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Core description for the Schulein No. 1-B Harden  
150 ft. south of NE-SE Sec. 18-32S-21W Clark Co., Kansas  
Spud 3-27-80 Comp.4-12-80 RTD 6590 LTD 6578

Note: core appears to have two sets of depth measurements, one in purple and one in black. I have used the black numbers and assume that the core starts at 6428.00 ft. I have sampled every 0.5 ft. unless otherwise noted.

Box 1 of 5 6428 to 6433

6428.0 Shale, hard, noncalcareous, med. gray, montmorillanitic,  
to 28.12 translucent edges. Faint impression of fenestrate  
bryozoans on both sides of pc. Large vertical fracture  
runs out of the core at 28.75.

at 28.3 Fenestrate bryozoan

at 28.4 Large fenestrate bryozoan, possible polyporan bryozoan,  
small finely crystalline pyrite

at 29.3 Shale. A.A., at 29.0 on top of pc. 0.4 inch diameter  
spiny echinoderm??? carbonaceous imprint

to 29.6 Lost

at 29.6 Two large fenestrate bryozoans

at 29.85 Conodont on bottom of pc. with "29 to 30" written on it  
(last pc. in right hand column of box)

at 30.0 Hemitrypa? bryozoan

at 30.5 Two fragments of fenestrate bryozoans

at 31.0 Just shale

at 31.5 Trilobite free cheek fragment?, many fenestrate bryozoans

at 32.0 Solitary conodont on bottom of pc.

at 32.5 Shattered core

- to 32.65 Indistinct carbonaceous marking
- at 33.0 Spiny echinoderm??, possibly three individuals plus broken fragments
- to 33.5 All shale, no fossils, pc.s don't fit together.

Box 2 of 5  
6433.5 to 6439

(middle partition seems to be numbered up side down)

- at 34.0 Scattered foss. hash, two large fenestrate bryozoans
- at 34.5 Faint unidentifiable carbonaceous markings
- at 35.0 Very small conodont on top of pc. with "6435" marked on it. Beginning of large vertical fracture which continues through the remainder of the core.
- at 35.5 Fenestrate bryozoan, scattered indistinct fossils
- at 36.0 Shale, A.A., no fossils
- at 36.5 A.A., few scattered carbonaceous fragments
- at 37.5 Possible conodont, fracture cuts through 1/3 of core
- at 37.5 indistinct sunburst-like fossil
- at 38.0 Shale, A.A.
- at 38.5 Shale, massive, medium to dark gray, no fossils
- at 39.0 Shale, A.A., 1" greenish band across bottom of pc., fracture is working toward side of core

Box 3 of 5  
6439 to 6445

(vertical fracture runs through entire core)

- at 39.5 Shale, hard, slightly calcareous or dolomitic, medium gray to greenish, small brachiopod fragment on top of pc. Fracture almost runs out of core at base of pc.
- at 40.0 Conodont at center of pc. with "40" in black marker, appears to be same species as seen at 6432. Fracture running back toward center of core
- at 40.5 Shale, A.A., rare carbonaceous imprints
- at 41.0 Shale, fracture nearly bisects core
- at 41.5 Faint fenestrate bryozoan, missing core at base, core is badly broken

42 .0      badly broken or missing  
to 42.5

at 43.0      Shale. A.A., odd bulge in fracture

at 43.5      Shale, A.A., losing greenish cast

at 44.15      Conodonts, possibly both halves

at 44.5      Shale, A.A., small pc.s of fossiliferous hash on top of  
pc., for first time in core pc.s are not broken straight  
across the core but are very irregularly broken, increasing  
shale content??

44.6 to .7      Missing section

at 45.0      Shale A.A., no fossils, irregular breaks

Box 4 of 5  
6445 to 6451  
(Vertical fracture runs throughout the core)

to 45.5      Shale, medium gray, limy, irregular breaks

to 45.85      Core partially missing

to 46.0      Shale, A.A., no fossils, several places where core broke  
and spun in the barrel

at 46.0      Shale, A.A.

at 46.35      Unidentified pyritized fossil

at 46.5      Shale A.A., some missing section

at 47.0      Shale, A.A., few small calcite crystals

47.3 to      missing  
47.95

at 48.0      Shale, A.A.

at 48.5      Back to horizontal breaks

49.0      Shale, A.A.

at 49.15      Sulfurous nodule

at 49.5      Shale, A.A., rare obscure carbonaceous imprints

at 50.0      Irregular breaks, unidentified fossil

at 50.0      Shale, A.A.

at 51.0 Shale, A.A., fracture running out of core

Box 5 of 5  
6451 to 6454

Most of box is fragments in plastic bags. Remainder of core is badly broken and shattered.

6452 to 6453 Shale A.A., no visible fossils, 1 to 2" "hockey pucks", picking up fracture in last 1/2 foot

6454 in bag Shale, A.A.