

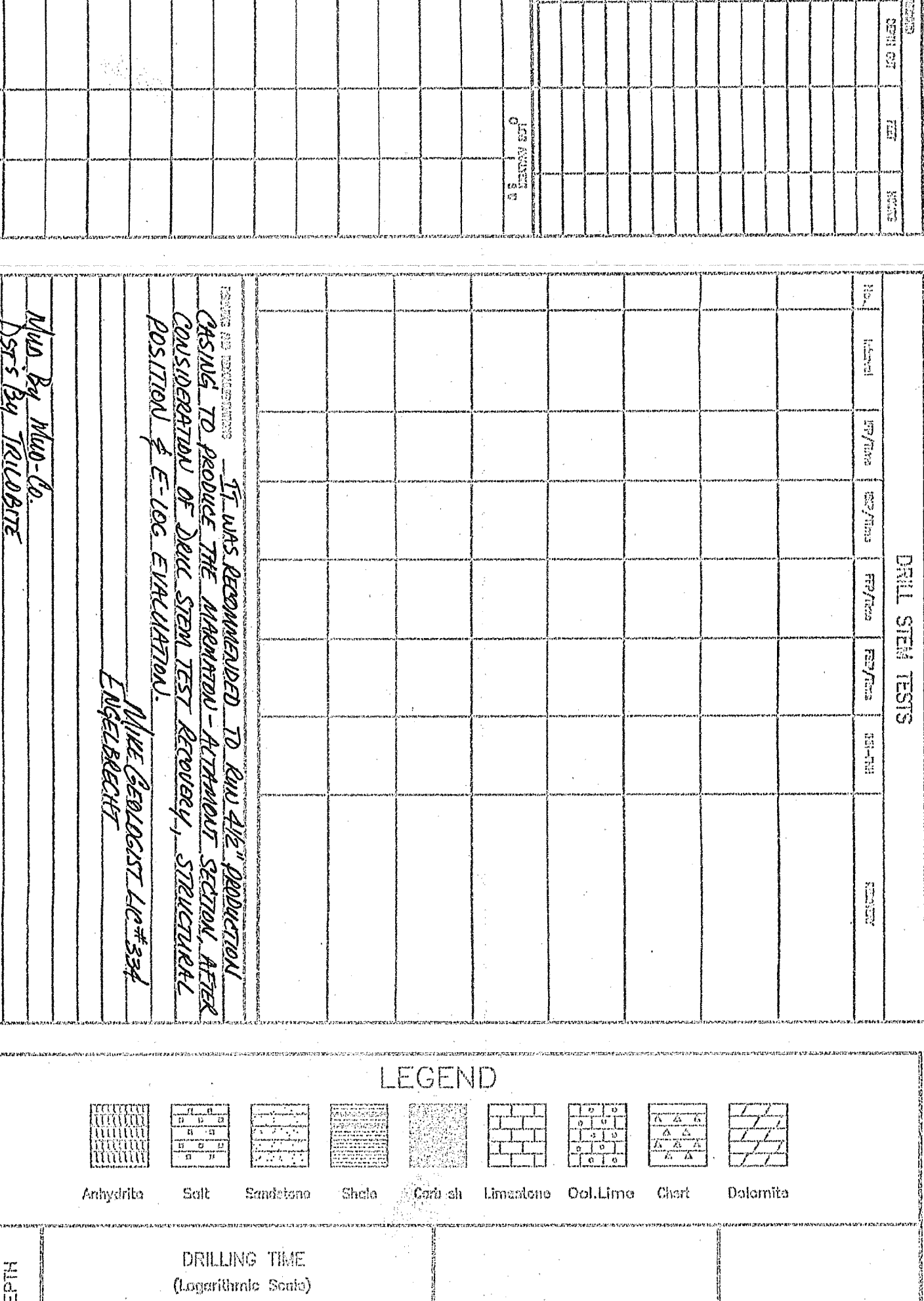
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GEOLOGIST'S REPORT
 PHILLIPS 76 WELLS SAMPLE LOGS

OPERATOR: RITCHIE EXPLORATION, INC.
FIELD: DEWATER & #1
LEASE: COON CREEK FORD NE
LOCATION: 1990 E 51 & 2200 FIVE E ME SW
SEC: 02 T1P: 26 R0E: 22W
COUNTY: FORD STATE: KS
COMMISSION: MURKIN DRILL RIG #72
CONTRACT: MURKIN DRILL RIG #72
WELL: 4902
PRODUCTION: 4902

PERMITS: 3400 to 3402
EQUIPMENT: 3800 to 3810
GEOLOGICAL SUPERVISION: 3676 to 3676
WELL NO.: 4902
DATE: 05-27-2010
TIME: 08:00
WELL LOGS: 3400 to 3402
DATE: 05-27-2010
TIME: 08:00

