Century WIRELINE SERVICES

# GAMMA - NEUTRON

## DHGH-05-14

| | |
|---|---|
| COMPANY | : ATRUM COAL |
| WELL | : DHGH-05-14 |
| FIELD | : GROUND HOG |
| COUNTRY | : CANADA |
| PROVINCE | : BRITISH COLUMBIA |
| LSD | : N/A |
| SECTION | : N/A |
| TOWNSHIP | : N/A |
| RANGE | : N/A |
| LICENSE NO. | : N/A |
| UNIQUE WELL ID. | : N/A |
| PERMANENT DATUM | : GL |
| LOG MEASURED FROM | : GL |
| DRL MEASURED FROM | : GL |
| DATE | : 04/15/14 |
| DRILLER TD | : 120.39 |
| BIT SIZE | : 97.00 |
| LOG TOP | : -1.82 |
| LOG BOTTOM | : 119.02 |
| LOGGER CASING | : 3.05 |
| DRILLER CASING | : 3.05 |
| CASING TYPE | : SURFACE |
| BOREHOLE FLUID | : H2O |
| RM TEMPERATURE | : N/A |
| MUD RES | : N/A |
| MUD WEIGHT | : 1.00 |
| WITNESSED BY | : HAYDEN MCKENZIE |
| RECORDED BY | : JSTAPELBERG |
| REMARKS 1 | : |
| REMARKS 2 | : |

OTHER SERVICES:
DEN
SON

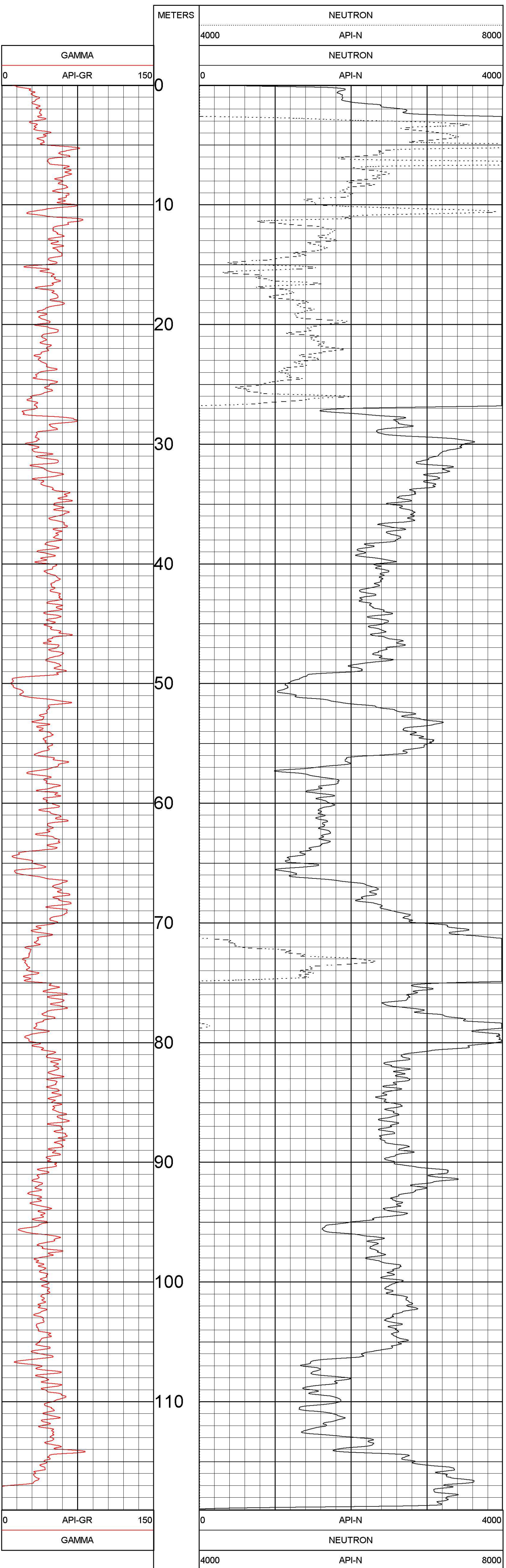
| | |
|---|---|
| ELEVATION KB | : N/A |
| ELEVATION DF | : N/A |
| ELEVATION GL | : N/A |
| RIG NUMBER | : #2 |
| LOGGER TD | : 119.31 |
| ARRIVAL TIME | : 19:00 |
| DEPARTURE TIME | : 07:00 |
| CIRC STOPPED | : N/A |

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

## NEUTRON LOG 1:200 THRU PIPE DHGH-05-14 04/15/14

### LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 19.50 ELECT. CUTOFF : 75000 BIT SIZE : 97.00
PRESENTATION NAME/DATE = 9058_AC.0 09/12/2014 VERSION = 3.64LG





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TOOL CALIBRATION DHGH-05-14 04/15/14 20:29
TOOL 9058A TM VERSION 3
SERIAL NUMBER 2630

| | DATE | TIME | SENSOR | STANDARD | | RESPONSE | |
|---|---|---|---|---|---|---|---|
| 1 | Feb14,14 | 14:22:00 | GAMMA | 0.100 | [API-GR ] | 0.000 | [CPS] |
| | Feb14,14 | 14:22:00 | GAMMA | 545.000 | [API-GR ] | 581.500 | [CPS] |
| 2 | Feb14,14 | 14:22:02 | TEMP | 7.200 | [DEG_F ] | 339690.000 | [CPS] |
| | Feb14,14 | 14:22:02 | TEMP | 41.100 | [DEG_F ] | 383761.000 | [CPS] |
| 3 | Feb14,14 | 14:22:04 | NEUTROI | Default | [CPS] | Default | [CPS] |
| | Feb14,14 | 14:22:04 | NEUTRC | 271.000 | [API-N ] | 44.800 | [CPS] |
| 4 | Feb14,14 | 14:22:07 | POR(NEI | 100.000 | [PERCENT ] | 300.000 | [CPS] |