

Computer Inventoried

W ERELL S. JOHNS

FORMATION LOG

McKrab #1 Donner
NE NW NE; 7-26S-13W
Pratt County, Kansas
Elevation: 1961 Kelly bushing

8 5/8" surface casing: 550'
Comm: 5-16-55
Comp: 6-2-55

Note: All measurements are from the top of the Kelly bushing

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0-530	Rathole	Drillers log - 0-3500'
530 - 850	Sand, shale and shells	
850 - 865	Anhydrite	Stone Corral-drillers top
865 - 1635	Sand, shale and shells	
1635 - 1865	Shale and limestone	
1865 - 1990	Limestone	
1990 - 2115	Shale and limestone	
2115 - 2325	Limestone and shale	
2325 - 2575	Shale and limestone	
2515 - 2740	Limestone and shale	
2740 - 2850	Shale and limestone	
2850 - 3110	Shale	
3110 - 3500	Shale and limestone	
3500 - 29	Limestone, cream to blue-gray, finely crystalline to medium crystalline; good vugular porosity	Sample log 3500 to T.D. No show 3500-29
3529 - 61	Limestone, buff to blue-gray, sub-crystalline; some finely crystalline, buff, dolomitic limestone	
3561 - 82	Limestone, brown to buff, medium crystalline to finely sucrose, dolomitic; good spotted vugular porosity	No show
3582 - 87	Dolomite, brown, hard, very finely sucrose	
3587 - 98	Shale, dark gray to gray-black; some brown-black, soft	
3598 - 3611	Limestone, cream to buff, finely crystalline, slightly dolomitic to very dolomitic; spotted vugular porosity 3603-09	No show
3611 - 17	Shale, brown-black, soft, fissile, finely micaceous	Heebner
3617 - 22	Limestone, blue-gray to brown-gray, subcrystalline	Leavenworth
3622 - 29	Shale, gray to green-gray	Snyderville
3629 - 56	Limestone, cream to white, finely crystalline to subcrystalline, chalky; such gray shale toward bottom	Toronto

-2-

Formation Log
McKee #1 Denver

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3656 - 3768	Shale, gray to green-gray, some silty; thin streaks green-gray, argillaceous sand	Top Douglas 3656
3768 - 72	Limestone, dark brown to nearly black, dense	Top Brown Lime 3768
3772 - 93	Shale, gray; trace limestone, as above	
3793 - 3828	Limestone, cream to gray, finely crystalline to subcrystalline; streaks brown shale, some gray shale, as above	Top Lansing 3793
3828 - 31	Limestone, as above; trace spotted pinpoint porosity	No show
3831 - 46	Limestone, as above; much gray and brown shale	
3846 - 51	Limestone, light gray, earthy, subcrystalline; spotted oolitic and poor vugular porosity	No show
3851 - 82	Limestone, gray to brown, subcrystalline to dense, fossiliferous; trace salmon, vitreous, translucent chert; streaks gray-green shale, toward bottom	
3882 - 3901	Limestone, buff to brown, finely crystalline to subcrystalline, fossiliferous, earthy; much brown to gray to white, subvitreous, opaque chert; spotted porosity	No show
3901 - 05	Limestone, brown, dense; much chert, as above	
3905 - 36	Limestone, light gray, finely crystalline to subcrystalline; much chert, as above; some porosity	No show
3936 - 41	Shale, gray to gray-green	
3941 - 44	Limestone, light tan, dense to chalky	
3944 - 51	Limestone, light gray to buff, finely crystalline; good oolitic porosity	Good spotted show dark free oil, fair show light brown oil; D.S.T. 3942-53
3951 - 59	Limestone, cream to light tan, subcrystalline; trace gray shale	

