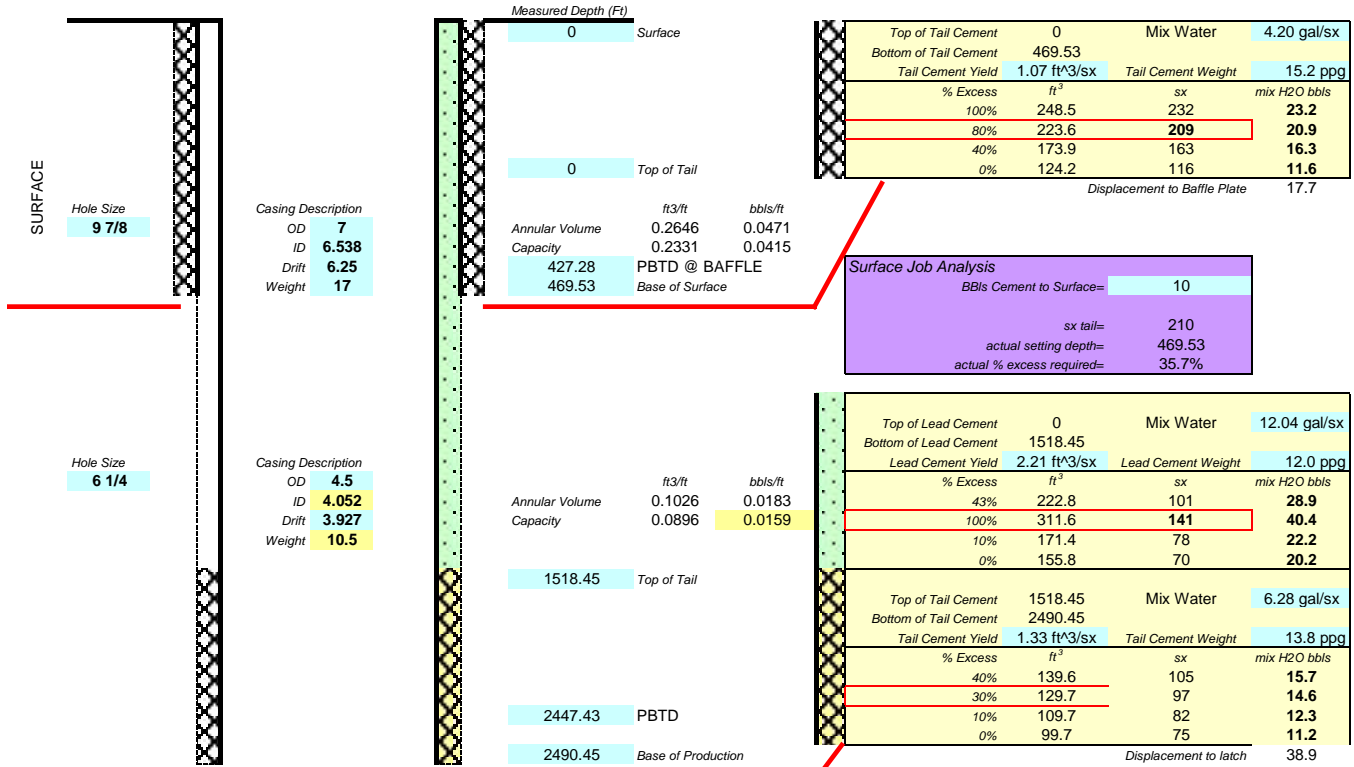


Well Name: SG Hagemann 43-13 1S45W

Location: Sec 13, 1S, 45W, Yuma Co. CO

PLANNED



AS PUMPED

Surface

Date Friday, April 12, 2013

Job Description

Time 1600

Mud Flush 0

Lead Cement 210 sx 50/50 POZ, 3% CaCl₂, .25% flo-cel

Mix Water 4.20 gal/sx

Cement Yield 1.07 ft³/sx

Cement Weight 15.2 ppg

Pump Rate 5.0 Bbls/min

BBLs Displaced 17.5

Bumped Plug NA

Floats Held NA

Full / Partial / No Returns FULL

Cement Circulated yes

Bbls Cement Circulated 10

Pipe Reciprocated NA

Reciprocation length (ft) NA

Reciprocation Rate (SPM) NA

Time Job Complete 1615

Casing #	= Capacity	Cu. Ft./ Ft.
9.5	0.0162	0.0912
10.5	0.0159	0.0895
11.6	0.0155	0.0872
17	0.0415	0.2331
20	0.0405	0.2273
23	0.0393	0.2210

Production

Date Sunday, April 14, 2013

Job Description

Time 215

Mud Flush w/ 2% KCl 10 KCl & Dye, 29 KCL

Lead Cement 143 sx 50/50 POZ, 12% GEL, 2% CACL

Mix Water 12.04 gal/sx

Cement Yield 2.21 ft³/sx

Cement Weight 12.0 ppg

Tail Cement 75 sx 50/50 POZ, 3% CaCl₂, .25% flo-cel

Mix Water 6.28 gal/sx

Cement Yield 1.33 ft³/sx

Cement Weight 13.8 ppg

BBLs Displaced 2% KCl water 38.9

Pump Rate 3.0 Bbls/min

Bumped Plug Yes

Floats Held Yes

Full / Partial / No Returns Full

Cement Circulated Yes

Bbls Cement Circulated 18

Pipe Reciprocated NO

Reciprocation length (ft) NA

Reciprocation Rate (SPM) NA

Time Job Complete 315