

Computer Inventoried

WENLETT 11-21-54

Rine & Frankfort #1 Schon
NE SE NW; 24-32S-5W
Harper County, Kansas
Elevation: 1262 derrick floor

8 5/8" surface casing 291'
Comm: 11-21-54
Comp: 12-14-54

Note: (1) All measurements are taken from the top of the rotary bushing which is 3' above the derrick floor

(2) At 4190' a 12' error was found in the drilling measurements (4190 = 4178). This error had been made at 2006' which should actually be 1994'. Therefore, between 2006' and 4190' all measurements should be corrected 12' up the hole.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0 - 400	Red beds	Drillers log 0-2000'
400 - 825	Shale and shells	
825 - 975	Anhydrite	
975 - 1805	Limestone and shale	
1805 - 2000	Shale and limestone	
2000 - 08	Shale, gray	Sample log 2000' to T.D.
2008 - 20	Limestone, gray, finely crystalline	Top Pennsylvanian 2008
2020 - 2190	Mostly shale, gray to green-gray; some thin streaks light gray, medium, angular, micaceous sand; streaks brown to gray crystalline to dense limestone.	
2190 - 95	Limestone, dark brown to gray, dense fossiliferous	Tarkio
2195 - 2234	Shale, gray, silty to gray-brown, sandy; streaks gray to light brown, submedium, very micaceous sand.	Willard
2234 - 2336	Mostly limestone, brown to buff to gray, dense, fossiliferous; much gray to dark gray, some calcareous shale	Top Elmont 2234
2336 - 2400	Shale, gray to brown, slightly silty; streaks dark gray shaly limestone	Base Burlingame 2336
2400 - 80	Limestone, tan to gray-brown, finely crystalline to dense, fossiliferous; streak limestone, as above with large brown and black oolites	Howard
2440-44		
2480 - 2505	Shale, gray to brown	Top Savary 2480
2505 - 39	Sand, fine to submedium, angular light gray to brown; micaceous, streaks fairly silty shale	Baroid indicated gas show, no odor or stain in samples; D.S.T.
2539 - 82	Shale, gray; thin streaks shaly sand, as above	
2582 - 2624	Limestone, gray to tan to brown subcrystalline, chalky to sucrose; thin streaks gray shale; porous	Top Topeka 2582, No show
2593-99 and 2605-12		

-2- Formation Log
Rine & Frankfort #1 Bohon

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
2624 - 86	Shale, gray to dark gray; streaks dark gray to brown, dense, shaly limestone	Calhoun
2686 - 2706	Limestone, gray to tan, to dark gray-brown, finely crystalline; fair vugular porosity 2690 - 94 & 2699-2702	Deer Creek; no show
2706 - 32	Shale, dark gray to black	Tecumseh
2732 - 43	Limestone, tan to white to brown, finely crystalline to subcrystalline, some chalky, fossiliferous; fair pinpoint porosity 2734-37 & 2741-43; trace blue-gray, opaque chert.	Locustton
2745 - 72	Shale, gray	Top Kanawha 2745
2772 - 80	Limestone, gray-tan, dense to dirty brown subcrystalline.	
2780 - 2813	Shale, gray; thin streaks coarse, calcareous, shaly sand	
2813 - 16	Sand, light gray medium, angular, micaceous	Elgin Sand; trace free oil; Harold had fair show gas; D.S.T.
2816 - 2924	Mostly shale, gray; streaks fine, gray, micaceous, argillaceous sand.	
2924 - 32	Limestone, dark dirty brown to brown-black, dense	Top Oread Group 2924; Kereford limestone
2932 - 42	Shale, gray-black	Beumder
2942 - 50	Limestone, gray to dark brown, subcrystalline; some white, medium, calcareous sand to white sandy limestone.	Plattsburgh
2950 - 56	Shale, black, soft	Heebner
2956 - 66	Limestone, tan-gray to gray-brown dense	Leavensworth
2966 - 70	Shale, gray to dark gray, silty; trace brown shale	Snyderville
2970 - 99	Limestone white, finely crystalline to gray-tan, dense, chalky with large calcite crystals; streak gray shale 2978-80	Toronto; Base Oread 2999
2999 - 3035	Shale, gray and green-gray, some sandy; thin streaks fine, gray, shaly sand	Top Douglas 2999
3035 - 64	Limestone, white to tan, finely crystalline to chalky fossiliferous slightly sandy at top; fair vugular porosity 3039-64	Ammonia; no show

