

CORE RECORD

Core No.	Depth	Rec.	
1	722-729	3'	White porous, fossiliferous chalk
2	843-858	2'	White porous, fossiliferous limestone
3	1500-1510	$\frac{1}{2}$ '	White porous, very fossiliferous chalk
4	2010-2020	10'	Soft somewhat sandy dark gray shale
5	2045-2055	10'	Soft slightly sandy dark gray shale
6	2100-2110	10'	Soft slightly sandy dark gray shale
7	2150-2160	10'	Soft slightly sandy dark gray shale
8	2200-2210	5'	Soft slightly sandy dark gray shale
9	2310-2317	7'	Soft gray slightly calcareous, slightly sandy shale, sand grains fine
10	2317-2327	0	
11	2327-2337	10'	5' soft yellowish gray slightly calcareous, slightly sandy shale-sd grains fine; 2 feet gray micac hard, slightly calcareous, somewhat sandy shale - grains fine; and 5 feet soft yellowish gray slightly calcareous sandy shale - grains fine
12	2337-2347	10'	Soft yellowish gray calcareous, sandy shale, sand grains fine to med. fine to med. fine
13	2347-2357	10'	3 feet soft yellowish gray calcareous sandy shale - grains fine; 4 feet hard gray calcareous shaley sand - grains fine, and 3 feet soft yellowish gray calcareous, sandy shale - grains fine
14	2357-2367	6'	2 feet rather hard yellowish gray calcareous sandy shale - grains fine; and 4 feet soft yellowish gray calcareous sandy shale, grains fine.
15	2367-2377	10'	Rather hard yellowish gray calcareous slightly sandy shale
16	2377-2387	0	
17	2387-2397	0	
18	2397-2407	3'	Rather hard yellowish gray calcareous sandy shale - grains fine
19	2407-2417	4'	Rather hard yellowish gray calcareous sandy shale - grains fine
20	2417-2427	3'	Rather hard yellowish gray calcareous sandy shale - grains fine
21	2427-2437	0	
22	2437-2447	$\frac{1}{2}$ '	Soft yellowish gray calcareous sandy shale, grains fine

SUN OIL COMPANY -- DOSTER-LADSON #1 -- LOT 71, L. D. 7, ATKINSON CO., GA.

Core No.	Depth	Rec.	
23	2447-2457	10'	Soft yellowish gray calcareous sandy shale, grains fine to med. fine
24	2457-2467	0	
25	2467-2477	4'	Soft yellowish gray calcareous sandy shale - grains fine
26	2477-2487	0	
27	2487-2497	1'	Soft yellowish gray calcareous sandy shale - grains fine
28	2497-2507	10'	Hard gray compact somewhat shaley, very calcareous fine grained sand, trace of mica
29	2507-2517	10'	Hard gray compact somewhat shaley very calcareous fine grained sand - strong trace of mica
30	2517-2527	10'	Hard gray compact somewhat shaley very calcareous fine grained sand, strong trace of mica
31	2527-2537	10'	Hard gray very calcareous fine somewhat shaley sand - trace mica
32	2537-2547	9'	Very hard, very calcareous fine grained sand
33	2547-2557	10'	Very hard very calcareous fine grained sand
34	2557-2567	2'	Soft shaley very calcareous fine grained sand trace mica
35	2567-2577	0	
36	2577-2582	4'	Soft shaley very calcareous fine to med. fine gray sand
37	2582-2588	6'	2' soft shaley very calcareous fine to med. fine grained sand; 4' hard shaley calcareous fine sand with "spots" and thin bands of white calcareous med. grain sand
38	2588-2598	5'	Soft bedded slightly calcareous sandy shale, shale dark gray, sand white fine to med. fine grained.
39	2598-2608	3'	Bedded soft slightly calcareous sandy shale, shale dark gray, sand white fine to med. grained.
40	2608-2618	4'	Soft slightly calcareous sandy shale, sand grs. fine
41	2618-2628	6'	Soft slightly calcareous sandy shale, sand grs. fine
42	2628-2638	10'	8' soft slightly calcareous sandy shale, driller reports slight gas odor - not porous enough to carry fluid. 2' bedded slightly calcareous sandy shale, shale gray, sand white fine grained

SUN OIL COMPANY -- DOSTER-LADSON 71 -- LOT 71, L. D. 7, ATKINSON CO., GA.

