

Deep Rock #8 Strait
 Apprx. SE SE NW; 33-268-13W
 330' PSL & 490' PEL NW
 Pratt County, Kansas
 Elevation: 1958 Derrick floor

8-5/8" surface csg 865'; 240 sacks cement
 63 sacks strata-crete
 4% gel. 100 sacks omt
 1% c.c.
 5-1/2" casing 1470'; 275 sacks cement

Note: All measurements are taken from the top of the rotary bushing, which is 2 feet above the derrick floor.

Depth	Formation Description	Remarks
0- 225	Surface sand & clay	Drillers log 0-3100
225- 540	Sand, clay & shale	
540- 824	Sand & shale	
824- 847	Anhydrite	Stone Corral (drillers top)
847- 870	Shale	
870-1545	Shale & sand	
1545-1730	Shale	
1730-1925	Limestone & shale	
1925-2105	Shale & shells	
2105-3100	Limestone & shale	
3100-3126	Mostly limestone, gray-brown, sub-crystalline, Sample log 3100-TD argillaceous; streaks gray-green shale	
3126-3150	Shale, gray-black to gray-green, some silty, micaceous.	
3150-3154	Limestone, white to blue-gray, sub-crystalline	Possible Top Topeka 3150 ?
3154-3213	Limestone, as above; Shale, gray-green & brown, some silty	
3213-3228	Shale, as above, silty, micaceous; some fine gray siltstone.	
3228-3241	Limestone, brown, dense resinous	Porous on electric log Probable top Topeka 3228
3241-3248	Limestone, as above	No porosity
3248-3254	Shale, brown, gray & gray-green, much red, weathered shale.	
3254-3258	Limestone, gray-brown, dense to sub-crystalline	Porous on electric log
3258-3270	Limestone, as above	No porosity
3270-3294	Limestone, as above	Porous on electric log
3294-3309	Limestone, gray-brown, sub-crystalline to dense, fossiliferous	
3309-3320	Limestone, gray-white, finely crystalline; very finely oolitic; fair oolitic porosity	No show
3320-3332	Limestone, as above	No porosity
3332-3340	Limestone, porous as above	No show
3340-3345	Limestone, cream to buff, sub-crystalline	
3345-3354	Limestone, cream to gray, finely crystalline, oolitic, fair oolitic porosity	No show

Depth	Formation Description	Remarks
3354-3386	Limestone, gray to tan, finely crystalline to dense, some argillaceous; streaks gray shale	
3386-3395	Limestone, tan to buff, sub-crystalline, fair spotted vugular porosity	No show
3395-3402	Limestone, as above	No porosity
3402-3412	Limestone, light gray to buff, resinous, finely crystalline; spotted vugular porosity	No show
3412-3418	Limestone, tan, dense; Trace tan opaque chert	
3418-3423	Shale, gray & gray-green	
3423-3425	Limestone, as above, oolitic; fair oolitic porosity	Possible trace stain ?
3425-3443	Limestone, brown to black, dense	
3443-3448	Limestone, tan to gray, sub-crystalline; spotted vugular porosity	
3448-3474	Limestone, gray to white, sub-crystalline to dense, fossiliferous; streak gray & gray-black shale 3456-60	
3474-3558	Limestone, blue-gray to buff, sub-crystalline, fossiliferous; spotted vugular porosity	No show
3558-3579	Limestone, gray to tan, sub-crystalline to finely crystalline; fair vugular porosity	Trace stain; some dead stain
3579-3589	Limestone, brown, sub-crystalline to dense; streaks gray-black shale.	
3589-3592	Limestone, as above	Porous on electric log
3592-3602	Limestone, as above, no porosity	
3602-3608	Shale, brown-black, fissile, micaceous	Heebner
3608-3612	Limestone, brown-gray, finely crystalline to dense	Leavenworth
3612-3623	Shale, gray-green, trace brown	Snyderville
3623-3628	Limestone, cream to light gray, finely crystalline to sub-crystalline	Toronto 3623-43
3628-3640	Mostly gray & brown shale; streaks limestone, as above	
3640-3643	Limestone, as above	Probable Base Oread 3643
3643-3668	Shale, gray, gray-green & brown, some silty	Douglas
3668-3704	Sand, fine, gray-sub-angular, micaceous, argillaceous	
3704-3766	Shale, as above; streaks sand, as above	
3766-3770	Limestone, brown, dense, blocky	Brown Lansing
3770-3791	Limestone, as above; streaks gray shale	
3791-3818	Limestone, tan to light gray, finely crystalline to sub-crystalline; streaks gray shale	Top Lansing 3791
3818-3829	Limestone, tan to light gray, sub-crystalline, finely sucrose; fair vugular and pinpoint porosity	Fair odor; trace free oil
3829-3847	Limestone, brown, dense; chert, brown opaque; streaks gray shale	
3847-3856	Limestone, tan, sub-crystalline, finely oolitic; poor vugular and oolitic porosity.	Trace stain