-3- Formation Log

Rine & Frankfort #1 Schen

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3064 - 3314	Shale, gray to brown, some sandy; thin streaks light gray to white, submedium, angular, micaceous, argillaceous sand	
3314 - 18	Limestone, dark brown to tan, dense; some very fossiliferous	Istan
3318 - 38	Shale, dark gray to black	
3338 - 45	Sand, white to light gray, medium, angular	Top Stalnaker 3338 no show
3345 - 55	Mostly shale, gray; streaks sand, as above	
3355 - 90	Sand, as above, coarser, stained brown; probably iron stains	No show
3390 - 3565	Shale, gray, finely micaceous, slightly silty.	Top Kansas City Group 3390
3565 - 68	Limestone, dark, brown-gray sub-crystalline	
3568 - 81	Shale, dark gray	
3581 - 88	Limestone, gray to gray-brown, sub-crystalline to dense	Top "Kansas City Lims" 3581
3588 - 98	Shale, as above	
3598 - 3608	Limestone, gray to brown, finely crystalline to subcrystalline.	
3608 - 11	Shale, gray	
3611 - 14	Limestone, white, chalky to light tan subcrystalline	Porous on electric log, no porosity detected in samples
3614 - 27	Limestone, tan, finely crystalline; chert, white, opaque, subvitreous, streaks gray-green shale	
3627 - 43	Limestone, as above, fair vugular porosity,	No show
3643 - 3710	Limestone, tan, subcrystalline, to dense, fossiliferous; some brown subcrystalline to dense limestone toward bottom	
3710 - 21	Limestone, tan to brown, very oolitic and oolitic	No show
3721 - 65	Limestone, gray to dark gray to brown, dense to subcrystalline; some dark gray to gray, mottled, opaque chert; streaks gray and black shale.	

-4- Formation Log
Rine & Frankfort #1 Schen

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3765 - 68	Limestone, light tan-gray, subcrystal- line, some silty; trace pinpoint porosity	No show
3768 - 99	Limestone, gray to dark brown, dense; streaks gray-black, shale 3785-99	
3799 - 3803	Limestone, as above	Porous on electric log, no porosity detected in samples
3803 - 44	Limestone, dark gray to dark brown, dense	Base Kansas City 3844
3844 - 71	Shale gray-green; streaks fine, green- gray, shaly, micaceous sand	Top Pleasanton Group 3844
3871 - 76	Limestone, dark brown-gray to black, granular to subcrystalline	
3876 - 3906	Shale, as above, thin streaks gray to green, fine to submedium, shaly sand	
3906 - 16	Limestone, gray to dark brown, dense to subcrystalline	Altamont; Top Harneton 3906
3916 - 35	Much gray shale; streaks gray to tan to dark brown, dense to subcrystal- line limestone	
3935 - 80	Limestone, white to tan subcrystal- line, chalky, to gray-brown, dense; trace white, opaque, vitreous chert; streaks gray shale.	
3980 - 83	Shale, dark gray to black	
3983 - 94	Limestone, dark gray to black, finely crystalline to granular	
3994 - 4010	Mostly shale, dark gray; streaks limestone, as above, dark gray to black.	
4010 - 4033	Limestone, as above	
4033 - 37	Shale, gray to black, soft	
4037 - 46	Limestone, gray to brown, sub- crystalline to dense	
4046 - 63	Mostly shale, as above; streaks limestone as above	
4063 - 74	Limestone, gray to dark gray-brown, dense to granular	
4074 - 78	Shale, gray	
4078 - 84	Limestone, as above	
4084 - 94	Shale, hard, dark gray; traces green shaly sand	Top Cherokee 4084
4094 - 4108	Limestone, dark-brown, dense, very shaly	
4108 - 39	Shale, gray, some very silty	
4139 - 58	Limestone, green-gray to brown, dense, shaly	

