

Computer inventoried

Deep Rock #1 McCandless
 NWc/3 $\frac{1}{2}$ Lot 4; 1-26S-14W
 Pratt County, Kansas
 Elevation: 1983 derrick floor

10 3/4" surface casing 801'; 500 sacks

WENDELL C. JOHNS

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

Depth	Formation Description	Remarks	
0 - 240	Sand & gravel	Drillers log 0 - 3500'	
240 - 370	Shale & shells		
370 - 580	Red bed & shells	Stone Corral	
580 - 805	Red bed, sand & shells		
805 - 840	Anhydrite		
840 - 1450	Sand, shale & shells		
1450 - 1600	Shale, salt & shells		
1600 - 1817	Shale & shells		
1817 - 2185	Limestone		
2185 - 2295	Limestone & shale		
2295 - 2435	Shale & sand		
2435 - 2675	Shale		
2675 - 2810	Shale & limestone streaks		
2810 - 3160	Shale & limestone		
3160 - 3210	Broken limestone		
3160 - 3210	Broken limestone		
3210 - 3350	Limestone & shale		
3350 - 3500	Shale & limestone		
<u>Sample log starts 3500'</u>			
3500 - 3582	Limestone: tan to brown, finely crystalline, oolitic; some gray, mottled chert.		Heebner Leavenworth Snyderville
3582 - 3586	Shale: brown & gray		
3586 - 3603	Limestone: as above		
3603 - 3609	Shale, black-brown, soft, fissile	Dodge	
3609 - 3612	Limestone: gray to brown, dense		
3612 - 3617	Shale: gray to green-gray, finely micaceous.		
3617 - 3645	Limestone: white to light brown, calcitic; some red brown crystalline limestone.	Base Oread 3645 Douglas	
3645 - 3661	Shale: red-brown & green		
3661 - 3693	Sand, fine, gray, micaceous	Brown Lansing	
3693 - 3757	Shale: gray, brown; some sand, as above.		
3757 - 3763	Limestone: brown, dense		
3763 - 3783	Shale: gray	Lansing	
3783 - 3791	Limestone: as above; gray shale streak at bottom.		
3791 - 3813	Limestone: light brown, finely crystalline, oolitic; streak gray-green shale		
3813 - 3829	Limestone: tan, trace oolite casts & some oolites.	Some vugular porosity, slight odor, very slight trace free oil & stain.	
3829 - 3837	Limestone: gray to tan, dense to crystalline; streaks gray shale.		
3837 - 3846	Limestone: gray to tan, crystalline		
		Some vugular porosity; no odor no free oil; possible trace stain.	

(2) Formation log; Deep Rock #1 McCandless.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3846 - 3873	Limestone: gray to brown, dense to finely crystalline; chert, dark brown & blue-gray, opaque to translucent; streaks gray & brown shale.	
3873 - 3885	Limestone: brown to gray, crystalline to finely crystalline; chert, as above.	Possible trace porosity; no show
3885 - 3932	Limestone: brown to tan, dense to sub-crystalline; chert, gray, opaque; some gray, green & brown shale.	
3932 - 3936	Limestone: tan, sub-crystalline to sucrose	Good vugular porosity; very slight odor; slight stain; a little free oil.
3936 - 3965	Limestone: brown to tan, dense, some light brown, finely crystalline; streak gray shale.	
3965 - 3970	Limestone: tan to brown, oolitic; dense to sub-crystalline	Fair oolitic & vugular porosity; slight stain, no odor
3970 - 3978	Limestone: tan, dense to sub-crystalline	
3978 - 3986	Limestone, tan, sub-crystalline	Good oolitic porosity; trace free oil & stain; possible trace odor.
3986 - 3996	Limestone, gray to tan, dense	
3996 - 3999	Limestone: as above	Trace oolitic porosity; trace stain.
3999 - 4019	Limestone, tan to brown, dense to sub-crystalline; trace gray chert; streak gray shale	
4019 - 4025	Limestone, tan to gray; sub-crystalline	Some oolitic & vugular porosity; slight trace stain; no odor.
4025 - 4035	Limestone; as above; chert, white to gray	No porosity
4035 - 4038	Limestone: gray, dense	Some vugular porosity; trace dead stain
4038 - 4115	Limestone: tan to brown, finely crystalline, to dense; some gray & brown translucent chert. Streaks gray, brown & black shale	Base Kansas City 4115??
4115 - 4201	Limestone: finely crystalline, granular to dense, gray to brown; much chert, white to gray, opaque, vitreous to devitrified; streaks gray, green & brown shale.	
4201 - 4214	Chert: white, tan & gray, opaque to translucent, devitrified; possibly some brown & gray shale.	Conglomerate.
4214 - 4226	Chert, white to brown, opaque, vitreous to devitrified	Possibly Mississippian; some good porosity; good stain, slight odor.
4226 - 4288	Shale, green, brown & gray; some gray dolomitic shale, some amber translucent chert.	Kinderhook
4288 - 4293	Chert: Amber to light brown, translucent, vitreous.	
4293 - 4297	Shale, as above.	
4297 - 4311	Chert: white to light gray opaque and light gray to brown translucent.	Viola; trace dead oil stain
4311 - 4336	Chert: white, opaque, semi-vitreous, some devitrified with trace dead oil.	Live oil stain; trace free oil, no odor.

