Figure 12.--DRILL-HOLE NO. AK-2-BP
Natural Gamma, Density, Caliper log

BIRDWELL

Gamma-Ray Density

COMPANY HAYDEN FARMER DRILLING COMPANY
WELL AK 2 BP
FIELD SHEEP CREEK
COUNTY GARFIELD
STATE UTAH
OTHER SERVICES DS

LOCATION: SEC. 30 TWP. 37S RGE. 3W
PERMANENT DATUM MSL
GROUND MEASURED FROM GROUND LEVEL
ELEV.: K.B. 6915
D.F.
G.L. 6905

DRILLING MEASURED FROM KB
DATE 20 JUNE 76
RUN NO. ONE
TYPE LOG DRILLER
DEPTH-DRILLER 316'
DEPTH-LOGGER 315'
BTM. LOG INTERVAL 315'
TOP LOG INTERVAL SURFACE
TYPE FLUID IN HOLE MUD
SALINITY, PPM CL N/A
DENSITY, LB/GAL N/A
LEVEL FULL
MAX. REC. TEMP. °F N/A
EQUIP. LOCATION 3641 NEAT
RECORDED BY MCCOY
WITNESSED BY MR. HOLT

CASING RECORD

| NO. | WT. | FROM | TO |
|---|---|---|---|
| 1 | 5.5/F | 0 | 312' |

BIT RECORD

| NO. | SIZE | FROM | TO |
|---|---|---|---|
| 1 | 4 3/4" | 0 | 316' |

REMARKS: GAMMA-RAY CALIBRATED AT 6915' ELEVATION

DENSITY CALIBRATION DATA

| | CPS | MLS/EQ 15.5 MG | E4 |
|---|---|---|---|
| PRIMARY REF. | | 2.70 | 2.50 |
| EQUIVALENT DEN. G/CC | | IN | OUT |
| SECONDARY REF. | | 2.655 | 2.08 |
| EQUIVALENT DEN. G/CC | | 10K | 25K |
| RECORDER CAL DEF. | | 2.71 | 2.21 |
| EQUIVALENT DEN. G/CC | | 5" | 5" |
| NORMAL HOLE SCALE | | | |

EQUIPMENT DATA

| | |
|---|---|
| RUN NO. | ONE |
| GRN. SONDE MOD. NO. | LANE-800 |
| GRN. SONDE SER. NO. | 4 |
| DIAMETER | 3-1/4" |
| DEN. SOURCE NO. | S-283 |
| DR. SONDE MOD. NO. | LALA-800 |
| DR. SONDE SER. NO. | 6 |
| DIAMETER | 1 5/16 |
| TRUCK NO. | 3016 |
| SERVICE CREW INV. | |

BIRDWELL: × NO REG

GENERAL

REFERENCE LITERATURE:

N.A.: INFORMATION NOT AVAILABLE

LOGGING DATA

GAMMA RAY

| DEPTHS FROM | DEPTHS TO | SPEED FT/MIN | TC SEC. | CPM FULL SCALE | ZERO DIV. L OR R | API UNITS GRAD DIV. | CPM FULL SCALE | G/CC GRAD DIV. |
|---|---|---|---|---|---|---|---|---|
| 316 | 0 | 30 | 2 | 20X10³ | -0- | 20 | 80X10³ | .05 |

NOTE: RECORDED BULK DENSITY MUST BE CORRECTED FOR STANDOFF PROXIMITY INDEX)

CALIPER
PROXIMITY INDEX
INCHES
3 4 5

GAMMA-RAY
API UNITS
0 100 200

DEPTH

BULK DENSITY
GRAMS CC
2.3 2.5

Bit Size

MINUTE MARKS

Caliper Log

Gamma Ray

0

100

200

300

T.D. 315'

FIRST READING 315'

REPEAT SECTION

200

300

T.D. 316'

FIRST READING 315'

CALIBRATION BEFORE SURVEY

5-1/2"

5-1/4"

CAL IN

CAL OUT

25K 2.21 G/CC

10K 2.71 G/CC

Gamma Ray

10K

CALIBRATION AFTER SURVEY

5-1/2"

5-1/4"

CAL OUT

CAL IN

25K 2.21 G/CC

10K 2.71 G/CC

Gamma Ray

10K

CALIBRATION DATA

| | | | |
|---|---|---|---|
| COMPANY | HAYDEN FARMER DRILLING COMPANY | DRILLER T.D. | 320' |
| WELL | AK 2 BP | BIRDWELL T.D. | 316' |
| FIELD | SHEEP CREEK ALTON-KANAB | BIRDWELL F.R. | 316' |
| LOCATION | SEC. 30, TWP. 37S, RGE 3W | ELEV.: K.B. | × |
| COUNTY | GARFIELD | D.F. | × |
| STATE | UTAH DATE 20 JUNE 76 | G.L. | 6905 |

Birdwell Division
Seismograph Service Corporation
of Raytheon Co. and Exploration Consultants

× NO RIG