Depth	Formation Description	Remarks
3856-3877	Limestone, brown to tan, sub-crystalline; trace gray, opaque chert	
3877-3880	Limestone, brown, finely crystalline, finely sucrose, fair vugular porosity	Good stain
3880-3885	Limestone, brown, sub-crystalline	
3885-3889	Limestone, as above, poor vugular porosity	Fair stain
3889-3895	Limestone, as above; shale streaks	
3895-3904	Limestone, as above; chert gray opaque; porous as above.	Fair stain
3904-3909	Limestone, gray to olive-brown, dense; chert, brown, opaque	
3909-3928	Limestone, dirty brown, sub-crystalline; poor spotted pinpoint porosity	No show
3928-3937	Limestone, gray to tan, sub-crystalline; chert, gray, opaque, earthy.	
3937-3944	Shale, gray-green & brown	
3944-3948	Limestone, tan to brown, oolitic, very finely sucrose, fair oolitic porosity	Good odor; fair spotted show free oil
3948-3959	Mostly shale, green & brown; streaks limestone, as above	
3959-3966	Limestone, tan, sub-crystalline, oolitic; good oolitic porosity	Fair odor, slight show free oil
3966-3973	Limestone, gray-brown, sub-crystalline to dense, some oolites	
3973-3982	Limestone, light gray-, oolitic, fair spotted vugular & oolitic porosity	Fair odor, slight show free oil
3982-3990	Limestone, dense, as above	
3990-3999	Limestone, tan to brown, sub-crystalline, oolitic, good honeycomb porosity	Good odor, good show free oil
3999-4009	Limestone, gray to tan, dense, lithographic; chert, gray-opaque, fossiliferous; shale, gray-green & brown	
4009-4014	Limestone, tan, finely sucrose, oolitic, fine pinpoint porosity	Good stain
4014-4024	Limestone, gray, sub-crystalline; streaks green & brown shale	
4024-4028	Limestone, gray to tan, mottled, sub-crystalline, crypto-oolitic, good vugular porosity	Good stain
4028-4064	Mostly limestone, tan to brown, finely crystalline to sub-crystalline; chert, gray, opaque to semi-translucent; streaks green & brown shale 4057-62	
4064-4068	Limestone, gray to brown, dense to sub-crystalline; chert, gray to tan, opaque to translucent	Porous on electric log
4068-4111	Limestone, brown-black, dense to sub-crystalline; chert, gray to tan, opaque to translucent. Streaks gray, green & brown shale	Probable Base Kansas City 4111
4111-4150	Limestone, gray-black, granular; limestone, green, sub-crystalline; chert, gray to buff, opaque and green to rust, translucent. Streaks green & brown shale.	Top Permian 4111

