

# MAR 19690006: SOUTHEASTERN ALBERTA

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1969

Field Exploration  
Alberta Uraniferous  
Lignites

*Prepared For*  
Scotaire Exploration LTD.,  
Calgary, Alberta

February 1, 1970



1969 0006

INTERCONTINENTAL RESOURCES, INC.




DENVER, COLORADO

1969

FIELD EXPLORATION  
ALBERTA URANIFEROUS  
LIGNITES

PREPARED FOR  
SCOTAIRE EXPLORATION LTD  
CALGARY, ALBERTA

APPROVED: INTERCONTINENTAL RESOURCES, INC.

  
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PROJECT MANAGER  
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ASSISTANT PROJECT MANAGER



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## INTRODUCTION

The client, Scotaire Exploration Ltd., was interested in developing the uraniferous lignites of Southeastern Alberta, and, under the Alberta Mineral Disposition Regulations, acquired permits in Southeastern Alberta. The permit area was selected with the view of covering certain topographic highs underlain by uraniferous lignites of the Ravenscrag formation. These topographic highs appeared to be the most favorable exploration targets based on the experience of the North and South Dakota uraniferous lignites.

Mr. Jack Wahl, of Columbian Northland Exploration Ltd., who was named as the operator for the participants, authorized Intercontinental Resources Inc., of Denver, to supervise and operate an exploration program on the permit area. This authorization was given in a meeting, attended by all the participants, at Mr. Jack Wahl's office on October 9, 1969.



## OBJECTIVE AND SCOPE

The objective of the program was to locate and define a minable uranium orebody, and to estimate the economic potential of any other mineral deposits in the area.

Because of the weather conditions, and the limitations of the field season, a wide spaced broad reconnaissance drilling program was adopted. The total program was designed for three months, one month in the field plus additional time for start-up, shut-down, reports, etc., consuming another two months. The field program included drilling, largely on one-mile centers, followed by radiometric and electrical resistivity measurements. Provisions were made for core sampling and chemical assaying where justified.



## SUMMARY AND CONCLUSIONS

Only small amounts of carbonaceous material was present throughout the area, all of which was lignitic. The only occurrence of uranium mineralization detected, in an area otherwise barren, occurred in a zone of lignitic claystone. Specifically, this was in hole No. 1221, Sec. 30, Township 6, Range 2, west of the 4th Meridian.

Based on the results of the drilling program, it is concluded, there are no economic uranium or coal deposits on the permit area held by Scotaire Exploration Ltd., in Southeastern Alberta.



(4)  
RECOMMENDATIONS

Based on the program results, the following recommendation is made:

All of the permit area, held by Scotaire in Southeastern Alberta should be relinquished with no further expenditure of funds in the search for economic uranium or coal deposits in this area.



## DISCUSSION

## FIELD EXPLORATION

LOCATION AND PHYSIOGRAPHY OF THE  
PERMIT AREA

The permit area held by Scotaire Exploration Ltd., in Southeastern Alberta, extends eastward from the western edge of the Cypress Hills provincial park to the Saskatchewan border. It lies between latitudes 49 and 50 degrees north and is between 1 and 2 townships wide. A map showing the permit area is given in the results section and in Exhibit I of the Appendix.

The physical appearance of the area is not typical of the surrounding region. Whereas the surrounding region is primarily low rolling plains country, the permit area is situated on a high plateau called the Cypress Hills, that has a typical Rocky Mountain foothills topography. Basically, this is ranch country with some wheat farming. The Cypress Hills are approximately 20 miles east of Medicine Hat, the largest town in the region.

## GEOLOGY

The general geology of the Cypress Hills is well known and adequately discussed in various Canadian Geological Survey papers (see Bibliography).

The Cypress Hills are remnants of a dissected plateau, underlain by late Tertiary sediments. The cap rock covering the plateau is cemented quartzite and chert cobbles called the Cypress Hills conglomerate. This cap rock lies unconformably on the Tertiary sediments below. Most of the drilling was confined to the flanks of the plateau in order to avoid the thickest zones of the hard cap rock.



All of the drilling footage was completed within the Ravenscrag formation just beneath the cap rock. The Ravenscrag formation is a thick, non-marine series of thinly bedded and interbedded, gray and buff claystones, silts, fine sands, lignites, and thin low grade coal seams. The lower beds of the formation have a gray color, and the upper are buff, due to the presence of limonite. The contact between these two zones is irregular and consequently cannot be used as a marker horizon across the property. Lithologically, this formation consists of a continuous series of gray to buff weathering, gray to brownish clays, claystones and gray to buff to light brown fine sands, silts, argillaceous sands, and sandy claystones. Lignite seams are present and occur at various horizons throughout the area, however, these seams are not nearly as pronounced or abundant as they are further to the east in Saskatchewan.

The most outstanding feature of the formation is the generally constant lithological character exhibited throughout entire sections of the formation.

There are consistent sandstone horizons in the Ravenscrag formation in this western area of the Cypress Hills. The sandstones consist of fine grained well rounded quartz grains and range in thickness from 15 to 90 feet.

Complete stratigraphic and lithologic information for each drill hole is given in Exhibit II of the Appendix.



## RESULTS

### DRILLING DISTRIBUTION

The drilling program encompassed 5 townships extending from the western border of the Cypress Hills provincial park eastward to the Saskatchewan border.

During the course of the drilling, the field party operated out of the town of Elkwater inside the Cypress Hills provincial park. Broad spaced reconnaissance drilling was employed in order to maximize the coverage of the property area in the time available. The first heavy snowfall of the season had just taken place when we reached the field, and this, coupled with the thick gravel gap in the area, dictated in large measure the location of drill holes.

### FIELD PROCEDURE

The field procedure was to first survey in a series of drill hole locations on one mile centers, which gave accurate horizontal and vertical control. These holes were specifically located north and east of the southwest corner of a particular section. The surveying was done by a competent land surveyor. At the beginning of Exhibit I in the Appendix there is a detailed description of the system used to designate the location of each drill hole. Shot hole rigs were used to drill the holes. There were three such rigs in operation throughout the program. Each hole was logged for radiometrics and electrical resistance immediately after it was drilled. The downhole probe unit used for the logging was a Century geophysical truck mounted model 2201 with a DC power supply and a 7 tube gieger detection bundle. The unit was calibrated at the



United States A.E.C. test pits in Casper, Wyoming, prior to and at the conclusion of the field program. In addition, it was calibrated at the beginning and end of each field day with a standard source carried in the truck. On one pass down the hole the unit was capable of producing natural gamma and resistivity curves. Sludge samples were collected at five foot intervals during the drilling and used both to determine lithology and for correlation with the resistivity and gamma curves. Exhibit I of the Appendix contains all of the data concerning each drill hole with the exception of the lithologic and probe logs; the latter are presented in Exhibit II.

A total of 31 holes were drilled during the program to depths ranging from 105 to 210 feet with an average depth of 143 feet.

The following table shows the geographic distribution of 4,445 feet drilled by township and range within the permit area.

Township	Range	Number of Holes	Feet Drilled
6	1	5	675
6	2	11	1575
7	1	3	450
7	2	9	1295
7	3	3	450

#### RADIOMETRIC RESULTS

Only one of the 31 holes drilled cut a radiometric zone; this occurred in hole number SX-1221 located in Sec. 6, Township 6, Range 2. Here the drilling intercepted 8.0 feet of 0.01 percent  $U_3O_8$  in a carbonaceous claystone. Subse-



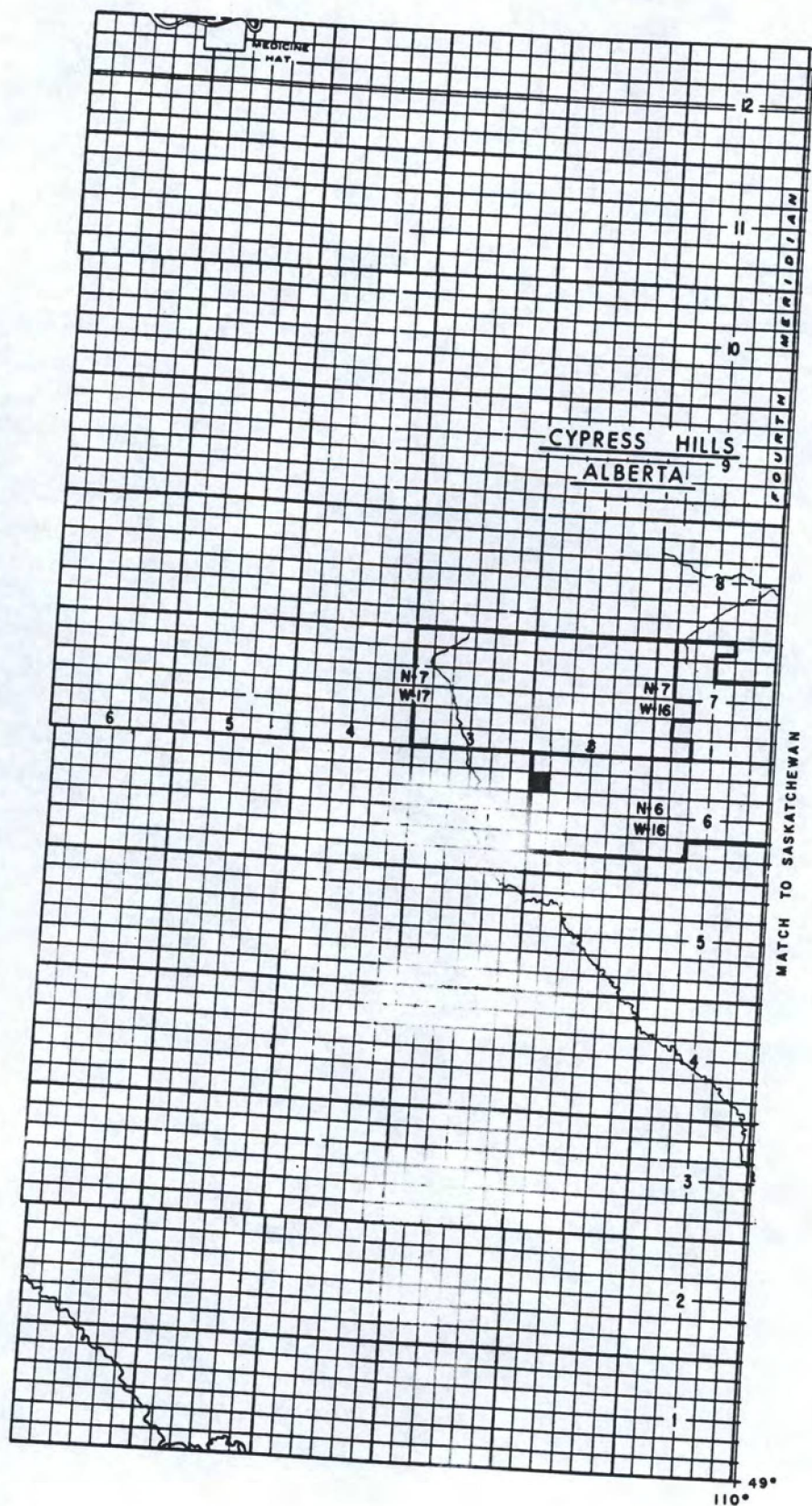
quent drilling in the area did not uncover an extension of this zone, that was apparently an isolated pocket. On the following page there is a map showing the permit area and the location of this one radiometric zone is pinpointed.

There is apparently no coal within the permit area of higher rank than lignite, and the lignite occurs in beds heavily mixed with clay.

### SUMMARY AND CONCLUSIONS

Based on the results of the drilling program, it is concluded there are no economic uranium or coal deposits on the permit area held by Scotaire Exploration Ltd., in Southeastern Alberta.





MAP SHOWING THE PERMIT AREAS HELD BY SCOTEAIRE  
EXPLORATION LTD IN ALBERTA



DISPOSITION OF THE FIELD  
PERSONNEL

Throughout the program the makeup of the field crew was as follows:

Drillers	3
Helpers	3
Samplers	1
Surveyors	1
Rod Man	1
Water Truck Driver	1
Probe Operator	1
Assistant Probe Operator	1
Tool Pusher	1
Geologist	1
<hr/>	
TOTAL	15

The crew was housed in a motel in Elkwater.



(11)  
BIBLIOGRAPHY

- Furnival, G.M., 1950, Cypress Lake map-area, Saskatchewan Geological Survey, Canada, Memoir 242
- Kupsch, W.O., 1956, Geology of Eastern Cypress Hills, Report No. 20, Saskatchewan Department of Mineral Resources, Geological Sciences Branch, Sedimentary Geology Division
- Russell, L.S., 1948, The Geology of the Southern part of the Cypress Hills, Southwestern Saskatchewan: Dept. Nat. Res. Prov. Sask., Petroleum Geol. Ser., Report No. 8



APPENDIX



This exhibit includes, (1), a map showing the permit area held by Scotaire in Southeastern Alberta, (2), a tabulation of the drilling results along with townships plats showing the location and radiometric results for each drill hole.

The drilling results are arranged as follows:

First, the tabulated results for two townships are given including drill hole location, collar elevation, drilling depth, etc. Following this is a two township map graphically illustrating the tabulated data. This information is numerically arranged from Township 6, Range 1, through Township 7, Range 3.

