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Cement

**Magna Energy Services, LLC**  
**17509 County Road 14,**  
**Ft. Morgan, Colorado 80701**  
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### Job Log

Date: 2/5/2013

Operator: Western Operating

Well name: Emerald 7-34

Legals: NENE, Section 34, T9N, R54W

Location: Logan County, CO

1/30/2013: MIRU, TOH and LD rods, NDWH, NUBOP, Release tubing anchor, Start TOH, Shut in well for night.

1/31/2013: TOH with tubing, Tubing anchor still down hole, RU wireline, TIH with gauge ring Tagged at 4103', TOH and RD wireline, PU CICR, TIH and set CICR at 4,098', Sting into CICR Pressure tested tubing to 600 Psi, Pressure held, Sting out of CICR, Loaded wellbore with 97 bbl. of water Sting into CICR, Establish injection rate of 1.5 bbl./min at 200 psi, Shut well in for night.

2/1/2013: Pumped 150 sxs of cement into CICR, Sting out of CICR, Pumped 20 sxs on top of CICR, TOH RU casing equipment, Dig out wellhead, Stretched 5-1/2" casing, Shut in well for night.

2/4/2013: Stretch casing, RU wireline, Free point casing, TOH, TIH and cut casing at 700' (Per Diana Burn) TOH and RD wireline, TOH and LD casing, LD casing equipment, TIH with tubing to 1,252', Shut down for night.

2/5/2013: TIH to 2,600', TOH to 750' (50' inside casing stub) Pumped 40 sxs of cement, TOH to 163' (21' under surface casing shoe) Pumped 50 sxs of cement, TOH to 25', Pumped 23 sxs of cement to surface TOH, Cleaned location, Cut off wellhead, Welded information cap onto casing, back filled pit RDMO

**\*\*All cement pumped was 15.8# Class "G" Neat with a yield of 1.15\*\***

Cementing contractor: Magna Energy Services, LLC

Cementing contractor supervisor: Brandon Chappel

Operations supervisor:

COGCC representative: Kym Shure

Wireline contractor: Magna Energy Services, LLC