Depth	Formation Description	Remarks
4150-4155	Limestone, tan to brown, finely crystalline to sub-crystalline, fossiliferous, some oolites; chert, as above	Porous on electric log
4155-4164	Mostly shale, as above; some streaks limestone, as above	
4164-4167	Limestone, as above	Porous on electric log
4167-4180	Limestone, gray-green & brown, sub-crystalline, resinous; increase in devitrified and semi-devitrified chert; streaks shale, as above	
4180-4199	Chert, white to tan, opaque, vitreous, some pale green, devitrified, some white devitrified; much gray & green shale	Top Mississippi 4180
4199-4221	Chert, white, opaque, vitreous, fossiliferous, white to tan, semi-devitrified, some citrine to white to amber, translucent	Trace stain
4221-4236	Shale, gray & gray green, some silver-gray, micaceous; streaks gray to brown, sub-crystalline, fossiliferous limestone	Top Kinderhook 4221
4236-4256	Chert, white, opaque, vitreous to semi-vitreous, some salmon to burnt amber to gray, translucent, vitreous, some blue-white to tan, devitrified.	Trace odor, fair spotted stain
4256-4282	Shale, gray to gray-green, micaceous, some silty; trace fine, gray-green, silty sand, much black shale, some brown-gray, argillaceous, nodular limestone	
4282-4326	Chert, white, opaque, vitreous to semi-vitreous; chert, brown to black, devitrified, some salmon to amber, semi-translucent, vitreous chert	Top Viola 4282. Fair odor, good stain, slight show free oil
4326-4333	Chert, as above, much shale, as above	
4333-4335	Limestone, white, chalky, large clear, rounded, included sand grains	
4335-4342	Shale, pale green to bright blue-green sandy	Top Simpson 4335
4342-4354	Sand, medium, sub-rounded, fairly well sorted; thin streaks bright green sandy shale	Slight odor, spotted saturation
4354-4359	Sand, medium poorly sorted, rounded, calcareous; streaks shale, as above	
4359-4372	Dolomite, tan to brown, finely crystalline to sub-crystalline, sandy, spotted vugular porosity	Spotted shows dead black stain
4372-4435	Much sand, as above; shale, gray-green to gray to black, some black, phosphatic inclusions; dolomite, brown to tan, finely crystalline to sub-crystalline	
4435-4437	Dolomite, tan to buff, finely crystalline	Possible top Weathered Arbuckle 4435
4437-4441	Dolomite, tan to buff, finely crystalline; chert; gray to white with amber oolites	Top Solid Arbuckle 4437

Depth	Formation Description	Remarks
4441-4448	Dolomite, gray to brown, finely crystalline, good vugular porosity; dolomite, buff, finely crystalline, oolitic, good oolitic porosity	Good odor, good show free oil
4448-4451	Dolomite, brown to tan, finely crystalline to sub-crystalline; chert, gray, opaque	
4451-4453	Dolomite, tan, medium crystalline, oolitic, good oolitic porosity	Slight stain
4453-4461	Dolomite, brown to tan, finely crystalline; chert, gray, opaque	
4461-4468	Dolomite, tan to buff, medium to finely crystalline, fair vugular porosity; chert, gray, opaque, oolitic	Trace stain
4468-4473	Dolomite, tan to buff, finely crystalline	
4473	Total Depth	

DRILL STEM TESTS:

Lansing:

3809-35; open 1 hour - fair blow throughout test.
Recovered 120' gas and 35' slightly gas out mud.
BHP 50% (15 min.)

3971-4000; open 1 hour - fair blow which decreased to small blow and died in 37 minutes.
Recovered 60' slightly oil out mud.
BHP 70% (15 min.)

Mississippi:

4184-4200; open 1 hour - weak blow for 10 minutes.
Recovered 15' mud.
BHP 0 (15 min.)

Kinderhook:

4235-63; open 1 hour - strong blow throughout test, gas to surface in 50 minutes.
Recovered 60' gas out mud.
BHP 1025% (15 min.)

Viola:

4281-4330; open 1 hour, strong blow throughout test.
Recovered 150' slightly oil out mud.
BHP 230% (15 min.)
IFP 20%
FFP 50%

Arbuckle:

4434-45; open 1 hour - strong blow throughout test, gas to surface in 1 hour.
Recovered 270' muddy oil and heavily oil out mud,
750' clean oil
600' salt water
BHP 1380%

Samples examined and log compiled by Willis Jack Magathan.

WENDELL S. JOHNS

Deep Rock #8 Strait
Approx. SE SE NW 33-268-13W
Pratt County, Kansas
Elevation: 1958 Derrick Floor

Note: All measurements are from the top of the rotary bushing
which is 2 feet above the derrick floor.