#### MAP DESIGNATIONS

Each of the township plats is tied into the permit map by township and plat number. The plat number gives the location east of the third meridian.

Example:

N-5  
W-2

The N-5 number means the fifth township north. A W-2 means the third and fourth townships east of the third meridian. The third meridian is at longitude 106°.

#### DRILL HOLE LOCATION

The system used to designate the drill hole location is as follows:

Each location is given in a five number set.

First, the coordinates within a section are given and are tied to the southwest corner of the section. The first number gives the distance north of the southwest corner of the section, and the second number gives the distance east



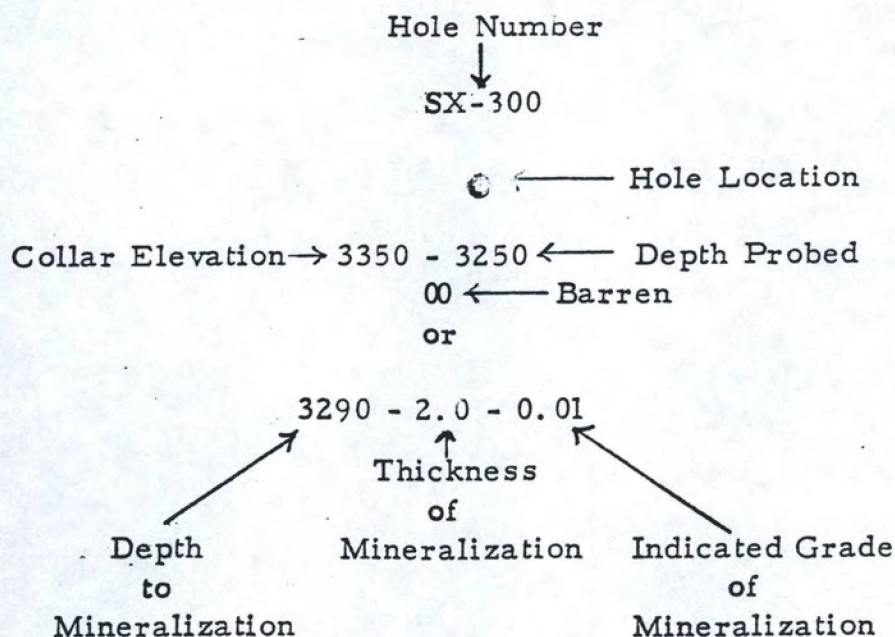
into the section. The last three numbers in the set are section, township, and range. For both the north and east coordinates two zeros must be added to each number to give exact distances.

Example:

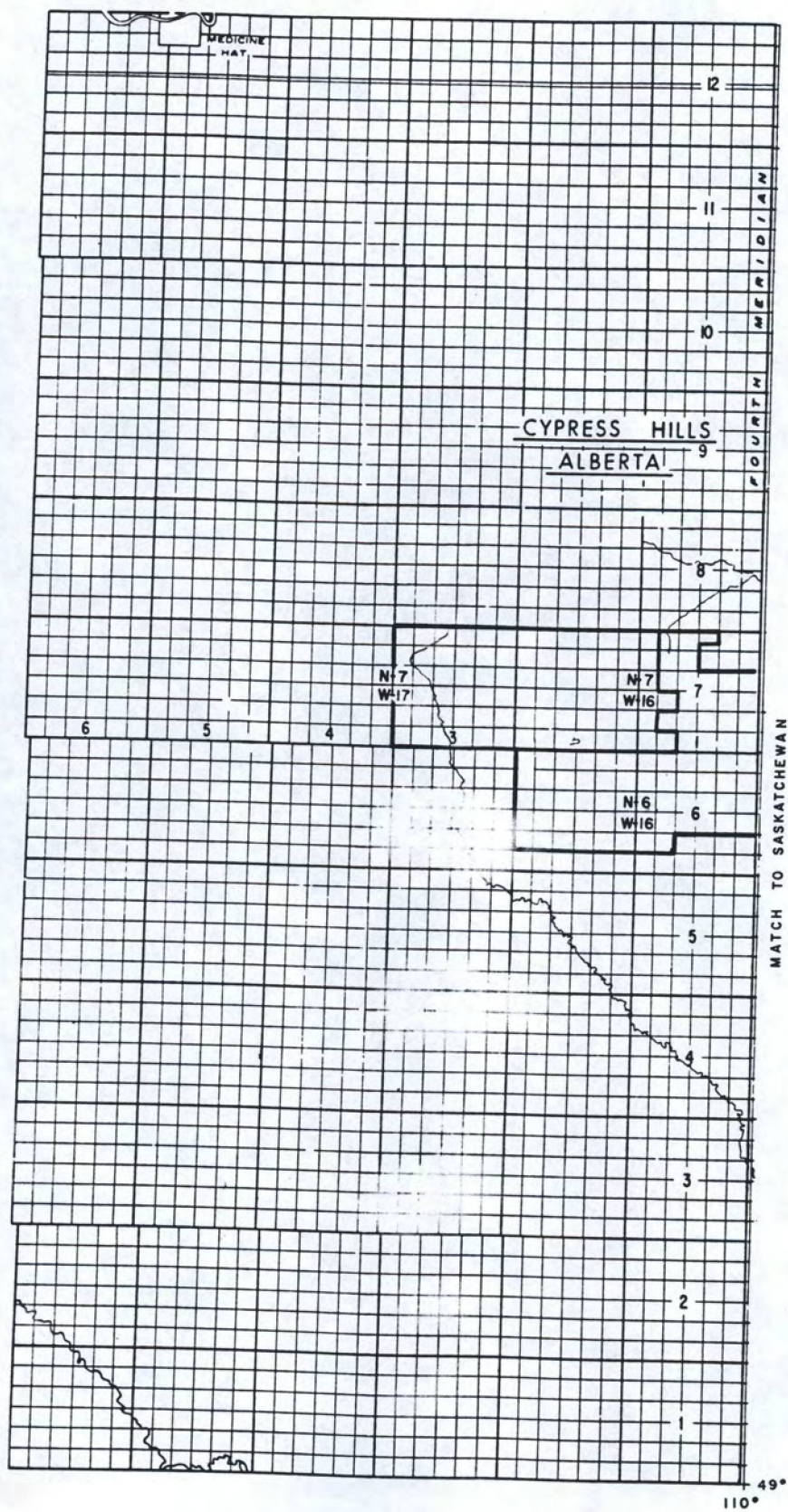
50	—	10	—	10	—	6	—	19
5,000 feet North of SW corner		1,000 feet East of SW corner		Section 10		Township 6		Range 19

### DRILL HOLE INFORMATION ON TOWNSHIP PLATS

The following diagram shows how the drill hole information is displayed on the township plats:







MAP SHOWING THE PERMIT AREAS HELD BY SCOTEAIRE  
EXPLORATION LTD IN ALBERTA



EXHIBIT-1  
TOWNSHIP 6  
RANGE 1  
WEST OF 4th MERIDIAN  
(ELEVATION AND THICKNESSES IN FEET)

<u>HOLE NO.</u>	<u>LOCATION N/E-SEC-TWP-RNG</u>	<u>DATE DRILLD.</u>	<u>COLLAR ELEV.</u>	<u>DEPTH DRILLD.</u>	<u>DEPTH PROBED</u>	<u>DEPTH TO RAVENSCRAG</u>	<u>DEPTH TO BUFF-GRAY CONTACT</u>	<u>DEPTH TO FIRST LIGNITE</u>	<u>RADIOMETRICS DEPTH THICK-GRADE</u>	<u>REMARKS</u>
									70308	
1233	0-22-30-6-1	10-16-69	3884	210	3675	10	95	Not obs.	Barren	
1240	21-0-16-6-1	10-16-69	3772	120	3655	Collared	40	Not obs.	Barren	
1242	0-26-15-6-1	10-16-69	3804	120	3686	Collared	Not cut	Not obs.	Barren	
1248	0-0-26-6-1	10-16-69	3828	105	3724	10	75	Not obs.	Barren	
1252	0-0-27-6-1	10-17-69	3743	120	3626	25	100	75	Barren	

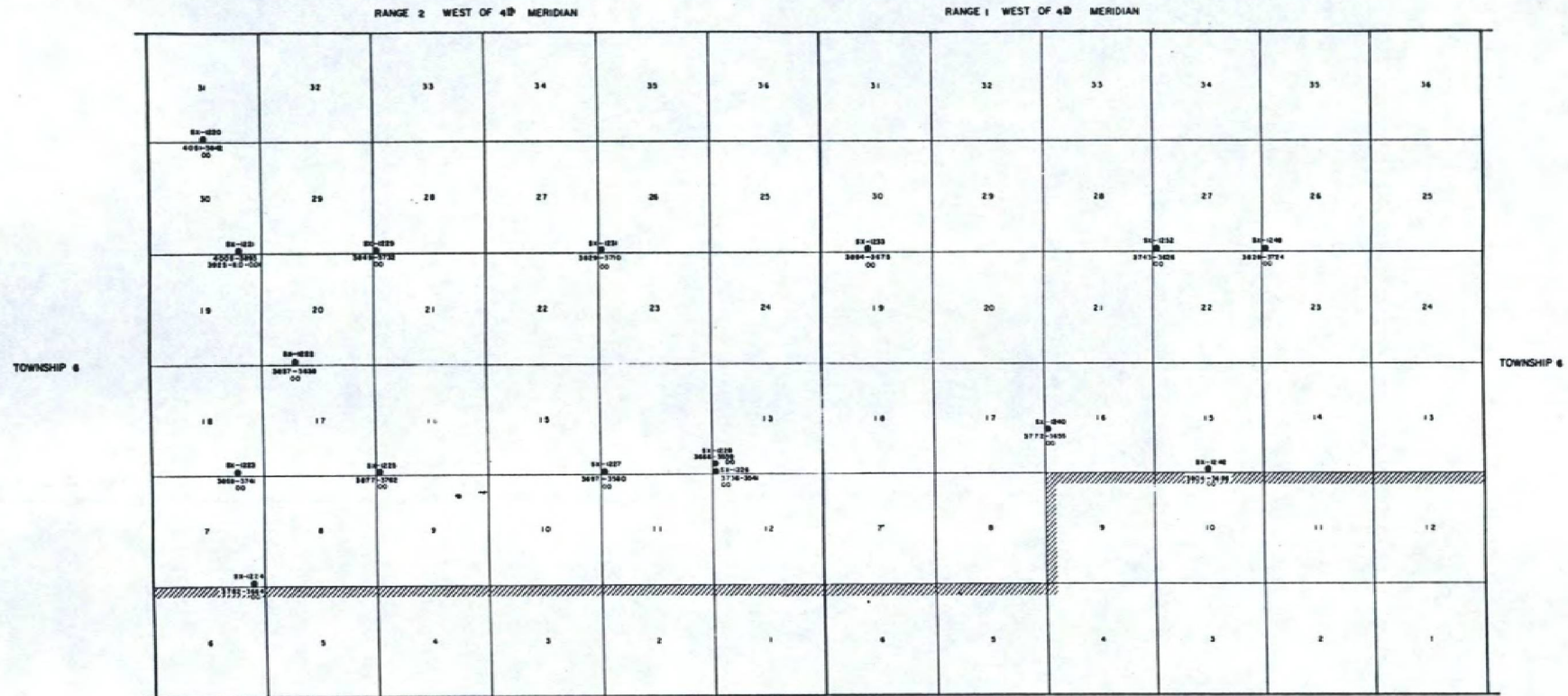


EXHIBIT-1  
TOWNSHIP-6  
RANGE-2  
WEST 10th MERIDIAN  
(ELEVATION AND THICKNESSES IN FEET)

HOLE NO.	LOCATION N/E-SEC-T/RP-RNG	DATE DRILLD.	COLLAR ELEV.	DEPTH DRILL.	DEPTH PROBED	DEPTH TO RAVENSCRAIG	DEPTH TO BUFF-GRAY CONTACT	DEPTH TO FIRST LIGHTITE	RADIOMETRICS			REMARK
									DEPTH	THICK-GRADE		
1220	0-26-31-6-2	10-12-69	4051	210	3842	15	105	105				
1223	0-40-18-6-2	10-13-69	3859	120	3741	Collared	85	Not obs.				
1222	0-16-20-6-2	10-13-69	3837	210	3633	Collared	35	Not obs.				
1224	0-48-7-6-2	10-13-69	3782	120	3664	Collared	80	Not obs.				
1221	0-42-30-6-2	10-13-69	4005	120	3893	Collared	100	80	3925	8.0	0.01	Slight clayst
1225	0-0-16-6-2	10-13-69	3877	120	3762	20	55	Not obs.				
1229	0-0-28-6-2	10-13-69	3849	120	3732	Collared	Not cut	Not obs.				
1227	0-0-14-6-2	10-13-69	3697	120	3580	Collared	70	Not obs.				
1228	2-0-13-6-2	10-14-69	3666	120	3559	Collared	65	Not obs.				
1226	0-0-13-6-2	10-13-69	3736	195	3541	Collared	35	Not obs.				
1231	0-0-26-6-2	10-16-69	3829	120	3710	Collared	20	Not obs.				



