



Precision Directional Services Inc

PDSI
27610 Commerce Oaks Drive
Oak Ridge North, TX 77385

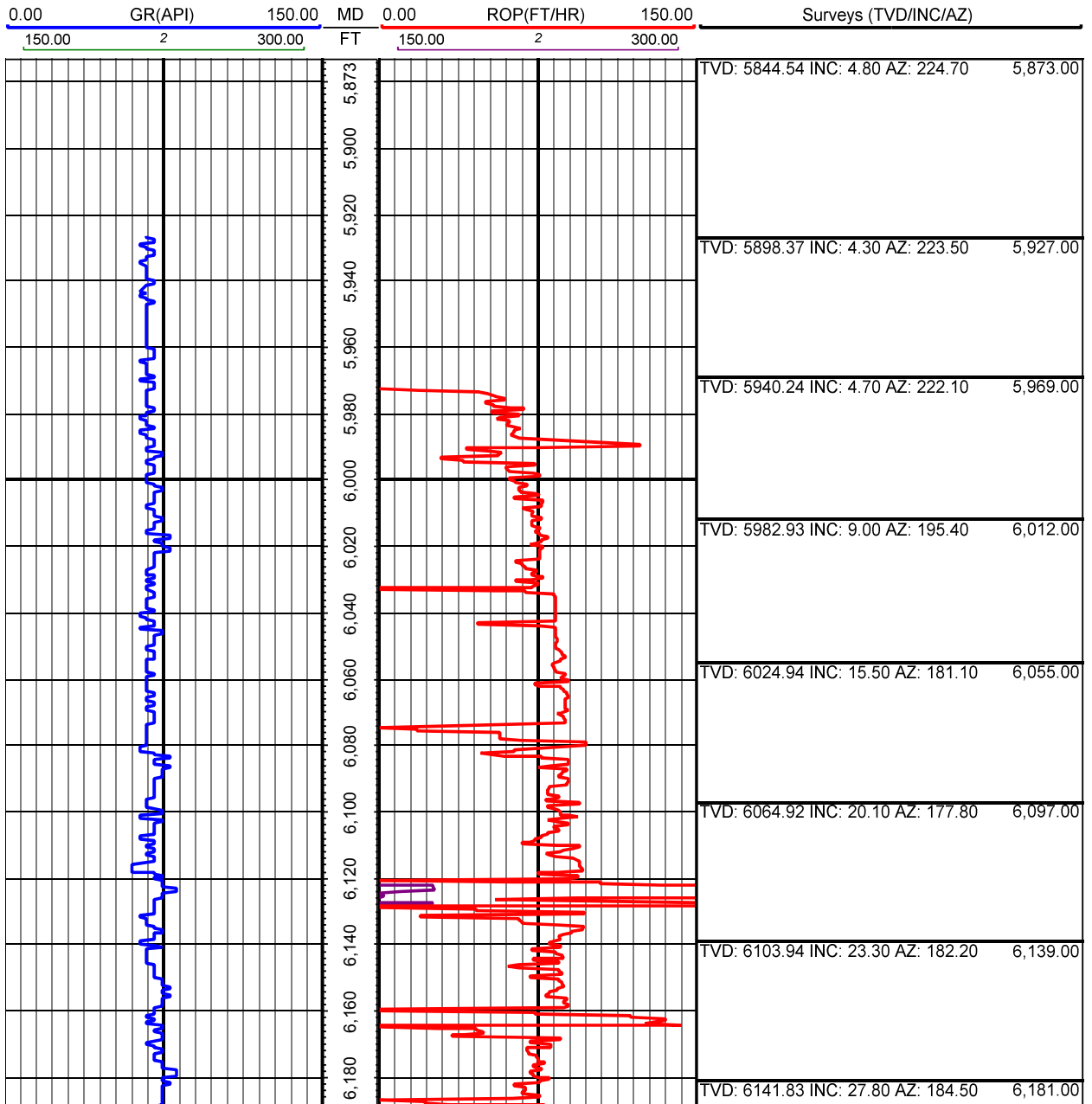
DL1397

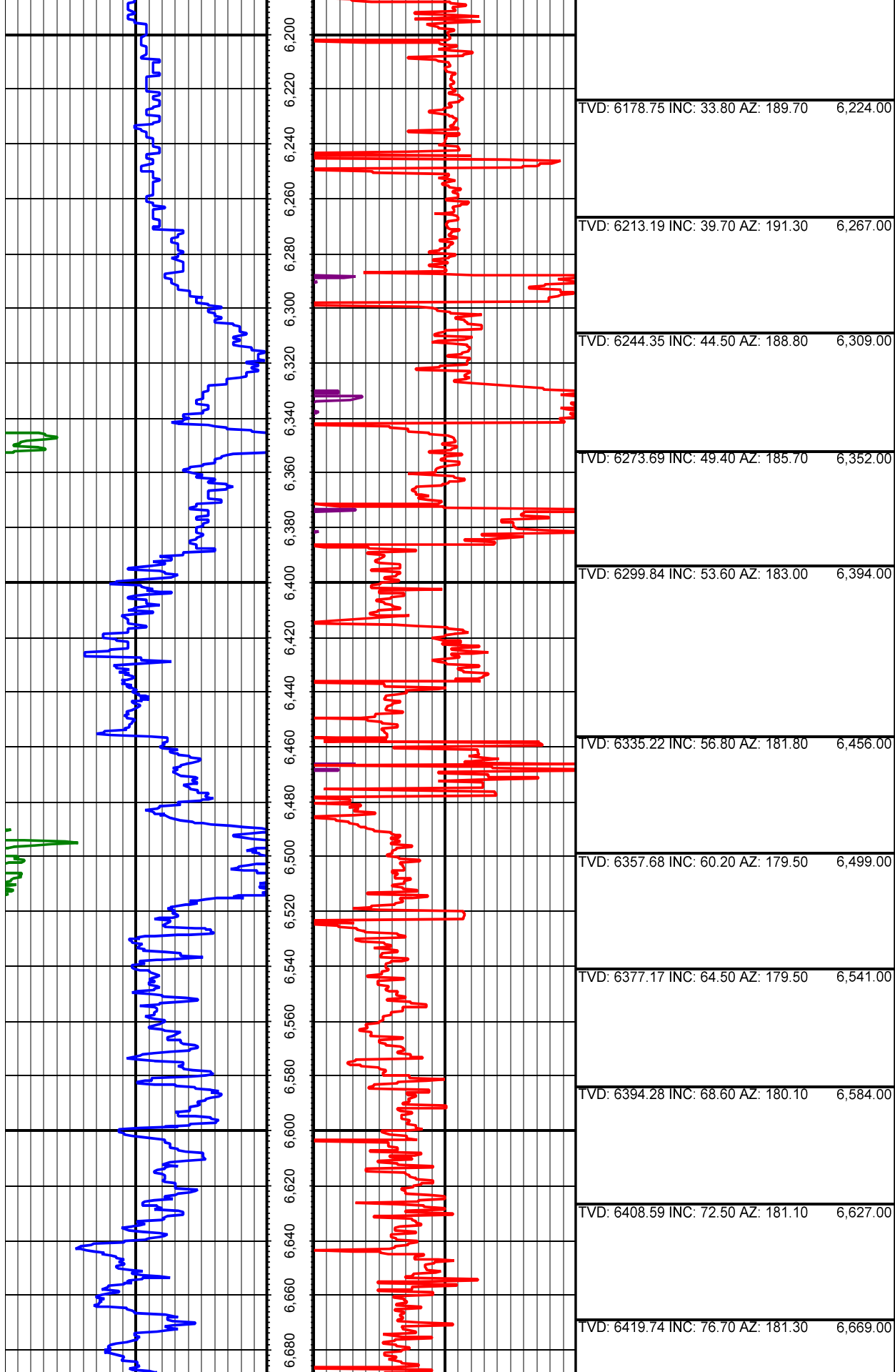
2":100' - MD
12/1/2012 3:26:33 AM

