GEOPHYSICAL LOGS OF 22 HOLES DRILLED IN 1976
IN THE YAMPA COAL FIELD,
MOFFAT COUNTY, NORTHWESTERN COLORADO

By
Richard F. Meyer

Open-file report 77-118
1977

This report has not been edited for conformity with Geological Survey editorial standards or stratigraphic nomenclature.
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GEOPHYSICAL LOGS OF 22 HOLES DRILLED IN 1976
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MOFFAT COUNTY, NORTHWESTERN COLORADO

By
Richard F. Meyer

Introduction

Under Contract No. 14-08-0001-15726, awarded by the U. S. Geological Survey, the Hayden Farmer Drilling Company drilled 22 holes in the Yampa coal field in Moffat County, Colorado (figures 1, 2, and 3). Geo-Dynamics Logging Company geophysically logged the 22 drill holes for the U. S. Geological Survey. The purpose of the project was to obtain information about the thicknesses, quality, and depths of coal beds in the Yampa coal field. The drill-hole locations were selected by the U. S. Geological Survey and appropriate permission for access was obtained. Post-drilling reclamation was inspected and approved by the landowner and met U. S. Bureau of Land Management specifications.

Drill-hole locations, elevations, and depths are summarized in table 1.
Figure 1. Location of drill holes, Pagoda quadrangle, Moffat County, Colorado.
R. 90 W.

Figure 2. Location of drill holes, southeastern Hamilton quadrangle, Moffat County, Colorado
Figure 3. — Location of drill holes, west-central Hamilton quadrangle, Moffat County, Colorado.
Table 1. Drill-hole locations, elevations, and drilling and logging depths

(All depths stated herein are in feet; to convert feet to meters, multiply by 0.3048.)

