PAUL F. KAUTZ

PETROLEUM ENGINEER

Conditions of approval, if any:

C

HAWKEYE 30 STATE #1

04/30/02 TBG PRESS 800 PSI. RU HALLIBURTON NITROGEN UNIT ON TBG, PRESS UP ON CHECK VALVE AND TBG TO 2000 PSI. SHUT WELL IN. RU HIGH PRESS LUBRICATOR, PRESS TEST TO 5000 PSI WITH N2. BLEED OFF PRESS. RU HALLIBURTON ELECT LINE AND GIH WITH SCALLOPED MILLENNIUM HMX SUPER HD GUN. 6'-1 9/16" PULL STRIP LOG AND CORRELATE TO LOGS. WITH GUNS ON DEPTH, RE-PRESS UP ON TBG STG TO 2850 PSI WITH N2. PERFORATE UNCAS SAND (MORROW POOL) 13, 137 – 13, 143' AT 4 SPF WITH 0 DEGREE PHASING. COOH W/GUNS, COUNT SHOTS, 24 WERE FIRED, ALL WENT. PRESS INCREASING AT SURFACE: 2850, 12 MIN 2950, 15 MIN 3000, 20 MIN 3050, 25 MIN 3100, 30 MIN 3150, 40 MIN 3500 PSI. SHUT WELL IN RD EQUIPMENT. OPEN WELL UP FOR FLOW BACK; TBG PRESS 3650 PSI, GOING TO FRAC TANK THRU CHOKE AT WELL HEAD. GETTING FLUID BACK AND GOOD GAS. SHUT WELL IN. OPEN WELL UP TO PROD EQUIPEMENT AT 2500 PSI, GETTING STACK, PACK TEMP UP AND LINED OUT. WELL ON LINE AT 3.2 MMCF GAS AT 2500 PSI ON TBG.

05/01/02 15 HR PROD; TBG PRESS 2050, FLOW RATE 4.1 MMCF, 0 BBLS WATER, 175 BBLS OIL, 25 BBLS OIL WAS LOAD FLUID. 150 BBLS ACTUALY PRODUCED.

05/02/02 24 HR PROD; 213 BOPD, 0 BWPD, 4.426 MMCF GAS. CURRENT TBG PRESS 1600 PSI, CHOKE SETTING 24/64, FLOW RATE 4.6 MMCF GAS.

05/03/02 24 HR PROD; 214 BOPD, 0 BWPD, 4.682 MMCF GAS, TBG PRESS 1250 PSI. 28/64 CHOKE. DROP FROM REPORT.