EXHIBIT 1



SCALE



DRILL HOLE EXPLANATION

● DRILL HOLE LOCATION  
 COLLAR ELEV - 3002' - 2950' DEPTH ELEV  
 3009' - 300' - 2950'  
 ELEV. TYP. 2' ANOMALY 1' ANOMALY INDICATED (DO - BARREN  
 OF ANOMALY INDICATED 2' BY 2' TIMES INDICATED

LEGEND

● DRILL HOLE LOCATION  
 --- PROPERTY BOUNDARY

INTERCONTINENTAL RESOURCES INC.			
5810 WEST 38TH AVE.		DENVER, COLORADO 80212	
URANIFEROUS LIGNITES PROJECT			
SASKATCHEWAN, CANADA			
TOWNSHIP 6		RANGES 1 & 2, W 4 <sup>TH</sup> M	
DATE JAN. 1/870	APPROVED	MAP NO 38	N - 8 W - 16



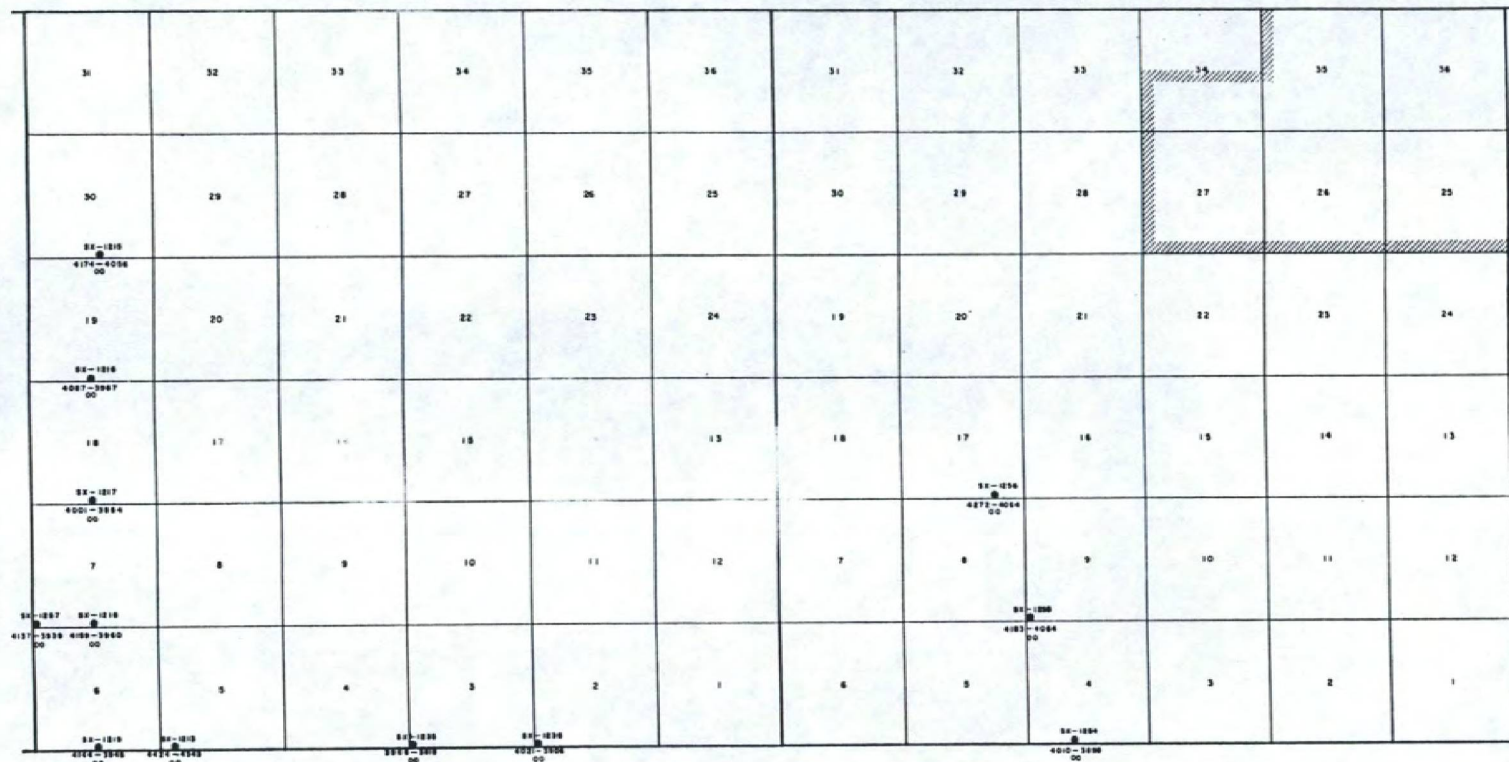
## EXHIBIT 1

RANGE 2 WEST OF 4th MERIDIAN

RANGE 1 WEST OF 41<sup>st</sup> MERIDIAN

TOWNSHIP 7

TOWNSHIP 7



**SCALE**



## DRILL HOLE EXPLANATION

HOLE NUMBER  
 EX-111  
 HOLE LOCATION  
 COLLAR ELEV. → 3027 - 2950 ← HOLE DEPTH ELEV.  
 579-20-015  
 ELEV. OF ANCHOR INDICATED (GO - BANNER)  
 OF THINNESS OF HOLE MADE (2 X 96 X 2 1/2)

### LEGEND

22-001  
 ● - DRILL HOLE LOCATION  
 // - PROPERTY BOUNDARY

INTERCONTINENTAL RESOURCES INC.

5800 WEST 38TH AVE

DENVER, COLORADO 80212

URANIFEROUS LIGNITES PROJECT  
SASKATCHEWAN, CANADA

TOWNSHIP 7 RANGES 1 &amp; 2 : W 4th M

DATE: JAN. 1, 1970

APPROVED
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MAP NO 48

	N-7
--	-----

W-16



EXHIBIT-1  
TOWNSHIP-7  
RANGE-3  
WEST OF 10th MERIDIAN  
(ELEVATION AND THICKNESSES IN FEET)

<u>HOLE NO.</u>	<u>LOCATION N/E-SEC-TWP-RNG</u>	<u>DATE DRLD.</u>	<u>COLLAR ELEV.</u>	<u>DEPTH DRLD.</u>	<u>DEPTH PROBED</u>	<u>DEPTH TO RAVENSCRAG</u>	<u>DEPTH TO BUFF-GRAY CONTACT</u>	<u>DEPTH TO FIRST LIGNITE</u>	<u>RADIOMETRICS</u>		<u>REMARKS</u>
									<u>DEPTH</u>	<u>THICK-GRADE</u>	
										20308	
1250	26-0-21-7-3	10-17-69	3571	120	3453	Collared	50	Not obs.			Barren
1251	35-0-9-7-3	10-17-69	3520	120	3402	Collared	45	Not obs.			Barren
1249	41-0-29-7-3	10-17-69	3898	210	3700	Collared	155	Not obs.			Barren

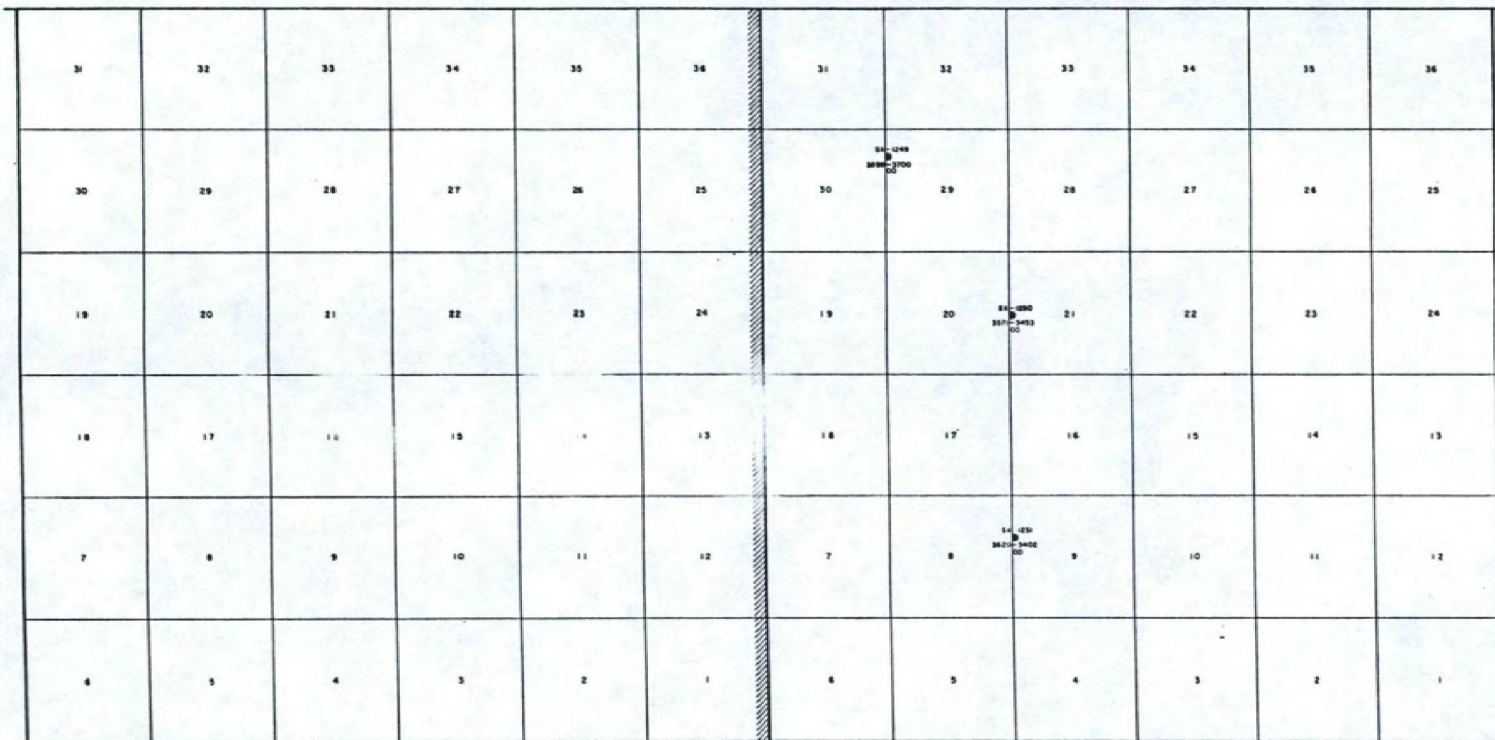


## EXHIBIT 1

RANGE 4 WEST OF 4 <sup>1</sup>/<sub>2</sub> MERIDIANRANGE 3 WEST OF 4<sup>th</sup> MERIDIAN

TOWNSHIP 7

TOWNSHIP 7



SCALE

4. 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, 2680, 2681, 2

## DRILL HOLE EXPLANATION

EX - 111  
 COLLAR ELEV → 3027 - 2950 + 77 = COLLAR ELEV  
 3028 - 20 = 3008  
 ELEV (at ANOMALY) 3008  
 OF ANOMALY 3008

### LEGEND

 - DRILL HOLE LOCATION  
 - PROPERTY BOUNDARY

INTERCONTINENTAL RESOURCES INC.

5810 WEST 38TH AVE. DENVER, COLORADO 80212

URANIFEROUS LIGNITES PROJECT  
SASKATCHEWAN, CANADA

TOWNSHIP 7      RANGES 3 & 4      W 4<sup>th</sup> M

DATE: JAN. 1, 1970

APPROVED
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MAP NO 47

	N-
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W- 17



## EXHIBIT II

Included in this Exhibit are the individual lithology and probe logs. Both logs are presented on the same sheet. All of the information in Exhibit I was tabulated and drawn from these sheets. They are arranged numerically by drill hole number within the township and range in which they were drilled. The townships and ranges are given consecutively from Township 6, Range 1, through Township 7, Range 3.

At the top of each sheet is the drill hole number, location, collar elevation, date drilled, and depth drilled and probed. Below this on the left side of the sheet is the probe log, the curve farthest to the left is the gamma curve, and the scale in counts per second is given at the bottom of each curve. This scale is one-half the total distance across the darkened area. The curve on the right side is the resistivity curve of the strip chart, and the blank area in the middle of the chart counts as one major division of the scale. As a general rule of thumb, 38 counts per second equals 0.01 percent  $U_3O_8$ . On the sheets that have three curves, the curve in the middle is the self-potential curve. Next on the sheet going from left to right is the depth chart which is calibrated every two feet and applies to both the probe and lithology logs. Next are the letters P-C and A, these apply to pyrite, carbon and alteration, respectively. A diagonal slash across one of the small squares below each of these letters means a small amount of the element or condition was found in the sludge samples at that particular depth. A partially filled in square represents a modest amount and a totally filled in square represents a large amount.

Next on the page is the strip log showing the rock types encountered through-



out the drill hole based on the sludge samples and resistivity curve. Finally the detailed lithology is given for each change in rock type down the hole.