(3) Formation log; Deep Rock #1 McCandless.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4336 - 4356	Limestone: white, crystalline; considerable white, opaque, semi-vitreous chert.	
4356 - 4358	Limestone: as above, sandy; shale, green.	
4358 - 4362	Shale: green, sandy	Simpson
4362 - 4378	Sand: medium to coarse, sub-angular to rounded	Possibly some stain
4378 - 4380	Shale, green	
4380 - 4383	Sand: as above	
4383 - 4412	Shale: brown, gray & green; trace brown dense limestone & gray, glassy, impure sand.	
4412 - 4416	Streak bright green shale	
4416 - 4425	Shale: as above; trace sand, angular to rounded, clean, glassy.	No show
4425 - 4427	Shale, green	
4427 - 4448	Dolomite: tan to buff, finely crystalline tight; chert, white opaque.	Arbuckle
4448 - 4455	Dolomite: tan, sub-crystalline to finely crystalline	Oolitic porosity; no show
4455 - 4478	Dolomite: white to light tan, crystalline to finely crystalline; some coarsely rhombedral; white oolitic chert; amber translucent chert.	Porous; no show
4478	TOTAL DEPTH DRY AND ABANDONED NOVEMBER 1, 1950.	
D.S.T. 3932-40/ open 1 hour; very small blow for 18 min./ rec. 25' very slightly oil cut mud. B.H.P. 0		
D.S.T. 3966 - 88/ open 1 hour; small blow for 30 min., intermittent blow rest of hour/ rec. 45' salt water and mud, no oil B.H.P. 1200#		
D.S.T. 4297 - 4330/ open 1 hour; good blow throughout/ rec. 390' mud and salt water. B.H.P. 1330#		
D.S.T. 4349-75/ open 1 hour; very small blow which quit in 45 min/ rec. 32' mud, no water or oil. B.H.P. 785# (10 min; still building up)		
D.S.T. 4429-4478/ open 45 min; very good blow throughout; rec. 1695' salt water. B.H.P. 1550#		
Cored: 4353 - 65; recovered 12' 4353 - 56; Limestone, hard, brown, coarsely crystalline 4356 - 58; Limestone, gray to brown, finely crystalline, hard; streaks light green shale; many small rounded, white sand grains. 4358 - 4362; Green shale with a few sand streaks & streaked with phosphate nodules. 4362 - 4365; Sand, medium, sub-angular to sub-rounded, much siliceous cement at top and much calcareous cement at bottom. Fair show oil in bottom 1½ to 2 feet.		

Cored: 4365 - 75; recovered 10'

4365 - 75; Sand, gray to white to brown, medium, angular to rounded, much calcareous cement throughout, graded to very sandy limestone in middle of core. Some fossils. Very thin streaks of green shale throughout; Probably $2\frac{1}{2}$ feet of core carries fair stain of live oil and fair odor; very little porosity any place in core.

(Samples examined & log compiled by W. S. Johns)

1-26-14W

Deep Rock Oil Corporation & R. W. Rine Drilling Co.
#1 McCandless - 330' S 330' E of N/4 (NWC S/2 of Lot 4)
Pratt County, Kansas

WENDELL S. JOHNS

Contractor: R. W. Rine Drilling Company

Commenced: 10/12/50
Completed: 11/2/50

Casing Record: 10 3/4" 801'

