**GEOTHERMAL WELL**

Lease or Permit No. 66  
Well No. & Name ZIG ZAG No 1  

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**Location**

- **SW 1/4 NW 1/4 Sec. 14, T. 36, R. 8E, WM M.**  
- **Area Kiwanis Camp**  
- **County Clackamas**  
- **State Oregon**

**Operator or Permittee**

- **NW NATURAL GAS CO**

**Contractor**

- **AMERICAN DEEP DRILLING (SKYLES DRILLING - OREGON CITY)**

**Type and Model Rig**

- **CYCLONE TH 100 - depth capacity 2500'**

**Casing**

- **Type** 8" Water Well  
- **Size** 1/4" wall  
- **Date Set** 6/13/79  
- **Amount** 200'

**No. of Sacks Used**

- 100 sax  

**Returns to Surface?**

- Yes

**Flowout Preventer**

- **Type**  
- **Date Tested & Witnessed**

**Tested Pressure**

- **psi**

**Time Interval**

- **minutes**

**Kill Line**

- 

**Slowdown Line**

- "Cement" Value

**Mud Pit**

- **Type**  
- **Size**  
- **Type of Mud**

**Measurement of Flow Line Temperature**

- **Temperature In**
- **Temperature Out**

**If drilling with air then bottom hole temperature**

- 

**Safe Operation**

- 

**Housekeeping**

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**Remarks (Continue on back if necessary)**

- Some water at 40°, cemented off, intrusive @ 35°

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**Contractor Representative**  
**Operator Representative**  
**USGS Representative**  

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**Date of Inspection**