

DRILLING TIME

TULSA OIL CORPORATION
Waite No. 4

SEC. 21 T. 31S R. 4E
NE SE SW

Elevation: 1204

County: Cowley

<u>Depth</u>	<u>Minutes</u>	<u>Depth</u>	<u>Minutes</u>	<u>Depth</u>	<u>Minutes</u>
2325-26	4	2390-91	2	2604-05	6
26-27	5	91-92	5	2605-06	7
27-28	5	92-93	4	06-07	6
28-29	6	93-94	3	07-08	6
29-30	5	94-95	5	08-09	6
2330-31	5	2395-96	9	09-10	7
31-32	5	96-97	6	2610-11	6
32-33	5	97-98	5	11-12	6
33-34	6	98-99	5	12-13	8
34-35	5	99-2400	5	13-14	9
2335-36	5	2400-01	8	14-15	9
36-37	5	01-02	8	2615-16	6
37-38	5	02-03	7	16-17	7
38-39	5	03-04	5	17-18	7
39-40	6	04-05	7	18-19	7
2340-41	4	2405-06	5	19-20	6
41-42	5	06-07	7	2620-21	5
42-43	4	07-08	6	21-22	5
43-44	5	08-09	6	22-23	6
44-45	5	09-10	6	23-24	4
2345-46	4	2410-11	7	24-25	3
46-47	5	11-12	8	2625-26	2
47-48	5	12-13	8	26-27	2
48-49	6	13-14	7	27-28	3
49-50	5	14-15	8	28-29	3
2350-51	6	2415-16	9	29-30	2
51-52	4	16-17	7	2630-31	2
52-53	5	17-18	5	31-32	3
53-54	5	18-19	7	32-33	3
54-55	4	19-20	7	33-34	3
2355-56	6	2420-21	8	34-35	2
56-57	6	21-22	7	2635-36	3
57-58	4	22-23	8	36-37	4
58-59	3	23-24	7	37-38	10
59-60	3	24-25	9	38-39	11
2360-61	3	2425-26		39-40	7
61-62	2	2575-2576	5	2640-41	6
62-63	3	76-77	5	41-42	9
63-64	4	77-78	10	42-43	8
64-65	3	78-79	6	43-44	8
2365-66	4	79-80	5	44-45	11
66-67	4	2580-81	4	2645-46	10
67-68	5	81-82	5	46-47	13
68-69	10	82-83	5	47-48	11
69-70	6	83-84	5	48-49	14
2370-71	5	84-85	7	49-50	10
71-72	4	2585-86	5	2650-51	9
72-73	5	86-87	5	51-52	10
73-74	4	87-88	6	52-53	8
74-75	7	88-89	6	53-54	10
2375-76	4	89-90	6	54-55	10
76-77	3	2590-91	5	2655-56	9
77-78	4	91-92	5	56-57	13
78-79	4	92-93	5	57-58	13
79-80	5	93-94	5	58-59	15
2380-81	3	94-95	6	59-60	13
81-82	3	2595-96	8	2660-61	13
82-83	4	96-97	5	61-62	11
83-84	2	97-98	6	62-63	11
84-85	2	98-99	6	63-64	8
2385-86	3	99-2600	6	64-65	8
86-87	3	2600-01	7	2665-66	9
87-88	3	01-02	6	66-67	7
88-89	3	02-03	6	67-68	8
89-90	4	03-04	7	68-69	7