<table>
<thead>
<tr>
<th>Hole No.</th>
<th>Location</th>
<th>Surface elevation</th>
<th>Depth drilled</th>
<th>Depth logged</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-4-P</td>
<td>NE&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt;NE&lt;sub&gt;4&lt;/sub&gt; Sec. 28, T.4N., R.90W.</td>
<td>7,215</td>
<td>500</td>
<td>495</td>
</tr>
<tr>
<td>H-5-P</td>
<td>NW&lt;sub&gt;4&lt;/sub&gt;NW&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt; Sec. 27, T.4N., R.90W.</td>
<td>7,513</td>
<td>545</td>
<td>544</td>
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<tr>
<td>H-6-P</td>
<td>SE&lt;sub&gt;4&lt;/sub&gt;NW&lt;sub&gt;4&lt;/sub&gt;NW&lt;sub&gt;4&lt;/sub&gt; Sec. 35 T.4N., R.90W.</td>
<td>7,849</td>
<td>280</td>
<td>260½</td>
</tr>
<tr>
<td>H-6A-P</td>
<td>SE&lt;sub&gt;4&lt;/sub&gt;NW&lt;sub&gt;4&lt;/sub&gt;NW&lt;sub&gt;4&lt;/sub&gt; Sec. 35 T.4N., R.90W.</td>
<td>7,853</td>
<td>500</td>
<td>489</td>
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<tr>
<td>H-7A-P</td>
<td>SW&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt; Sec. 34 T.4N., R.90W.</td>
<td>8,065</td>
<td>300</td>
<td>298½</td>
</tr>
<tr>
<td>H-8-P</td>
<td>NE&lt;sub&gt;4&lt;/sub&gt;SW&lt;sub&gt;4&lt;/sub&gt;NW&lt;sub&gt;4&lt;/sub&gt; Sec. 32 T.4N., R.90W.</td>
<td>8,135</td>
<td>265</td>
<td>258</td>
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<td>H-9A-P</td>
<td>NW&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt;SW&lt;sub&gt;4&lt;/sub&gt; Sec. 30 T.4N., R.90W.</td>
<td>8,108</td>
<td>510</td>
<td>509</td>
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<tr>
<td>H-11-P</td>
<td>Lot #5, Sec. 23 T.4N., R.90W.</td>
<td>7,415</td>
<td>380</td>
<td>373</td>
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<tr>
<td>H-12-P</td>
<td>Lot #13, Sec. 23 T.4N., R.91W.</td>
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<td>379</td>
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<tr>
<td>H-14-P</td>
<td>Lot #15, Sec. 14 T.4N., R.91W.</td>
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<td>280</td>
<td>273½</td>
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<td>H-15-P</td>
<td>Lot #1, Sec. 23 T.4N., R.91W.</td>
<td>7,468</td>
<td>360</td>
<td>359</td>
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<tr>
<td>H-16-P</td>
<td>NE&lt;sub&gt;4&lt;/sub&gt;NE&lt;sub&gt;4&lt;/sub&gt;NE&lt;sub&gt;4&lt;/sub&gt; Sec. 24 T.4N., R.91W.</td>
<td>7,295</td>
<td>400</td>
<td>397</td>
</tr>
<tr>
<td>H-17-P</td>
<td>Lot #8, Sec. 22 T.4N., R.91W.</td>
<td>7,350</td>
<td>450</td>
<td>438</td>
</tr>
<tr>
<td>H-18-P</td>
<td>NW&lt;sub&gt;4&lt;/sub&gt;NW&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt; Sec. 3 T.3N., R.90W.</td>
<td>8,441</td>
<td>322</td>
<td>316</td>
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<td>H-19-P</td>
<td>NW&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt; Sec. 3 T.3N., R.90W.</td>
<td>8,465</td>
<td>460</td>
<td>300½</td>
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<tr>
<td>H-20-P</td>
<td>Lot #3, Sec. 25 T.4N., R.91W.</td>
<td>7,870</td>
<td>480</td>
<td>462</td>
</tr>
<tr>
<td>H-21-P</td>
<td>Lot #6, Sec. 27 T.4N., R.91W.</td>
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<td>397½</td>
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<tr>
<td>H-22-P</td>
<td>Lot #10, Sec. 14 T.4N., R.91W.</td>
<td>7,592</td>
<td>500</td>
<td>498½</td>
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<tr>
<td>H-24A-P</td>
<td>SE&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt;NE&lt;sub&gt;4&lt;/sub&gt; Sec. 4 T.3N., R.90W.</td>
<td>8,545</td>
<td>355</td>
<td>353</td>
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<tr>
<td>H-25-P</td>
<td>NE&lt;sub&gt;4&lt;/sub&gt;SE&lt;sub&gt;4&lt;/sub&gt;SW&lt;sub&gt;4&lt;/sub&gt; Sec. 32 T.4N., R.90W.</td>
<td>8,420</td>
<td>300</td>
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<tr>
<td>Hole No.</td>
<td>Location</td>
<td>Surface elevation</td>
<td>Depth drilled</td>
<td>Depth logged</td>
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<td>-------------------</td>
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</tr>
<tr>
<td>H-26-P</td>
<td>Lot #10, Sec. 24, T.4N., R.91W.</td>
<td>7,785</td>
<td>460</td>
<td>438</td>
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<tr>
<td>H-29-P</td>
<td>SE(\frac{1}{4})SW(\frac{1}{4})NW(\frac{1}{4}), Sec. 3, T.3N., R.90W.</td>
<td>8,480</td>
<td>285</td>
<td>282</td>
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</table>
Figure 11. Drill-hole H-11-P

Geo Dynamics
GEOPHYSICAL SERVICES
COMPANY
CASPER, WYOMING 82601

HOLE NO. OR NAME: H-11-P
FORMATION: FV-15
FIELD: SPA COM FIELD
COUNTY: STATF
LOCATION: LOT-5, SECTION: TOWNSHIP 4 N., RANGE: 91
LOG TYPE: n-S-r

DEPTH DRILLED:

DEPTH LOGGED:

BOTTOM LOGGED INTERVAL:

TOP LOGGED INTERVAL:

FLUID LEVEL:

TYPE:

BITGUAGE:

CASING:

TRUCK NO:

LOGGING SPEED, FT/MIN:

RECORDER DEPTH SCALE, FT/IN:

REMARKS:

RUN:

TOOL NO. & MODEL:

DIAMETER, INCHES:

GR DETECTOR - DENSITY DETECTOR:

SIZE CRYSTAL, INCHES:

K FACTOR:

DEADTIME, SECONDS:

TIME CONSTANT (GR) DENSITY SCALE, CPS (GR):