-5- Formation Log
Rine & Frankfort #1 Schou

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4138 - 4266	Shale, gray to green-gray to brown some black shale streaks; thin streaks gray to green-gray to olive limestone	
4266 - 84	Chart, white, brown, gray and light green, opaque, vitreous; streaked porosity 4266-75, good porosity 4275-84	Top Mississippi 4266; No show
4284 - 4305	Limestone, white to tan, coarsely crystalline to chalky; chert, white to light gray, opaque, fossiliferous	
4305 - 38	Limestone, white to light tan, glau- conitic, coarsely crystalline; dolo- mite, brown to buff, sucrose, cherty; chert white to light brown; mottled opaque, vitreous;	No show
4338 - 45	Limestone, gray, finely crystalline, dolomitic; much gray, opaque, vitreous chert	
4345 - 34	Porous limestone and dolomite, as above	No show
4354 - 64	Dolomitic limestone, as above	
4364 - 97	Limestone, white, crystalline to gray and tan, finely crystalline, porous; some blue-gray chert in limestone	No show
4397 - 4402	Limestone and chert, as above, no porosity	
4402 - 16	Limestone and chert, as above porous; increase in chert	No show
4416 - 21	Limestone, white, crystalline to gray, finely crystalline	
4421 - 75	Limestone and chert, as above; porous 4421-31, 4434-55 & 4460-64	No show
4475 - 4501	Limestone, as above, porous; much chert, light gray to white, opaque, vitreous; chert, light blue-gray, speckled, opaque, vitreous; streaks gray shale	No show
4501 - 05	Limestone, as above	
4505 - 63	Limestone, white to brown, granular, very cherty; chert, white, opaque, vitreous to devitrified, porous	No show
4563 - 76	Limestone and chert, as above, no porosity	
4576 - 79	Shale, gray	

-6- Formation Log
 Nine & Frankfort #1 Schen

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4379 - 34	Limestone and chert, as above	
4384 - 36	Dolomite, saccharine, brown	
4386 - 38	Limestone, gray, crystalline to green, dense	
4388 - 92	Shale, gray	
4392 - 4611	Limestone, white to tan to yellow, crystalline; chert, light blue-gray to white, opaque, vitreous	
4611 - 18	Shale, pale green-gray	
4618 - 29	Limestone, green, dense	
4629 - 4712	Shale, gray, muddy to green-gray and maroon, silty; trace gray silty sand, at top; streaks gray-black shale	Top Kinderhook 4629
4712 - 26	Shale, dark brown-black, spore bearing	Chattanooga
4726 - 49	Sand, white to clear to gray, glassy, medium to coarse, angular some silty to dolomitic cement.	Top Simpson 4726; possible very light stain, no odor or free oil, good fluorescence. D.S.T.
4749 - 32	Shale, bright green slightly sandy pyritic	
4752 - 67	Sand, as above	No show
4767 - 71	Shale, as above; some maroon and gray-green shale	
4771 - 94	Sand, white to gray, glassy, well sorted, subrounded to subangular, dolomitic; thin inter-fingered streaks green and maroon shale; porous 4771-75, 4778-82 & 4791-94	No show
4794 - 4819	Mostly shale, as above; probable thin streaks tan to brown finely saccharine dolomite; much dark gray shale; t thin streaks gray to gray-green, poorly sorted sand	
4819 - 23	Sand, gray, glassy, coarse to fine poorly sorted, subrounded to subangular dolomitic, glauconitic, grading into sandy dolomite	
4825 - 37	Sandy shale, as above	
4837 - 47	Sand, white, glassy, coarse, quartzitic, fairly well sorted, many phosphate inclusions	No show

-7- Formation Log
Rine & Frankfort #1 Schen

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4847 - 59	Shale, gray-black to gray-green brown and varren	
4859 - 69	Shale, as above, much dolomitic limestone	
4869 - 71	Sand, as above	No show
4871 - 76	Shale and dolomitic limestone	
4876 - 81	Sand, white, glassy, very well sorted, rounded to subangular, friable	No show
4881 - 84	Shale, as above	
4884 - 99	Dolomite, tan to gray to light brown, very finely sacrose to medium crystalline, rhombohedral, some sandy; spotted pinpoint and fine vugular porosity 4886-93	Top Arbuckle 4884; no show
4899 - 4902	Shale, dark green	
4902 - 22	Dolomite tan to buff, medium crystalline to dense; chert, gray opaque, crypto-oolitic; some tan to buff, medium crystalline, rhombohedral dolomite with fair vugular porosity 4907-12; some blue-gray translucent chert with brown oolites and with clear, included sand grains	No show
4922 - 32	Dolomite, gray, coarsely-crystalline, rhombohedral, oolitic, good vugular porosity	No show
4932 - 35	Dolomite tan to brown, finely crystalline to dense, resinous	
4935	Total Depth	