Core No.	Depth	Rec.	
43	2638-2648	7'	Very soft very slightly sandy shale
44	2648-2658	7'	Soft dark gray calcareous sandy shale - sand grains fine to med. fine
45	2658-2668	9'	Hard bedded slightly calcareous sandy shale, shale dark gray, sand white fine to med. fine in thin layers, bedding planes are flat
46	2668-2678	6'	Hard dark gray sandy shale, white sand in "spots" and bands, grains fine to med. fine
47	2678-2688	2'	Hard dark gray sandy shale, white sand in "spots" and bands, grains fine to med. fine
48	2688-2698	5'	Hard dark gray sandy shale, white sand in spots and bands, grains fine to med. fine
49	2698-2708	6'	Hard dark gray slightly sandy shale, white sand in "spots" and bands
50	2708-2716	3'	Soft slightly sandy dark gray shale
51	2716-2728	7'	Soft firm slightly sandy dark gray shale
52	2728-2738	3'	Soft slightly sandy dark gray shale
53	2738-2748	6'	Soft slightly sandy gray dark shale
54	2748-2758	5'	Soft very slightly sandy dark gray shale
55	2758-2768	5'	Soft very slightly sandy dark gray shale
56	2768-2778	5'	Soft slightly sandy dark gray shale
57	2778-2788	5'	Soft sandy dark gray shale
58	2788-2798	7'	Rather hard dark gray sandy shale, fine white sand in thin beds, bedding plane dip flat to 3 degrees
59	2798-2803	2'	Rather hard dark gray slightly sandy shale
60	2803-2813	10'	3' hard dark gray sandy shale, sand in "spots" and thin bands, grains med white and black (salt & pepper) Rec 4' soft shaley sand - grains fine to med., white and black (salt & pepper)
61	2813-2823	2'	Hard dark gray slightly sandy shale
62	2823-2833	2'	Hard dark gray slightly shaley fine grained sand
63	2833-2843	1'	Hard fine grained slightly shaley gray sand, few large fossils?
64	2843-2853	10'	8' firm slightly shaley calcareous fine to med. fine gray sand - grains black and white and 2' very soft, very calcareous and grained sand, grains white and black. <u>No odor</u> nor oil color, large fossils and prisms

SUN OIL COMPANY -- DOSTER LADSON #1 -- LOT 71, L. D. 7, MCKINSON CO., GA.

Core No.	Depth	Rec.	
65	2853-2863	10'	3' firm rather hard gray calcareous sand grains black and white fine to med. 2' firm hard rather tough very calcareous shaley sand, grains fine, white and black
66	2863-2873	5'	Hard firm gray calcareous sandy shale, and grains fine, white
67	2873-2883	5'	Rather soft slightly calcareous dark gray shale
68	2883-2893	6'	Hard calcareous slightly sandy dark gray shale, sand grains fine
69	2893-2903	4'	Firm hard calcareous dark gray shale
70	2903-2913	10'	2' firm hard very calcareous gray sandy lime, 1' hard light gray lime, with fine sand sparingly, 6' firm and very calcareous sand shaley, and 1' firm hard very calcareous sand grains, fine to medium
71	2913-2923	5'	Soft dark gray calcareous sandy shale, sand grains fine
72	2923-2933	8'	3' soft dark gray calcareous sandy shale, grains fine, and 5' hard slightly sandy dark gray shale
73	2933-2943	2'	Hard dark gray slightly sandy shale
74	2943-2953	8'	Hard brittle grayish brown shale, splits easily in bedding planes, planes - flat
75	2953-2963	0	
76	2963-2968	5'	Hard brittle grayish brown shale, splits fairly easily on bedding planes, planes flat
77	2968-2976	5'	2' hard massive, calcareous slightly sand dark gray shale, 3' hard brittle grayish brown shale, splits easily on bedding planes, planes flat
78	2976-2986	4'	Hard brittle calcareous grayish brown shale, splits easily on bedding planes flat
79	2986-2996	3'	Marine hard dark gray calcareous shale
80	2996-3005	8'	Hard marine, slightly sandy very calcareous dark gray shale - grains fine
81	3005-3015	5'	Hard marine, slightly sandy very calcareous dark gray shale
82	3015-3025	6'	Hard marine, slightly sandy very calcareous dark gray shale
83	3025-3035	5'	Hard marine, slightly sandy very calcareous dark gray shale.
84	3035-3045	10'	9' hard firm dark gray very calcareous sandy shale, grains fine. 1' very hard dense greyish white lime

SUN OIL COMPANY -- DOSTER-LADSON #1 -- LOT 71, L. D. 7, ATKINSON CO., GA.