-3-

Formation Log
McKneb #1 Donner

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3959 - 63	Shale, gray to pale gray-green	
3963 - 80	Limestone, buff to cream, sub-crystalline to finely crystalline, slightly resinous, crypto-oolitic	
3980 - 85	Limestone, white to cream, very finely sacroea, oolitic; fair vugular and oolitic porosity, poor permeability	Fair spotted show dark free oil
3985 - 93	Limestone, tan to salmon, sub-crystalline, fossiliferous	
3993 - 4001	Limestone, white, subcrystalline chalky; poor oolitic porosity	No show
4001 - 11	Limestone, light to dark gray to tan, subcrystalline, mottled	
4011 - 19	Limestone, tan to brown, sub-crystalline; spotted pinpoint porosity from 4011-17	Slight trace free oil, slight odor; D.S.T. 4006-40
4019 - 28	Limestone, light gray to white subcrystalline; fair spotted oolitic porosity	Slight odor, fair spotted show dark free oil
4028 - 33	Limestone, tan to buff, sub-crystalline	
4033 - 38	Limestone, gray to tan, sub-crystalline; poor spotted oolitic porosity	Spotted stain, no free oil
4038 - 55	Limestone, tan to salmon, sub-crystalline to dense, some lithographic	
4055 - 61	Shale, dark gray to black, soft	
4061 - 79	Limestone, as above; streaks gray and brown shale; trace salmon, vitreous, translucent to opaque chert	
4079 - 83	Shale, black, soft	
4083 - 96	Limestone, tan to brown, sub-crystalline to dense; streaks gray, black and brown shale	
4096 - 4103	Shale, gray to pale green	
4103 - 08	Limestone, tan to brown, sub-crystalline, some fossiliferous	Base Kansas City 4108

-4-

Formation Log
McKee #1 Donner

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4108 - 25	Shale, gray to gray-green to gray-black, some silty; trace dark gray siltstone	Top Marmaton 4108
4125 - 29	Limestone, gray green, dense to salmon and tan, subcrystalline; some red and white, mottled, subcrystalline limestone	
4129 - 35	Shale, maroon to gray to gray-green	
4135 - 54	Limestone, as above; streaks shale, as above	
4154 - 68	Limestone, tan to salmon to buff, with red and amber spots, chert, salmon to amber, vitreous, translucent to opaque	
4168 - 74	Shale, as above	
4174 - 82	Limestone, tan to salmon, subcrystalline to dense	
4182 - 99	Limestone, as above; much red to tan to buff, subcrystalline, silicified limestone; some chert, as above	
4199 - 4215	Limestone and chert as above, very shaly	
4215 - 26	Limestone, green to gray-green, subcrystalline to dense; some silicified limestone and chert, as above	
4226 - 47	Mostly shale, light green to gray to dark red; trace gray, opaque chert, some flesh, opaque chert; much nodular weathered limestone and silicified limestone, as above	
4247 - 58	Much hard, brick-red; shale; much shale, as above; much gray, finely micaceous shale; some chert	Top Conglomerate 4247
4258 - 73	Chert, white to tan to brown, opaque, devitrified, porous; some cream, subcrystalline silicified limestone; probable streaks shale, as above	Top Mississippi 4258 slight show free oil; D.S.T. 4256-85

-5-

Formation Log
McKusab #1 Donner

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4273 - 85	Shale, as above; much chert, as above	Top Kinderhook 4273
4285 - 4306	Chert, as above; much white, opaque, vitreous chert; much white to brown, porous devitrified chert; streaks gray to green shale	Top Viola 4306; slight stain, no free oil
4306 - 11	Limestone, tan, subcrystalline probably some chert, as above	
4311 - 36	Increase in chert, as above; much cream to white to salmon, vitreous translucent to opaque, figured chert; limestone, cream to white, medium crystalline; some streaks pale green waxy shale; streaks porosity	No show
4336 - 50	Limestone, tan to green subcrystalline; some tan to white, weathered, medium crystalline limestone; some chert	
4350 - 70	Increase in chert, as above; some pink to white to red and white, subvitreous, opaque chert; streaks pale green shale; much amber to ochre to tan, subvitreous, semi-translucent chert; streaks porosity	No show
4370 - 96	Much pale green, subvitreous to vitreous chert; increase in white to cream, opaque, vitreous chert; limestone, cream to white, finely crystalline to medium crystalline	
4396 - 4409	Limestone, cream to white, subcrystalline, chalky, sandy	
4409 - 22	Shale, light to dark green, some sandy green shale	Top Simpson 4409
4422 - 30	Sand, white, glassy, medium to fine, well sorted, rounded to sub-rounded, feldspathic	No show
4430 - 41	Shale, and streaks sand, as above	
4441 - 49	Sand, gray to light gray-green, coarse to very fine, poorly sorted, angular to subangular, dolomitic, shaly	