OWLL

Hartman & B. B. Blair - No. 4 Waite
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2530-60	Lime tan
2560-65	Shale grey
2565-75	Lime brown
2575-77	Shale grey
2577-79	Lime white
2579-2612	Shale grey and maroon sandy
2612-15	Lime brown
2615-25	Shale grey
2625-37	Sand grey medium <u>slight oil stain</u>
2637-63	Shale grey
2665-70	Lime white
2670-75	Shale grey
2675-85	Lime brown
2685-2700	Shale grey
2700-05	Lime brown
2705-20	Shale grey
2720-45	Lime brown
2745-50	Shale black
2750-65	Lime tan
2765-70	Shale black
2770-82	Lime tan
2782-90	Sand grey fine
2790-2810	Shale grey sandy
2810-25	Shale grey
2825-30	Sand fine tight
2830-45	Shale grey
2845-50	Lime grey
2850-65	Shale grey
2865-72	Sand grey medium
2872-2910	Shale grey
2910-15	Sand fine
2915-35	Shale grey and maroon
2935-38	Sand medium <u>slight oil stain</u>
2938-41	Shale grey
2941-44	Sand medium
2944-55	Shale grey
2955-73	Chert white
2975-3000	Lime white
3000-18	Lime grey
3018-3140	Dolomite brown shaly
3140-68	Lime white cherty
3168-85	Shale greenish grey
3185-98	Lime grey
3198-3272	Shale black
3272-75	Dolomite soft 1000' oil
3275-75	Dolomite hard
3275-78	Dolomite soft flow 90 bbl. per hr.
3278-80	Dolomite hard dense
3280-85	Chert grey flow 150 bbls. per hr.
3285-84	Dolomite dense soft
3284	Dolomite hard
3284	Total depth.

Formation Tops

Topeka	1230
Base Oread	1632
Lansing	1892
Stalnaker	1910
Kansas City	2343
Base Oswego	2782
Mississippi Chert	2953
Base lime	3198
Siliceous	3272
Total Depth	3284

OWLL

Drilling Time
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<u>Depth</u>	<u>Minutes</u>	<u>Depth</u>	<u>Minutes</u>	<u>Depth</u>	<u>Minutes</u>
2869-70	7	3177-78	16	3243-44	11
2870-71	7	78-79	12	44-45	16
71-72	8	79-80	14	3245-46	15
72-73	8	3180-81	14	46-47	16
73-74	7	81-82	16	47-48	18
74-75	8	82-83	21	48-49	16
		83-84	25	49-50	12
2935-36	2	84-85	20	3250-51	11
36-37	3	3185-86	15	51-52	12
37-38	3	86-87	17	52-53	11
38-39	5	87-88	15	53-54	13
39-40	5	88-89	14	54-55	11
2940-41	4	89-90	15	3255-56	9
41-42	2	3190-91	16	56-57	12
42-43	2	91-92	14	57-58	13
43-44	2	92-93	16	58-59	12
44-45	6	93-94	20	59-60	14
2945-46	5	94-95	17		
46-47	5	3195-96	14		
47-48	6	96-97	14		
48-49	6	97-98	12		
49-50	7	98-99	11		
2950-51	5	99-3200	12		
51-52	7	3200-01	11		
52-53	5	01-02	12		
53-54	7	02-03	10		
54-55	7	03-04	10		
2955-56	10	04-05	8		
56-57	8	3205-06	11		
57-58	9	06-07	10		
58-59	8	07-08	10		
59-60	9	08-09	10		
2960-61	8	09-10	7		
61-62	3	3210-11	8		
62-63	4	11-12	10		
63-64	3	12-13	7		
64-65	3	13-14	8		
2965-66	3	14-15	9		
66-67	3	3215-16	9		
67-68	2	16-17	9		
68-69	6	17-18	10		
69-70	7	18-19	10		
2970-71	5	19-20	11		
71-72	5	3220-21	10		
72-73	6	21-22	11		
73-74	8	22-23	11		
74-75	10	23-24	12		
2975-76	11	24-25	10		
76-77	10	3225-26	10		
77-78	5	26-27	10		
78-79	10	27-28	9		
79-80	7	28-29	8		
2980-81	3	29-30	8		
81-82	4	3230-31	7		
82-83	4	31-32	8		
83-84	10	32-33	8		
84-85	7	33-34	8		
2985-86	7	34-35	8		
86-87	10	3235-36	7		
87-88	11	36-37	7		
88-89	17	37-38	8		
89-90	8	38-39	9		
		39-40	9		
3175-76	15	3240-41	10		
76-77	14	41-42	10		
		42-43	11		

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