Drill Stem Test Data: The following drill stem tests were taken on the #1 Schen

Savery:

(1) D.S.T. 2300-45; open 1 hour, very slight blow throughout test.
Recovered: 190' very slightly gas cut mud, no oil, gas or water
Bottom Hole Pressure: 1117# (20 minutes)
Initial Flow Pressure: 13#
Final Flow Pressure: 122#

Kisani:

(2) D.S.T. 2774-2827; open 1 hour, very weak blow which died in 30 minutes.
Recovered: 10' mud, no oil, gas or water
Bottom Hole Pressure: 916# (20 minutes)
Initial Flow Pressure: 20#
Final Flow Pressure: 34#

-8- Formation Log
Rine & Frankfort #1 Schen

Drill Stem Test Data:

Summary:

(3) D.S.T. 4723-33; open 1 hour, good blow throughout test
Recovered: 200' gas cut muddy salt water
720' slightly gas cut clean salt water
Bottom Hole Pressure: 1731# (20 minutes)
Initial Flow Pressure: 46#
Final Flow Pressure: 567#

Samples examined and log compiled

by

Wendell S. Johns & Willie Jack Magathan

TIME LOG

Rine & Frankfort #1 Schen
 NE SE NW; 24-32S-5W
 Harper County, Kansas
 Elevation: 1262 derrick floor

- Note: (1) All measurements are taken from the top of the rotary bushing which is 3' above the derrick floor
- (2) At 4190' a 12' error was found in the drilling measurements (4190 = 4178).
 This error had been made at 2006' which should actually be 1994'. Therefore, between 2006' and 4190' all measurements should be corrected 12' up the hole.

1' time log starts at 2000'

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
2000 - 10	2-2-1-1-1-1-1-1-2-6	Top Pennsylvanian 2008
20	4-6-4-5-5-3-4-4-4-3	
30	5-5-4-4-3-3-4-2-4-4	
40	2-3-2-1-4-4-2-3-4-5	
50	6-3-3-3-2-1-2-2-2-2	
60	3-3-2-3-2-3-8-3-2-2	
70	1-5-7-3-3-3-2-3-2-2	
80	2-3-3-2-2-2-2-2-2-3	
90	2-2-3-2-2-2-3-2-3-2	
90 - 2100	2-2-2-3-3-2-4-4-4-3	
2100 - 10	3-3-3-3-7-3-3-3-2-4	
20	4-4-8-4-6-3-5-7-4-2	
30	4-4-3-4-3-3-3-3-3-3	
40	5-3-2-3-9-11-10-2-3-4	
50	3-4-4-2-3-3-3-3-3-4	
60	5-5-3-3-3-2-3-3-3-2	
70	3-3-3-4-5-13-8-3-3-3	
80	3-2-3-3-7-7-5-5-7-4	
90	4-3-3-2-3-4-2-2-3-4	Top Tarkio 2190
90 - 2200	8-4-5-4-4-2-3-2-3-2	Circ. 40 min @ 2192
2200 - 10	3-3-4-3-3-4-3-2-3-2	
20	3-2-1-2-3-3-2-1-2-2	
30	2-3-3-4-5-6-4-3-4-2	
40	3-2-3-3-7-16-12-8-4-3	Top Almont 2234
50	5-11-8-11-9-5-5-3-2-3	Circ. 1/2 hr. @ 2250
60	4-2-4-6-10-10-7-8-9-11	
70	5-5-4-4-3-6-7-10-5-3	
80	4-2-2-2-1-5-3-3-3-3	
90	5-7-5-6-5-6-4-6-4-5	
90 - 2300	5-6-4-3-3-3-4-3-3-4	