Core No.	Depth	Rec.	
85	3045-3055	10'	4' hard firm dark gray very calcareous sandy shale, grains fine. 1' very hard dense grayish white lime. 3' hard firm dark gray very calcareous sandy shale, grains fine. 6" very hard dense grayish white lime, and 1½' hard firm dark gray very calcareous sandy shale grains fine.
86	3055-3065	8'	2' hard firm dark gray very calcareous sandy shale - grains very fine 45 degrees slickensides; 6' rather soft calcareous grayish black shale; (poker chip) bedding planes 5 degrees
87	3065-3075	10'	6' firm rather hard very calcareous grayish black shale with many paper thin layers of fine white sand and 4' rather soft firm grayish black calcareous shale, and 4' rather soft firm grayish black calcareous shale
88	3075-3085	5'	Rather soft calcareous grayish black shale (poker chip)
89	3085-3095	7'	Rather soft calcareous grayish black shale (poker chip)
90	3095-3105	10'	Rather soft grayish black calcareous shale (poker chip)
91	3105-3115	10'	Rather soft grayish black calcareous shale (poker chip)
92	3115-3125	10'	Rather soft grayish black calcareous shale most of it muddy in core barrel
93	3125-3135	7'	4' very hard compact calcareous slightly sandy dark gray shale; 3' rather soft dark gray shale.
94	3135-3145	10'	3 ft. firm rather soft gray calcareous and somewhat shaley sand, grains fine to medium, black and white. <u>No oil color, no odor.</u> 7' very soft dark gray calcareous, somewhat shaley sand, grains fine to medium. <u>No oil color and no odor</u>
95	3145-3155	10'	Very soft dark gray calcareous somewhat shaley sand, grains fine to med. white & black. <u>No oil color, no odor</u>
96	3155-3165	9'	7' very soft dark gray calcareous somewhat shaley sand, grains fine to med., 2' rather hard dark gray calcareous sandy shale
97	3165-3175	9'	3' rather hard dark gray calcareous sandy shale, and 7' dark gray shale (poker chip) with spots and thin layers of fine white sand
98	3175-3185	10'	Rather hard dark gray shale (poker chip) with few paper thin beds of fine white sand
99	3185-3195	1'	Rather hard dark gray shale, slightly calcareous (poker chip)

SUN OIL COMPANY -- DOSTER-LADSON #1 -- LOT 71, L. D. 7, ATKINSON CO., GA.

Core No.	Depth	Rec.	
100	3195-3205	10'	4' rather hard dark gray slightly calcareous shale (poker chip) 1' rather firm hard gray shaley calcareous sand grains fine to med. fine, inclusions lime concretions; very small to large; and 4' dk gray firm hard slightly calcareous sandy shale, sand grains fine to med. fine
101	3205-3215	7'	Rather hard firm slightly calcareous, slightly sandy gray shale
102	3215-3225	10'	Rather hard firm calcareous sandy gray shale (poker chip) sand fine to med. grained and in spots and thin layers
103	3225-3235	7'	Rather hard slightly calcareous dark gray shale (poker chip), upper 3' with thin layers of fine white sand
104	3235-3245	10'	7' rather hard slightly calcareous shale (poker chip) and 3' rather hd gray calcareous shaly sand
105	3245-3255	10'	Rather hard dark gray shale (poker chip) with few thin beds fine sand
106	3255-3261	5'	3' rather hard dark gray shale (poker chip) and 2' rather hard calcareous shaley sand, grains fine
107	3261-3266	2'	1' very hard gray sandy lime; 1' very soft coarse sand
108	3266-3271	5'	1' very soft coarse sand slight odor gas; 1' rather hard dark gray shale; and 3' very soft coarse sand slight to fair odor
109	3271-3276	4'	3' very soft coarse sand slight to fair odor - oil rainbow in mud from barrel
110	3276-3286	5'	Dark gray slightly sandy shale
111	3286-3293	2'	1' very hard grayish white calcareous sand; grains fine to med.; and 1' soft shaley sand, shale dark gray, sand med. grained and white
112	3293-3298	2'	Very soft fine to med. grayish white sand, probably about 30% mica
113	3298-3308	1/2'	Soft grayish white shaley sand, shale light gray sand white fine to med. grained
114	3308-3318	6'	4' very soft grayish white med. to coarse grained sand and 2' rather hard dark gray shale (poker chip)
115	3318-3328	8'	4' grayish black shale (poker chip); 2' somewhat shaley dark gray sand, grains fine to med.; and 2' very soft dark grayish white sand, grains med. to rather coarse
116	3328-3338	5'	4' dark grayish white sand, grains med. to rather coarse; and 1' very hard grayish white calcareous sand, grains fine to med.

SUN OIL COMPANY -- DOSTER LADSON #1 -- LOT 71, L. D. 7, ATKINSON CO., GA.

