | Gels (10s/10m): | 15/23 | WL (ml) : | 16.8 |
| Bit Size (in): | 12.25 | Total Depth:(m) | 1246 | Ave. Hole Dia.": | 13.5 | Based on : | Caliper Log |
| Last Casing : | Size / Weight : | 13.375/68 | ins / ppf | Set at : (m) | 394.4 | Excess (%) : | 10 |
| Cement Fill : | Lead Slurry : | From : (m) | 1037 | To : (m) | 294 | RT to GL : (m) | n/a |
| | Tail Slurry : | From : (m) | 1237.07 | To : (m) | 1037 | RT to ML : (m) | 94.48 |
| Hole Volume: | Open Hole-cuft: | 1342 | Cased Hole-cuft: | 139 | Total : | 1481 | cuft. |
| Slurry Volume: | Lead Slurry-cuft: | 1156.34 | Tail Slurry - cuft : | 324.3 | Total : | 1480.64 | cuft. |
| Mud Flush : | 40 | Bbl .] | [Type: SW | | | | |
| Lead Slurry : | Cement: | 646 | Sacks] [Class: | G | Slurry Density : | 13.2 | ppg |
| Additives: | 2.2 % prehydrated bentonite | | | | | | |
| Mix Water: | 9.72 | gal/sack | FW or SW ? | FW | Slurry Yield : | 1.79 | cuft/sack |
| Tail Slurry: | Cement : | 282 | Sacks] [Class: | G | Slurry Density : | 15.8 | ppg |
| Additives : | | | | | | | |
| Mix Water : | 5.00 | gal/sack | FW or SW ? | SW | Slurry Yield : | 1.15 | cuft/sack |

Displacement

| | | | | | | | |
|---------------|---------------|-----|---------|-------|-------------|-----|-----------------|
| Cement Unit : | Fluid 1 Type: | SW | Pumped: | 12.5 | Bbl. actual | 10 | Bbl. calculated |
| | Fluid 2 Type: | | Pumped: | | Bbl. actual | { | Bbl. calculated |
| Mud Pump: | Fluid 1 Type: | Mud | Pumped: | 252.5 | Bbl. actual | 259 | Bbl. calculated |
| | Fluid 2 Type: | | Pumped: | | Bbl. actual | { | Bbl. calculated |

Plugs Used: Top - (Y/N) Y Type: SS Make: Halliburton
 Bottom-(Y/N) Y Type: SS Make: Halliburton

Returns during job. (Y/N) Y Comment: No returns for first 20 bbl , full returns for the rest of the job.

| TIME Hr:min | Pressure psi | Rate BPM | Description/Comment |
|----------------|-----------------|-------------|--|
| 0:00 | | | Run & land casing |
| 4:00 | | | Circulate casing. |
| 4:46 | 300 | 6 | Rig up cement lines. Pump 40 bbl SW ahead. Test lines to 3000 psi. |
| 5:06 | | | Drop bottom plug release ball. Shear off plug with 1300 psi. |
| 5:28 | 250-500 | 5-8 | Mix & pump cement |
| 6:28 | | | Drop top plug release dart. |
| 6:31 | 2400 | | Shear top plug |
| 7:00 | | 3-7.5 | Displace top plug & bump with 2000 psi. Bleed off - no flow - float holding.Back out r/tool & retrieve. |

Remarks:

Cementing Service Company: Halliburton Cementer: P. Watson
 SAGASCO Representative: J.Lambert Date: 8-Nov-92