

**TVD**  
**1:240**  
**Feet**

**Client:** Woosley Operating Compa

Well Name: Miller D #2H

Field:

|                             |                   |                        |
|-----------------------------|-------------------|------------------------|
| Location:                   | Barber County, KS | Company Representative |
| Country:                    |                   | Mike                   |
| Prov/State:                 | KS                |                        |
| County:                     | Barber County     |                        |
| Drilling Rig #:             | Dan D 11          | Geologist              |
| Latitude:                   | 2602848           | Bill                   |
| Longitude:                  |                   |                        |
| UWI/API:                    |                   |                        |
| License/Permit#:            |                   | Directional Drillers   |
| Job No:                     | OK12088           | Heath Marshall         |
| Vertical Section Direction: | 0                 | Mark Sanders           |
| KB:                         | 0                 |                        |
| DF:                         | 0                 |                        |
| GL:                         | 0                 |                        |
| Permanent Datum:            | 0                 | MWD Operator           |
| Drilling Measurement From:  |                   | Shane Lewis            |
| Magnetic Declination:       | 4.88              | Derek Harris           |
| Mag Field:                  | .518062           |                        |
| Dip Angle:                  | 65.18             |                        |
| Spud Date:                  | -                 |                        |
| Print Date:                 | 7/24/2012         |                        |
| Log Start Depth:            | 4020              | Leg Name               |
| Log End Depth:              | 5100              | Main Leg               |
| Comments:                   |                   |                        |

| BitRun:              | 1          | 2          | 3          | 4          |
|----------------------|------------|------------|------------|------------|
| Start Depth:         | 0          | 4791       | 5210       | 6381       |
| End Depth:           | 4791       | 5210       | 6381       | 7420       |
| Start Date:          | 2012/07/08 | 2012/07/12 | 2012/07/14 | 2012/07/17 |
| End Date:            | 2012/07/12 | 2012/07/13 | 2012/07/17 | 2012/07/19 |
| Gamma Scale Factor:  | 3          | 3          | 2          | 2          |
| Survey-to-Bit (PTB): | 43         | 50         | 47         | 47         |
| Gamma-to-Bit (GTB):  | 31.21      | 38.38      | 35.62      | 36.01      |
| Drill Collar ID/OD:  | 6.5        | 6.5        | 4.75       | 4.75       |
| Hole Size:           | 0          | 0          | 0          | 0          |
| Casing Size:         | 0          | 0          | 0          | 0          |
| Casing Start Depth:  | -          | -          | -          | -          |
| Casing End Depth:    | -          | -          | -          | -          |
| Mud Type 1:          | -          | -          | -          | -          |
| Mud Weight 1:        | -          | -          | -          | -          |
| Mud Viscosity 1:     | -          | -          | -          | -          |
| Mud Type 2:          | -          | -          | -          | -          |
| Mud Weight 2:        | -          | -          | -          | -          |
| Mud Viscosity 2:     | -          | -          | -          | -          |
| Comment:             | -          | -          | -          | -          |

| BitRun:              |            | 5          | 6 |  |  |
|----------------------|------------|------------|---|--|--|
| Start Depth:         | 7420       | 8459       |   |  |  |
| End Depth:           | 8459       | 9300       |   |  |  |
| Start Date:          | 2012/07/20 | 2012/07/22 |   |  |  |
| End Date:            | 2012/07/22 | 2012/07/24 |   |  |  |
| Gamma Scale Factor:  | 2          | 2          |   |  |  |
| Survey-to-Bit (PTB): | 48         | 49         |   |  |  |
| Gamma-to-Bit (GTB):  | 36.33      | 37.14      |   |  |  |
| Drill Collar ID/OD:  | 4.75       | 4.75       |   |  |  |
| Hole Size:           | 0          | 0          |   |  |  |
| Casing Size:         | 0          | 0          |   |  |  |