Core No.	Depth	Rec.	
117	3338-3347	5'	1' very hard gray calcareous sand, grains fine to med. coarse; and 4' very soft med. to coarse dark gray sand
118	3347-3357	5'	Very soft med. to coarse grained dense gray sand
119	3357-3367	10'	1' very soft medium to coarse dark gray sand. 1' very hard slightly calcareous sand, grains fine to coarse; and 8' very soft med. to coarse dark greenish gray sand
120	3367-3377	5'	Very soft med. to coarse yellowish gray sand
121	3377-3387	6'	1' very soft med. to coarse yellowish gray sand; 1' very soft dark gray sand with partially lignitized wood and 4' very soft med. to coarse dark gray sand
122	3387-3397	8'	Very soft mud to coarse yellowish white sand
123	3397-3407	4'	Very soft med. coarse to very coarse sand with large soft shale "pebbles"
124	3407-3413	$\frac{1}{2}$ '	Very hard fine grained gray sand, with small soft shale "pebbles"
125	3413-3423	4'	1' very hard fine grained gray sand, with small soft shale pebbles; 3' soft yellowish white coarse sand
126	3423-3433	4'	Very soft dark gray coarse sand
127	3433-3440	7'	Very soft med. coarse grayish white sand
128	3440-3450	7'	5' very soft med. grained sand, sever thin layers of rather large mica flakes; and 2' firm somewhat hard gray sandy shale, grains fine to med. fine
129	3450-3460	3'	2' somewhat shaley med. to coarse greenish gray sand; and 1' very hard yellowish white fine to med. fine grnd. sand - some cross-bedding
130	3460-3470	2'	Soft very coarse dark gray sand
131	3470-3480	9'	Very soft coarse dark gray sand
132	3480-3490	10'	Very soft coarse dark gray sand
133	3490-3498	2'	Very soft coarse dark gray sand
134	3498-3508	3'	1' very hard slightly calcareous fine sand with thin layers of large flakes of mica; 1' very soft coarse greenish gray sand with counterable mica; and 1' yellowish white very soft med. coarse sand
135	3508-3518	4'	2' hard compact greenish gray shale; with "spots" of pyrite; and 2' very hard very calcareous fine to med fine yellowish white sand, some soft red mud in core barrel

SUN OIL COMPANY -- DOSTER-LADOSN #1 -- LOT 71, L. D. 7, ATKINSON CO., GA.

Core No.	Depth	Rec.	
136	3518-3538	9'	5' rather soft firm greenish gray sandy, grns fine to med.; 1' hard very calcareous yellowish white med. to coarse sand, and 3' rather soft firm greenish gray sandy shale, sand grns fine to med.
137	3538-3558	5'	1' greenish gray rather soft sandy shale, grns. fine to med.; and 4' very soft dark gray slightly shaley coarse grained sand, grains coarse and white
138	3558-3578	0	Formation probably very soft sand with rather hard "break" 3561-3562
139	3578-3598	5'	2' very hard very calcareous very coarse yellowish white sand; 1' soft sandy dark gray shale, grns. fine to med. and 2' very hard very calcareous greyish white med. to coarse sand
140	3598-3618	3'	1' very hard calcareous gray coarse sand with small shale pebbles; 1' rather soft greenish gray sandy shale, grns. fine; 4" very hard very calcareous gray sand grns. med. to crse., 5" rather soft greenish gray slightly sandy shale, grns. fine; and 3" very hard very calcareous yellowish white coarse sand
141	3618-3638	4'	1' very hard very calcareous, gray sand, grains fine to med., 1' very hard very calcareous yellowish gray sand grns. fine to med. coarse, many of them green; 1' hard very calcareous yellowish white sand - grns fine to med. and 1' rather soft dark gray shale
142	3638-3658	3'	1' very hard very calcareous gray sand; grains fine to med. coarse; many dark and light green grains. 1' rather soft dark gray shale; and 1' very hard very calcareous gray sand; grains fine to med.; several large inclusions of lignite and small inclusions of bright green shale
143	3658-3678	8'	1' very hard very calcareous gray sand; grns. fine to med.; 1' dark and light gray very calcareous shale, with thin hard sand "breaks"; 2' very hard gray calcareous fine sand with large pieces of lignitic sand grading into conglomerate at core with large to small angular shale pebbles; 2' dark gray rather soft shale; 2' hard very calcareous gray sand, grains fine to med.
144	3678-3698	8'	3' dark gray slightly sandy shale; 1' very hard slightly calcareous fine grained gray sand; 3' dark gray somewhat sandy shale; and 1' rather hard somewhat shaley calcareous fine gray sand
145	3698-3718	7'	3' very hard slightly calcareous gray very micaceous fine sand; and 4' soft dark gray shale
146	4097-4102	0	

SUN OIL COMPANY -- DOSTER LADSON #1 -- LOT 71, L. D. 7, ATKINSON CO., GA.

Core No.

147	4164-4167	3'	Compact brick red slightly sandy non-calcareous shale with few large "spots" of gray slightly sandy non-calcareous shale - all sand grains fine
148	4279-4282 $\frac{1}{2}$	3'	Hard dense, dark banded, fractured, jointed, cryptocrystalline rock, with fracture planes filled with calcite and has several inclusions of ? x called an "argillite??"