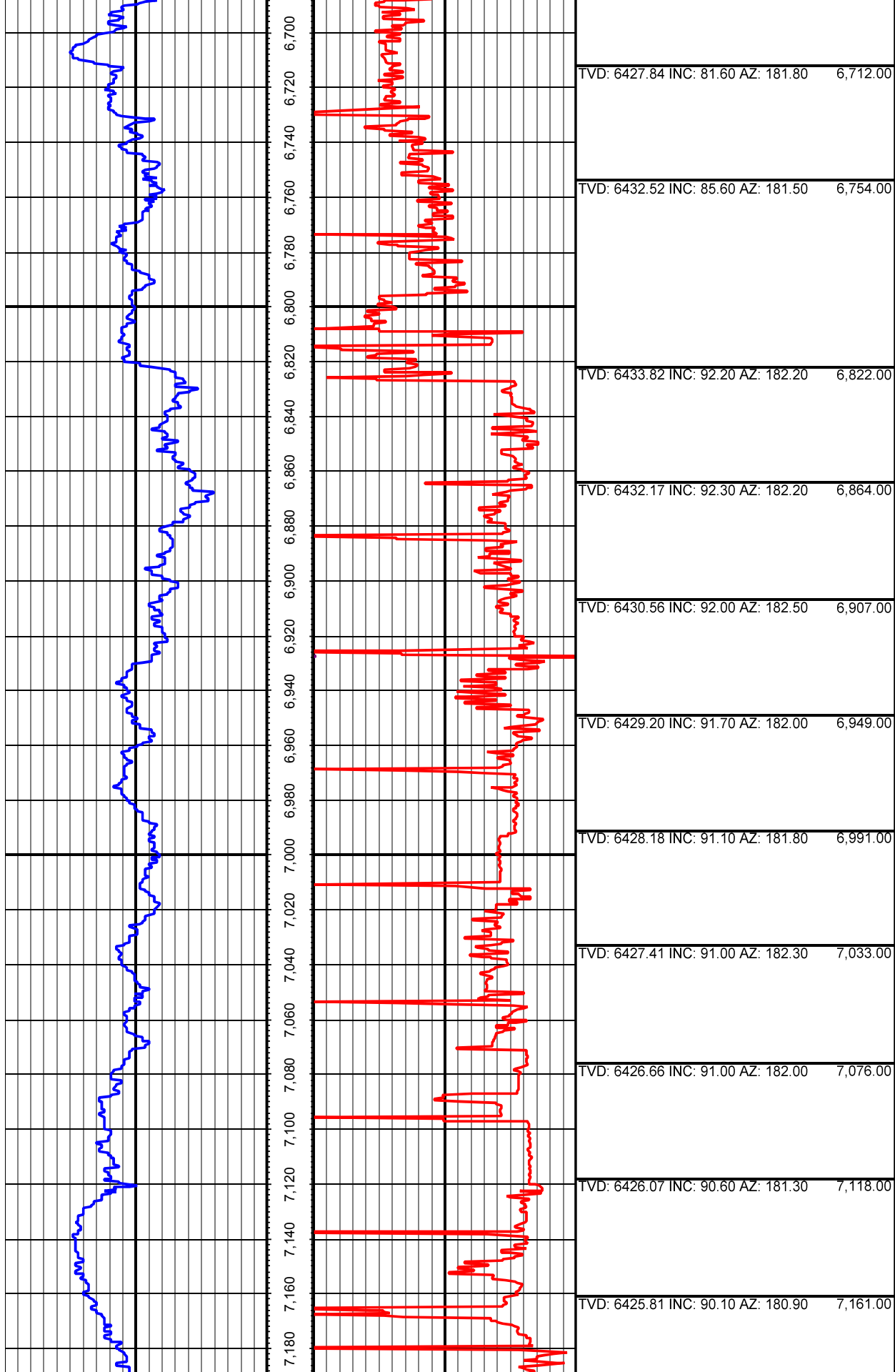
Oper. Company: Carrizo Oil & Gas
Country: USA
State / Province: CO
County / Parish: Weld