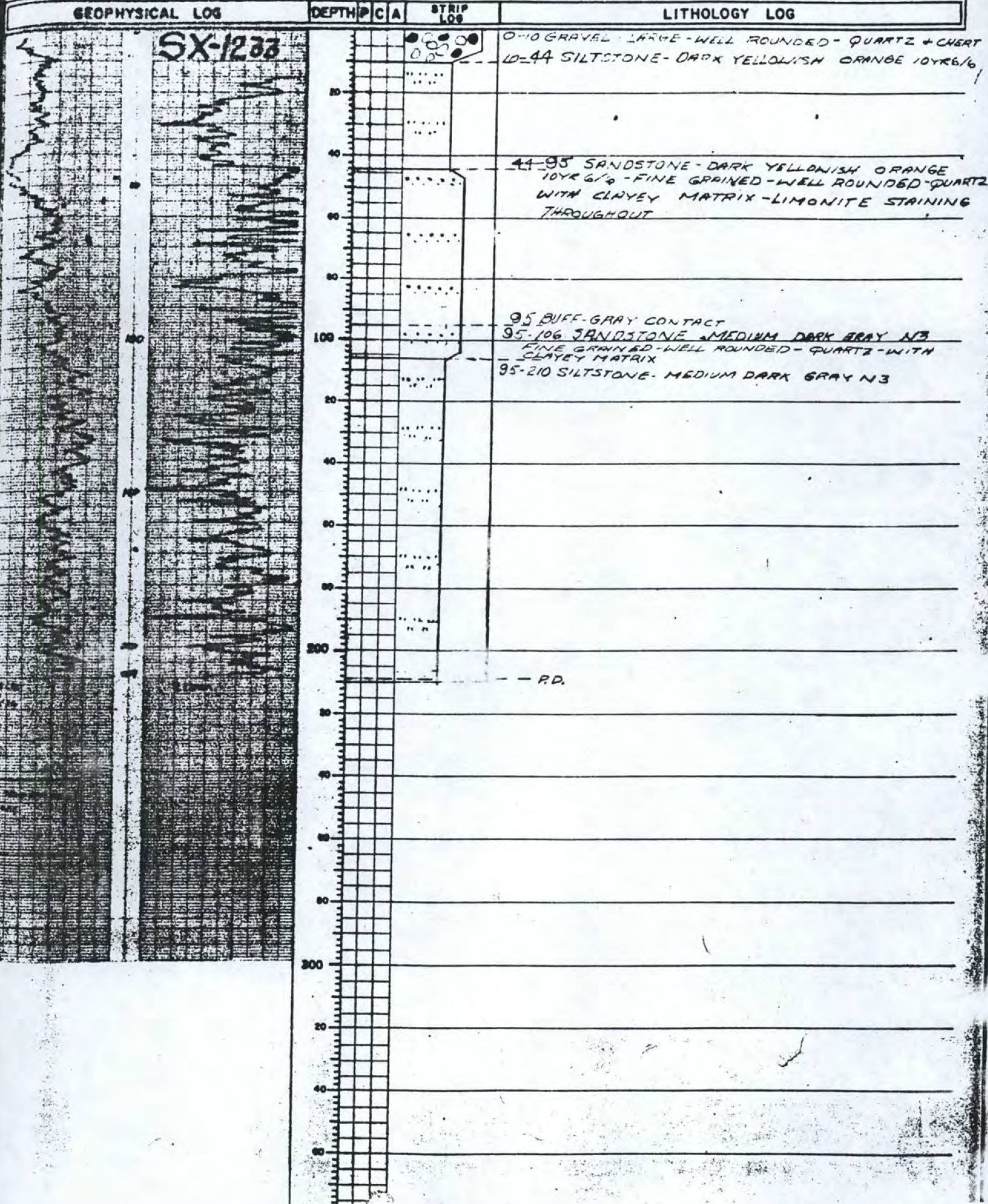
TOWNSHIP - 6

RANGE -

WEST OF 4th MERIDIAN

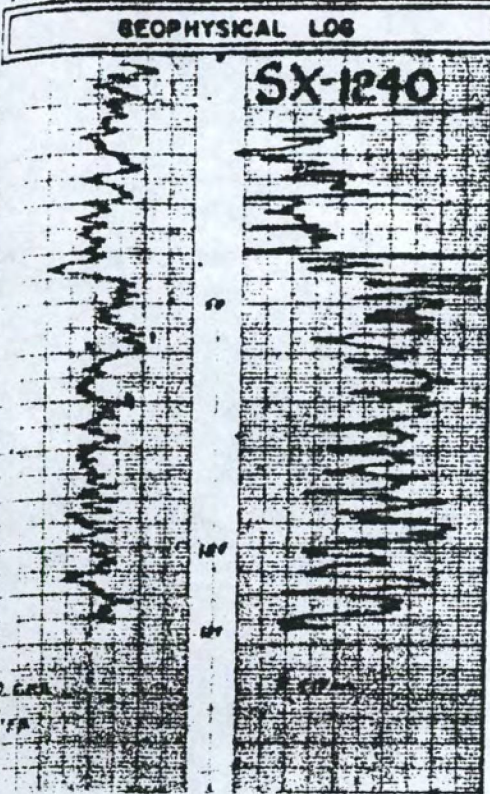


PROJECT SASK LIGNITES HOLE SIZE 4.5' ☐ AIR ☒ WATER HOLE NO. SX-1233  
 ELEVATION \_\_\_\_\_ NORTH 0 EAST 22 LOGGED BY F. CORNISH DATE 10-16-69  
 SECTION 30 TOWNSHIP 6 RANGE 1 T.D. 210 P.D. 209





PROJECT SIXA LIGNITE HOLE SIZE 4.2 ☐ AIR ☒ WATER HOLE NO. SX-1240  
 ELEVATION \_\_\_\_\_ NORTH 21 EAST 0 LOGGED BY E. CORNISH DATE 10-16-69  
 SECTION 16 TOWNSHIP 6 RANGE 1 T.D. 120 P.D. 117

GEOPHYSICAL LOG		DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
							0-40 CLAYSTONE - MODERATE YELLOWISH BRN 10YR 5/4
		70					
		40					40 BUFF-GRAY CONTACT
		60					40-120 SILTSTONE - MEDIUM DARK GRAY N 3
		80					
		100					
		20					--RD.
		40					
		60					
		80					
		100					
		120					
		140					
		160					
		180					
		200					
		220					
		240					
		260					
		280					
		300					
		320					
		340					
		360					
		380					
		400					







GEOPHYSICAL LOG		DEPTH	PC	CA	STRIP LOG	LITHOLOGY LOG
	<p><b>SX-1248</b></p>	0			0-10 GRAVEL - SMALL - WELL ROUNDED - QUARTZITE & CHESTNUT CLAYSTONE - MODERATE YELLOWISH BRN IRON LIMONITE STAINING THROUGHOUT	
		10				
		20				
		30				
		40				
		50				
		60				
		70				
		80				75-105 CLAYSTONE - DARK GREENISH GRAY 564X BUFF-GRAY CONTACT
		90				
		100				
		110				
		120				
		130				
		140				
		150				
		160				
		170				
		180				
		190				
200						
210						
220						
230						
240						
250						
260						
270						
280						
290						
300						
310						
320						
330						
340						
350						
360						
370						
380						
390						
400						
410						
420						
430						
440						
450						
460						
470						
480						
490						
500						
510						
520						
530						
540						
550						
560						
570						
580						
590						
600						



SECTION \_\_\_\_\_ NORTH 0 EAST 0 LOGGED BY E. CARNISH DATE 10-17-69  
TOWNSHIP 27 RANGE 1 T.D. 120 P.D. 117

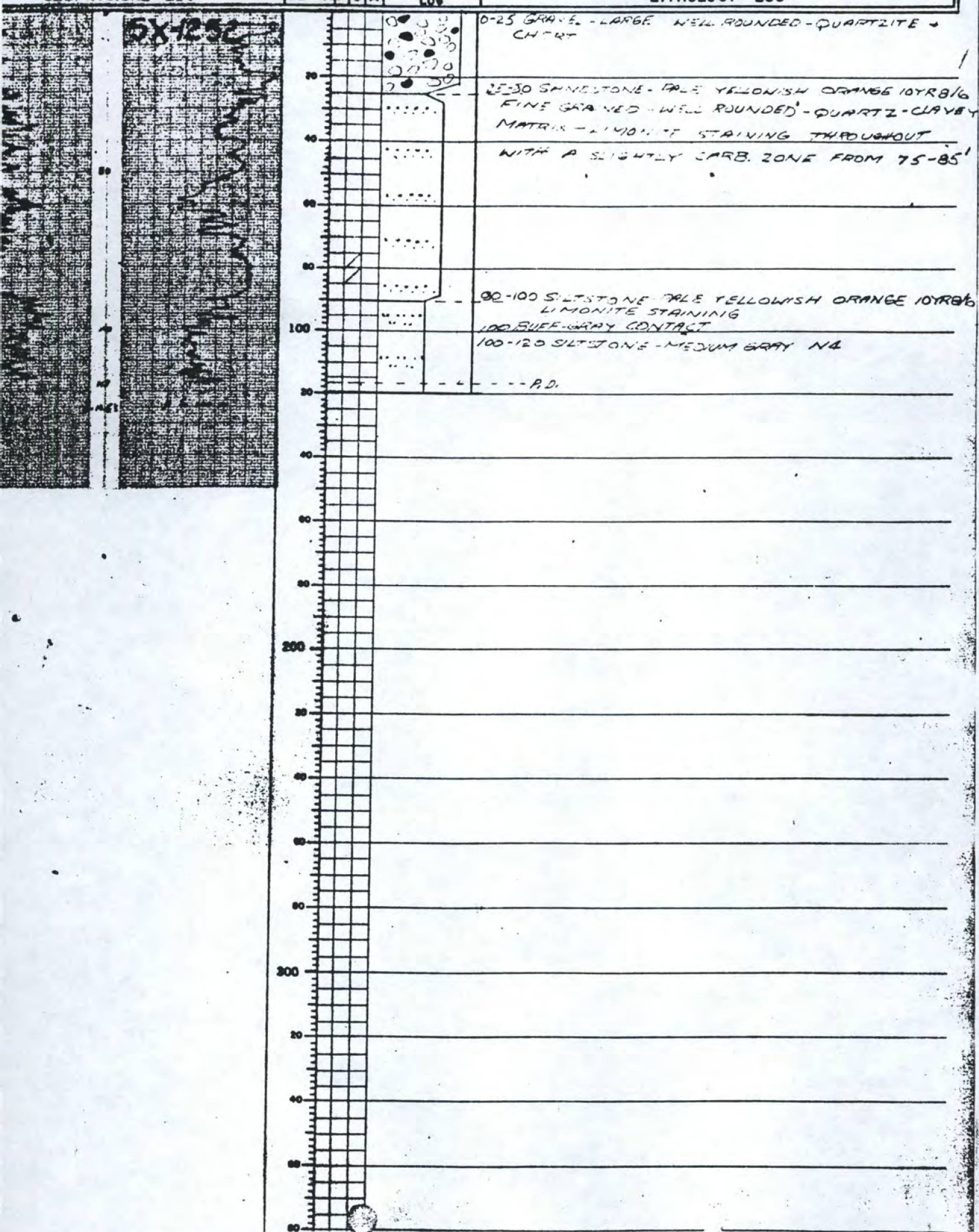
## GEOPHYSICAL LOG

DEPTH

C A

STRIP  
LOG

## LITHOLOGY LOG





TOWNSHIP - 6

RANGE - 2

WEST OF 4th MERIDIAN



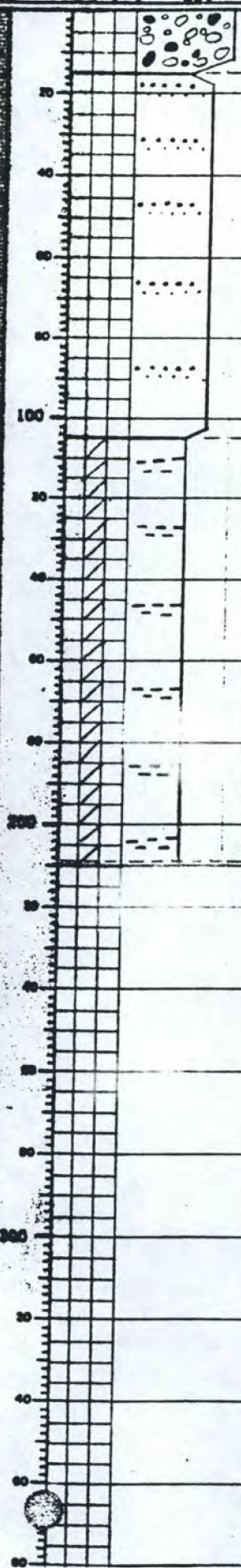
ELEVATION \_\_\_\_\_ NORTH \_\_\_\_\_ EAST 26 LOGGED BY E. CORNISH DATE 10-12-69  
 SECTION 31 TOWNSHIP 6 RANGE 2 T.D. 210 P.D. 209

GEOPHYSICAL LOG

DEPTH P C A

STRIP LOG

LITHOLOGY LOG



0-15 GRAVEL - MEDIUM SIZED - WELL ROUNDED  
 QUARTZITE - CHERT  
 15-105 SANDSTONE - GRAYISH ORANGE 10YR 7/4  
 FINE GRAINED - WELL ROUNDED - QUARTZ  
 WITH CLAYEY MATRIX - BLACK MINER.  
 PRESENT THROUGHOUT  
 105 BUFF - GRAY CONTACT  
 105-210 CLAYSTONE - DARK GREENISH GRAY 5  
 WITH SMALL AMOUNTS OF CARBONACEOUS  
 MATERIAL THROUGHOUT THE ZONE  
 --- P.D.

