FORMATION LOG

Petrotrust #1 Davis "B"
NW NE SE; 30-33S-10E
Chautauqua County, Kansas
Elevation: 1061 Kelly Busing.

4½" Csg 2168' w/150 sx
8 5/8" Surface Casing 41'
Comm: 11-13-56
Comp:

NOTE: All measurements are taken from the top of the kelly bushing which is 10.5' above the ground.

Depth	Formation Description	Remarks
0 - 42	Surface hole	Drillers log 0-1200'
42 - 112	Limestone and shale	
112 - 512	Limestone, shale, red beds and sand streaks	
512 - 1000	Shale and limestone	
1000 - 1135	Shale, limestone and sand streaks	
1135 - 1200	Shale and sand	
1200 - 38	Shale, gray	Sample log 1200 to T.D.
1238 - 57	Sand, fine, gray, well sorted, tight, very shaly	Top Stalnaker 1238
1257 - 66	Sand, very fine, tight, slightly micaceous, dolomitic; much fine gray siltstone	
1266 - 79	Shale, gray, sandy	
1279 - 85	Sand, as above, very shaly	
1285 - 90	Shale, as above	
1290 - 99	Sand, very fine, gray, argillaceous, dolomitic, finely micaceous, porous	No show
1299 - 1306	Shale, gray, sandy	
1306 - 43	Sand, gray, coarse to fine, angular to rounded, micaceous, speckled with many small green and dark gray mica plates; some black shale plates	No show
1343 - 48	Shale, light to dark gray, sandy	
1348 - 55	Limestone, gray to tan, subcrystalline, very sandy, grading into very calcerous sand	
1355 - 1420	Shale, light to dark gray, some brown, few thin streaks finely micaceous siltstone	
1420 - 32	Limestone, brown to gray subcrystalline to dense, very fossiliferous	Plattsburg

Depth	Formation Description	Remarks
1432 - 1434	Shale, gray	
1434 - 45	Sand, brown to gray, fairly coarse to submecium, angular to sub-rounded, dolomitic	Layton, no show
1445 - 54	Sand, as above, finer toward bottom, very shaly	
1454 - 66	Shale, brown to gray	
1466 - 72	Limestone, brown, dense, blocky, argillaceous	Top Kansas City "Lime" 1466
1472 - 1523	Shale, light to dark gray, trace brown shale; few plates brown coarsely crystalline shaly lime-stone	
1523 - 32	Limestone, medium to finely crystal-line; brown	Base Kansas City 1532
1532 - 60	Shale, dark gray; few thin streaks dark brown to brown-black, crypto-oolitic, resinous limestone 1542-48	
1560 - 65	Limestone, cream to tan, finely crystalline to subcrystalline, fos-siliferous	Lenapah
1565 - 74	Shale, gray to gray-green, silty	
1574 - 87	Sand, medium to submedium, light gray, slightly micaceous, argillaceous, subrounded to subangular, very shaly 1578-81	Wayside; spotted saturation 1581-87
1587 - 1626	Shale, gray; few thin streaks shaly sand, as above	
1626 - 38	Limestone, tan to buff, subcrystal-line to finely crystalline, fos-siliferous	Top Altamont 1626
1638 - 40	Shale, light to dark gray	
1640 - 48	Limestone, cream, subcrystalline, very fossiliferous; good porosity in coral tubes	No show
1648 - 53	Limestone, tan, subcrystalline to dense	
1653 - 1743	Shale, gray, very micaceous to shale, gray-green; thin streaks fine to sub-medium, slightly dolomitic, shaly sand	
1743 - 60	Limestone, cream to tan, sub-crystalline, chalky	Pawnee
1760 - 95	Shale, light to dark gray; trace gray, medium to submedium very calcareous sand	

