FORMATION LOG

Anschutz #1 Jones
SW SW SW; 13-27S-15W
Pratt County, Kansas
Elevation; 2047 derrick floor

8 5/8" surface casing; 323'
Comm: 12-26-54
Comp: 1-11-55

Note: All measurements are from the top of the rotary bushing which is 3' above the derrick floor.

Depth	Formation Description	Remarks
	Partial sample log 3700'-4417', describing only marker beds and porous zones	
3798-3804	Shale, brown-black soft, brown streak	Heebner Shale
3804-08	Limestone, cream to tan, very finely sucrose.	Leavenworth
3808-18	Shale, gray; trace gray-green shale	Snyderville
3818-39	Limestone, white to cream, subcrystalline to finely crystalline, chalky; streak gray shale 3825-30	Toronto
3951-55	Limestone, brown to dark gray, dense, fossiliferous	Top Brown lime 3951
3955-61	Shale, gray	
3961-64	Limestone, as above	
3964-76	Shale, as above; streaks limestone as above	
3976-91	Limestone, cream to brown, chalky, crypto-oolitic	Top Lansing 3976
3991-97	Shale, gray and brown	
3997-4002	Limestone, cream to white, subcrystalline, oolitic, chalky; spotted poorly developed oolicastic porosity	No show
4022-29	Limestone, tan to buff, finely crystalline, chalky; fair spotted vugular porosity; trace tan to gray, oolitic, semi-translucent chert.	No show
4064-70	Limestone, tan, finely sucrose, chalky; spotted vugular porosity	Slight stain; D.S.T.
4092-4103	Limestone, tan to cream, subcrystalline to dense, crypto oolitic; spotted vugular and oolicastic porosity.	Possible trace spotted stain

Depth	Formation Description	Remarks
4106-10	Limestone, porous, as above	Show oil, as above
4122-27	Limestone, tan, sucrose; good oolicastic porosity	No show
4188-92	Limestone, cream, subcrystalline, slightly oolitic; spotted oolicastic porosity	Trace light to dark brown stain
4203-08	Limestone, tan, very finely sucrose, oolitic; fair spotted oolicastic and honeycomb porosity	Fair, light to dark brown stain
	Complete Sample log 4417 to T.D.	
4417-26	Limestone, tan to gray, subcrystalline, some silicified; chert, gray to tan to white, vitreous to devitrified	Light brown stain; D.S.T
4426-30	Limestone and chert, as above, no porosity	
4430-34	Shale, gray, gray-green and maroon	
4434-40	Limestone and chert, as above, very shaly	
4440-54	Chert, white opaque, vitreous to subvitreous; chert, white, flesh and blue-white, subvitreous, semi-translucent to opaque, figured	Top Mississippi 4440; Trace light stain 4443-51; D.S.T.
4454-56	Shale, gray, gray-green and maroon	Top Kinderhook 4454
4456-61	Limestone, tan, subcrystalline, resinous; shaly	
4461-63	Shale, as above	
4463-70	Sand, tan to gray, Medium, well sorted, glauconitic	Light brown stain: possibly oil stain?
4470-75	Shaly limestone, as above	
4475-79	Sand, as above, some fine, gray-green sand	No show
4479-86	Shaly limestone, as above; chert, salmon to cream, subvitreous to vitreous, opaque to translucent	
4486-4534	Limestone, white, coarsely crystalline, to pink and white coarsely crystalline, dolomitic toward bottom; some tan, subcrystalline limestone; much white to tan to cream, vitreous, semi-translucent to translucent chert; porous 4486-94	Top Viola 4486; No show

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Depth	Formation Description	Remarks
4534-41	Dolomite, white to gray, finely crystalline; spotted vugular porosity	Slight dark oil stain
4541-46	Dolomite, cream to tan, very finely sucrose	
4546-70	Limestone, white, coarsely crystalline, chalky, dolomitic; dolomite, cream, to gray, finely crystalline; chert, white to cream, vitreous to subvitreous, semi-translucent to opaque; porous 4566-70	No show
4570-76	Limestone, brown, subcrystalline to dense; much brown to tan, vitreous, semi-translucent chert.	
4576-95	Limestone, cream to white, medium crystalline, dolomitic grading into dolomite, dirty brown, finely crystalline; chert, white to salmon, opaque to translucent, vitreous to subvitreous; spotted porosity 4584-95	No show
4595-4604	Limestone, tan to brown, subcrystalline to dense; chert, brown, opaque; spotted porosity	No show
4604-10	Limestone and dolomitic limestone, as above, less chert; spotted porosity	No show
4610-42	Dolomite, tan to cream, finely sucrose; limestone, cream to buff, medium to coarsely crystalline, dolomitic; chert, salmon, semi-translucent, vitreous; much finely crystalline, resinous, sandy limestone near base	
4642-68	Shale, pale to dark gray-green; streaks green, glassy, very shaly, well sorted sand; streaks tan to brown, medium crystalline, sandy dolomite	Top Simpson 4642
4668-73	Sand, white to pink, felspathic, medium, well sorted, small green mudball inclusions; porous 4670-73	No show
4673-83	Sand, as above, finer, very hard, dolomitic to very sandy dolomite; much green sandy shale; streak porosity 4680-83	No show
4683-86	Limestone, cream, medium crystalline, dolomitic, sandy	
4686-94	Sand, gray to white, as above; much dark green shale; porous 4691-94	No show
4694-4728	Mostly shale, gray to dark green; thin streaks sand as above; thin streaks cream, finely crystalline to finely sucrose dolomite	

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Depth	Formation Description	Remarks
4728-30	Dolomite, tan, finely crystalline; trace white, opaque, oolitic chert	Top Arbuckle 4728
4730-38	Dolomite, cream to buff, finely crystalline to medium crystalline, oolitic ; good oolicastic porosity; thin streaks dark green shale	No show
4738-43	Dolomite, gray, subcrystalline to dense	
4743-46	Dolomite, tan to brown, medium crystalline, rhombohedral, spotted vugular porosity; chert, white, translucent, vitreous, oolitic	No show
4746-57	Dolomite, tan to gray, finely crystalline to subcrystalline; streak green shale 4753-56	
4757-60	Dolomite, cream, finely crystalline; spotted vugular porosity	No show
4760-77	Dolomite, cream to gray, medium crystalline to dense; chert, brown to white, mottled, opaque,oolitic; streaks shale, as above	
4777-85	Dolomite, probably porous, as above	No samples circulated up at total depth.
4785	Total depth	

D & A 1-11-55

Drill Stem Test Data: The following drill stem tests were run on the #1 Jones

Lansing-Kansas City:
(1) D.S.T. 4050-75; Open 1 hour
Recovered 265' salt water
Bottom Hole Pressure: 1335# (20 min.)

Marmaton:
(2) D.S.T. 4403-29; Open 1 hour
Recovered 33' mud
Bottom Hole Pressure: 45# (20 min.)

Mississippi:
(3) D.S.T. 4440-60; Open 1 hour-gas to surface in 25 minutes
Gauge 310,000 CFG
Recovered: 32' mud
Bottom Hole Pressure: 1200# (20 min.)

Samples examined and log compiled
by
Willis Jack Magathan