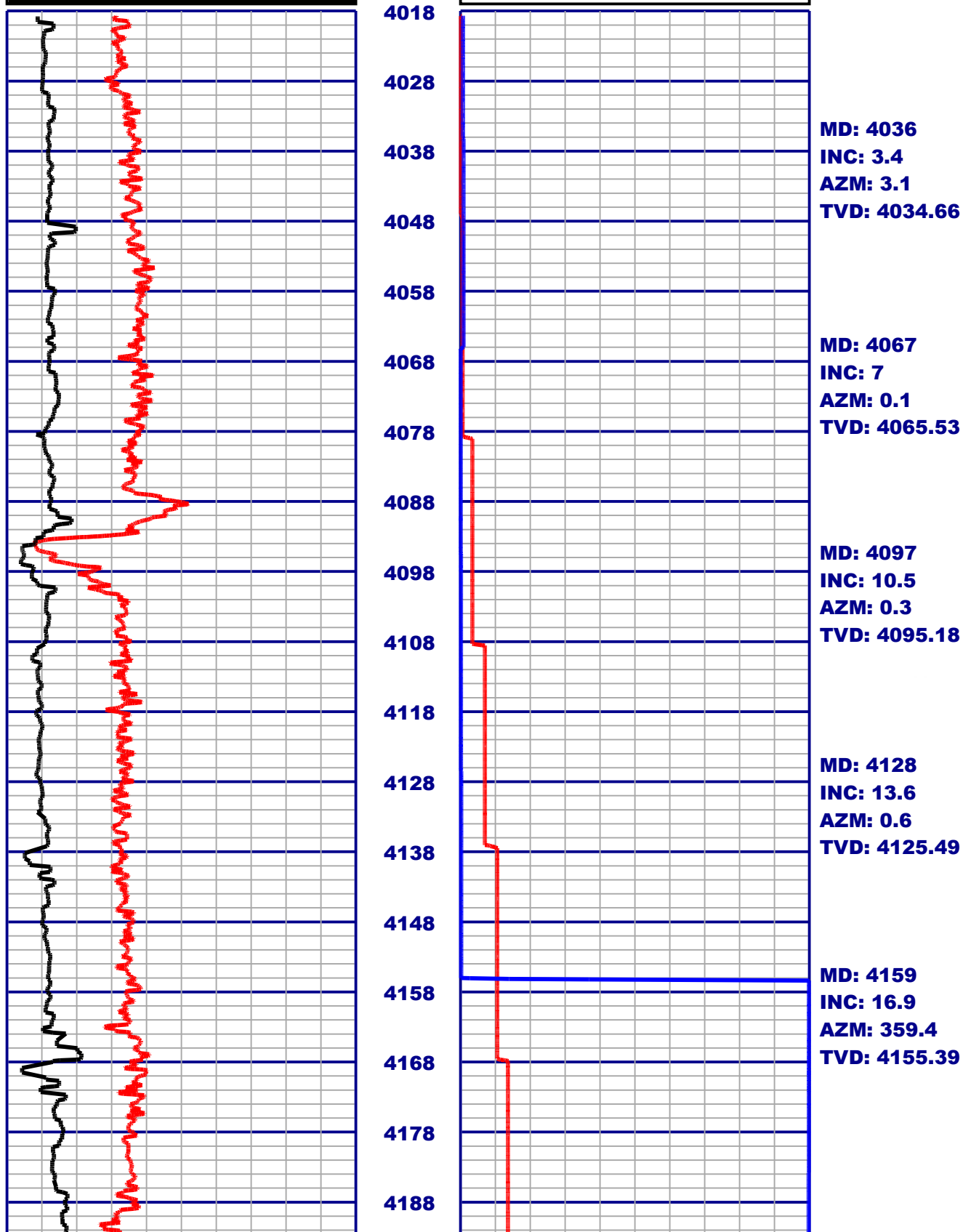


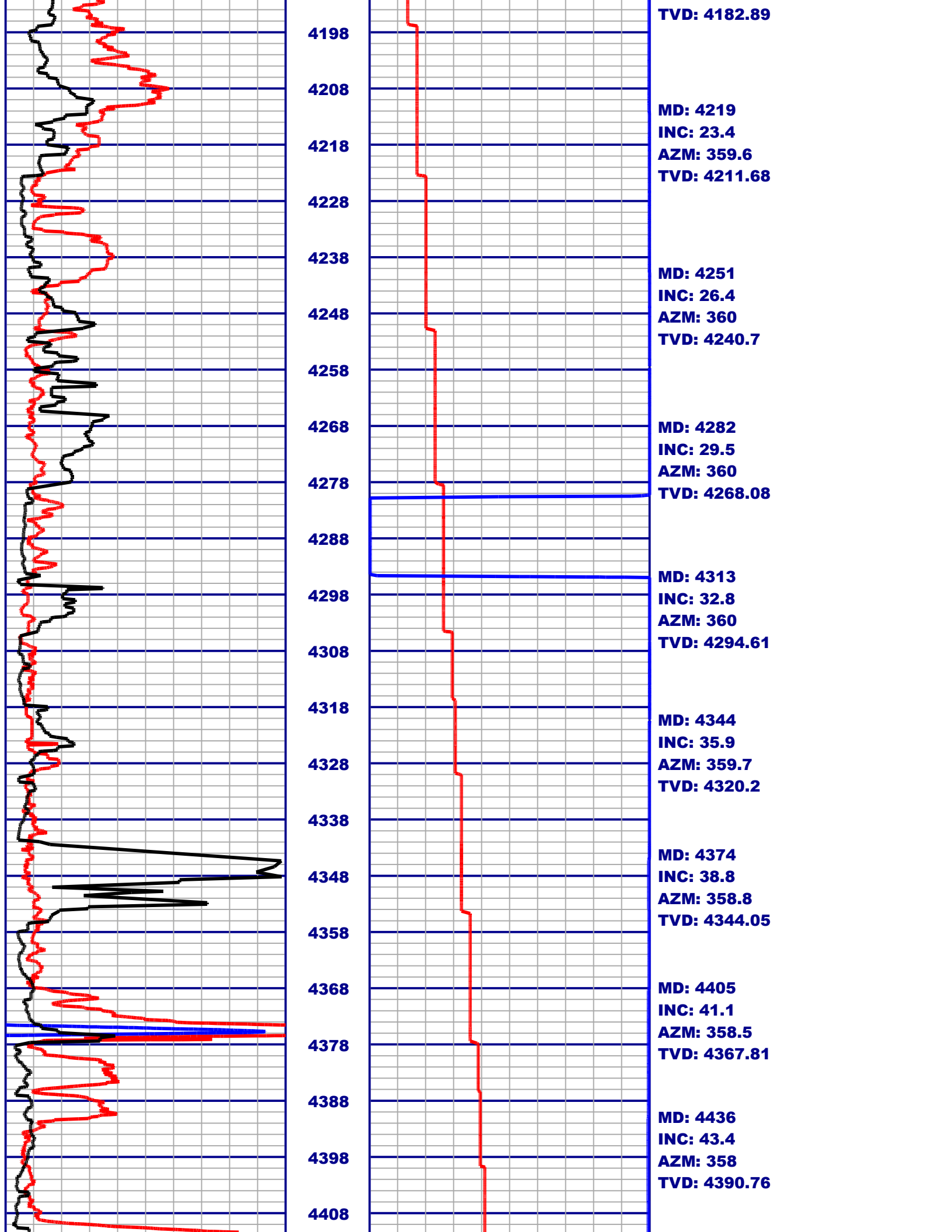
Woolsey Operating Compay  
Woolsey Operating Company  
Barber County, KS  
Miller D #2H