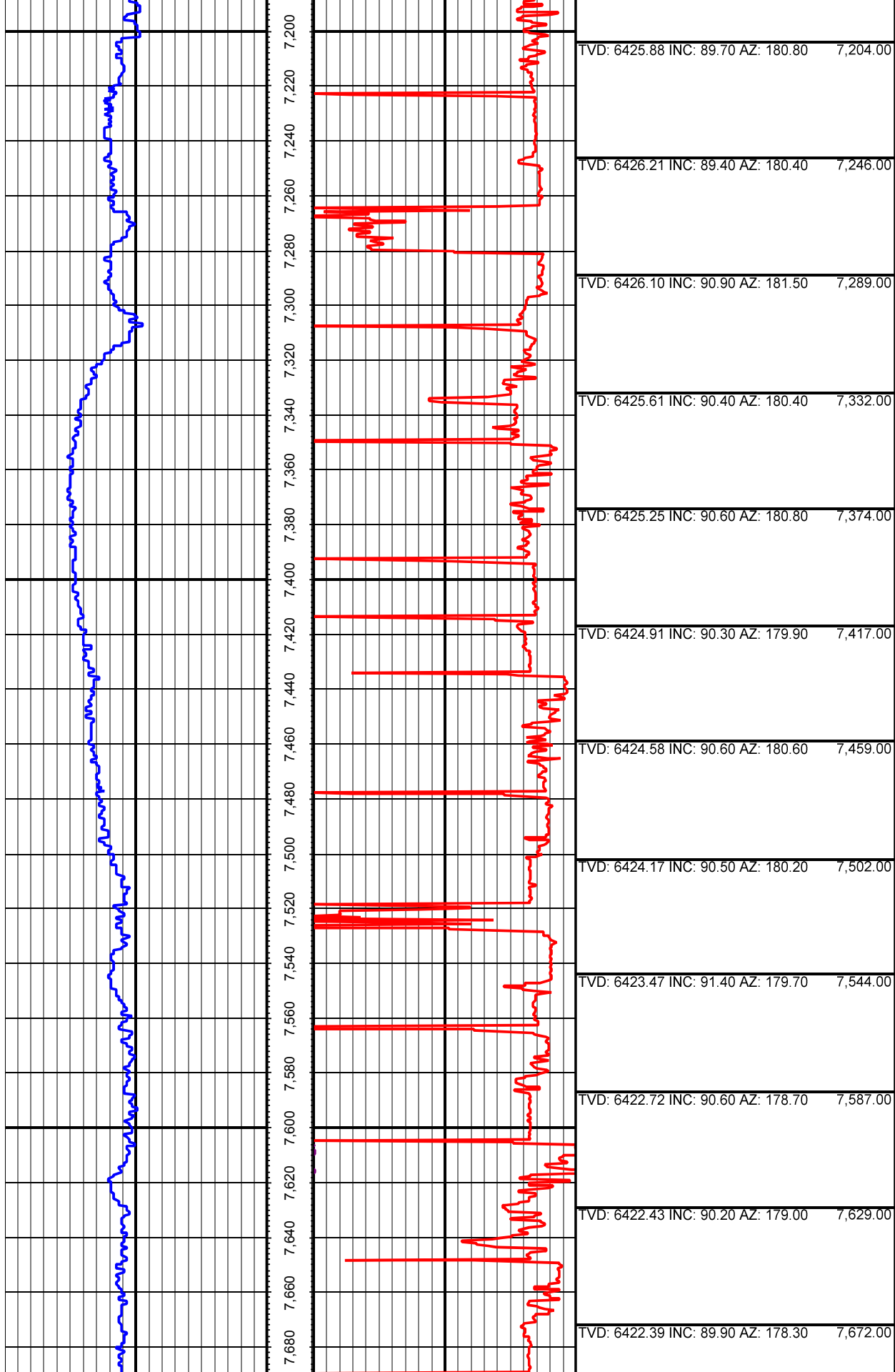
API/UWI: 05-123-36256
Field: NIOBRARA CONZ'83
Well: Nelson 1-20-9-60 ST-1
Rig: Xtreme 19

