

Geol. Lists

TEST-RECORD INSTRUCTIONS

1. Geologist in charge is to prepare a detailed sub-surface profile on center line of the site showing interpretations of logs.
2. Sub-surface profiles normal to center line are to be compiled if sub-surface conditions warrant.
3. The detail of each log is to show type of sample observed, accumulated depth to each formation or important change in characteristic, a detailed driving record and probable foundation characteristics.
4. Record ground water elevation if water table is present. Hole must be bailed twice and allowed to stand 10 hours before taking ground water elevation.
5. Indicate absence of ground water table.
6. One or more drive tests shall be made on each site as conditions warrant.
7. One or more core borings shall be made on each site with sufficient recovery in the clays and shales so that their physical properties may be examined.
8. Sufficient soundings shall be taken so as to justify the engineering-geology interpretations of the foundation studies.
9. Logs and sub-surface profiles shall be completed before leaving the project.
10. Obtain high water elevations at each site whenever possible and record, giving date and location of observation.

RETURN TO STATE HIGHWAY COMMISSION OF KANSAS TOPEKA

County Pottawatomie Date March

Route and Section 63-75 S145 (S)

Recorder _____

Geologist in charge K. R. Horner

Levelman G. Wolf, III



1 *

COUNTY Pottawatomie DATE March 1954

RT. 63 SEC. 15 BR. NO. PROJ. NO. 2145

STREAM NAME Red Vermillion River BR. OR RD.

SOUNDING NO. STA. 264.450 LT. 18

GROUND WATER EL. VERTICAL SCALE 1"=10'

B.M. NO. 26 B.M. EL. 1181.57

POINT B.S. H.I. F.S. ELEV.

BM 2.18 1191.57

T.H. #1 6.04 1185.55

SUBMITTED BY

K.R. Horner

REMARKS

Hawthorne Dr Rock bit

Top Hole Elev. 1185.6

Top 4 gray

sand silt clay

and some gravel.

FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH	DRIVE RECD	REMARKS
Bennett shale						Shale gray
Glen Rock ls						7 1193.6 0.4 shaly ls. 0.2 cherty ls. 1.4 shaly ls. 1.1 cherty ls. 1191.5
Johnson shale						Shale, blue gray clayey 9
Long Creek ls						9 1192.7 Limestone, Tan. to gray Hard 1191.0
						Shale lit. gray & 1. to green numerous limy stringers
						11 1109.2 Dolomite cemented shale. 1108.6 Shale lit. gray-green limy in part
						10 1019.3 Shale dark gray to black 1019.3 Limestone, lit. gray Hard 1018.9
						Bottom Hole Total Depth 92.7

Glacial Till

Blue Rock shale

FORMATION

EL. T.H.

SAMPLE

LOG

ACC. DEPTH

DRIVE RECD

REMARKS

Hawthorne Dr Rock bit

Top Hole Elev. 1185.6

Top 4 gray

sand silt clay

and some gravel.

Glacial Till

Blue Rock shale

FORMATION

EL. T.H.