-2- Time Log
Rine & Frankfort #1 Schon

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
2300 - 10	3-2-2-4-5-3-2-3-6-3	
20	2-3-8-9-9-4-2-2-2-2	
30	2-2-2-4-3-3-2-3-3-3	
40	3-3-3-3-6-1-2-2-2-2	Base Burlingame 2336
50	1-2-2-1-2-2-1-4-4-2	
60	2-2-2-5-2-1-2-2-1-2	Circ. 20 min. @ 2358
70	2-2-2-1-2-3-3-2-1-2	
80	2-2-2-3-2-2-2-2-2-1	
90	3-3-1-2-3-2-2-2-3-2	
90 - 2400	1-2-2-2-3-1-2-2-2-3	Top Howard 2400'
2400 - 10	2-2-3-3-3-2-4-4-3-4	
20	4-5-4-5-5-5-5-4-5-5	
30	4-3-4-5-3-2-3-4-3-5	
40	4-3-4-4-5-4-2-2-5-5	
50	2-2-2-3-6-5-3-3-3-3	
60	2-2-2-3-2-2-2-1-2-3	
70	4-4-3-3-3-3-3-2-3-3	
80	3-3-3-3-5-5-4-3-2-3	Top Severy 2480
90	2-2-3-2-3-4-3-2-3-3	
90 - 2500	6-3-4-3-3-3-3-3-3-3	
2500 - 10	3-3-2-4-4-2-3-3-2-3	
20	2-3-3-3-3-2-2-3-3-2	
30	3-2-2-2-2-2-3-2-2-3	
40	2-2-2-3-2-3-2-3-3-4	
50	5-5-5-5-4-2-3-3-4-2	Circ. 30 min @ 2545; D.S.T.
60	3-3-3-3-3-3-2-3-3-3	
70	2-4-2-3-4-2-3-3-4-4-	
80	3-3-3-4-2-3-2-2-3-2	
90	3-2-4-6-7-8-4-4-3-4	Top Topeka 2582
90 - 2600	3-4-4-3-4-3-3-6-4-5	
2600 - 10	5-5-7-8-6-6-5-4-6-5	
20	5-6-7-7-9-7-8-7-5-7	
30	7-7-7-7-6-7-4-5-6-7	
40	5-4-6-6-7-5-4-4-3-5	
50	4-5-5-5-3-6-7-8-7-9	
60	8-6-7-7-8-7-5-7-6-5	
70	5-7-5-7-5-6-6-6-6-5	
80	5-6-6-6-7-5-3-3-4-4	
90	4-6-4-3-3-4-5-7-5-3	
90 - 2700	4-3-2-3-4-3-3-2-3-3	
2700 - 10	5-4-5-5-7-10-6-4-4-5	
20	4-4-4-6-5-4-4-4-4-6	
30	5-4-5-4-5-4-5-4-5-5	
40	3-3-5-9-5-5-3-3-4-5	
50	4-4-3-3-6-3-4-3-4-4	
60	4-4-7-5-3-2-3-3-4-3	
70	3-5-3-5-4-5-3-4-4-3	
80	4-5-7-14-17-4-4-4-4-4	Trip @ 2775
90	3-3-3-4-2-3-3-3-2-3	
90 - 2800	2-1-2-2-3-2-2-3-2-3	

-3- Time Log
Rine & Frankfort #1 Schon

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
2800 - 10	3-3-2-2-3-2-3-3-3-3	Elgin Sand 2813-16 Circ. @ 2827; D.S.T
20	2-2-2-1-2-3-2-3-3-2	
30	3-4-4-2-3-3-4-6-3-4	
40	4-4-4-3-4-5-4-5-4-3	
50	3-3-4-3-3-3-4-2-2-2	
60	3-3-2-2-3-3-3-2-3-2	
70	3-3-2-3-3-3-2-4-3-4	
80	3-3-4-3-2-2-3-2-2-2	
90	2-2-2-3-3-3-3-3-3-3	
90 - 2900	3-3-3-3-2-4-5-3-3-4	
2900 - 10	4-3-4-3-3-4-3-3-3-4	Top Haeber 2950 Circ. ½ hr. @ 2969
20	3-3-3-3-3-3-2-2-2-2	
30	3-4-3-2-4-5-4-3-4-4	
40	6-4-3-3-4-3-2-3-3-3	
50	3-3-8-10-7-5-4-3-3-3	
60	2-3-2-3-2-3-9-5-4-8	
70	8-8-6-5-4-3-2-2-2-5	
80	5-4-3-3-4-3-5-3-3-4	
90	5-3-4-5-7-7-4-4-3-2	
90 - 3000	4-5-4-3-2-3-5-7-6-6	
3000 - 10	5-5-4-4-5-4-4-4-5-3	Top Douglas 2999 Circ. ½ hr @ 3068
20	4-5-4-4-4-4-6-6-5-5	
30	7-8-4-5-6-8-12-8-9-12	
40	5-3-5-4-4-4-5-6-4-5	
50	5-5-6-6-6-6-5-8-5-4	
60	6-6-7-7-5-7-7-6-6-9	
70	6-6-4-10-3-3-4-4-6-6	
80	5-5-4-5-5-5-5-5-6-5	
90	5-6-4-6-6-5-5-8-7-7	
90 - 3100	3-3-4-4-5-5-6-5-5-5	
3100 - 10	5-6-3-5-5-5-4-4-5-5	Circ. 40 min. @ 3094
20	5-4-5-6-6-5-6-5-3-4	
30	3-3-3-3-3-4-3-5-5-5	
40	4-4-5-5-5-5-5-5-4-4	
50	5-4-8-5-5-5-5-4-4-4	
60	3-4-4-5-4-3-4-5-5-5	
70	6-6-5-7-5-7-6-8-6-6	
80	8-7-7-5-5-5-6-6-4-4	
90	4-4-4-4-4-5-5-5-5-5	
90 - 3200	6-6-7-8-7-7-5-10-7-8	Trip @ 3204
3200 - 10	8-12-10-10-3-5-2-3-5-5	
20	5-5-3-3-3-4-3-4-4-4	
30	4-3-4-3-4-3-4-4-3-4	
40	5-3-3-4-3-2-3-3-4-3	
50	4-3-2-3-3-3-3-3-2-3	

