

CASING AND CEMENTING REPORT

FOR

MR. GEORGE REED

ON

WAGNER #1

LEAVENWORTH COUNTY, KANSAS

PREPARED BY

KEVIN F. HOUGH

BERENTZ DRILLING COMPANY

All measurements are Kelly Bushing.

Finished logging hole and ran bit back in hole to condition hole for running of production string.

After circulation for 30 minutes with 60 vis. rotary mud we started laying down drill pipe.

Drill pipe was layed down at 8:00 PM and rig was made ready for running of 4 1/2" production string.

Picked up shoe joint and installed guide shoe on thread end, and automatic fill-up insert in collar of shoe joint. Shoe joint and shoe measured 11.20 overall.

Installed 7 7/8 x 4 1/2 centralizer on collar of shoe joint, collar of 4th joint and collar of 8th joint. Centralizers were spaced to allow for pipe to hang straight through production zone.

Ran remainder of casing to T.D. tagging bottom several times. Pulled long string up and layed down 2' joints leaving approximately 30' of rat hole below shoe and positioned pipe so that collar would set on top of Braden head.

Broke circulation with rig mud pump and circulated 15 min. to clean hole before cementing.

Installed Haliburton plug container to long string, dropped ball to release fill up. Insert and broke circulation again.

Mix 25 sacks of 60/40 pozmix with 4 bb gilsonite per sack, 10% salt blended and 3/4 of 1% CF-R-2 and pumped down casing. Then mixed 150 sacks of 60/40 pozmix with 10% salt blended and 3/4 of 1% CFR-2 and pumped this mixture down casing.

Released lines and cleaned cement from pumping equipment. Hooked Haliburton back to long string and released plug.

Pumped plug to insert at a depth of 1602.99 with 2% potassum chloride water at a rate of 60 barrels per minute. At 100' above insert slowed pump to 2 barrels per minute.

to land plug.

Plug was on bottom at 11:30 PM and measureing line was run. All measurements checked and plug was holding.

Production string had circulated throughtout job.

Set slips in Braden head amd transfered casing from rig to Braden head.at 12:00 Midnight.