SAMPLE

LOG

ACC. DEPTH

DRIVE RECD

REMARKS

Hawthorne Dr Rock bit

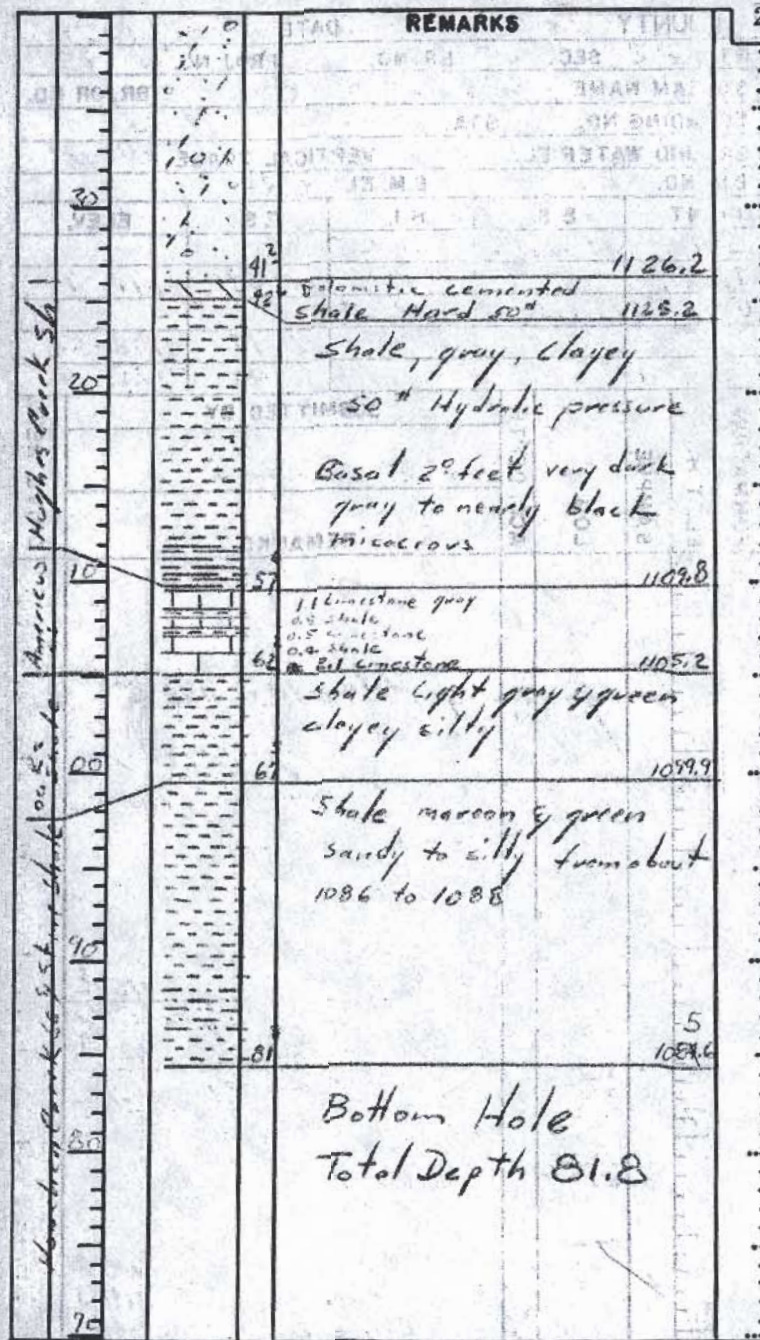
Top Hole Elev. 1185.6

Top 4 gray

sand silt clay

and some gravel.

COUNTY		DATE	
RT.	SEC.	BR. NO.	PROJ. NO.
STREAM NAME		BR. OR RD.	
SOUNDING NO.	STA.	VERTICAL SCALE	
GROUND WATER EL.		B.M. EL.	
B.M. NO.	B.S.	H.I.	F.S.
POINT	B.S.	H.I.	F.S.
ELEV.		ELEV.	
BA	1.87	1174.95	
T. 4 #2			1167.40
SUBMITTED BY			
K. R. Horner			
REMARKS			
Top Hole Elev. 1167.4			
S. 11 & clay some rounded sand grains			
1156.6			
Sand, medium to fine grained some gravel. Small amount of s. 11			



3 COUNTY *Pottawatomie* DATE *March 1954*

RT. *63* SEC. *75* BR. NO. *5-145* PROJ. NO. *5-145*

STREAM NAME *Red Vermillion River* BR. OR RD.

SOUNDING NO. *3* STA. *261+87* LT. *13'*

GROUND WATER EL. *1160* VERTICAL SCALE *1"=10'*

B.M. NO. *26* B.M. EL. *1189.39*

POINT	B.S.	H.I.	F.S.	ELEV.
<i>BM</i>	<i>0.66</i>	<i>1190.05</i>		
<i>①</i>			<i>12.54</i>	<i>1177.51</i>
<i>①</i>	<i>1.13</i>	<i>1178.64</i>		
<i>TH #3</i>			<i>6.14</i>	<i>1172.50</i>
<i>TBM #1</i>			<i>3.40</i>	<i>1175.24</i>

FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH	SUBMITTED BY		DRIVE RECD.
					REMARKS		
					<i>K.R. Horner</i>		
					REMARKS		
					Top Hole Elev. <i>1172.5</i>		
					silt, clay, sandy, some gravels near base		
					<i>1157.3</i>		
					shale gray clayey silt		
					Firm 75 #p <i>1153.7</i>		
					shaly limestone gray <i>1152.2</i>		
					shale blue gray clayey		
					Firm 75 #p		
					<i>1142.8</i>		
					Limestone Hard <i>1352</i> <i>1142.1</i>		
					shale gray <i>1141.1</i>		


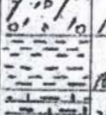

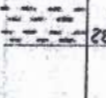
Bottom Hole Total Depth *314*

3

REMARKS	
Note:	
Apparent H ₂ O Elev. <i>1160.00</i>	
Hole was caved at this Elev. so that boring could not proceed	
<i>KRH</i>	

3

COUNTY <i>Pottawatomie</i> DATE <i>March 1954</i>				
RT. <i>63</i> SEC. <i>75</i> BR. NO.		PROJ. NO. <i>5125</i>		
STREAM NAME <i>Red Vermillion River</i> BR. OR RD.				
SOUNDING NO. <i>5</i> STA. <i>261+95</i> <i>4+3'</i>				
GROUND WATER EL.		VERTICAL SCALE <i>1"=10'</i>		
B.M. NO. <i>TBM #1</i>		B.M. EL. <i>1175.24</i>		
POINT	B.S.	H.I.	F.S.	ELEV.
<i>TBM</i>	<i>2.58</i>	<i>1172.82</i>		
<i>TH#5</i>			<i>6.27</i>	<i>1171.55</i>

FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH	SUBMITTED BY	DRIVE RECD.
					<i>K.R. Horner</i>	
					REMARKS	
<i>Alluvium</i>	<i>10'</i>	<i>1" fish tail</i>		<i>0' to 10'</i>	<i>Top Hole Elev. 1171.6</i>	
					<i>silt, clay, sand</i>	
					<i>and some gravel</i>	
<i>Johnson sh</i>	<i>15'</i>		<i>10' to 15'</i>	<i>16'</i>	<i>1155.6</i>	
					<i>Shale gray weathered to</i>	
					<i>N.P. Then 75' at 1152.8</i>	
					<i>Limestone shaly gray 1150.8</i>	
<i>Johnson sh</i>	<i>20'</i>		<i>15' to 20'</i>	<i>28'</i>	<i>Shale blue gray</i>	
					<i>50-75' pressure.</i>	
<i>Johnson sh</i>	<i>40'</i>		<i>20' to 40'</i>	<i>28'</i>	<i>Bottom Hole</i>	
					<i>Total Depth 28.6</i>	

Be...
Sh...
Lo...

5

REMARKS				
<p><i>Note:</i></p> <p><i>Howe Limestone</i></p> <p><i>outcrops in the stream</i></p> <p><i>bottom 80' Rt sta. 262+47</i></p> <p><i>Elev 1158.4</i></p>				

8		COUNTY <i>Pottawatomie</i>		DATE <i>March 1954</i>	
RT. <i>63</i>		SEC. <i>75</i>		BR. NO. <i>5-145</i>	
STREAM NAME <i>Red Vermillion River</i>		BR. OR RD.			
SOUNDING NO. <i>8</i>		STA. <i>262 + 72</i>		<i>4 + 14'</i>	
GROUND WATER EL.		VERTICAL SCALE <i>1"=10'</i>			
B.M. NO. <i>TBM</i>		B.M. EL. <i>1175.24</i>			
POINT	B.S.	H.I.	F.S.	ELEV.	
<i>TBM</i>	<i>3.67</i>	<i>1178.91</i>			
<i>TH #8</i>			<i>3.11</i>	<i>1175.80</i>	
FORMATION		SUBMITTED BY		DRIVE RECD.	
EL. T.H.	SAMPLE	<i>K.R. Horner</i>		REMARKS	
LOG	ACC. DEPTH				
<i>Alluvium</i>	<i>N. Dwyer</i>			<i>Top Hole Elev. 1175.8</i>	
				<i>Silt, clay, sand & gravel</i>	
				<i>1163.8</i>	
				<i>Casing Drive started</i>	
				<i>Refusal 50 ft 1159.5</i>	
				<i>Shale gray firm 75' 1157.5</i>	
				<i>Cimestone tan-gray 1155.3</i>	
				<i>Shale blue gray clayey firm 50-75' 1150.2</i>	
				<i>Cimestone shaly 100' 1148.8</i>	
				<i>Shale blue gray 50-75'</i>	