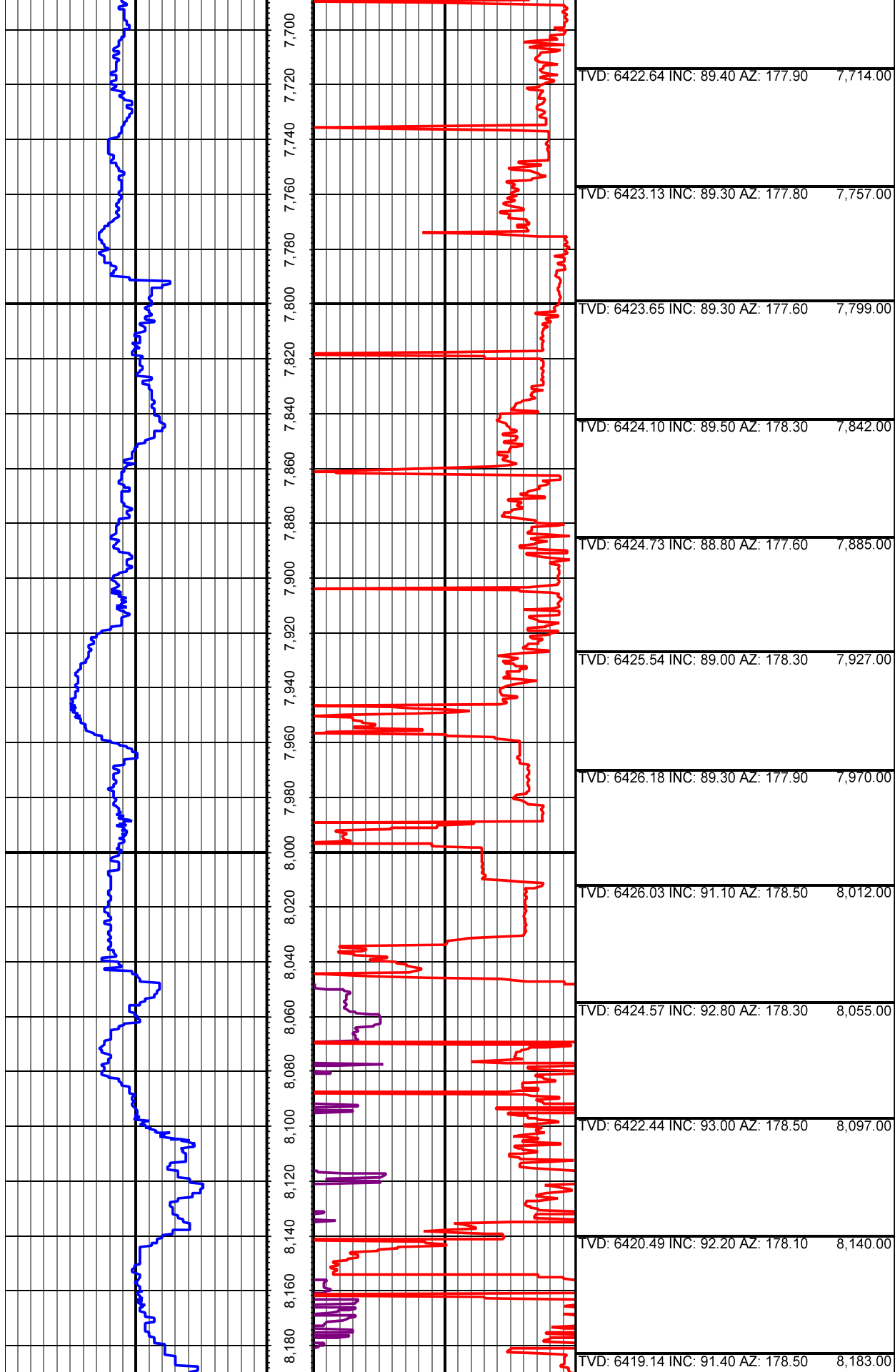
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.

