**Welex**

# DUAL SPACED NEUTRON LOG

**CASED HOLE**

Part Number 26111

COMPANY HCW Exploration Inc.
WELL George Etz No. 6
FIELD North Cooper
COUNTY Lea STATE N.M.

COMPANY HCW EXPLORATION, INC.
WELL GEORGE ETZ NO. 6
FIELD NORTH COOPER
COUNTY LEA STATE NEW MEXICO

API No
Location 660' FSL & 660' FEL
Sec 27 Twp 23-S Rge 36-E

Other Services

Permanent Datum Ground Level Elev 3369.4'
Log Measured From K. B. - 10 Ft Above Perm Datum
Drilling Measured From Kelly Bushing

Elev K.B 3379.4'
D.F.
G.L 3369.4'

| | | | |
|---|---|---|---|
| Date | 2-18-86 | | |
| Run No | - One - | | |
| Depth—Driller | 3600 | | |
| Depth—Welex | 3543 | | |
| Btm. Log Inter | 3542 | | |
| Top Log Inter | 2000 | | |
| Type Fluid in Hole | Water | | |
| Salinity, ppm NaCl | | | |
| Density | | | |
| Level | Full | | |
| Max. Rec. Temp. deg. F | | | |
| Operating Rig Time | 2 Hours | | |
| Equip. + Location | 3418-Hobbs | | |
| Recorded By | Mouser | | |
| Witnessed By | Mr. Sides | | |
| Time At Max. Depth Reached | | | |

| RUN No | Bit | BOREHOLE RECORD From | To | CASING & TUBING RECORD Size | Wgt | From | To |
|---|---|---|---|---|---|---|---|
| -1- | | | | 8-5/8" | 17.6 | 0 | 3600' |

Fold Here

Service Ticket No 29691

API Serial No

PGM Version

EQUIPMENT DATA

| GAMMA | | NEUTRON | | TEMPERATURE | |
|---|---|---|---|---|---|
| Run No | -One- | Run No | -One- | Run No | |
| Serial No | 98456 | Serial No | 98456 | Serial No | |
| Model No | 265 | Model No | 265 | Model No | |
| Diameter | 3-3/8" | Diameter | 3-3/8" | Diameter | |
| Detector Model No | 102-A | Log Type | N-N | | |
| Type | Scint. | Source Type | 10 CU AmBe | | |
| Length | 4" | Serial No | T-650 | | |
| Distance to Source | | Strength | 2.0 x 10⁷ Neutrons/Second | | |

LOGGING DATA

| Run No | Depths From | Depths To | Speed Ft/Min | Tool Position | GAMMA TC/FL | GAMMA Scale L | GAMMA Scale R | TEMPERATURE TC/FL | TEMPERATURE Scale L | TEMPERATURE Scale R | NEUTRON TC/FL | NEUTRON Scale L | NEUTRON Scale R | NEUTRON Scale Matrix |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1- | 2000' | 3542' | 30 | | ** | 0 | 100 | | | | ** | 30 | -10 | [illegible] |

REMARKS **Digital Filter

COMPUTATION PARAMETERS

| From | To |
|---|---|
| Bit Size | |
| Csg O.D | |
| Csg Wgt | |

We do not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any use of such data, interpretations, conversions or recommendations signifies that Welex is not responsible except where due to gross negligence or willful misconduct, for any loss, damages or expenses resulting from the use thereof.