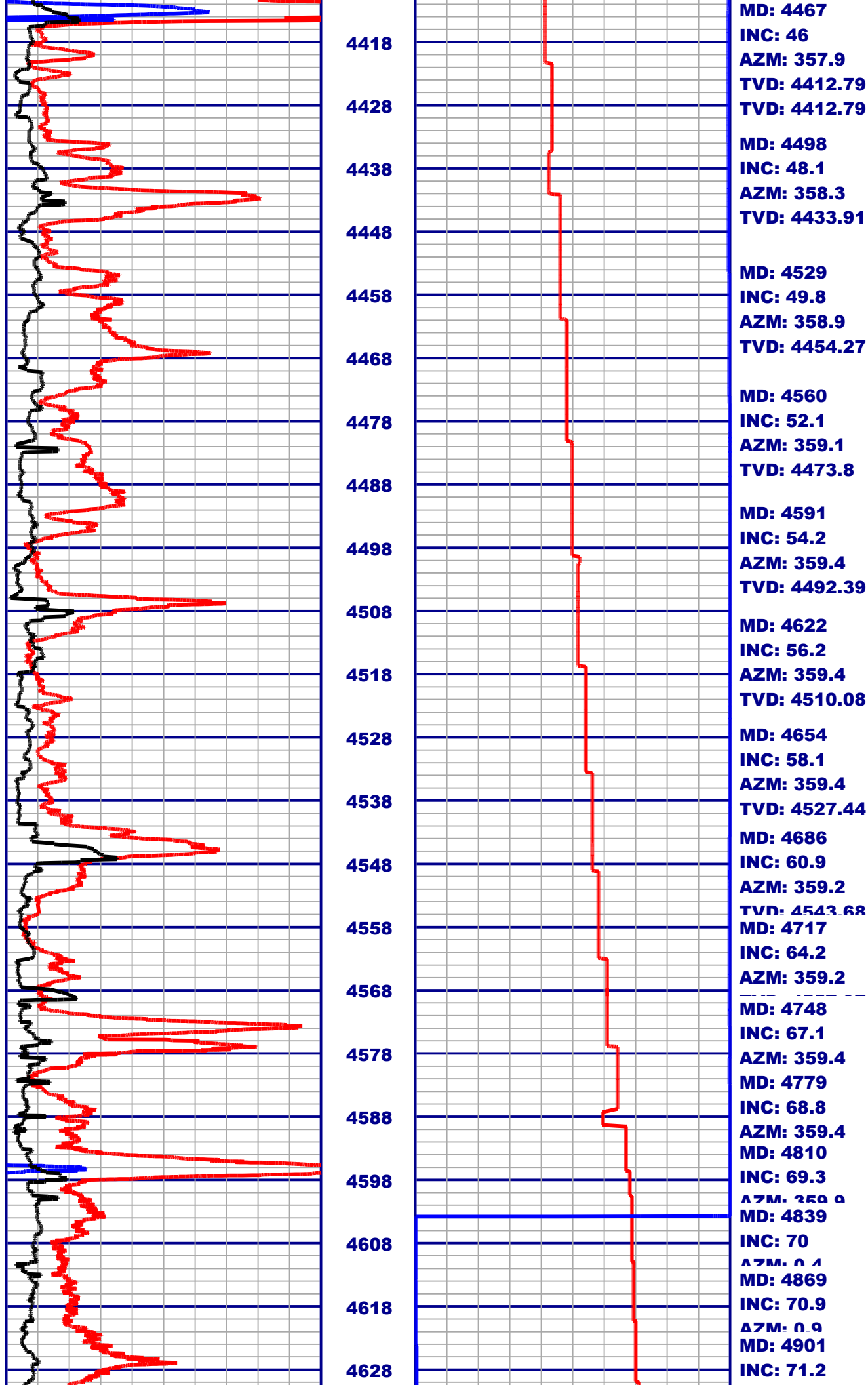
**TVD**  
**1:240**  
**Feet**

|     |                 |     |
|-----|-----------------|-----|
| 0   | Gamma (AAPI)    | 150 |
| 150 | Gamma (AAPI)    | 300 |
| 300 | Gamma (AAPI)    | 450 |
| 0   | ROP (ft per hr) | 200 |

|   |                   |     |
|---|-------------------|-----|
| 0 | Inclination (deg) | 100 |
| 0 | Azimuth (deg)     | 360 |









4638

4648

4658

4668



AZM: 1.3  
MD: 4931  
INC: 71.9  
AZM: 1.3  
MD: 4963  
INC: 72.7  
MD: 4994  
INC: 74.2  
MD: 5023  
INC: 76.8  
AZM: 1.7  
TVD: 4659.29