1' time log starts @ 3100'

Depth	Time	Remarks
3100- 10	4-4-5-6-5-6-4-6-7-7	
20	13-10-6-5-5-5-4-5-4-4	
30	5-4-4-6-5-5-3-2-2-2	
40	2-2-2-2-2-1-2-3-2-3	
50	2-2-2-2-2-2-2-2-2-2	
60	3-8-6-6-5-3-3-2-2-4	Possible top Topeka 3150
70	3-3-3-5-4-6-7-5-5-4	
80	6-4-4-3-2-2-5-5-5-3	
90	5-4-4-3-3-6-4-4-4-5	
3190-3200	3-5-4-4-3-3-3-4-3-4	
10	5-6-5-5-4-4-4-3-4-3	
20	5-8-10-7-3-3-3-3-3-3	
30	3-3-3-2-2-2-2-2-3-3	
40	3-3-2-3-3-1-2-2-3-4	Probable top Topeka 3228
50	3-4-6-6-8-5-5-3-3-2	
60	3-4-3-3-4-4-4-3-6-5	
70	6-6-7-7-7-7-9-7-6-6	
80	5-5-5-5-5-5-4-3-4-8	
90	5-4-3-2-4-4-3-3-3-3	
3290-3300	2-2-2-2-4-5-7-7-3-4	
10	6-5-6-6-5-5-6-7-4-3	
20	2-2-3-2-2-2-3-4-2-2	
30	6-4-6-7-8-3-2-3-4-4	
40	3-4-2-3-1-1-2-1-1-1	Trip 3325
50	2-2-2-4-4-4-4-5-4-4	
60	3-3-3-2-3-3-3-4-5-5	
70	4-6-7-6-5-6-4-5-6-6	
80	7-5-5-5-6-5-7-7-6-7	
90	7-7-7-7-9-6-6-4-4-3	
3390-3400	5-4-2-3-2-6-6-5-5-6	
10	4-3-3-3-3-2-2-3-4-4	
20	4-4-9-6-9-7-6-4-2-2	
30	3-4-4-6-5-4-6-9-10-7	
40	5-6-7-6-8-7-3-2-4-3	
50	4-2-3-2-3-2-2-2-3-2	
60	3-6-6-9-7-7-6-4-4-4	
70	8-6-12-8-9-7-8-7-7-6	
80	5-5-5-5-5-5-5-4-4-3	
90	3-2-3-5-7-3-4-4-5-5	

Depth	Time	Remarks
3490-3500	5-4-4-3-4-4-3-3-4-4	
10	3-3-3-5-5-4-5-5-3-2	
20	2-2-3-5-6-3-2-3-3-4	
30	5-5-4-3-3-4-2-3-2-3	
40	4-5-4-3-3-3-3-3-4-3	
50	3-4-3-3-2-1-2-2-2-3	
60	2-3-3-5-4-4-6-6-5-3	
70	2-1-1-2-3-2-3-2-3-2	
80	3-3-3-2-2-2-2-3-3-3	
90	3-4-6-3-5-5-5-4-10-7	
3590-3600	4-10-12-8-7-7-5-3-10-7	
10	8-8-6-3-2-3-3-1-2-10	Top Heebner 3602; Trip 3610
20	8-7-3-3-3-3-3-3-3-4	
30	4-3-2-8-6-7-9-8-5-4	
40	1-4-5-5-6-6-6-6-4-5	
50	6-5-7-4-3-2-3-1-2-3	
60	2-3-3-2-2-2-2-3-2-3	
70	3-3-4-3-4-3-4-4-2-2	
80	2-2-2-2-1-2-1-4-4-14	
90	1-2-1-2-1-2-1-2-1-2	
3690-3700	2-1-1-1-1-2-1-1-1-1	
10	2-1-2-2-6-2-4-5-2-3	
20	3-2-3-3-3-3-3-3-3-3	
30	2-4-3-3-2-3-4-3-2-4	
40	3-3-3-3-3-3-3-3-3-3	
50	3-3-3-3-2-3-3-2-3-4	
60	2-3-3-3-2-3-4-3-3-3	
70	4-4-3-3-4-3-9-8-8-9	
80	7-8-5-4-5-6-6-5-4-4	
90	6-5-5-5-10-7-7-5-5-7	
3790-3800	5-9-8-12-11-9-9-10-10	
10	15-6-7-9-8-4-4-5-10-7	
20	7-6-6-5-8-8-8-8-6-5	
30	4-3-5-5-5-4-4-4-4-5	
40	7-5-6-8-6-11-8-8-8-8	
50	7-4-4-7-3-3-4-3-3-2	
60	3-2-3-4-3-3-4-6-6-5	
70	7-6-7-6-6-7-7-6-5-6	
80	5-6-8-8-8-10-10-8-6-8	
90	4-4-7-7-3-5-4-3-3-5	
3890-3900	5-5-2-3-4-4-3-3-6-6	
10	8-6-4-6-5-6-8-9-11-10	
20	10-11-10-10-9-7-6-7-9-9	
30	10-11-16-19-19-11-9-7-8-8	
40	8-9-15-13-13-13-14-12-8-8	
50	8-11-10-9-7-6-5-8-12-9	
60	8-9-10-11-11-11-13-11-8-7	
70	6-7-7-7-8-8-11-11-12-12	
80	12-11-11-5-6-6-9-11-12-6	
90	5-6-7-12-10-11-13-13-11-9	
3990-4000	5-3-4-3-4-4-7-4-6-13	
		Circ 14 hr 3835 New bit 3835; Det 3835
		Circ 14 hr 3970
		Circ 14 hr 4000; New bit 4000; Det 4000