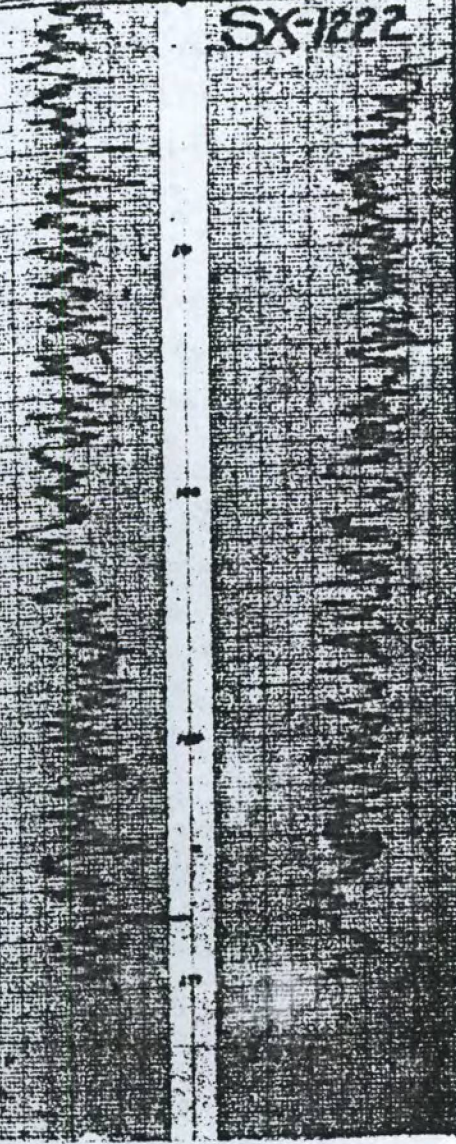


ELEVATION \_\_\_\_\_ NORTH 0 EAST 42 LOGGED BY E. CORNISH DATE 10-13-69  
 SECTION 30 TOWNSHIP 6 RANGE 2 T.D. 120 P.D. 112

GEOPHYSICAL LOG		DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG	
	<b>SX-1221</b>	0					COLORED IN REVERSE	
		10						0-100 CLAYSTONE - GRAYISH ORANGE 10YR 7/4
		20						SLIGHTLY CARB. ZONE FROM 80-90'
		30						
		40						
		50						
		60						
		70						80 GAMMA LOG SHOWS B.O. @ 7.21 IN ZONE
		80						OF SLIGHTLY CARB. CLAYSTONE
		90						100 BUFF. GRAY CONTACT *
100						100-120 CLAYSTONE - OLIVE GRAY 5Y 4/1		
110								
120								
130								
140								
150								
160								
170								
180								
190								
200								
210								
220								
230								
240								
250								
260								
270								
280								
290								
300								
310								
320								
330								
340								
350								
360								
370								
380								
390								
400								



PROJECT SASK. LIGNITES HOLE NO. 1222 HOLE SIZE 4.5 ☐ AIR ☐ WATER  
 ELEVATION 10 NORTH 0 EAST 16 LOGGED BY E. CORNISH DATE 10-13-69  
 SECTION 10 TOWNSHIP 6 RANGE 2 T.D. 210 P.D. 199

GEOPHYSICAL LOG		DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
		0					COLLARED IN RCVG. BUFF
		10					0-35 CLAYSTONE - MODERATE YELLOWISH BRN - 10YR 5/4
		20					LIMONITE STAINING THROUGHOUT
		30					
		40					35 BUFF-GRAY CONTACT
		50					35-210 CLAYSTONE - MEDIUM DARK GRAY N3
		60					
		70					
		80					
		90					
		100					
		110					
		120					
		130					
		140					
		150					
		160					
		170					
		180					
		190					
		200					BD
		210					
		220					
		230					
		240					
		250					
		260					
		270					
		280					
		290					
		300					
		310					
		320					
		330					
		340					
		350					
		360					
		370					
		380					
		390					
		400					
		410					
		420					
		430					
		440					
		450					
		460					
		470					
		480					
		490					
		500					



GEOPHYSICAL LOG

DEPTH

CA

STRIP LOG

LITHOLOGY LOG

SX-1221

COLLARED IN REV. RUFF  
0-80 CLAYSTONE-MODERATE YELLOWISH BRN 10YR 5/4  
LIMONITE STAINING THROUGHOUT

80 RUFF-GRAY CONTACT  
80-120 CLAYSTONE-MEDIUM DARK GRAY N3

- RD.



35-175 C25 - 100% - MEDIUM DARK GRAY N3  
BUFF-60% - 30% - 10%



LOCATION 12 NORTH 2 EAST 0 LOGGED BY E. CORNISH DATE 10-13-69  
 TOWNSHIP 6 RANGE 2 T.O. 120 P.D. 117

GEOPHYSICAL LOG

DEPTH

CA

STRIP LOG

LITHOLOGY LOG

SX-1227

COLLAPSED IN FLOW BUFF  
 70-120 CLAYSTONE - MEDIUM BROWN BRN10YR5H  
 WITH TYPICAL SMALL PEBBLES OF  
 QUARTZ - SAND - FIRST IN THE TOP 25'

TO BUFF-GRAY CONTACT  
 70-120 CLAYSTONE - DARK GREENISH GRAY 5GY4H

RD.



PROJECT SASK. LIGNITES HOLE SIZE 4.5" ☐ AIR ☒ WATER HOLE NO. SX-1228  
 ELEVATION \_\_\_\_\_ NORTH 2 EAST 0 LOGGED BY S. COARNISH DATE 10-14-69  
 SECTION 13 TOWNSHIP 6 RANGE 2 T.D. 120 P.D. 107

GEOPHYSICAL LOG		DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG	
	<p><b>SX-1228</b></p>	0						
		20						
		40						
		60						
		80						
		100						
		120						
		140						
		160						
		180						
		200						
		220						
		240						
		260						
		280						
		300						
		320						
		340						
		360						

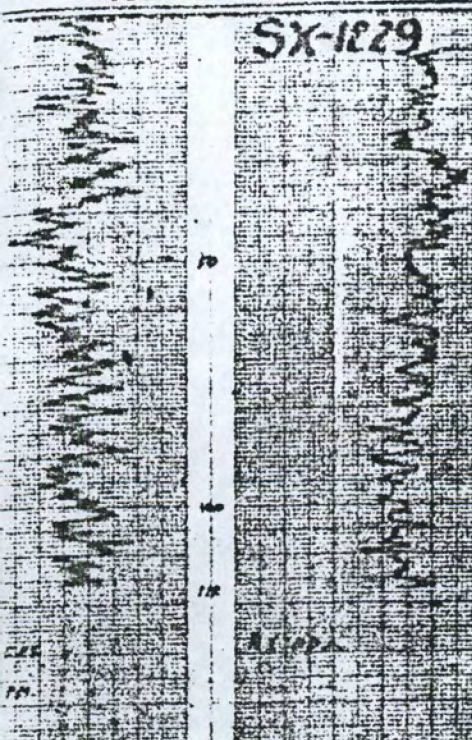



10' SECTION ...  
 65' BUFF GRAY ...  
 65' TO 120' ...



PROJECT SASK. LIGNITES HOLE SIZE 4.5" ☐ AIR ☒ WATER HOLE NO. SX-1229

ELEVATION \_\_\_\_\_ NORTH 0 EAST 0 LOGGED BY E. CORNISH DATE 2-15-69

SECTION B-3 TOWNSHIP 6 RANGE 2 T.D. 120 P.D. 117

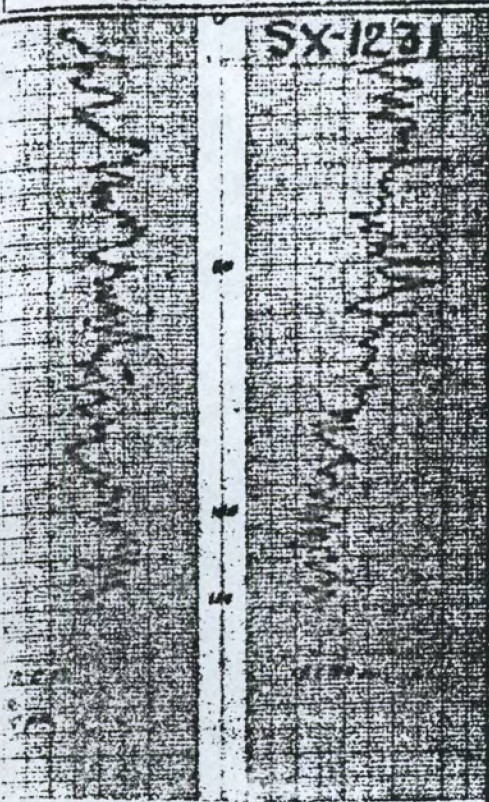
GEOPHYSICAL LOG		DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
 <u>SX-1229</u>		20					COLLARED IN 10' 5" GRAY
		40					0-20 CLAY - TONE - MEDIUM BLuish GRAY 5B51
		60					
		80					
		100					
		120					
		140					
		160					
		180					
		200					
		220					
		240					
		260					
		280					
		300					
		320					
		340					
		360					
		380					
		400					
		420					
		440					
		460					
		480					
		500					
		520					
		540					
		560					
		580					
		600					
		620					
		640					
		660					
		680					
		700					
		720					
		740					
		760					
		780					
		800					
		820					
		840					
		860					
		880					
		900					
		920					
		940					
		960					
		980					
		1000					



PROJECT SASH. LIGNITE HOLE SIZE 4.5" ☐ AIR ☒ WATER HOLE NO. SX 1231

ELEVATION \_\_\_\_\_ NORTH 0 EAST 0 LOGGED BY E. CORNISH DATE 10-16-69

SECTION 26 TOWNSHIP 6 RANGE 2 T.D. 120 P.D. 119

GEOPHYSICAL LOG		DEPTH	CA	STRIP LOG	LITHOLOGY LOG
	SX-1231	0			0-10 CLAYSTONE - MODERATE YELLOWISH BRN 10YR 5.5
		20			20-40 BEE-GRAY CONTACT
		40			20-120 CLAYSTONE - MEDIUM DARK GRAY N3
		60			
		80			
		100			
		120			
		140			
		160			
		180			
200					
220					
240					
260					
280					
300					
320					
340					
360					
380					
400					
420					
440					
460					
480					
500					
520					
540					
560					
580					
600					
620					
640					
660					
680					
700					
720					
740					
760					
780					
800					
820					
840					
860					
880					
900					
920					
940					
960					
980					
1000					