Formation Log
McKasb #1 Donner

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4449 - 69	Shale, as above; shale, pale, dirty green, sandy; trace tan, finely sucrose, very argillaceous dolomite	
4469 - 71	Chert, white, subvitreous to vitreous, oolitic; possible trace tan, very finely sucrose dolomite	Possible Top Arbuckle 4469; probably Ordovician. Conglomerate 4469-71
4471 - 77	Sand, white, rounded to subangular poorly sorted, frosted to glassy, slightly dolomitic	No show
4477 - 84	Dolomite, tan to buff, finely sucrose, slightly sandy; trace buff, finely crystalline, oolitic dolomite	Definite Arbuckle 4477; No show
4484 - 87	Dolomite, tan, finely crystalline, rhombohedral, fair spotted vugular porosity; chert, white, vitreous, sandy	No show
4487 - 90	Dolomite, tan to buff, subcrystalline; some included sand grains.	
4490	Total depth	
	D & A 6-2-55	

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

Lansing Kansas City:

D.S.T. #1 3942-53; Open 45 minutes-weak blow which died in 8 minutes; flushed tool at 30 minutes and again had weak blow for 1 minute.
Recovered 30' mud with few spots oil
Bottom Hole Pressure 125 PSI (20 minutes)

D.S.T. #2 4006-40; Open 1 hour - weak blow throughout test
Recovered 40' watery mud with few spots oil
Bottom Hole Pressure: 1360 PSI (20 minutes)

Mississippi:

D.S.T. #3 4256-85; Open 45 min - weak blow for 30 minutes, flushed tool and had weak blow for 8 minutes.
Recovered 50' mud
Bottom Hole Pressure 225 PSI (20 minutes)

Samples examined and log compiled by
Willis Jack Magathan

TIME LOG

7/10/61 - 2, 301015

McKee #1 Donner
NE NW NE; 7-26S-13W
Pratt County, Kansas
Elevation: 1961 Kelly bushing

Note: All measurements are taken from the top of the Kelly bushing.

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3300 - 10	3-2-2-2-2-3-3-3-3-2	
20	4-5-3-3-5-2-2-2-3-3	
30	3-4-2-3-5-3-3-3-4-5	
40	5-7-5-5-4-7-3-2-2-4	
50	6-6-3-4-4-4-3-3-2-3	
60	5-2-2-3-2-2-2-3-4-5	
70	5-3-3-3-4-4-2-3-3-3	
80	3-4-2-1-1-1-2-2-2-2	
90	3-2-3-3-3-4-5-3-4-3	
90 - 3600	2-1-2-3-4-5-3-2-7-7	
3600 - 10	8-7-8-6-5-5-6-6-6-8	
20	10-6-4-2-3-3-2-5-10-12	Top Reebner 3611
30	8-4-2-2-3-3-3-4-4-9	
40	4-5-5-5-6-4-4-6-7-7	
50	5-4-5-6-5-8-8-8-7-6	
60	5-4-5-7-8-7-4-2-2-3	
70	3-3-3-2-2-2-3-3-2-3	
80	2-3-3-3-3-3-3-3-3-3	
90	3-3-3-2-4-3-2-2-3-3	
90 - 3700	3-3-3-3-3-3-3-3-3-2	
3700 - 10	2-3-5-2-3-3-3-3-3-3	
20	4-2-2-2-3-3-2-3-2-3	
30	3-2-3-3-2-3-3-3-3-2	
40	3-3-3-3-2-3-3-3-3-3	
50	3-4-2-4-4-3-3-3-4-4	
60	2-2-4-2-3-2-3-2-3-2	
70	3-2-2-3-3-5-2-3-14-11	Top Brown Line 3768
80	10-8-2-2-5-5-3-4-7-5	
90	6-6-5-6-6-6-6-5-7-6	
90 - 3800	7-3-4-8-8-5-4-3-6-8	Top Lansing 3793
3800 - 10	5-6-4-8-8-6-9-9-8-10	
20	9-16-8-6-14-16-15-11-8-4	
30	19-14-17-9-14-10-15-14-10-7	
40	10-10-10-8-7-10-9-14-14-10	
50	13-12-14-13-15-7-6-2-4-4	Trip 3845 OWV
60	3-5-5-5-6-6-4-7-10-10	
70	10-9-11-14-13-13-12-13-9-11	
80	11-12-9-10-12-13-15-11-14-19	
90	19-16-11-9-10-12-18-8-6-12	
90 - 3900	7-9-8-13-9-5-9-9-7-10	