Depth	Time	Remarks
4000-4010	8-9-9-10-8-8-8-8-5	
20	5-8-8-7-9-16-10-10-8-10	
30	3-11-9-10-7-5-3-5-5-11	
40	12-12-12-12-10-14-14-11-9-11	
50	10-11-11-11-11-13-14-13-13-15	
60	13-12-11-10-12-9-11-10-9-12	Trip 4051
70	7-9-11-10-8-4-2-5-5-9	
80	11-12-7-8-8-7-7-7-7-6	
90	6-4-6-10-12-3-5-6-7-7	
4090-4100	7-5-5-7-7-7-8-8-8-8	
10	8-8-5-7-7-7-5-8-7-8	Probable Base Kansas
20	3-7-7-9-8-8-8-7-7	City 4111
30	6-7-7-10-13-13-12-11-11	
40	11-9-9-9-9-8-10-12-19-15	Trip 4139
50	19-12-9-12-14-11-12-10-13-14	
60	12-11-11-9-10-12-11-12-11-10	
70	15-8-9-10-6-9-10-14-18-10	
80	14-12-9-10-14-22-14-17-12-13	Top Mississippi 4180;
90	15-17-15-22-8-9-11-7-9-8	Trip 4185;
4190-4200	10-10-9-8-12-12-10-7-6-7	Circ 1 1/2 hrs 4200
10	4-5-5-4-6-6-6-6-6-5	New bit @ 4200; DST 4200
20	6-5-5-6-6-6-5-6-8-6	
30	7-10-14-12-15-13-15-14-16-17	Top Winderhook 4221
40	8-14-14-14-14-15-7-6-5-5	
50	6-5-5-4-5-5-5-5-5-5	
60	4-5-5-6-5-7-7-7-7-7	
70	11-11-15-9-10-13-13-11-12-11	Circ 1 1/2 hrs 4263
80	13-13-13-10-11-12-11-8-8-9	New bit @ 4263; DST 4263
90	11-9-7-5-5-6-7-9-6-6	Top Viola 4282
4290-4300	5-5-6-5-6-5-5-3-6-4	
10	4-4-6-4-3-6-3-8-8-8	Trip @ 4307
20	3-9-13-4-12-8-9-16-10-12	
30	14-12-8-7-7-5-7-7-9-10	Circ 1 1/2 hrs 4330
40	7-8-8-8-8-8-11-7-5-7	New bit @ 4330; DST 4330
50	10-11-7-10-12-11-10-13-12-13	Top Simpson 4335
60	14-12-5-5-x-5-5-7-7-5	Circ 1 1/2 hrs 4347
70	4-6-7-7-8-8-11-12-14-19	Belly Corr 4354 = 55
80	15-10-8-7-6-8-4-4-5-5	Circ 1 1/2 hrs 4360
90	6-7-7-8-6-7-7-8-7-7	Trip @ 4370
4390-4400	3-10-7-7-6-6-7-7-8-9	
10	3-8-10-11-10-11-9-11-11-9	
20	10-9-10-10-9-10-11-11-10-9	
30	8-8-10-13-11-10-11-12-9-10	Trip 4428
40	13-9-12-13-9-7-7-8-6-7	Possible Top Weathered
50	8-7-5-8-8-5-5-5-6-6	Arbuckle 4435; Top Solid
60	9-8-8-9-8-11-11-10-7-9	Arbuckle 4437
70	8-11-11-11-8-9-9-9-12-13	Circ 1 1/2 hr 4445; New bit
73	22-20-17	4445; DST 4445
4473	Rotary Total Depth	Circ 1 1/2 hrs 4473

Time log condensed by Willis Jack Magathan.