WATER FACTOR:

RESISTIVITY TYPE:

SPACING, INCHES:

SCALE, OHMS/INCH:

ZERO SCALE:

SP SCALE, MV/INCH:

U.S. Geological Survey
Open-file Report 1977
**Figure 13. Drill-hole H-14-P**

**Geo Dynamics**

**Geophysical Services**

**Casper, Wyoming (82601)**

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<th>LOCATION</th>
<th>TOWNSHIP</th>
<th>RANGE</th>
<th>SECTION</th>
<th>COUNTY</th>
<th>STATE</th>
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<tr>
<td>Tot</td>
<td>15</td>
<td>9</td>
<td>14</td>
<td>Moffat</td>
<td>Colorado</td>
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**LOG TYPE**

- RUN NO.
- DATE
- DEPTH DRILLED
- DEPTH LOGGED
- BOTTOM LOGGED INTERVAL
- TOP LOGGED INTERVAL
- FLUID LEVEL
- TYPE
- HOLE FLUID
- BITGUAGES
- CASING
- TRUCK NO.
- LOGGING SPEED, FT/MIN
- RECORDER DEPTH SCALE, FT/IN.

**REMARKS:**

- RUN TOOLS & MODEL
- DIAMETER, INCHES
- GR DETECTOR DENSITY DETECTOR
- SIZE CRYSTAL, INCHES
- K FACTOR
- DEADTIME, SECONDS
- TIME CONSTANT (GR) DENSITY SCALE, CPS (GR) DENSITY ZERO PLACEMENT (GR)
- WATER FACTOR
- RESISTIVITY TYPE
- SPACING, INCHES
- SCALE, OHMS/INCH
- SP SCALE, MV/INCH

**LEGEND:**

[Graph and chart depicting drill-hole data]
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<tr>
<th>DATE</th>
<th>TIME</th>
<th>GAIN</th>
<th>VOLTS</th>
<th>RESISTANCE</th>
<th>TEMPERATURE</th>
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<td>06/01</td>
<td>08:00</td>
<td>12.3</td>
<td>1.23</td>
<td>45.2</td>
<td>25.0</td>
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<td>08:05</td>
<td>12.4</td>
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<td>08:10</td>
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<td>1.25</td>
<td>45.4</td>
<td>25.2</td>
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<tr>
<td>06/01</td>
<td>08:15</td>
<td>12.6</td>
<td>1.26</td>
<td>45.5</td>
<td>25.3</td>
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GeoDynamics
GEOPHYSICAL SERVICES
CASPER, WYOMING 82011

BUFFER CA\n
NO. GC 12100
FORT WORTH, TEXAS
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<th>RUN</th>
<th>TOOL NO. &amp; MODEL</th>
<th>DIAMETER, INCHES</th>
<th>GR DETECTOR</th>
<th>DENSITY DETECTOR</th>
<th>SIZE CRYSTAL, INCHES</th>
<th>K FACTOR</th>
<th>DEADTIME, SECONDS</th>
<th>TIME CONSTANT (GR) DENSITY SCALE, CPS (GR) DENSITY / µ</th>
<th>ZERO PLACEMENT (GR) DENSITY</th>
<th>WATER FACTOR</th>
<th>RESISTIVITY TYPE</th>
<th>SPACING, INCHES</th>
<th>SCALE, OHMS/INCH</th>
<th>ZERO S P SCALE, MV/INCH</th>
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</table>

**Figure 15.** Drill-hole H-16-P

**GeoDynamics**

**Geophysical Services**

Casper, Wyoming 82601

**HOLE NO. OR NAME:** Fl FVation 7,295

**FIELD:** Yampa Coal Field

**COUNTY:** Moffat

**STATE:** Colorado

**LOG TYPE:** 

**RUN NO.:**

**DATE:**

**DEPTH DRILLED:**

**DEPTH LOGGED:**

**BOTTOM LOGGED INTERVAL:**

**TOP LOGGED INTERVAL:**

**FLUID LEVEL:**

**TYPE HOLE FLUID:**

**BIT GAUGE:**

**CASING:**

**TRUCK NO.:**

**LOGGING SPEED, FT/MIN:**

**RECORDER DEPTH SCALE, FT/IN:**

**REMARKS:**
Figure 17. Drill-hole H-18-P

**LOCATION:** WV

**LOG TYPE:**

<table>
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<tr>
<th>DEPTH LOGGED</th>
<th>DEPTH PRJ.</th>
<th>JHIN #</th>
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**COMPANY:** Geo Dynamics, Casper, Wyoming 82601