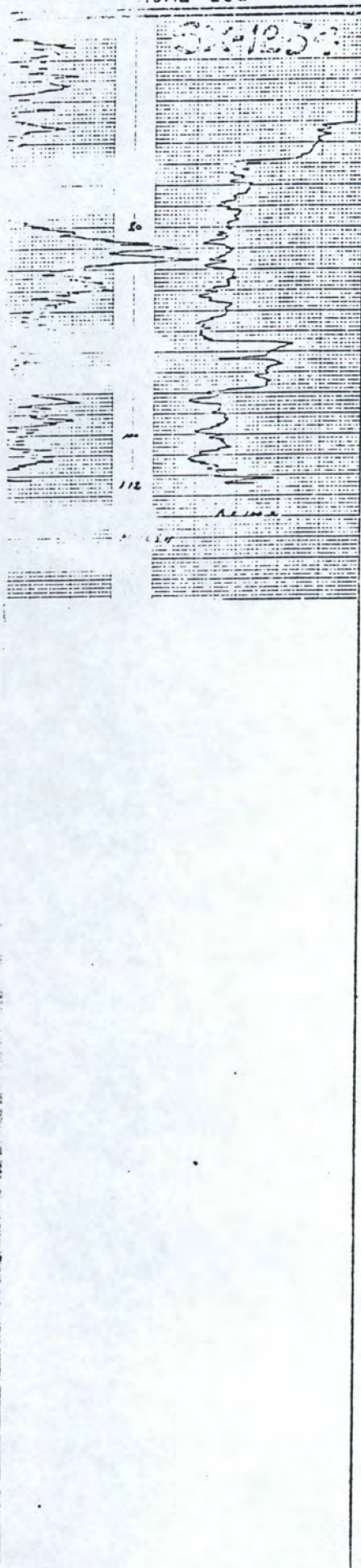


TOWNSHIP - 7

RANGE - 1

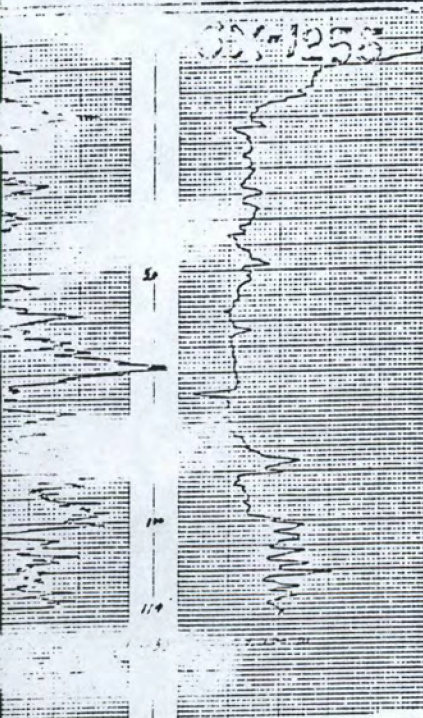
WEST OF 4th MERIDIAN



GEOLOGICAL LOG	DEPTH	P.C.A.	STRIP	LITHOLOGY LOG
	0 20 40 60 80 100 112 20 40 60 80 200 20 40 60 80 300 20 40 60	0-35 35-60 60-120 120-150 150-180 180-210 210-240 240-270 270-300 300-330 330-360 360-390 390-420 420-450 450-480 480-510 510-540 540-570 570-600 600-630 630-660 660-690 690-720 720-750 750-780 780-810 810-840 840-870 870-900 900-930 930-960 960-990	0-35 35-60 60-120 120-150 150-180 180-210 210-240 240-270 270-300 300-330 330-360 360-390 390-420 420-450 450-480 480-510 510-540 540-570 570-600 600-630 630-660 660-690 690-720 720-750 750-780 780-810 810-840 840-870 870-900 900-930 930-960 960-990	0-35 SANDSTONE - PALE YELLOWISH ORANGE BROWN FINE GRAINED - WELL ROUNDED - QUARTZ - WITH CLAY MATRIX - LIMONITE STAINING THROUGHOUT  35-60 CLAYSTONE - PALE YELLOWISH ORANGE BROWN  60-120 CLAYSTONE - MEDIUM DARK GRAY NS  120-150 CLAYSTONE - MEDIUM DARK GRAY NS  150-180 CLAYSTONE - MEDIUM DARK GRAY NS  180-210 CLAYSTONE - MEDIUM DARK GRAY NS  210-240 CLAYSTONE - MEDIUM DARK GRAY NS  240-270 CLAYSTONE - MEDIUM DARK GRAY NS  270-300 CLAYSTONE - MEDIUM DARK GRAY NS  300-330 CLAYSTONE - MEDIUM DARK GRAY NS  330-360 CLAYSTONE - MEDIUM DARK GRAY NS  360-390 CLAYSTONE - MEDIUM DARK GRAY NS  390-420 CLAYSTONE - MEDIUM DARK GRAY NS  420-450 CLAYSTONE - MEDIUM DARK GRAY NS  450-480 CLAYSTONE - MEDIUM DARK GRAY NS  480-510 CLAYSTONE - MEDIUM DARK GRAY NS  510-540 CLAYSTONE - MEDIUM DARK GRAY NS  540-570 CLAYSTONE - MEDIUM DARK GRAY NS  570-600 CLAYSTONE - MEDIUM DARK GRAY NS  600-630 CLAYSTONE - MEDIUM DARK GRAY NS  630-660 CLAYSTONE - MEDIUM DARK GRAY NS  660-690 CLAYSTONE - MEDIUM DARK GRAY NS  690-720 CLAYSTONE - MEDIUM DARK GRAY NS  720-750 CLAYSTONE - MEDIUM DARK GRAY NS  750-780 CLAYSTONE - MEDIUM DARK GRAY NS  780-810 CLAYSTONE - MEDIUM DARK GRAY NS  810-840 CLAYSTONE - MEDIUM DARK GRAY NS  840-870 CLAYSTONE - MEDIUM DARK GRAY NS  870-900 CLAYSTONE - MEDIUM DARK GRAY NS  900-930 CLAYSTONE - MEDIUM DARK GRAY NS  930-960 CLAYSTONE - MEDIUM DARK GRAY NS  960-990 CLAYSTONE - MEDIUM DARK GRAY NS



GEOPHYSICAL LOG DEPTH C/A STRIP LOG LITHOLOGY LOG



0-5	CLAYSTONE-MODERATE YELLOWISH BRN 10YR 5-10	
5-15	A CARBONACEOUS CLAYSTONE ZONE-FROM 5-15'	
15-20	AND ANOTHER ZONE OF MOD. CLAYSTONE FROM 15-20'	
20-40		
40-60		
60-80		
80-100		
100-120	100-120 CLAYSTONE-LIGHT GRAY-V	
120-140	THERE IS AN OCCASIONAL ZONE OF REDD. CLAY THROUGHOUT THIS ZONE-THERE IS A SLIGHTLY COARER ZONE FROM 120-140'	
140-160		
160-180		
180-200		
200-220		
220-240		
240-260		
260-280		
280-300		
300-320		
320-340		
340-360		
360-380		
380-400		
400-420		
420-440		
440-460		
460-480		
480-500		
500-520		
520-540		
540-560		
560-580		
580-600		
600-620		
620-640		
640-660		
660-680		
680-700		
700-720		
720-740		
740-760		
760-780		
780-800		
800-820		
820-840		
840-860		
860-880		
880-900		
900-920		
920-940		
940-960		
960-980		
980-1000		



GEOPHYSICAL LOG

DEPTH P C A

STRIP  
LOG

LITHOLOGY LOG

SX-1256

20

40

60

80

100

120

140

160

180

200

220

240

260

280

300

320

340

360

COLLARED IN 1018. 2017  
 0-50 CLAYSTONE-PALE YELLOWISH ORANGE 10YR 6/6

50-80 SILTSTONE-PALE YELLOWISH ORANGE 10YR 6/6

80-100 CLAYSTONE-PALE YELLOWISH ORANGE 10YR 6/6

100-110 CLAYSTONE-GRAY 5.5Y 4/1

100-210 CLAYSTONE-DARK GREENISH GRAY 5.5Y 4/1  
 TWO SLIGHTLY COMPRESSED ZONES (USWT)  
 FROM 115-150' AND 185-195'

210



TOWNSHIP - 7

RANGE - 2

WEST OF 4th MERIDIAN



## GEOPHYSICAL LOG

DEPTH P.C. A

STAMP  
LOG

## LITHOLOGY LOG

SX-1213

0-55 GRAY CLAYSTONE - LARGE IRREGULARLY WELL-ROUNDED  
QUARTZITE AND CHERT

55-95 CLAYSTONE - GRAYISH ORANGE IRREGULAR

P.D.

END TO STOP DRILLING KEEP LOGGING  
CIRC.

200

20

40

60

80

300


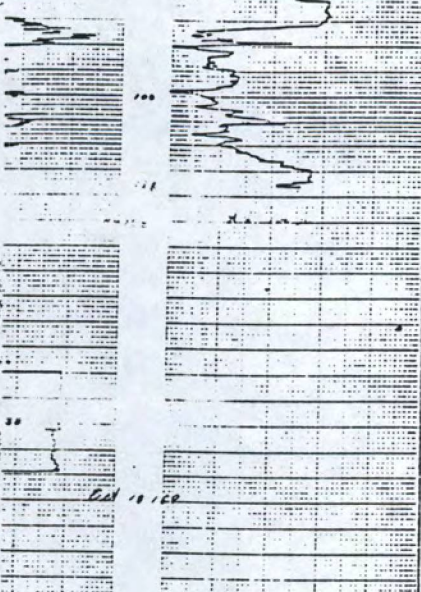
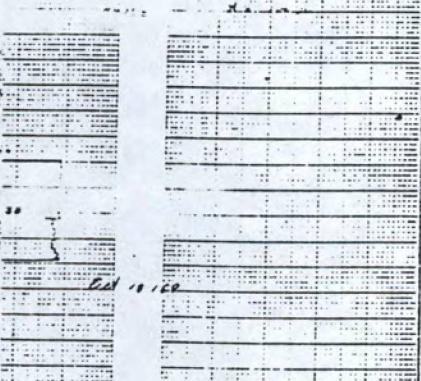

20

40

60



ON 4174 NORTH 2 EAST 30 LOGGED BY E. CORNISH DATE 12-3-50  
50 TOWNSHIP 7 RANGE 2 T.D. 120 P.O. 113

GEO. LOG		DEPTH	PI	CI	STRIP	LITHOLOGY LOG
		LOG				
		0				COLLARED INTERVAL 15'
		0-95				CLAYSTONE-GRAYISH DRANGE 10YR 7.5 WITH A SLIGHTLY CARB. ZONE FROM 20-30' AND ANOTHER FROM 75-95'
		60				CLAYSTONE-GRAY CONTACT
		65-120				CLAYSTONE-GRAYISH GREEN 5.5 Y 3.5 WITH A SLIGHTLY CARB. ZONE FROM 95-100'
		20				
		40				
		60				
		80				
		100				
		120				
		200				
		220				
		240				
		260				
		280				
		300				
		320				
		340				
		360				
		380				
		400				
		420				
		440				
		460				
		480				
		500				



GEOPHYSICAL LOG

DEPTH C/A STRIP LOG

LITHOLOGY LOG

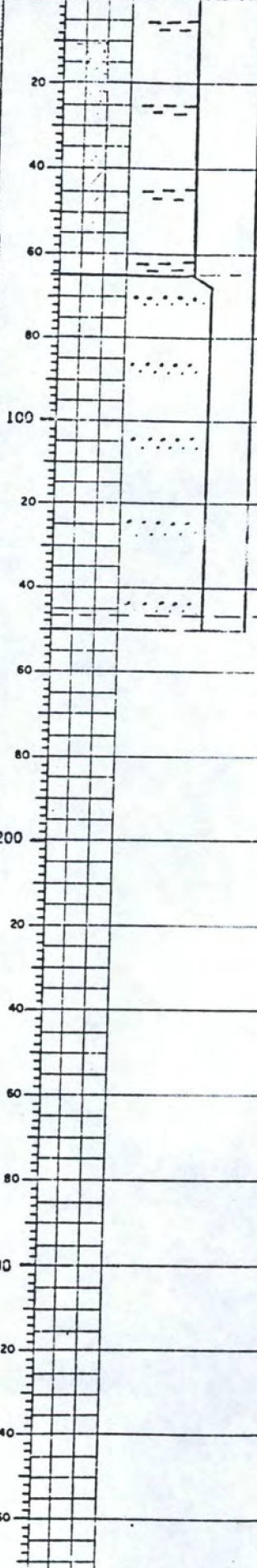
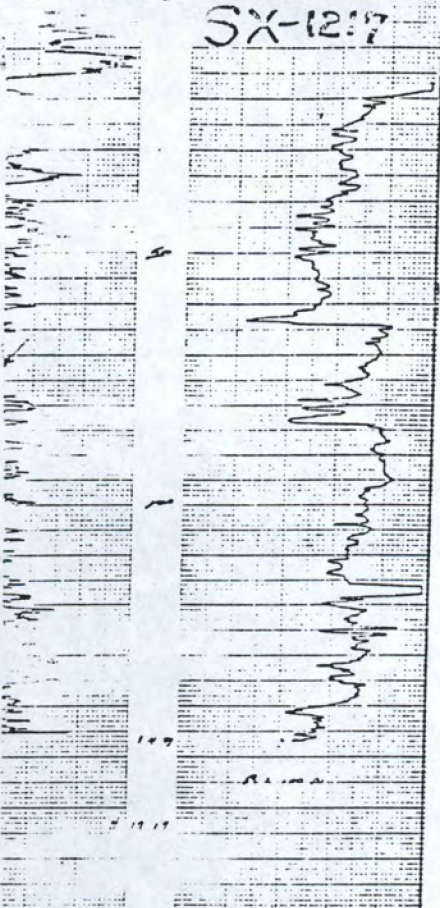
3X-1213

CORRELATED IN 10-12-13  
3-55 CLAYSTONE - PALE YELLOWISH ORANGE 10%  
55 BUFF-GRAY CONTACT  
55-120 CLAYSTONE - GREENISH GRAY 5% S.I.  
AND SLIGHTLY CARBONACEOUS THROUGHOUT THE ZONE

20  
40  
60  
80  
100  
20  
40  
60  
80  
200  
20  
40  
60  
80  
300  
20  
40  
60



GEOPHYSICAL LOG DEPTH (P.C.A.) STRIP LOG LITHOLOGY LOG



COLLARED IN R.V.D. BUFF.  
 0-65 SILTSTONE - GRAYISH DRAB 10YR 7/4  
 WITH A HEAVILY CARBONACEOUS ZONE  
 FROM 10-25' AND A "LIGHTING ZONE"  
 ZONE FROM 25-75'

BUFF-GRAY CONTACT  
 65-100 SANDSTONE - GREENISH GRAY 5.5G  
 FINE GRAINED - WELL ROUNDED - QUARTZ - WITH  
 CLAY MATRIX

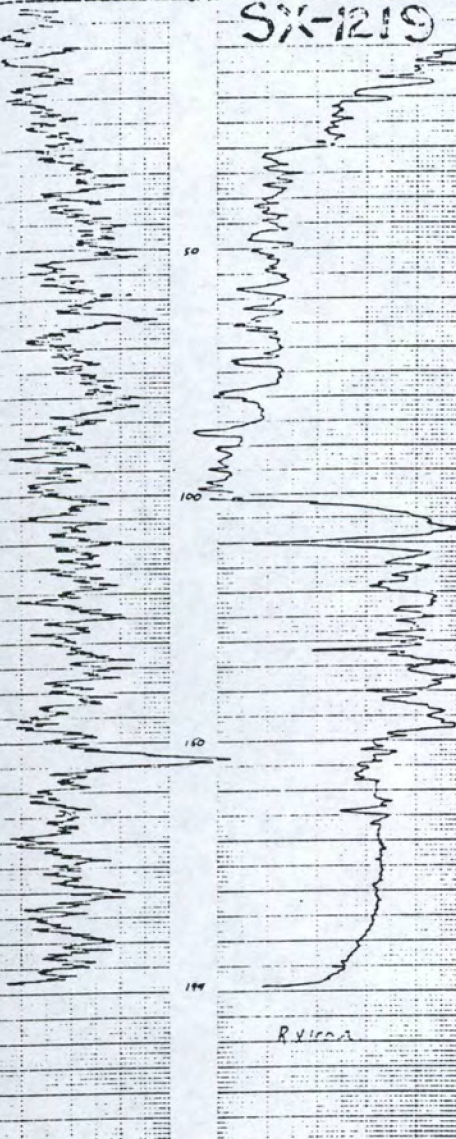
- - P.D.