8		REMARKS	
DRIVE RECD.			
FORMATION			
EL. T.H.			
SAMPLE			
LOG			
ACC. DEPTH			
SUBMITTED BY			
REMARKS		<i>Cimestone stopped in same Bottom Hole Elev. 1139.4</i> <i>Total Depth 36.8</i>	

11

COUNTY <i>Pottawatomie</i>		DATE <i>March 1954</i>	
RT. <i>63</i>	SEC. <i>75</i>	BR. NO.	PROJ. NO. <i>S. 145</i>
STREAM NAME <i>Red Vermillion River</i>		BR. OR RD.	
SOUNDING NO. <i>11</i>		STA. <i>261+20 L+10'</i>	
GROUND WATER EL.		VERTICAL SCALE <i>1"=10'</i>	
B.M. NO. <i>TBM</i>		B.M. EL. <i>1175.24</i>	
POINT	B.S.	H.I.	F.S.
<i>TBM</i>	<i>2.44</i>	<i>1177.68</i>	
<i>T.H. #11</i>			<i>7.02</i>
			<i>1170.66</i>

FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH	SUBMITTED BY		DRIVE RECD.
					<i>K.R. Horner</i>		
					REMARKS		
					<i>Top Hole Elev. 1170.7</i> <i>sand, silt, clay, & gravel</i>		
					<i>shale blue gray</i> <i>soft - Firm 50'</i> <i>Bottom Hole Elev. 1145.9</i> <i>Total Depth 24.8</i>		

lowy
shale
50'
40'

Alluvium

REMARKS

11

12

COUNTY <u>Pottawatomie</u> DATE <u>March 1954</u>				
RT. <u>63</u>	SEC. <u>75</u>	BR. NO.	PROJ. NO. <u>S. 145</u>	
STREAM NAME <u>Hill Sounding</u>			BR. OR RD.	
SOUNDING NO. <u>1</u>		STA. <u>218+17</u> LT. <u>10'</u>		
GROUND WATER EL.		VERTICAL SCALE <u>1"=10'</u>		
B.M. NO. <u>21</u>		B.M. EL. <u>1288.83</u>		
POINT	B.S.	H.I.	F.S.	ELEV.
BM	5.03	1293.86		
T.H.S.			3.66	1290.20
SUBMITTED BY <u>K. R. Horner</u>				
FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH
REMARKS				
<p>Top Hole Elev. 1290.2</p> <p>Red brown to tan yellow silty clay</p> <p>1280.2</p> <p>30'</p>				

①

12 COUNTY *Pottawatomie* DATE *March 1954*

RT. *63* SEC. *75* BR. NO. PROJ. NO. *S. 145*



STREAM NAME *Hill Sounding* BR. OR RD.

SOUNDING NO. *1* STA. *218+17* Lt. *10'*

GROUND WATER EL. *1* VERTICAL SCALE *1"=10'*

B.M. NO. *21* B.M. EL. *1288.83*

POINT	B.S.	H.I.	F.S.	ELEV.
BM	<i>5.03</i>	<i>1293.86</i>		
T.H.S.			<i>3.66</i>	<i>1290.20</i>

FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH	SUBMITTED BY	DRIVE RECD.
					REMARKS	
<i>Till</i>	<i>1290</i>	<i>N'3 clay</i>		<i>10</i>	<i>K. R. Horner</i>	
					<i>Top Hole Elev. 1290.2</i> <i>Red brown to tan yellow silty clay</i>	
	<i>80</i>			<i>30</i>		
	<i>70</i>					
	<i>60</i>			<i>30</i>		

12

REMARKS	
<i>gray - sandy silty clay</i>	<i>1143.7</i>
<i>shale gray green clayey</i>	<i>1137.6</i>
<i>Bottom Hole</i>	
<i>Total Depth 152.6</i>	