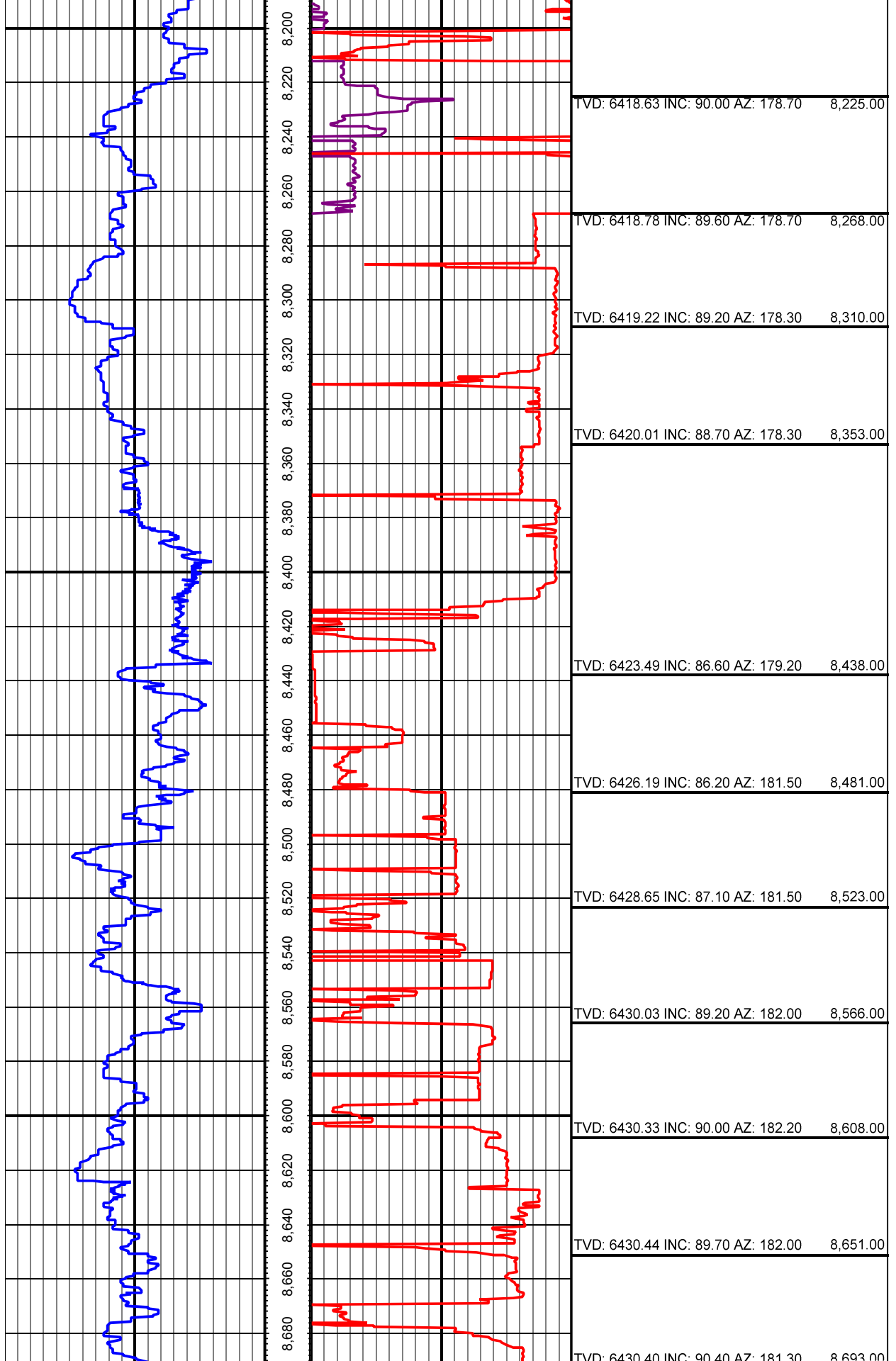


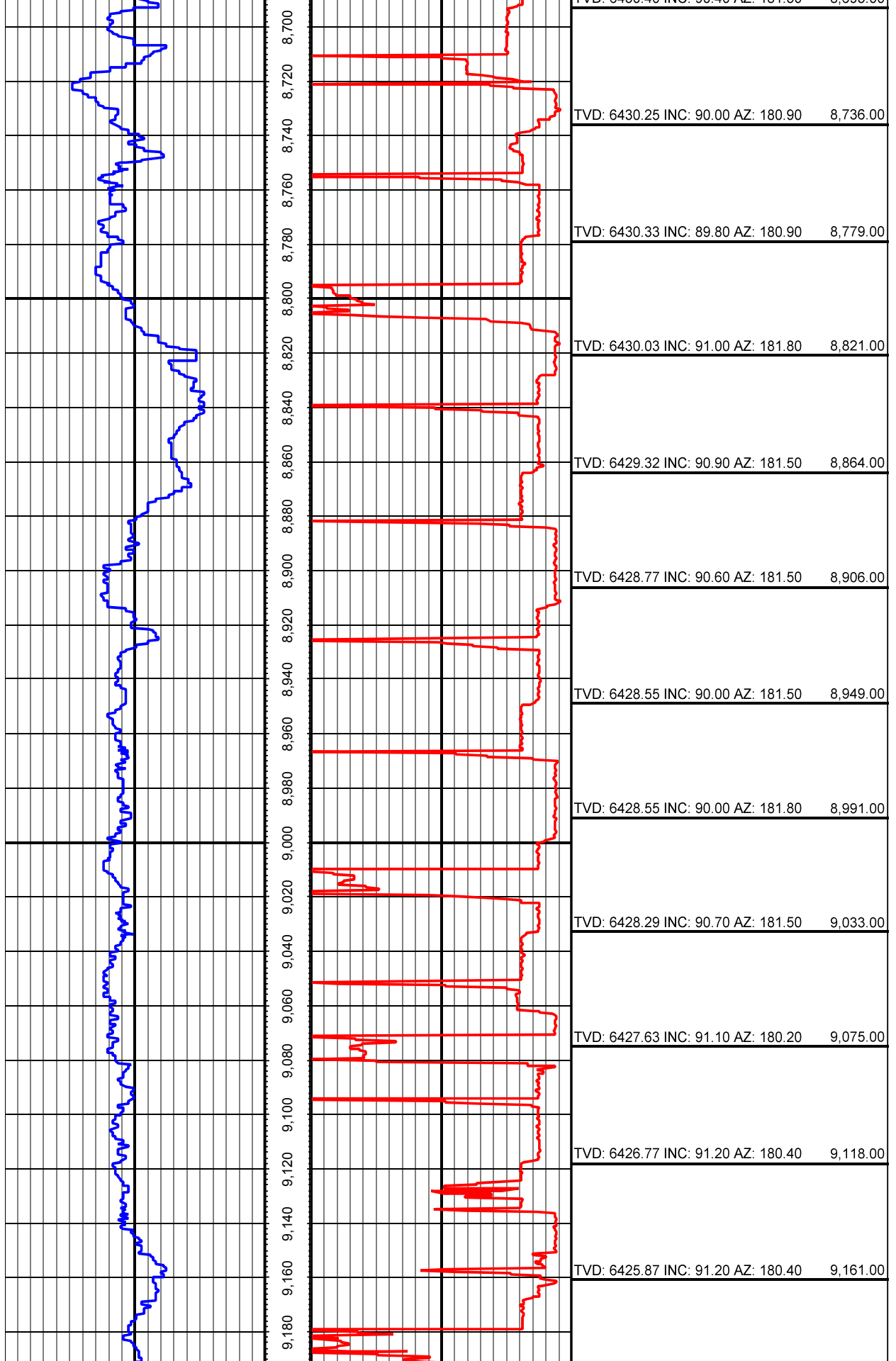


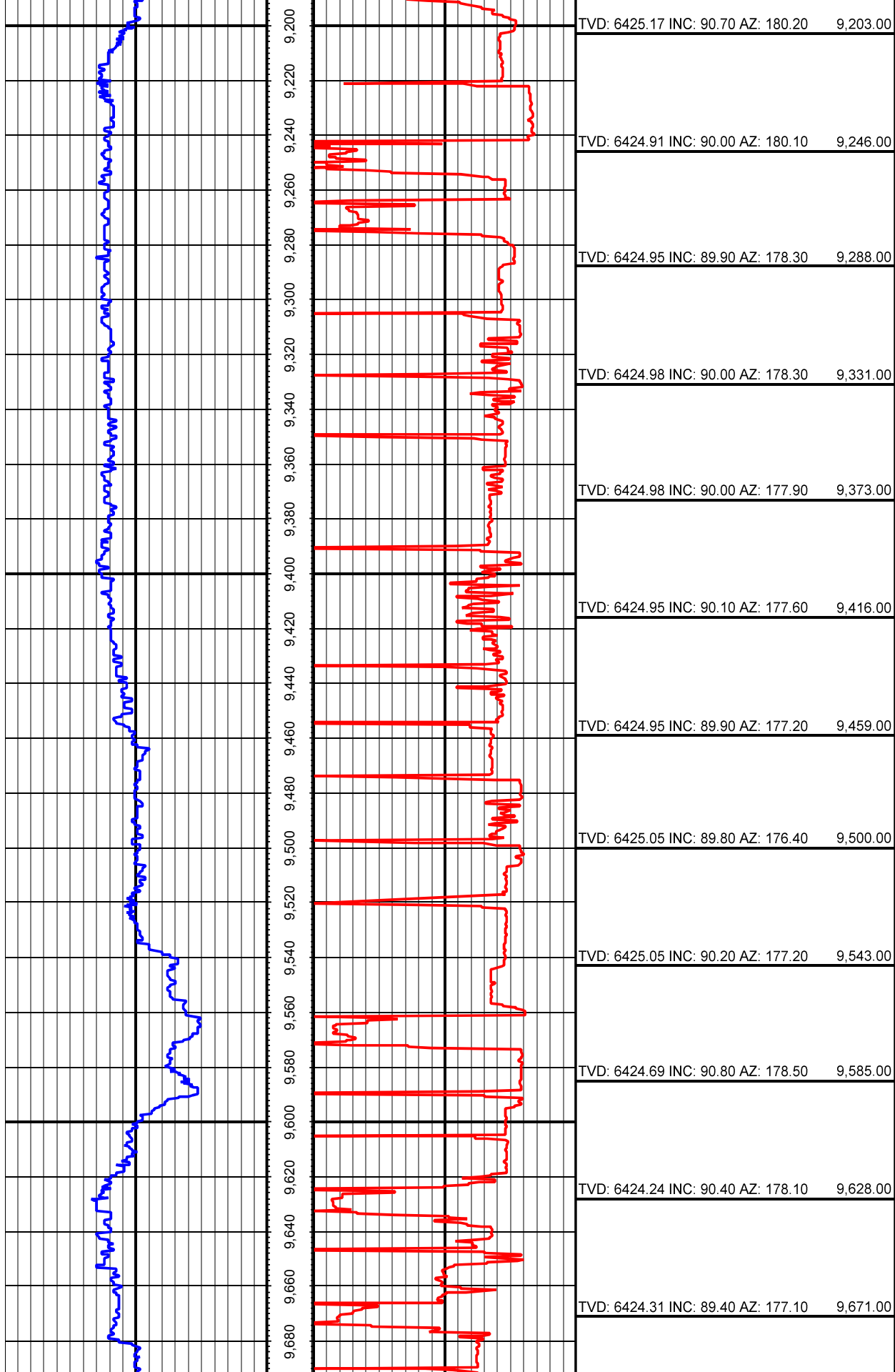












TVD: 6425.17 INC: 90.70 AZ: 180.20 9,203.00

TVD: 6424.91 INC: 90.00 AZ: 180.10 9,246.00

TVD: 6424.95 INC: 89.90 AZ: 178.30 9,288.00

TVD: 6424.98 INC: 90.00 AZ: 178.30 9,331.00

TVD: 6424.98 INC: 90.00 AZ: 177.90 9,373.00

TVD: 6424.95 INC: 90.10 AZ: 177.60 9,416.00

TVD: 6424.95 INC: 89.90 AZ: 177.20 9,459.00

TVD: 6425.05 INC: 89.80 AZ: 176.40 9,500.00

TVD: 6425.05 INC: 90.20 AZ: 177.20 9,543.00

TVD: 6424.69 INC: 90.80 AZ: 178.50 9,585.00

TVD: 6424.24 INC: 90.40 AZ: 178.10 9,628.00

TVD: 6424.31 INC: 89.40 AZ: 177.10 9,671.00