## DUAL SPACED NEUTRON OPTIONS USED

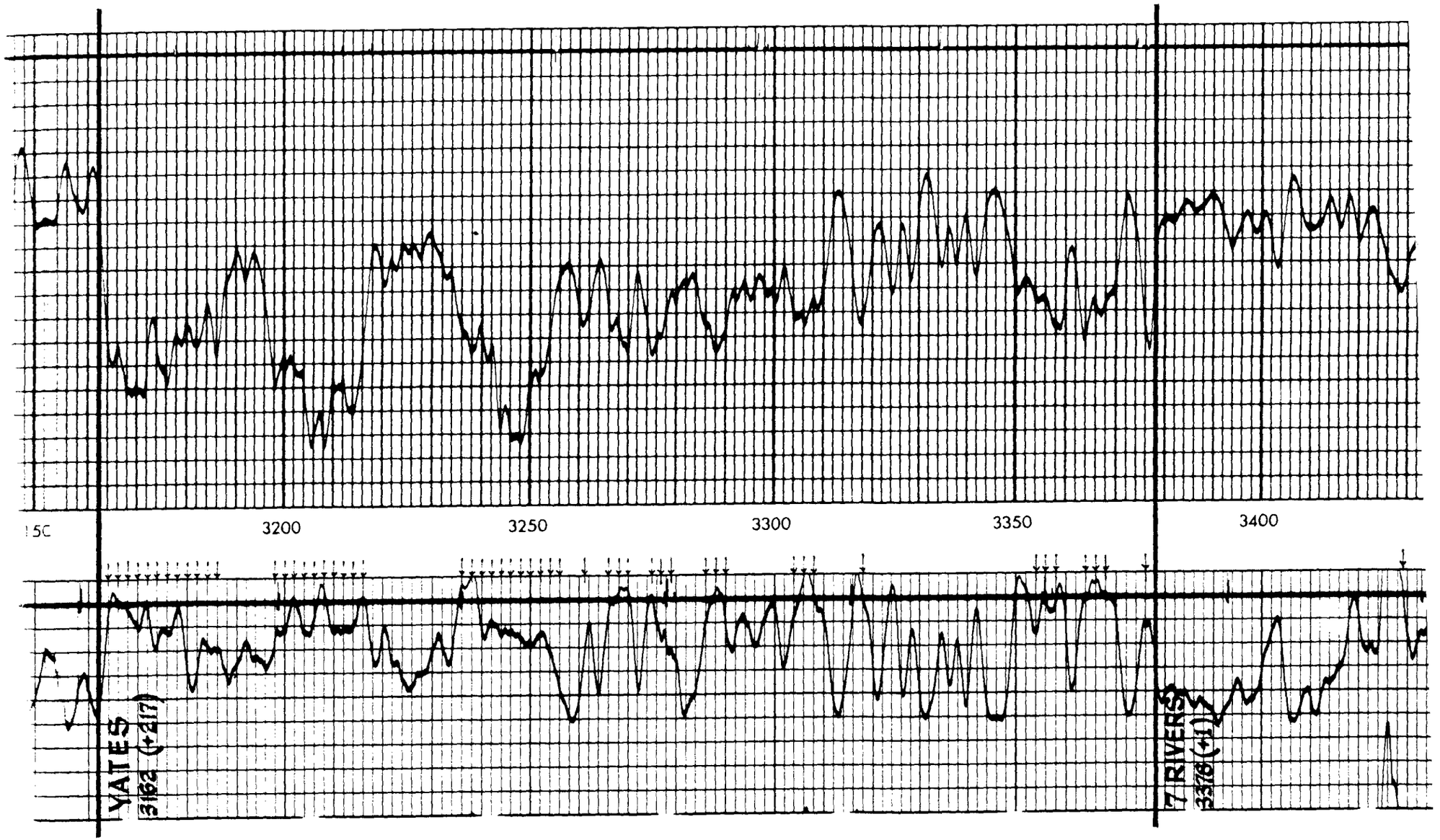
MATRIX OPTION [x] LIMESTONE, [ ] SANDSTONE, [ ] DOLOMITE

BOREHOLE OPTION [x] CASED, [ ] OPEN

**OPTIONS**

| | CASED HOLE | OPEN HOLE |
|---|---|---|
| AUTO. CALIPER OPTION | NA | [ ] YES, [ ] NO |
| CASING THICKNESS USED | .25 IN. | NA |
| CEMENT THICKNESS USED | 1.25 IN. | NA |
| BOREHOLE DIAMETER USED | 7 IN. | IN. |
| MUD CAKE CORRECTION USED | NA | [ ] YES, [ ] NO |
| VALUE IN 1/8" INCREMENTS | NA | |
| BOREHOLE SALINITY CORR. USED | [ ] YES, [x] NO | [ ] YES, [ ] NO |

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
HCW EXHIBIT NO. 4
CASE NO. 8894


3200
3250
3300
3350
3400
YATES
3162 (+217)
7 RIVERS
3376 (+1)