ANNUAL RATE: 1483.966
STRENGTH: 4476 - 085 2475 - 084 - 0
HEAVY: 4476 - 085 2475 - 084 - 0
WINDING: 4476 - 085 2475 - 084 - 0
CRACK: 4476 - 085 2475 - 084 - 0
MOVEMENT: 4476 - 085 2475 - 084 - 0
CRACK: 4476 - 085 2475 - 084 - 0
MOVEMENT: 4476 - 085 2475 - 084 - 0
CRACK: 4476 - 085 2475 - 084 - 0
MOVEMENT: 4476 - 085 2475 - 084 - 0



LEGEND
 Anhydrite Salt Sandstone Shale Crin. sh. Limestone Ord. Limestone Grist Dolomite

| DEPTH | DRILLING TIME (Logarithmic Scale) | SAMPLE DESCRIPTIONS | REMARKS |
|-------|-----------------------------------|---------------------|---------|
| 0 | 0:00 | | |
| 10 | 0:10 | | |
| 20 | 0:20 | | |
| 30 | 0:30 | | |
| 40 | 0:40 | | |
| 50 | 0:50 | | |
| 60 | 1:00 | | |
| 70 | 1:10 | | |
| 80 | 1:20 | | |
| 90 | 1:30 | | |
| 100 | 1:40 | | |
| 110 | 1:50 | | |
| 120 | 2:00 | | |
| 130 | 2:10 | | |
| 140 | 2:20 | | |
| 150 | 2:30 | | |
| 160 | 2:40 | | |
| 170 | 2:50 | | |
| 180 | 3:00 | | |
| 190 | 3:10 | | |
| 200 | 3:20 | | |
| 210 | 3:30 | | |
| 220 | 3:40 | | |
| 230 | 3:50 | | |
| 240 | 4:00 | | |
| 250 | 4:10 | | |
| 260 | 4:20 | | |
| 270 | 4:30 | | |
| 280 | 4:40 | | |
| 290 | 4:50 | | |
| 300 | 5:00 | | |
| 310 | 5:10 | | |
| 320 | 5:20 | | |
| 330 | 5:30 | | |
| 340 | 5:40 | | |
| 350 | 5:50 | | |
| 360 | 6:00 | | |
| 370 | 6:10 | | |
| 380 | 6:20 | | |
| 390 | 6:30 | | |
| 400 | 6:40 | | |
| 410 | 6:50 | | |
| 420 | 7:00 | | |
| 430 | 7:10 | | |
| 440 | 7:20 | | |
| 450 | 7:30 | | |
| 460 | 7:40 | | |
| 470 | 7:50 | | |
| 480 | 8:00 | | |
| 490 | 8:10 | | |
| 500 | 8:20 | | |
| 510 | 8:30 | | |
| 520 | 8:40 | | |
| 530 | 8:50 | | |
| 540 | 9:00 | | |
| 550 | 9:10 | | |
| 560 | 9:20 | | |
| 570 | 9:30 | | |
| 580 | 9:40 | | |
| 590 | 9:50 | | |
| 600 | 10:00 | | |
| 610 | 10:10 | | |
| 620 | 10:20 | | |
| 630 | 10:30 | | |
| 640 | 10:40 | | |
| 650 | 10:50 | | |
| 660 | 11:00 | | |
| 670 | 11:10 | | |
| 680 | 11:20 | | |
| 690 | 11:30 | | |
| 700 | 11:40 | | |
| 710 | 11:50 | | |
| 720 | 12:00 | | |
| 730 | 12:10 | | |
| 740 | 12:20 | | |
| 750 | 12:30 | | |
| 760 | 12:40 | | |
| 770 | 12:50 | | |
| 780 | 1:00 | | |
| 790 | 1:10 | | |
| 800 | 1:20 | | |
| 810 | 1:30 | | |
| 820 | 1:40 | | |
| 830 | 1:50 | | |
| 840 | 2:00 | | |
| 850 | 2:10 | | |
| 860 | 2:20 | | |
| 870 | 2:30 | | |
| 880 | 2:40 | | |
| 890 | 2:50 | | |
| 900 | 3:00 | | |
| 910 | 3:10 | | |
| 920 | 3:20 | | |
| 930 | 3:30 | | |
| 940 | 3:40 | | |
| 950 | 3:50 | | |
| 960 | 4:00 | | |
| 970 | 4:10 | | |
| 980 | 4:20 | | |
| 990 | 4:30 | | |
| 1000 | 4:40 | | |

Notes:
 - 3475 - 1084
 - 4000 - 1697
 - 4204 - 1813
 - 4372 - 1981
 - 4493 - 2102
 - 4582 - 2191
 - 4632 - 2281
 - 4704 - 2313
 - 4755 - 2364
 - 4822 - 2431
 - 4832 - 2441
 - 4870 - 2479
 - 4960
 - 4962