**HOLE # OR NAME:** H-18-P

**ELEVATION:** 8,441

**FIELD:** County Field

**COUNTY:** Esruwa-siry

**STATE:** WYADG

**SE$$ SECTION:** 3

**TOWNSHIP:** 3 N.

**RANGE:** 90 W.

**Date:** November 1976

**TIME LOGGED INTERVAL:** none

**BOTTOM LOGGED INTERVAL:** none

**FLUID LEVEL:** natural proundHater

**BIT GAUGE:** k-3/k

**CASING:**

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<tr>
<th>TRUCK #</th>
<th>LOGGING SPEED, FT/MIH</th>
<th>BIT GAUGE</th>
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<tbody>
<tr>
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<td>20 CR-</td>
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**LOGGING SPEED:** 306.5

**RECORDER DEPTH:**

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<th>SCALE, FT/IN.</th>
<th>TO SPACING, INCHES</th>
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**REMARKS:**

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<tr>
<th>WATER FACTOR</th>
<th>RESISTIVITY TYPE</th>
<th>RECORDER DEPTH</th>
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**GR DETECTOR:**

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<tr>
<th>SIZE CRYSTAL, INCHES</th>
<th>K FACTOR</th>
<th>SCALE, CPS (GR)</th>
<th>TIME CONSTANT (GR)</th>
<th>SCALE, OHMS/INCH</th>
<th>ZERO PLACEMENT</th>
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**RESISTIVITY TYPE:** S-DOET

**TIME CONSTANT (GR):**

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<th>SCALE, OHMS/INCH</th>
<th>ZERO</th>
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</table>
Figure 18. Drill-hole H-19-P

**Geo Dynamics**

**GEOPHYSICAL SERVICES**

**CASPERS, WYOMING 82601**

**HOLE NO. OR NAME**

**ELEVATION**

**FIELD**

**Yampa Coal**

**COUNTY**

** Moffat**

**STATE**

**Colorado**

**LOCATION**

**NORTHWESTERS SECTION 3 TOWNSHIP 3 N RANGE 90 -**

**LOG TYPE**

**RUN NO.**

**DATE**

**DECEMBER 197/**

**DEPTH DRILLED**

**DEPTH LOGGED**

**BOTTOM LOGGED INTERVAL**

**TOP LOGGED INTERVAL**

**FLUID LEVEL**

**TYPE**

**HOLE FLUID**

**BIT GAUGE**

**CASING**

**TRUCK NO.**

**LOGGING SPEED, FT/MIN**

**RECORDER DEPTH SCALE, FT/IN**

**REMARKS:**

**RUN 1**

**TOOL NO & MODEL**

**DIAMETER, INCHES**

**GR DETECTOR**

**DENSITY DETECTOR**

**SIZE CRYSTAL, INCHES**

**K FACTOR**

**DEADTIME, SECONDS**

**TIME CONSTANT (GR)**

**SCALE, CPS (GR)**

**ZERO PLACEMENT (GR)**

**WATER FACTOR**

**RESISTIVITY TYPE**

**SPACING, INCHES**

**SCALE, OHMS/INCH**

**ZERO SCALE, MV/INCH**

**L:**

![Graphical representation of drill-hole data with various measurements and parameters listed.]
Geo Dynamics
Casper, Wyoming 82601

<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Weather Conditions</th>
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<th>Activity</th>
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*Note: Further details may be available upon request.*
### GeoDynamics

**GEOPHYSICAL SERVICES**  
**CASPER, WYOMING 82601**  

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<tr>
<td>STATE</td>
<td>Colombo</td>
</tr>
<tr>
<td>LOCATION</td>
<td>I/it #10 SECTION 14 TOWNSHIP 4 N. RANGE 91 l-J.</td>
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### Log Details