Depth	Formation Description	Remarks
1795 - 1804	Limestone, tan to gray, finely crystalline; calcitic , very fossiliferous, mostly coral; spotted good inter-fossiliferous porosity 1798-1804	Top Ft. Scott 1795 Good odor and good spotted stain
1804 - 23	Limestone, tan to brown, finely crystalline, fossiliferous	
1823 - 44	Limestone, as above; streaks light to dark gray shale	
1844 - 51	Shale, brown-black, soft, blocky, carbonaceous	Top Cherokee 1844
1851 - 56	Limestone, tan to buff, subcrystal-line, fossiliferous	
1856 - 79	Shale, light to dark gray, pale green and brown	
1879 - 82	Sand, fine to submedium, gray, shaly	
1882 - 94	Shale, gray to black; some lignite	
1894 - 1908	Sand, gray to brown, submedium, micaceous; calcareous; grades into brown to gray subcrystalline, sandy limestone	
1908 - 43	Shale, light to dark gray; thin interfingered streaks fine gray silty micaceous sand	
1943 - 55	Much gray-green, finely micaceous siltstone and silty sand	
1955 - 2057	Shale, gray-green to dark gray	
2057 - 69	Shale, red-brown to gray; trace gray-green sandy shale	
2069 - 2102	Shale, light to dark gray to olive	
2102 - 19	Chert, blue-gray to tan, subvitreous to semi-devitrified; chert, tan to gray, vitreous to subvitreous; much blue-gray, medium crystalline to finely crystalline silicified dolomite; porous 2107-17	Top Mississippi 2102; much gilsonite, fair show free oil, good odor; D.S.T. #1
2119 - 33	Chert, brown to blue-brown, vitreous to white, subvitreous, figured; some silicified dolomite, as above	Good odor, fair show light brown free oil, much gilsonite; D.S.T. #2
2133 - 60	Limestone, gray, coarsely crystal-line, dolomitic; spotted inter-crystalline porosity 2133-37 and 2149-60; some white to tan, semi-translucent, vitreous chert and white semi-devitrified, very fos-	Fair odor, slight show free oil; D.S.T. #3

Depth	Formation Description	Remarks
2133 - 2160	Contd.: siliferous chert.	
2160	Rotary Total Depth	

Core Data: The following core was taken in the Wayside Zone on the #1 Davis "B".

Cored 1580-1608; recovered 23'. In placing the core together on the walk it appeared evident that the bottom 5' of the core was the part not recovered. Examination of the electric log proved this assumption to be correct and that the 5' not recovered consisted only of shale.

1580 - 81: Shale, gray, sandy
1581 - 87: Sand, light gray, medium to sub-medium, subangular to subrounded, micaceous, very shaly - spotted saturation and bleeding, good odor.
1887 - 88: Sand, very shaly, as above, no show.
1888 - 1603: Shale, light to dark gray; inter-fingered streaks gray micaceous sandy shale.

Drill Stem Test Data: The following drill stem tests were taken on the #1 Davis "B", all tests were in the Mississippi.

(1) D.S.T. 2105-15; Johnston Testers; open 1 1/2 hours, strong blow throughout test - gas to surface in 45 minutes (not enough to gauge).
Recovered 5' heavily gas cut mud - trace oil.
Initial Flow Pressure: 20 p.s.i.
Final Flow Pressure: 20 p.s.i.
Closed In Pressure: 415 p.s.i. (30 min.- still building rapidly).

(2) D.S.T. 2115-35; Johnston Testers; open 2 hours - good blow which decreased to small blow by end test.
Recovered 60' gas
8' mud
Initial Flow Pressure: 30 p.s.i.
Final Flow Pressure: 35 p.s.i.
Closed In Pressure: 75 p.s.i. (30 min. - still building rapidly).

Drill Stem Test Data Contd.:

(3) D.S.T. 2135-60; Halliburton; open 1 hour - weak blow which died in 21 minutes - bypassed tool at 25 minutes, again had weak blow which died in 2 minutes. Recovered 30' mud.

Initial Flow Pressure:	15 p.s.i.	
Final Flow Pressure:	15 p.s.i.	
Closed In Pressure:	50 p.s.i.	(30 min. - still building slowly).

Samples examined and log compiled by

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