-4- Time Log
Rine & Frankfort #1 Schon

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3250 - 60	3-2-3-2-3-2-2-4-4-2	
70	4-3-4-3-3-2-4-3-3-2	
80	2-3-2-5-3-3-3-4-3-4	
90	3-4-3-3-3-3-3-3-3-4	
90 - 3300	4-3-3-4-4-4-4-4-3-5	
3300 - 10	5-5-4-3-4-4-3-3-4-3	
20	4-4-3-4-9-9-6-4-3-4	Top Laten 3314
30	5-4-3-4-3-4-4-3-4-4	
40	6-5-4-2-2-4-4-3-3-2	Top Stainaker 3338
50	3-3-3-2-4-3-2-3-3-3	Circ. 35 min. @ 3343
60	3-2-2-3-2-3-2-1-1-2	Circ. 35 min. @ 3358
70	2-2-2-2-1-1-1-1-1-1	
80	2-2-2-2-1-1-2-1-1-3	
90	2-4-4-3-4-3-5-3-5-5-	Base Lansing 3390
90 - 3400	5-5-4-4-3-3-4-3-4-3	
3400 - 10	3-3-4-3-3-3-3-5-4-4	
20	3-4-4-5-3-4-4-3-3-3	
30	2-2-3-3-2-2-2-2-3-5	
40	3-3-4-4-4-4-8-4-3-4	
50	4-3-5-4-4-4-4-4-3-3	
60	3-2-2-2-3-4-4-3-4-5	
70	4-3-4-4-4-3-4-4-5-5	
80	5-4-4-4-3-4-4-5-5-4	
90	3-4-4-4-2-4-4-4-3-4	
90 - 3500	3-4-5-4-5-4-4-3-4-5	
3500 - 10	4-4-4-4-4-4-4-4-5-4	
20	3-2-2-3-3-4-7-4-4-4	
30	5-5-5-5-5-4-4-5-5-5	
40	7-5-4-6-5-5-4-2-3-5	
50	5-4-3-4-4-2-2-5-6-4	Circ. 43 min. @ 3546
60	4-3-3-4-4-3-5-3-5-4	
70	4-3-5-6-3-4-5-5-2-2	
80	3-8-3-4-3-5-7-4-4-4	
90	4-5-9-10-9-8-9-11-6-5	Top " K.C.Lime" 3581
90 - 3600	4-4-6-5-8-5-5-6-7-11	
3600 - 10	6-7-14-8-7-7-6-6-4-3	Trip @ 3606
20	3-3-2-3-3-7-5-5-9-7	
30	7-8-5-7-12-8-6-4-5-5	
40	3-3-3-3-4-4-4-3-3-3	
50	2-3-3-3-4-4-5-5-4-4	
60	5-5-7-7-10-7-6-4-5	
70	6-8-9-10-8-8-8-4-7-8	
80	6-8-9-8-7-10-11-11-10-10	
90	7-7-9-10-8-8-8-7-11-12	
90 - 3700	12-12-12-12-13-15-8-9-8-7	Trip @ 3696

