



Andrews, David

103-11915

From: Long, Jacob R. [Jacob.Long@chevron.com]
Sent: Thursday, September 20, 2012 9:40 PM
To: Andrews, David
Cc: Garza, Travis C.; Moeller, Ronald W (rmvr); Peterson, Diane L. (DLPE)
Subject: Emerald 98X - 05-103-11915 - Chevron - Top Job Details

Top Out information conducted Monday, 9/20 afternoon.

Top Out #1:

- Class "G" neat cement
- 176 sxs (36 bbls)
- 1.15 ft³/sx
- 15.8 ppg
- **Cement to surface**

Andrews, David

From: Garza, Travis C. [garzat@chevron.com]
Sent: Thursday, September 20, 2012 6:57 AM
To: Andrews, David
Subject: Emerald 98X Surface Casing Cement Job - Chevron
Attachments: Emerald 98X Temp Survey.pdf; Scan0010.pdf

David...the surface casing cement job for the Emerald 98X was pumped yesterday afternoon. A single-stage cement job was performed. A summary of the job is as follows:

- 13.5" surface hole
- 9.625" surface casing
- 2,002' casing shoe depth

- 30 bbls of CaCl spacer
- 15 bbls of FW spacer
- 30 bbls of SuperFlush 101 spacer
- 15 bbls of FW spacer
- 260 bbls of 10.5 ppg lead cement (3,000' of gauge hole volume).
- The Halliburton cement delivery system plugged up prior to starting tail cement and could not be fixed in a timely manner, so the tail cement was cancelled.
- Displaced with FW and bumped the plug.

Returns were seen during pumping the spacer and the first 75 bbls of lead cement, no returns were seen during the next 100 bbls of lead cement, and returns were seen during the last 85 bbls of lead cement. Returns were observed during the entire displacement process. At the end of displacement, material from the SuperFlush spacer was seen at surface.

Attached is a cement job report. Between markers 18 and 19 (displacement), we showed good steady lift pressures. The Halliburton gauges were a bit erratic towards the end of displacement, but when the pumps were slowed just prior to bumping the plug, the pressures smoothed out, and the final circulating pressure was 371 psi.

Attached is the temperature log that was run ~8 hrs after initially pumping the lead cement. The temperature log is inconclusive on TOC most likely due to the lightweight cement that was used.

Based on the data, we may have had a good chance of getting returns to surface if the tail cement had been pumped.

Our recommendation is to conduct 1" top jobs to bring cement back to surface.

Travis Garza
Chevron – Drilling Engineer
Grand Junction, CO
970-210-6780 – cell
970-257-6020 - office

Andrews, David

From: Long, Jacob R. [Jacob.Long@chevron.com]
Sent: Wednesday, September 19, 2012 9:03 PM
To: Andrews, David
Cc: Garza, Travis C.; Moeller, Ronald W (rmvr); Peterson, Diane L. (DLPE)
Subject: Emerald 98X - 05-103-11915 - Chevron - Surface Casing Cement Details

Hole Size – 13.5"

Casing Size – 9.625"

Casing Setting Depth – 2,002' MD

Stage Tool Setting Depth – (not used)

Final Circulating Pressure Prior to Bumping Plug – 371 psi

Pressure Plug Bumped – 1150 psi

Time Plug Held Before Bleeding Pressure – 4 minutes

Lead Cement –

- 505 sxs
- 2.89 ft³/sx
- 10.5 ppg

Tail Cement – No tail cement pumped

Bbls of Cement Circulated to Surface During Primary Job – 0 bbls

*Top Out information will be sent in the next couple of days.