

9-21-85 Prepare to drill out cement & retainer

RU Dowell Pu. w/ 20 Bbls CaCL, 1 Bbl fr. wtr., 10 Bbl Zonelock, 1 Bbl fr. wtr. & 100 SX Class "H" cement w/ 2% CaCL (3000#) At end of squeeze pumping @  $\frac{1}{4}$  BPM @ 2200#. Clear retainer & perfs. Pulled out of retainer. Circ 4 hrs. 2nd stage stung into retainer & cemented w/ 20 Bbl CaCL, 2 Bbl frs. wtr. 10 Bbl Zonelock, 1 Bbl fr. wtr. & 100 SX Class "H" cement w/ 2% CaCL. Started pumping displacement, zone squeezed off after  $3\frac{1}{2}$  Bbls to 3750# & locked down. Pulled out of retainer, tried to reverse cement out of tbg. Couldn't get circ, perfs above retainer taking all of fluid. Pulled 10 stands broke circ & circ cement out of tbg. Ran 3 stands & circ. clean. Ran 3 stands each time to @ 2910'. Left 20' cement on top of retainer @ 2930'. TOH w/ tbg collars & stinger. SDFN.

9-22-85 SD for Sunday

TIH W? new 3  $\frac{3}{4}$ " bit, 6 DC on 2  $\frac{3}{8}$ " Tagged cement @ 2900'. Drilled cement, cement retainer & cement to @ 3010' & fell thru. Trip to 3050' & circ clean. SD 45 min to check for wtr. flow. (No flow from perf @ 3010'). TOH w/ bit. TIH w/ 4 $\frac{1}{2}$ " arrow T-32A. tension PKR w/ unloader sub & tbg. Sat PKR @ 2400'. Pressured perf @ 3010' to 1000# for 15 (had no leak off). Released PKR & TOH w/PKR. SD for WE.

9-23-85 Prepare to resqueeze

SD for Sunday

9-24-85 Prepare to drill cement & test squeeze

RU DS & pumped 400 SX Class "C" w/ 2% CaCL. thru perfs @ 1300'. Displaced to 1200' in csg. w/ 950# press. RD DS Services & SDFN.

9-25-85 Cont drlg cement

TIH w/ 3  $\frac{3}{4}$ " blade bit. Tag @ 1071' Drill to 1303' & fell clean. Test 500 PSI O.K. Tag cement again @ 1310'. Drill to 1315' SDFN.

9-26-85 Prepare to re-squeeze perfs @ 1300'

Cont drlg cement from 1315' to 1733' (418') & SDFN. (Perf @ 1300' broke down)

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9-27-85 Prepare to drill out cement

RU Halliburton & pumped 400 SX Class "C" w/ 2% CaCL down csg.  
Displaced to @ 1200' & SI (Max squeeze press 1500#)

9-28-85 Continue drlg cement

Drill to @ 1310' & fell thru. Tested perfs @ 1300' to 800# PSI  
O.K. Tagged cement again @ 1733'. Drilled to 1764' SDFN.

9-29-85 SDF Sunday

Continued drlg cement from 1764' - 2003' (239') SDFN.

9-30-85 Continue drlg cement.

SDF Sunday

10-1-85 Prepare to run cement retainer & squeeze @ 2200'

Drilled cement from 2003' to 2185' and fell thru. Perfs @ 2200'  
giving up a ½" stream of wtr but will not pressure up in 30 minutes.  
SI (Pump into perfs @ 2 BPM)

10-2-85 Prepare to drill out cement

TIH w/ retainer on tbg & set @ 2042'. Pressured backside, did not  
hold. Pumped into upper perfs @ 1300' @ 2 BPM. RU Halliburton & squeezed  
lower perfs @ 2200' w/ 300 SX Class "C" w/ 2% CaCL. Obtained squeeze press  
of 2700#. Pulled out of retainer & circ csg clean. TOH. Cemented down  
4½" csg thru perfs at 1300' w/ 200 SX Class "C" w/ 2% CaCL. Obtained  
squeeze press of 1200#. Displaced cement to 1200' & SI & SDFN.

10-3-85 Prepare to drill out cement

TIH w/ 3 3/4" cone bit & tag cement @ 1219'. Drill to @ 1308' &  
dropped out of cement, Test, @ 700# could pump into perfs @ 1 BPM. TOH  
w/ drill string. RU Hallib. & cement down csg w/ 300 SX Class H w/ .5%  
CFR-2 & 2% CaCL. Displace to 1200' & SD Max squeeze press 800# SDFN.

10-4-85 Prepare to cont drlg cement

TIH w/ 3 3/4" bit Tag cement @ 1161' Drill to @ 1241', cement still  
green. SD WOC.

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10-5-85 Prepare to drill out cement

CO cement from 1264' - 1400' (136') Tested perfs @ 1300' Still leaking. TOH w/ bit. TIH w/ csg scraper to 1300' TOH w/ scraper. TIH w/ 4½" cement retainer to 1306' & spotted ½ Bbl 15% acid. Set retainer @ 1284'. Pumped in 200 gals 15% acid. Pumped in 150 SX Halliburton Thicketropic @ 3 BPM @ 1500# Staged in last 4 Bbl. 1 Bbl @ 1500# 2, 1 Bbl @ ½ BPM @ 2000#, 3, 1 Bbl @ 1/8 BPM @ 1750#, 4, 1 Bbl @ 1/3 BPM @ 1750#. Pulled out of retainer. TOH. SDFN.

10-6-85 SD for Sunday

TIH w/ 3 3/4" bit Tagged cement @ 1265', retainer @ 1285', CO cement to 1305' & fell thru. Tested csg @ 1332' to 775# for 30 min O.K. No loss of press (No leak off) TOH for bit change SD for Sunday.

10-7-85 Prepare to CO to TD.

SD for Sunday.

10-8-85 Prepare to TOH w/ bit & run shoe

TIH w/ new 3 3/4" bit. Tagged cement @ 2040'. Drilled cement & retainer to @ 2204'. Tested perfs 1000# PSI O.K. (15 min) SDFN.

10-9-85 Prepare to continue to jar on fish

TIH to fill in csg stub @ 3318' & TOH w/ bit. TIH w/ 3 13/16" OD Cutrite shoe. Hit tight spot going in the hole @ 2164' & stuck shoe. RU Rotary Wireline Co. Backed off drill string. Left 2 DC & shoe in hole & TOH w/ free pipe & DC. TIH w/ screw in sub & jars & screwed into fish. Jarred on fish @ 2 hrs & did not come free. SDFN.

10-10-85 Prepare to TIH w/ 3 3/4" tapered mill.

Continued to jar on fish. Did not move. Backed off & TOH w/ jars. TIH w/ jars & accelerator sub. Jarred for @ 3 hrs. Did not move fish. Backed off & TOH. Laid down jars & accelerator. TIH and screwed into fish again. RU Rotary Wireline Co. & backed off bushing from shoe & TOH. SDFN.

10-11-85 Prepare to run bit & scraper

TIH w/ tapermill. Milled from 2164'-2165½' TOH for mill #2. TIH w/ mill #2 & milled from 2165½' to 2168' & shoe was gone. Milled cement to 2175' on side walls of csg. TOH w/ 2nd mill & SDFN.

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