-3- Time Log
Hina & Frankfort #1 Schon

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3700 - 10	10-8-10-9-9-10-9-9-9-6	Circ. 44 min. @ 3713
20	2-3-3-2-2-3-3-3-3-3	
30	3-4-4-3-9-8-10-9-8-5	
40	10-10-9-13-7-10-9-12-9-11	
50	13-9-9-10-6-7-12-12-10-11	
60	7-7-6-6-8-8-7-6-11-18	Circ. 41 min @ 3767
70	10-10-9-11-6-4-4-4-6-6	
80	8-8-8-7-8-9-13-12-9-8	
90	9-12-12-9-10-8-4-4-8-10	
90 - 3800	7-9-10-9-9-9-10-12-12-11	
3800 - 10	13-10-9-11-12-10-11-10-11-12	Trip @ 3841 Base Kansas City 3844
20	12-9-8-10-11-12-10-10-10-9	
30	8-8-9-9-9-10-8-10-11-10	
40	10-10-9-10-10-10-6-12-11-13	
50	13-8-4-7-4-5-5-6-7-8	
60	6-5-5-3-4-4-4-7-6-6	Top Marmaton 3906
70	6-7-6-4-4-6-7-7-8-4	
80	6-9-7-6-7-7-5-5-5-5	
90	5-4-4-4-3-4-3-6-5-6	
90 - 3900	5-5-6-6-4-6-4-6-8-8	
3900 - 10	7-5-6-7-8-6-5-5-6-7	Trip @ 4053
20	7-5-5-6-9-4-6-5-4-6	
30	6-8-6-6-6-5-6-6-8-5	
40	7-9-5-6-7-8-8-6-4-6	
50	12-6-5-5-6-8-7-7-6-7	
60	7-6-5-6-5-5-6-6-7-9	Top Cherokee 4084
70	9-7-5-6-7-8-7-8-9-8	
80	6-5-5-6-7-5-5-5-6-6	
90	6-5-5-4-4-5-6-6-6-5	
90 - 4000	6-9-7-9-8-7-8-6-6-5	
4000 - 10	5-4-7-7-6-7-7-7-7-8	Trip @ 4053
20	8-7-6-6-6-7-8-7-6-7	
30	7-6-9-8-8-6-6-8-7-8	
40	5-5-5-4-5-7-10-8-8-8	
50	9-8-9-9-8-9-7-4-8-10	
60	9-13-13-8-4-5-7-6-7-8	Top Cherokee 4084
70	5-6-3-5-5-5-5-7-8-6	
80	6-5-6-6-5-5-4-5-7-7	
90	5-6-6-7-5-5-4-7-8-8	
90 - 4100	6-5-6-7-9-6-7-8-6-8	
4100 - 10	8-8-8-6-8-6-6-6-8-6	Trip @ 4053
20	8-8-6-6-6-8-10-7-7-8	
30	9-7-7-10-9-8-8-9-9-10	
40	8-8-10-10-9-8-7-8-7-7	
50	7-7-7-7-8-8-10-9-10-10	

