

*#12

09-18-96 Drilled 7-7/8" hole to a total depth of 5,950'. POOH, LDDP
thru & DC. PU 5-1/2" casing and start in hole. Hit fill five
10-26-96 joints off bottom, washed casing down to 5,900'. Casing
stuck, working pipe, annulus parted off, unable to
circulate. Pumped down casing at 5.5 BPM at 1,500 psig, no
circulation. Casing parted at 1,977'. GIH with spear,
speared fish, ran free point. Free point indicated casing
to be 100% stuck at 3,875', 100% free at 3,560'. Backed off
casing at 2,663', POOH with partial fish. GIH with casing,
screwed into collar, attempted to break circulation, no
success. Pressured to 2,500 psig, casing came unscrewed.
Could not re-engage fish, POOH with casing. GIH with flat
bottom mill on dp, milled off casing collar at 2,663' (total
of 18"), POOH with mill. PU Bowen packer type casing bowl
and 60 jts of 5-1/2" csg. GIH, worked casing bowl over
casing, set pkr on csg bowl. Cleaned out 5-1/2" casing with
1-1/4" coiled tubing to 5,828'. Could not pump through
float collar. RU WL, perfed 6 squeeze holes at 5,798'
(bottom of csg at 5,875'), RU BJ Services, squeezed casing
with 200 sacks of Class "C" cement. Displaced cement to
5,748', final disp pressure 1,800 psig. WOC 6 hrs, SICP
1,090 psig. Bled pressure off, dropped bomb to open DV
Tool. Pumped 12 BW through DV Tool, could not circulate at
2,500 psig. RD BJ set slips, cut off 5-1/2" csg, nipple up
wellhead. Released drilling rig. Still had water flow up
8-5/8" x 5-1/2" annulus (estimated flow rate 500 BWPD).

MI pulling unit, prep to squeeze off water flow. Shot 4
squeeze holes at 2,950, squeezed perfs with 450 sacks of
35:65:6 Poz/"C"/Gel containing 5% salt. Squeezed at 4.5 BPM
and 300 psig. Full returns up 8-5/8" x 5-1/2" annulus
throughout job, did not circ cmt. Pumped Bradenhead squeeze
down 8-5/8" x 5-1/2" annulus with 140 sacks of 35:65:6
Poz/"C"/Gel at 2 BPM and 700 psig. Shut well in overnight.
GIH with bit, drilled out squeeze holes at 2,950', press up,
pumped in at 1 BPM at 800 psig. Re-squeezed holes with 200
sacks of Class "C" cmt. SI overnight. Drilled out cement,
still getting water flow through squeeze holes. Re-squeezed
perfs with 25 sacks of Class "C" cmt, SI overnight. Drilled
out cement, still slight flow through squeeze holes. Re-
squeezed with 25 sacks of Class "C" cement, squeezed to
3,500 psig. Drilled out cement, still had slight trickle.
Ran Cement Evaluation Log. DV Tool at 3,555'-57', csg patch
at 2,665'-66' WLM. RU BJ. Squeezed through DV Tool with 50
sks of Class "C" cmt. PU & spotted 50 sks of Microfine cmt
across squeeze perfs, press up to 2,500 psig, SDFN.

Drilled out cmt to 2,975', pressure tested csg patch & squeeze
holes to 500 psig for 15 min, OK. Drilled out cmt from 2,975'-
3,218'. Press csg to 500 psig, bled off slowly to 210 psig. Shut
well in for 1 hr, no noticeable fluid entry.