- **HOLE FLUID**: 
- **BITGUAGE**: 
- **CASING**: 
- **TRUCK NO.**
- **LOGGING SPEED, FT/MIN**
- **RECORDER DEPTH SCALE, FT/IN.**

### Remarks

- **RUN NO.**
- **TOOL NO. & MODEL**
- **DIAMETER, INCHES**
- **GR DETECTOR**
- **DENSITY DETECTOR**
- **SIZE CRYSTAL, INCHES**
- **K FACTOR**
- **DEADTIME, SECONDS**
- **TIME CONSTANT (GR)**
- **SCALE, CPS (GR)**
- **ZERO PLACEMENT (GR)**
- **WATER FACTOR**
- **RESISTIVITY TYPE**
- **SPACING, INCHES**
- **SCALE, OHMS/INCH**
- **SP SCALE, MV/INCH**

### Diagram

[Graphical representation of data]
GeoDynamics
casper wyoming 82601
Geo Dynamics
casper wyoming 82601

HOLE NAME: H-25-P
ELEVATION: 8,420
COUNTY: Moffat
STATE: Colorado
SECTION: 32
TOWNSHIP: 4 N.
RANGE: 90 W.
FIELD: Uinta Coal Field
COMPANY: Geo Dynamics
Casper, Wyoming 82601

DATE: 27 September 1976
DEPTH LOGGED: 299.0
REMARKS: Top logged interval 2.0 feet
FLUID LEVEL: none
BIT GAUGE: U-3/U
TRUCK #: 1
LOGGING SPEED: 150 ft/min
RECORDER DEPTH: 12 GPM

DIAMETER: 1-9/16
GR DETECTOR: 3/5
SIGNAL CRYSTAL: 3/16
K FACTOR: 18.0
DEADTIME: 33.7 s
TIME CONSTANT (GR): 1.1
SCALE, CPS (GR): 10/lnch
ZERO PLACEMENT (GR): left
WATER FACTOR: 1.4
RESISTIVITY TYPE: None
SPACING: 12 inches
SCALE, Offs/INCH: 12
ZERO VOLTAGE: 0
SP SCALE: 10 MV/INCH

U.S. Geological Survey
Open-file Report 1977
Figure 23—Hole H-25-P
Geo Dynamics

Figure 24. Drill-hole H-26-P

HOLE NO. OR NAME Fl FVATION 7,78S

FIELD: Wyoming, USA
COUNTY: Wyoming
STATE: Wyoming
LOCATION: Lot # 1, Section 24, T-12 N., R-96 W.

LOG TYPE: F-H

RUN NO.: 1
DATE: 1977-01-01
DEPTH DRILLED: 2000 ft
DEPTH LOGGED: 1500 ft
BOTTOM LOGGED INTERVAL: 500 ft
TOP LOGGED INTERVAL: 1000 ft
FLUID LEVEL: WATER

TYPE: HOPE FLUID

BITWEIGHT: 10 lb/ft
CASING: 5" ID x 3" OD
TRUCK NO.: 1
LOGGING SPEED, FT/MIN: 200
RECORDER DEPTH SCALE, FT/IN: 1

REMARKS:

RUN: 1
TOOL NO. & MODEL: G-100
DIAMETER, INCHES: 4.0
GR DETECTOR: 1
DENSITY DETECTOR: 1
SIZE CRYSTAL, INCHES: 0.5
K FACTOR: 1
DEADTIME, SECONDS: 1
TIME CONSTANT (GR): 1
SCALE, CPS (GR): 1
WATER FACTOR: 1
RESISTIVITY TYPE: 1
SPACING, INCHES: 1
SCALE, OHMS/INCH: 1
ZERO PLACEMENT (GR): 1
SP SCALE, MV/INCH: 1
Geo Dynamics  
casper, Wyoming 82601

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<th>DRILL-HOLE</th>
<th>ELEVATION</th>
<th>DATE</th>
<th>DEPTH LOGGED</th>
<th>BOTTOM LOGGED INTERVAL</th>
<th>TOP LOGGED INTERVAL</th>
<th>FLUID LEVEL</th>
<th>lesbiary</th>
<th>DIAMETER</th>
<th>SCALE, OHMS/INCH</th>
<th>WATER FACTOR</th>
<th>RESISTIVITY TYPE</th>
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**Remarks:**