GEOPHYSICAL LOG	DEPTH	P	C	A	LITHOLOGY LOG
<div data-bbox="276 136 503 210">SX-1213</div> <div data-bbox="89 136 259 1050"> </div>	<div data-bbox="519 136 828 2047"> </div>	<div data-bbox="828 136 990 2047"> </div>	<div data-bbox="990 136 1153 2047"> </div>	<div data-bbox="1153 136 1315 2047"> </div>	<div data-bbox="1315 136 1591 2047"> <p>0-5' SAND - LARGE - WELL POUNDED - GRANULAR - GRAY</p> <p>5-35 CLAYSTONE - GRAYISH ORANGE TINT W/</p> <p>30' BUFF - GRAY CONTACT</p> <p>30-100 CLAYSTONE - MEDIUM BLUISH GRAY 5-55% SMALL STRIPES OF LENS EDDY SP-10</p> <p>100-120 LOST CIRCULATION - NO SAMPLES</p> <p>--- P.D.</p> </div>



PROJECT SAT. 10-12-50 HOLE NO. SX-1219 HOLE SIZE 4.5" ☐ AIR ☒ WATER  
 ELEVATION 4144 NORTH 0 EAST 26 LOGGED BY E. CORNISH DATE 10-12-50  
 SECTION 6 TOWNSHIP 7 RANGE 2 T.D. 210 P.D. 199

GEOPHYSICAL LOG		DEPTH	P	C	A	STRIP	LITHOLOGY LOG
							0-10' GRAVEL - FEA SIZED - WELL ROUNDED - QUARTZITE -
							CHERT
		20					10-35 CLAYSTONE - GRAYISH ORANGE 10YR 7M
		40					
		60					25' KIFF-GRAY CONTACT
		80					27-210 CLAYSTONE - GREENISH GRAY 5Y 6/1
		100					SMALL STRINGERS OF CARB FROM 95-160'
		120					THE ZONE IS SLIGHTLY SANDY FROM
		140					100-210'
		160					
		180					
		200					---P.D.
		220					
		240					
		260					
		280					
		300					
		320					
		340					
		360					
		380					
		400					
		420					
		440					
		460					
		480					
		500					

SX-1219

R.V. 1000



GEOPHYSICAL LOG

DEPTH	P	C	A
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SHIP  
LOG

## LITHOLOGY LOG

5X-1235

1998

0-17 GRADE - 24495 - WELL, 40' VOID - QUANTIFIED  
CHERT

2- SANDSTONE- MODERATE YELLOWISH BROWN  
54- VERY FINE GRAINED WELL SORTED

QUARTZ - WITH SLIMEY MATRIX - LIMONITE  
STAINING THROUGHOUT

75120 SLTSTONE - MODERATE YELLOWISH BROWN GRAY  
VELY SANDY THROUGHOUT

100 500-500-111-05

CHARTERED - MEDIUM SEFY IN-2

-P.S.

50

150

143

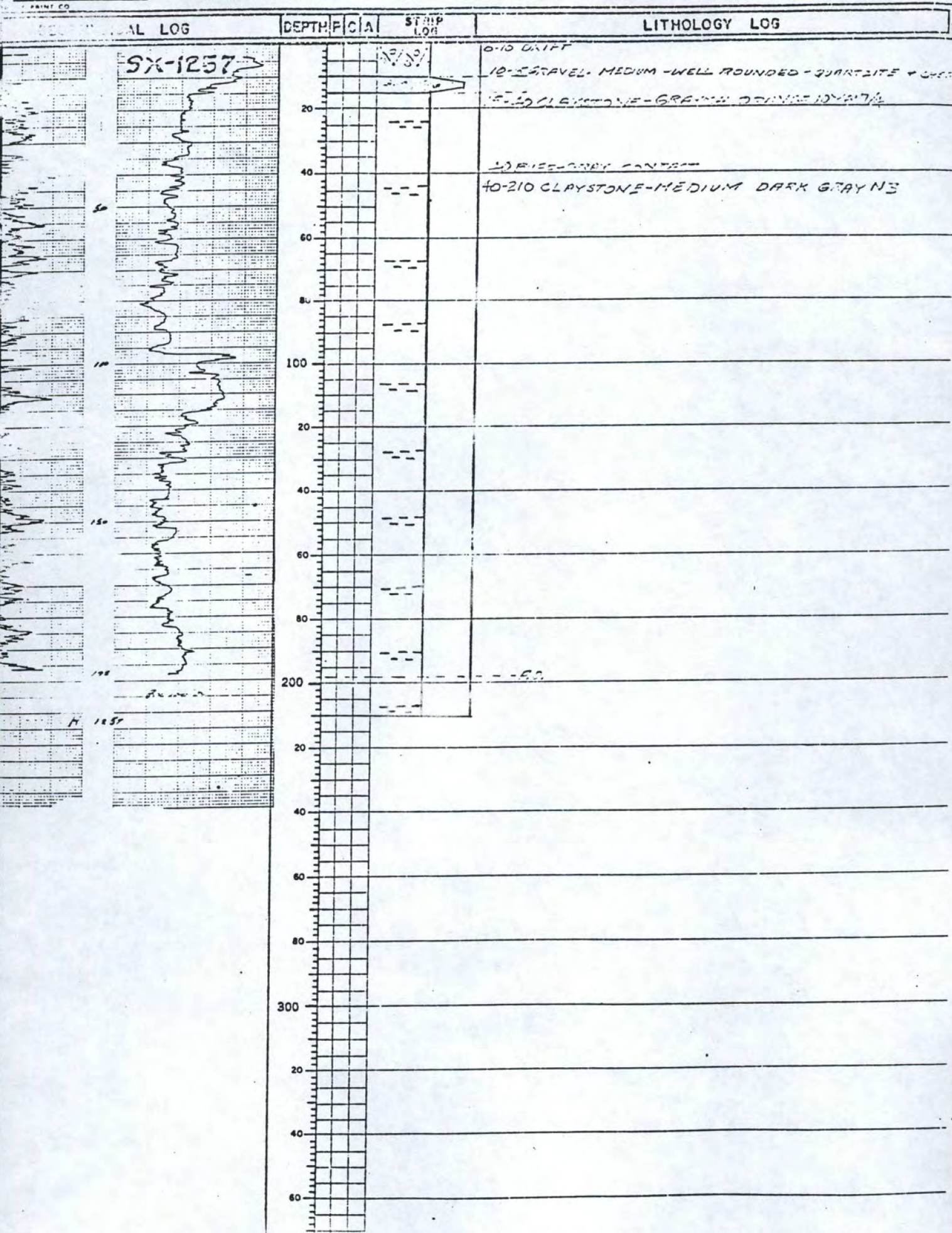
 $R \times 100\%$



GEOPHYSICAL LOG		DEPTH		P	C	A	STRIP LOG	LITHOLOGY LOG
SX-1236								0-20 SANDSTONE - GREENISH GRAY TO BROWN - QUARTZITE + CHERT
								20-50 CLAYSTONE - BROWN YELLOWISH GREEN TO BROWN
								50-65 CLAYSTONE - GREENISH GRAY TO BROWN
								65-80 SANDSTONE - GREENISH GRAY 50Y 6/1 FINE GRAINED - WELL ROUNDED - QUARTZ WITH CLAYEY MATRIX
								80-120 CLAYSTONE - GREENISH GRAY 50Y 6/1