-6- Time Log
Rine & Frankfort #1 Shen

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
4150 - 60	9-9-8-8-8-11-8-8-9-7	
70	6-4-5-9-9-7-8-6-6-7	
80	8-8-8-7-9-8-14-11-13-5	Trip @ 4179
90	7-13-4-5-6-5-4-3-2-3	S.L.C. 4190 = 4178
4178 - 80	3-2	
4180 - 90	3-3-4-4-4-5-6-6-5-4	
90 - 4200	4-5-5-7-5-7-6-9-6-5	
4200 - 10	4-5-6-5-6-7-4-4-4-5	
20	5-4-2-3-2-4-6-9-7-5	
30	6-5-6-6-6-5-6-6-4-3	
40	5-9-8-9-8-8-10-11-8-9	
50	6-6-6-7-6-7-7-11-8-7	
60	4-7-6-5-6-5-8-8-7-7	
70	6-5-5-7-7-8-6-6-6-5	Top Mississippi 4266
80	4-3-3-5-6-5-6-5-4-4	
90	6-5-9-7-11-24-10-9-6-7	Trip @ 4286
90 - 4300	6-9-8-8-10-8-8-7-6-6	
4300 - 10	7-7-8-7-7-7-6-5-6-6	
20	6-5-7-8-7-6-5-5-5-4	
30	3-3-4-7-2-4-4-5-6-7	Circ. 45 min. @ 4324
40	7-4-4-4-3-3-4-7-8-6	
50	9-10-11-10-7-5-8-8-11-10	
60	3-5-8-8-11-14-19-16-15-13	
70	17-13-11-11-7-7-6-7-7-7	
80	8-5-6-8-9-6-8-9-3-8	
90	10-5-5-5-5-4-6-6-7-6	
90 - 4400	7-6-6-6-7-7-7-17-10-10	Trip @ 4398
4400 - 10	9-6-8-9-5-5-5-6-5-7	
20	6-5-6-6-6-5-6-7-9-8	
30	9-9-11-11-9-10-10-11-10-9	
40	9-8-5-11-9-9-9-8-12-13	
50	11-9-12-9-10-9-9-11-10-11	
60	14-11-10-8-8-9-9-10-10-8	
70	10-8-9-8-10-12-10-9-10-10	
80	6-7-8-10-10-8-9-8-8-6	
90	6-3-4-5-8-6-6-6-7-5	
90 - 4500	5-5-4-4-2-6-5-7-7-8	
4500 - 10	12-6-9-14-16-5-5-5-5-5	Trip @ 4505
20	5-5-5-5-5-3-4-5-4-5	
30	5-7-7-8-8-7-4-4-5-6	
40	4-6-3-5-8-9-10-7-6-6	
50	6-8-7-8-8-8-7-9-6-7	
60	9-7-6-7-8-8-5-6-5-5	
70	6-4-4-6-9-14-8-10-12-13	
80	14-10-7-8-9-8-8-7-8-10	Trip @ 4572
90	10-8-7-7-3-3-9-8-7-6	
90 - 4600	6-8-7-8-8-7-8-8-7-8	

-7- Time Log
Rine & Frankfort #1 Schon

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
4600 - 10	9-7-9-9-8-7-6-8-8-10	
20	9-8-9-11-9-5-13-7-10-10	
30	12-8-9-6-10-7-8-9-10-9	Top Kinderhook 4629
40	9-9-8-8-8-9-10-8-9-8	
50	10-7-9-10-9-7-7-8-12-9	
60	8-9-10-4-6-8-7-9-12-9	
70	9-8-8-8-8-9-9-10-10-9	
80	6-9-9-10-8-8-8-9-10-8	
90	6-7-8-7-9-10-6-6-9	
90 - 4700	10-9-10-7-8-9-9-8-10-10	
4700 - 10	10-10-11-13-12-13-14-17-6-7	Trip @ 4708
20	5-7-6-5-7-9-7-9-8-9	Top Chattanooga 4712
30	9-9-9-7-7-14-12-26-42-42	Circ. 1 hr @ 4723
		Top Simpson 4726
40	46-15-6-5-7-6-4-4-5-7	Circ. 1 hr. @ 4735; D.S.T.
		New bit @ 4735
50	6-9-9-8-5-13-10-15-11-9	
60	7-7-8-14-15-13-10-8-11-9	
70	11-7-5-6-4-2-9-9-8-26	Circ. 1 hr. @ 4766
80	7-10-21-18-17-26-36-34-27-22	Trip @ 4770
90	11-15-20-19-46-10-11-14-20-20	Trip @ 4778
90 - 4800	32- 10-10-15-19-22-20-15-16-14	Trip @ 4785
4800 - 10	17-12-19-20-7-14-21-13-18-9	Trip @ 4791
20	9-13-16-14-12-10-15-16-18-11	Trip @ 4807
30	8-11-10-11-13-12-15-11-14-16	
40	14-10-13-12-18-10-8-7-18-16	
50	15-13-14-10-15-10-12-18-10-12	
60	15-24-20-19-20-22-23-10-9-6	Trip @ 4867
70	10-6-11-5-7-5-8-9-5-5	
80	6-6-6-6-7-2-3-3-7-7	
90	7-10-12-11-9-6-11-11-7-10	Circ. 1 hr. @ 4878
90 - 4900	8-6-8-7-9-9-8-10-11-12	Top Arbuckle 4884
4900 - 10	12-14-10-13-13-11-12-10-7-9	
20	10-8-10-8-11-10-10-12-13-14	
30	11-16-11-7-13-14-13-15-6-11	
40	15-11-14-15-20	Circ. 1 hr @ 4935
		Total depth 4935