-2-

Time Log
McKrab El Donner

Depth	Time	Remarks
3900 - 10	10-13-24-19-18-11-10-17-14-8	
20	14-9-18-4-11-9-9-15-10-10	
30	12-10-11-12-14-15-9-10-12-10	
40	14-15-9-10-13-13-15-24-25-20	
50	20-30-21-6-5-20-4-2-4-2	Circ. 1 hr. 3946
		Trip 3946 - W7
60	4-15-17-7-13-13-10-13-14-15	Circ. 1 hr 3953 DST.
		3942-53
70	5-5-5-16-12-10-9-10-9-11	
80	9-8-10-20-13-8-12-15-12-12	
90	7-8-4-4-5-9-10-9-10-6	Circ. 1 hr. 3987
90 - 4000	6-7-8-3-3-3-4-5-3-2	
4000 - 10	4-7-8-10-12-12-12-12-13-15	Circ. 1 hr. 4004
20	14-8-6-8-5-10-10-14-12-6	Circ. 1 hr. 4020
30	5-4-5-4-5-6-6-6-12-11	
40	13-14-15-10-9-9-8-8-12-18	Circ. 30 min 4040
		D.S.T. 4006-40;
		New W7 @ 4040
50	9-9-18-14-14-12-11-11-11-11	
60	14-10-11-10-12-7-6-8-8-4	
70	6-12-13-7-7-9-4-5-8-5	
80	6-4-5-19-10-14-17-12-13-9	
90	8-5-4-18-20-12-13-14-12-16	
90 - 4100	12-13-13-13-13-13-12-11-10-12	
4100 - 10	13-8-8-17-14-18-15-19-8-7	Base Kansas City 4108
		Top Marmaton 4108
20	8-7-6-4-4-4-4-6-5-5	
30	3-7-5-5-5-11-14-12-13-12	
40	6-6-4-5-5-11-12-11-12-15	
50	10-11-14-14-8-15-9-7-8-10	
60	10-9-5-6-13-21-20-17-14-13	
70	15-15-13-13-15-18-14-30-8-7	
80	8-8-9-9-13-16-13-10-11-12	
90	10-12-9-5-8-9-13-5-5-8	
90 - 4200	9-5-12-10-10-12-10-10-10-8	
4200 - 10	7-9-9-9-7-10-10-7-6-8	
20	7-5-10-8-8-13-16-8-7-8	
30	12-9-9-9-8-9-5-5-5-5	Trip 4225, W7
40	5-5-5-4-5-5-4-3-5-5	
50	5-4-4-4-3-5-5-4-4-4	Circ. 1 hr. 4241
		Top Conglomerate 4247

-3-
Time Log
McKrab #1 Donner

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
4250 - 60	4-5-5-6-6-7-5-5-3-1	Top Mississippi 4258
70	1-1-1-1-1-1-2-1-3-4	Circ. 1 1/2 hr @ 4265
80	3-3-2-3-4-3-4-2-5-3	Top Kinderhook 4273
90	5-3-6-4-6-3-3-3-4-3	Circ. 1 hr 4283; D.S.T. 4256-85; new W7 @ 4285; Top Viola
90 - 4300	5-4-6-4-4-4-4-5-6-6	
4300 - 10	4-5-5-5-5-5-14-11-10-10	
20	11-9-8-7-6-9-11-9-11-8	
30	8-8-9-8-12-9-8-6-10-11	
40	6-15-12-12-12-13-16-18-23-21	
50	20-26-21-13-15-16-20-6-8-10	Trip 4347; W7R
60	7-9-12-13-8-6-9-7-4-5	
70	8-6-5-4-9-6-5-5-8-7	
80	18-17-20-17-48-5-3-4-3-3	
90	5-6-5-6-5-5-5-9-6-4	
90 - 4400	5-5-7-5-5-5-9-8-10-15	
4400 - 10	17-18-14-18-11-13-12-14-13-10	Top Simpson 4409
20	13-12-14-13-11-12-15-18-15-13	
30	17-21-16-15-11-16-27-15-26-31	Circ. 1 hr. 4427; Trip 4427; W7R
40	26-13-16-13-13-14-11-14-12-15	
50	14-19-17-19-16-16-18-13-19-11	
60	13-14-13-9-9-12-12-9-9-10-	
70	11-12-12-13-13-13-9-11-12-10	Possible Top Arbuckle 4469
80	11-3-2-2-2-2-1-13-14-15	Circ. 1 1/2 hr. 4478
90	18-15-16-20-12-11-12-19-19-14	Definite Arbuckle 4477 Total Depth 4490 D & A.