D R I L L I N G T I M E

3500 - 3510	2,2,2,3,2,2,2,2,4	
20	3,2,2,2,1,2,3,3,4	
30	3,3,3,5,4,4,4,5,5,	
40	6,5,6,3,4,3,4,5,6,6	
50	5,3,5,5,4,5,3,5,4,4	
60	5,3,3,2,3,3,3,3,5	
70	5,4,4,3,4,4,5,4,3,3	
80	2,3,2,3,4,3,3,4,4,5	
90	7,6,5,5,10,10,8,4,7,7	
3590 - 3600	8,7,8,5,4,5,10,6,6,7	Trip @ 3598'
10	6,6,6,4,5,3,4,3,2,8	
20	9,9,7,7,6,7,7,5,5,4	
30	3,3,4,4,3,2,4,5,3,5	
40	4,4,3,3,3,4,3,7,5,7	
50	6,7,8,7,7,6,4,6,6,5	
60	6,6,5,6,7,6,5,5,4,5	
70	5,3,4,3,2,3,3,3,3,3	
80	4,4,4,3,4,3,3,3,3,4	
90	4,3,3,2,2,3,3,3,3,2	
3690 - 3700	3,3,3,4,5,4,5,5,4,4	
10	4,5,4,5,5,5,4,5,5,5	
20	5,5,4,4,4,4,3,4,4,3	
30	4,4,5,6,5,5,5,5,5,6	
40	7,6,6,5,6,6,5,4,4,4	
50	4,5,5,5,5,6,6,4,4,4	
60	4,4,4,4,4,5,5,6,7,6	
70	6,6,8,6,4,5,4,5,6,7	
80	10,9,9,11,10,10,6,?,9,8	
90	9,8,9,13,14,10,10,9,9,9	
3790 - 3800	7,10,16,14,12,11,14,14,15,15	
10	15,14,13,12,14,14,15,13,9,8	
20	10,15,16,13,13,12,10,3,9,6	Trip @ 3813'
30	5,6,9,6,7,5,6,7,5,9	
40	9,8,8,11,10,10,10,9,8,8	
50	6,5,3,3,5,5,6,7,8,10	
60	11,10,10,14,14,15,14,14,15	
70	12,14,13,9,16,10,10,7,8,11	Trip @ 3866'
80	10,12,10,5,5,5,5,4,7,10	
90	5,6,7,9,9,12,17,13,12,15	
3890 - 3900	10,10,10,15,14,15,15,10,14,10	
10	10,9,8,8,12,17,17,18,18,17	
20	13,12,11,19,12,18,16,18,8,7	Trip @ 2918'
30	10,10,8,8,9,8,6,6,6,8	
40	7,6,2,1,1,1,9,9,8,11	
50	11,8,11,9,9,7,11,10,11,10	
60	10,8,10,10,10,9,11,9,9,9	
70	9,7,7,7,9,7,6,6,7,7	
80	11,11,12,13,9,5,9,6,1,2	
90	12,13,12,13,12,13,12,13,12,13 3,4,4,4,3,5,8,10,10,11	
3990 - 4000	10,10,9,9,8,8,6,6,7,9	
10	11,9,11,10,10,8,10,10,10,8	
20	8,10,12,12,13,10,11,10,15,9	
30	7,8,7,4,7,11,10,13,10,11	
40	12,10,11,10,10,9,9,9,13,10	
50	10,12,12,9,13,14,14,15,13	
60	14,13,13,12,10,10,10,9,10,11	
70	11,10,11,11,11,12,10,11,11,8	
80	10,11,12,9,8,10,10,10,8,6	
90	6,7,6,9,9,11,13,12,11,11	

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Deep Rock - Rine Drlg. #1 McCandless
Section 1-26S-14W, Pratt County, Kansas

4090 - 4100	11,11,11,12,11,10,11,11,11,12	
10	13,12,12,13,12,13,15,7,8,7	Trip @ 4107'
20	8,7,8,7,6,8,9,9,8,9	
30	10,12,9,11,11,13,12,11,12,15	
40	13,11,11,11,10,11,9,10,9,11	
50	12,11,11,10,12,11,12,15,14,16	
60	17,17,12,6,7,6,7,12,13,14	
70	13,14,14,15,13,17,19,18,10,10	Trip @ 4168'
80	10,8,9,15,12,14,15,17,14,14	
90	17,16,15,14,14,12,12,11,8,8	
4190 - 4200	8,10,12,10,9,9,8,10,9,9	
10	10,7,7,6,6,10,7,10,11,11	
20	9,13,12,12,7,7,4,2,3,2	Trip @ 4216'
30	3,3,3,2,3,3,5,6,10,20	
40	16,10,11,13,18,18,11,15,14,14	
50	13,14,12,12,12,15,13,15,14,13	
60	15,16,14,15,14,15,15,12,9,12	
70	13,15,15,14,12,13,11,13,12,14	
80	15,13,12,13,13,13,15,14,13,12	
90	12,13,12,11,11,10,9,15,10,8	
4290 - 4300	8,5,7,11,16,18,13,5,5,5	
10	4,4,3,5,6,7,4,4,5,4	
20	4,5,5,6,5,6,5,6,4,6	
30	5,6,7,5,5,4,6,6,6,8	
40	4,3,3,4,4,4,6,10,12,15	
50	15,15,7,11,15,12,13,13,13,12	
60	13,12,13,11,11,12,16,14,12,12	
70	10,10,13,10,12,12,13,12,12,10	
80	11,12,11,15,15,6,6,7,11,16	
90	6,8,4,6,11,11,11,12,10,11	
4390 - 4400	15,14,14,14,12,15,14,21,18,7	Trip @ 4399'
10	8,9,10,9,8,10,7,8,11,10	
20	11,12,10,8,9,9,13,12,14,12	
30	12,12,10,10,10,12,12,9,8,12	
40	14,11,12,12,11,5,10,12,6,8	
50	6,7,11,9,9,11,11,11,8,8	
60	7,9,11,11,10,15,13,12,11,12	
70	12,10,11,11,9,8,11,11,9,10	
4470 - 4478'T.D.	10,10,12,11,10,8,9,10	