Tucker.

Tucker Energy Services
Wireline & Perforating
Well Site Sketch

Well Name: K-13-17-D
Date: 2-2-2010
Time: 12:00 AM
Engineer: Chris Cooper

Gun Data:

Gun Type: 2 1/8" HSD
Charge Type: Deep Penetrating
Charge Weight: 18.5 grams
Shot Density: 6 SPF
Phase: 60 Degrees
Perforation Diameter: 0.34 inch
Penetration: 23.7 inches

Perforation Interval:

Zone: Mesaverde
Top Perf: 5,000 ft
Bottom Perf: 5,400 ft
Total Perforations: 12 holes

Gamma Ray Data:

Gamma Ray Source: Schlumberger Dual Induction Log
Date: 2-2-2010
Time: 12:00 AM
Log Interval: 5,000 ft - 5,400 ft

Casing Pressure:

Casing Pressure: 0 psi

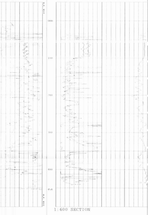
Comments:

Perforated Mesaverde formation in the K-13-17-D well using 2 1/8" HSD deep penetrating charges at 6 SPF, 60 degrees phase. Total perforations: 12 holes. Gamma ray log used for depth correlation.

Shot Firing Schematic

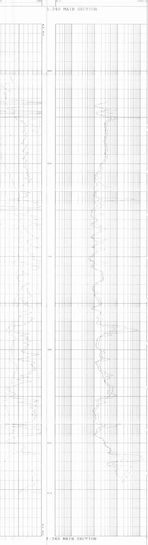
Shot 1: Depth: 5,400 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 2: Depth: 5,395 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 3: Depth: 5,390 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 4: Depth: 5,385 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 5: Depth: 5,380 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 6: Depth: 5,375 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 7: Depth: 5,370 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 8: Depth: 5,365 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 9: Depth: 5,360 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 10: Depth: 5,355 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 11: Depth: 5,350 ft, Time: 00:00:00.000 s, Delay: 0.000 s
Shot 12: Depth: 5,345 ft, Time: 00:00:00.000 s, Delay: 0.000 s

1:600 SECTION



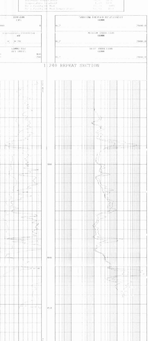
1:600 SECTION

1:240 MAIN SECTION



1:240 MAIN SECTION

1:240 REPEAT SECTION



1:240 REPEAT SECTION