Kansas Till



152.6

146.5

1150

1130

REMARKS		DEPTH FEET	CORRECTION FEET	TOTAL DEPTH FEET
11437		152.6		152.6
shale gray green clayey		146.5		146.5
Total Depth 152.6				
Bottom Hole				

REMARKS		DEPTH FEET	CORRECTION FEET	TOTAL DEPTH FEET
Kansas Till		146.5		11437
		152.6		1137.6
	Bottom Hole Total Depth 152.6			

13 COUNTY Pottawatomie DATE March 1954RT. 63 SEC. 75 BR. NO. 1 PROJ. NO. 5-145STREAM NAME Hill Sounding #2 BR. OR RD.SOUNDING NO. 2 STA. 129+25 EGROUND WATER EL. VERTICAL SCALE 1"=10'B.M. NO. 19 B.M. EL. 1261.50

POINT B.S. H.I. F.S. ELEV.

BM 0.99 1262.49

T.H.S. #2 4.82 1257.67

FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH	SUBMITTED BY	DRIVE RECD.
					REMARKS	
					Top Hole Elev 1257.7	
					Red brown to tan	
					sandy silt & clay	
	1250			1.48	1249.7	
					Sand medium to	
					fine grained	
	1240			1.8	1244.9	
					Tan & gray sandy	
					silt & clay	
				2.3	1239.7	
					Sand medium to fine	
	1230			2.7	1230.7	
					gray clay & silt	
					gray clay & silt	
					Light gray silt & clay	
	1220				(No. Sand)	

13 COUNTY *Pottawatomie* DATE *March 1954*
 RT. *63* SEC. *75* BR. NO. PROJ. NO. *S. 145*
 STREAM NAME *Hill Sounding #2* BR. OR RD.
 SOUNDING NO. *2* STA. *189+25*
 GROUND WATER EL. VERTICAL SCALE *1"=10'*
 B.M. NO. *19* B.M. EL. *1261.50*
 POINT B.S. H.I. F.S. ELEV.
 BM *0.99* *1262.99*
 T.H.S. *4.82* *1257.67*

FORMATION	EL. T.H.	SAMPLE	LOG	ACC. DEPTH	SUBMITTED BY	DRIVE RECD.
					<i>K.R. Horner</i>	
					REMARKS	
					Top Hole Elev <i>1257.7</i>	✓
					Red brown to tan sandy silt & clay	
	<i>1250</i>			<i>1.48</i>	<i>1249.7</i>	✓
					Sand medium to fine grained	
	<i>1240</i>			<i>12</i>	<i>1244.9</i>	✓
					Tan & gray sandy silt & clay	
				<i>23</i>	<i>1239.7</i>	✓
	<i>1230</i>			<i>27</i>	<i>1230.7</i>	✓
					Sand medium to fine grained	
				<i>3</i>	<i>1229.7</i>	✓
					gray clay & silt	
	<i>1220</i>				<i>1229.7</i> <i>1229.7</i>	
					Lite gray silt & clay (No. Sand)	

REMARKS	13
<i>1217.7</i> Sand med. - fine grained <i>1215.7</i>	✓
Lite gray silt & clay	
<i>1115.3</i>	✓
Bottom. Hole Total Depth <i>142.4</i>	

德政風化無疆

~~7.8.11~~ ~~1.12.11~~

1990

2211

[Faint handwritten notes]

116

REMARKS

1212.7

Sand med. - Fine grained
white. 1215.7

1215.7

late gray silty clay

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

3

Figure 1

T1

1115.3

Bottom hole

Total Depth 142.4

2001-2002

[illegible]

100

125

100

14 COUNTY *Pottawatomie* DATE *March 1954*RT. *63* SEC. *75* BR. NO. PROJ. NO. *S. 185*

STREAM NAME BR. OR RD.

SOUNDING NO. STA. *274+72* *E*GROUND WATER EL. *-3.0* VERTICAL SCALE *1"=10'*

B.M. NO. B.M. EL.

POINT B.S. H.I. F.S. ELEV.

SUBMITTED BY

K.R. Horner

REMARKS

*Hand Sounding**Top Hole Sta 274.72 E*
Sand med- Fine
grained

REMARKS

14