ION 4137 NORTH 0 EAST 0 LOGGED BY E. CORNISH DATE 10-19-30  
7 TOWNSHIP 7 RANGE 2 T.D. 210 P.D. 192





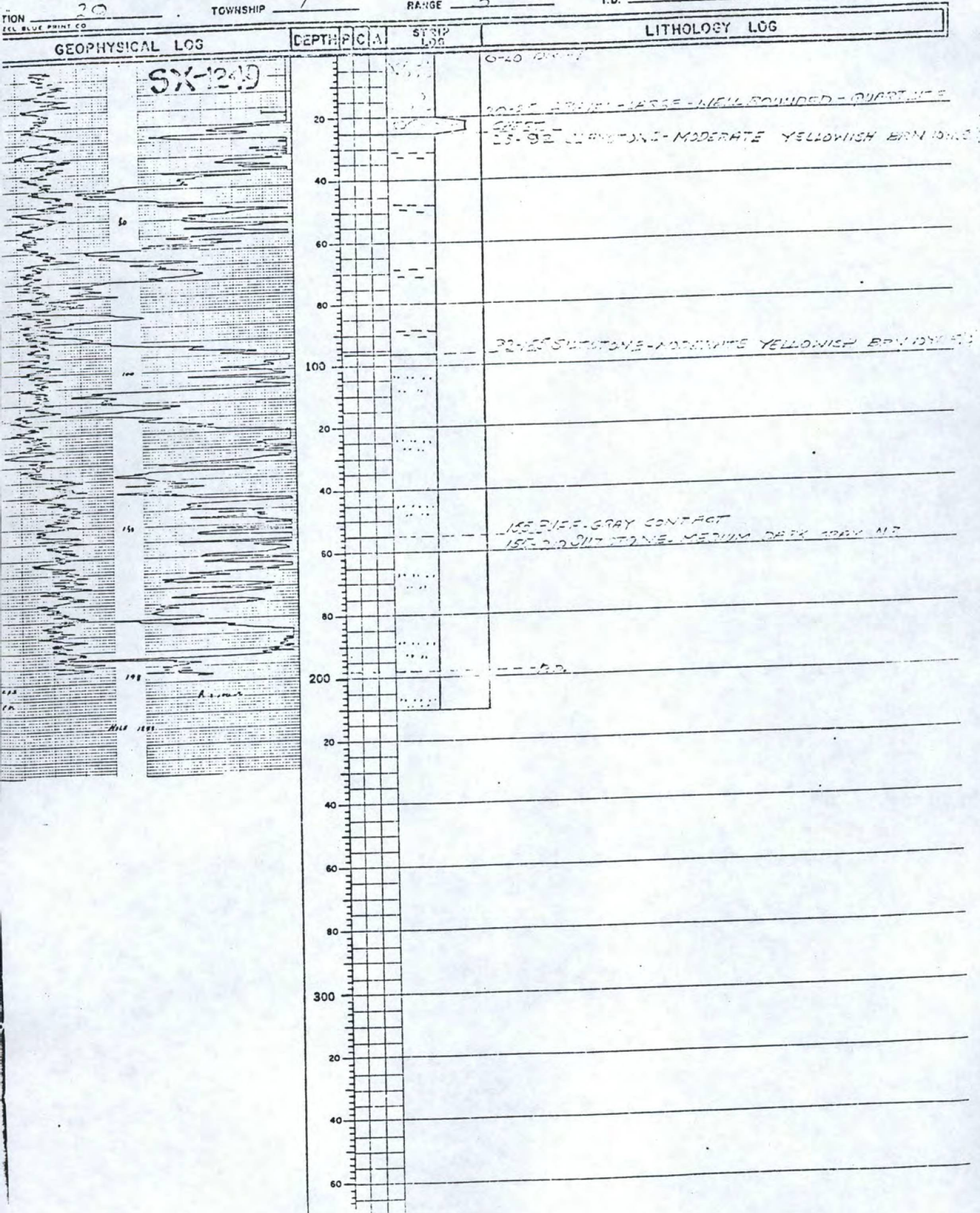
TOWNSHIP - 7

RANGE - 3

WEST OF 4th MERIDIAN

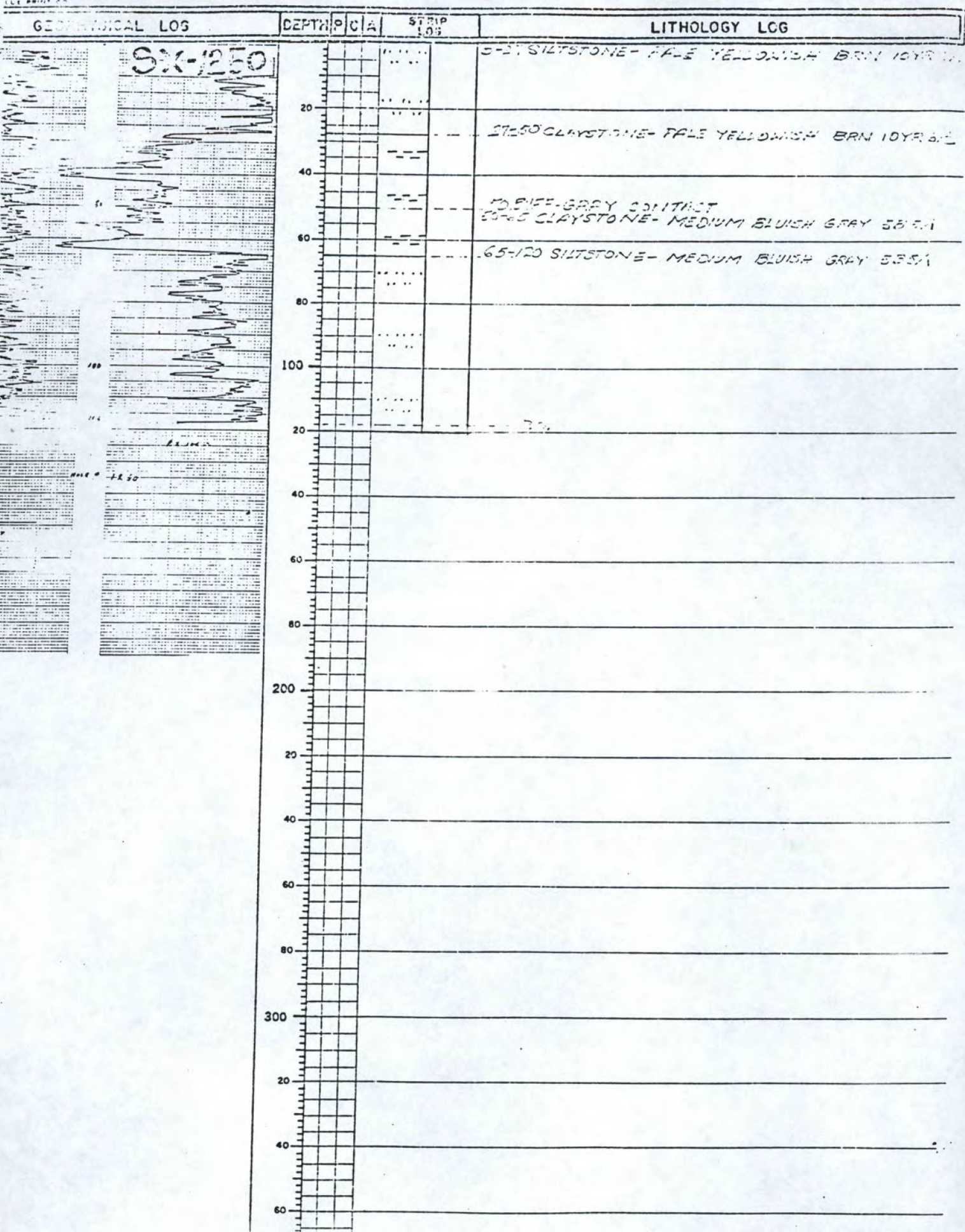


PROJECT SAND BLAST HOLE NO. 10-17-69  
 VATION 3833 NORTH 41 EAST 0 LOGGED BY E. CORNELL DATE 10-17-69  
 TION 20 TOWNSHIP 7 RANGE 3 T.D. 210 P.D. 193  
 ECL BLUE PRINT CO.



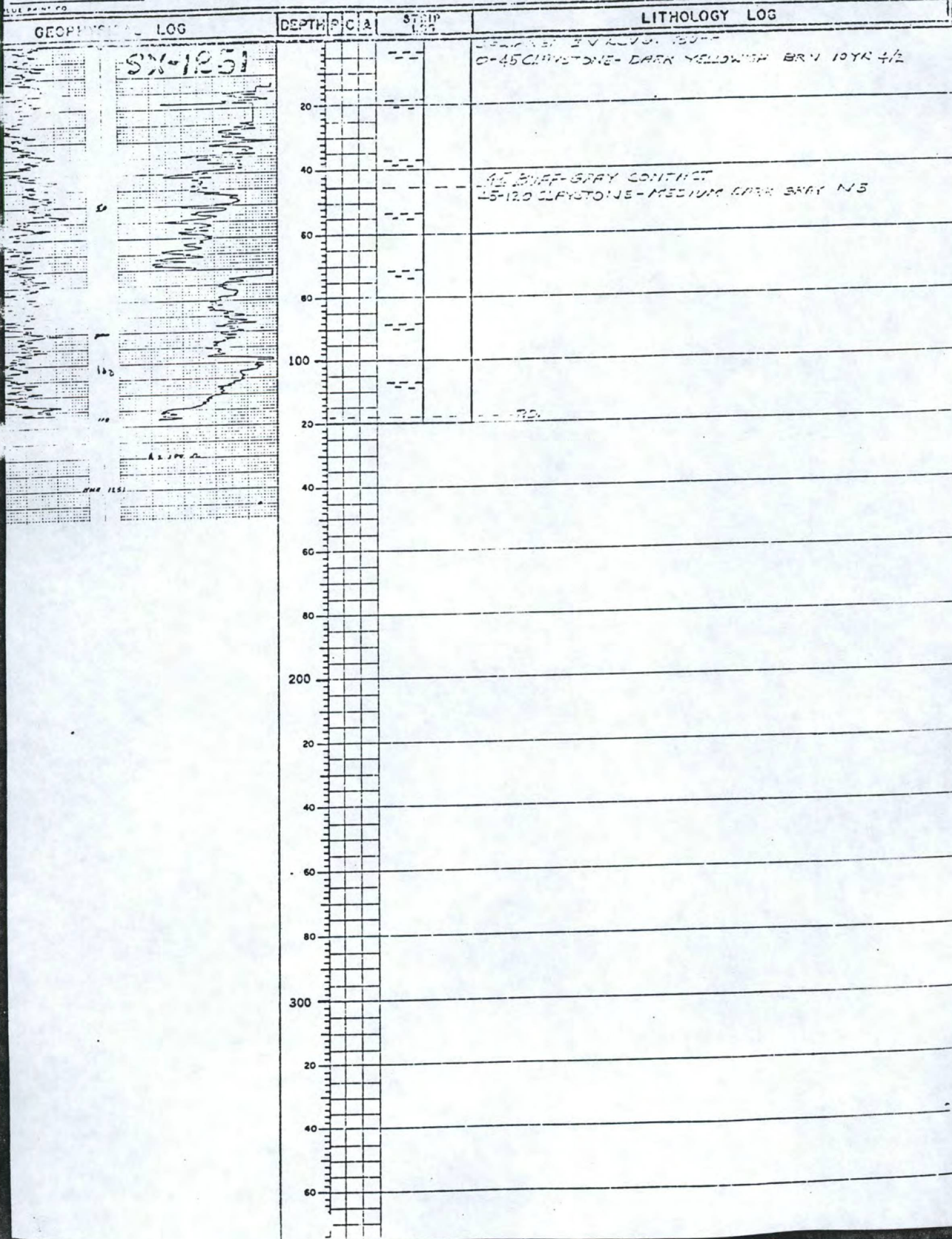


HOLE NO. SX-1250  
ON 3571 NORTH 23 EAST 0 LOGGED BY E. CORNIE DATE 12-7-19  
21 TOWNSHIP 7 RANGE 3 T.D. 120 P.D. 110





ON 3520 NORTH 35 EAST 0 LOGGED BY EXETER DATE 10/1/51  
9 TOWNSHIP 7 RANGE 3 T.D. 120 P.D. 112





CANCELLED

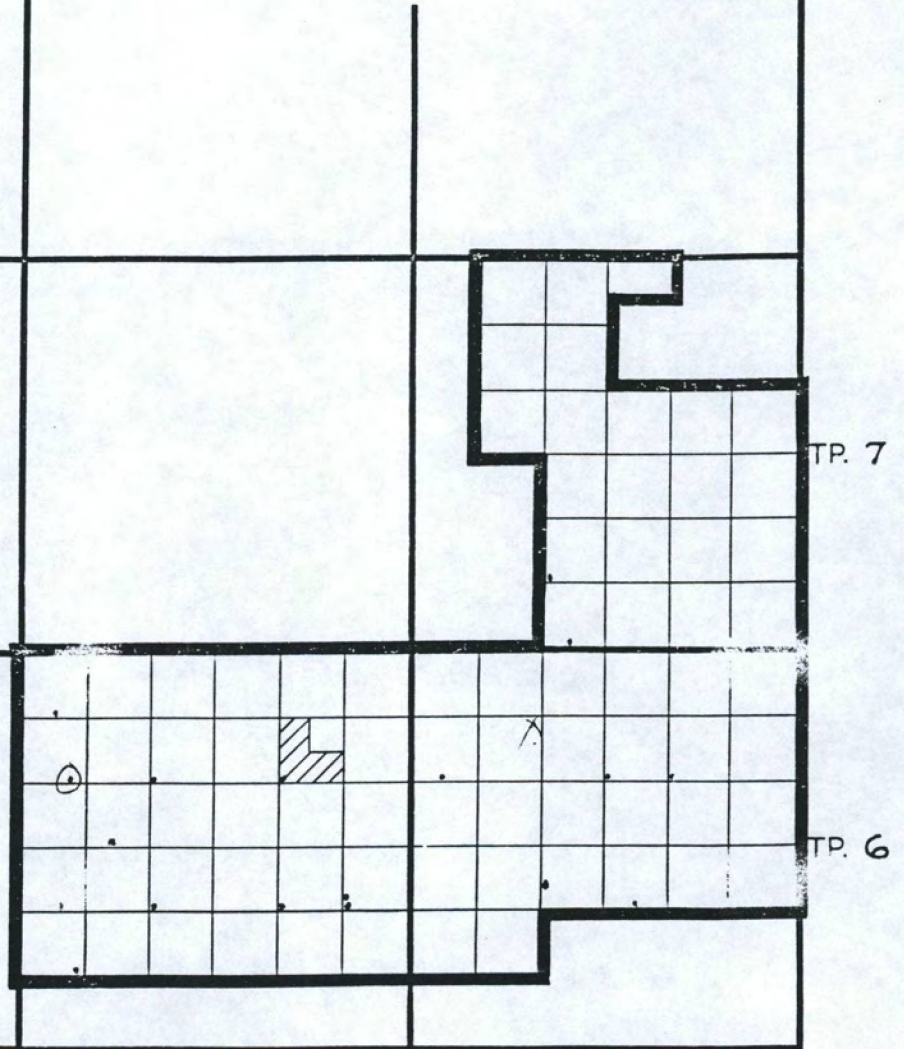
SCOTEIRE EXPLORATIONS LTD.,  
540-GUINNESS HOUSE,  
CALGARY, ALBERTA

DATE OF ISSUE - OCTOBER 27, 1967

AREA - 49,120 ACRES

//// - NOT IN PERMIT

NO LEASES SELECTED



R. 2

R. 1 W. 4 M.



90006

# QUARTZ MINERAL EXPLORATION PERMIT No. 28

CANCELLED

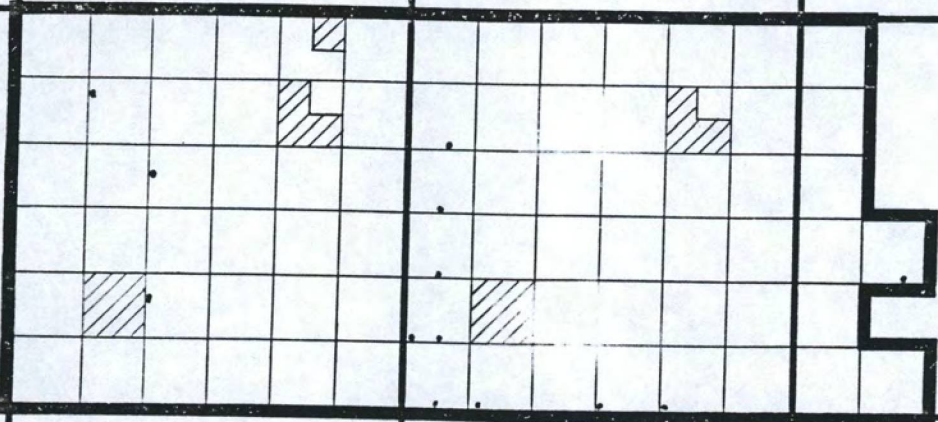
SCOTEIRE EXPLORATIONS LTD.,  
540-GUINNESS HOUSE,  
CALGARY, ALBERTA

DATE OF ISSUE - OCTOBER 27, 1967

AREA - 48,800 ACRES

////-NOT IN PERMIT

NO LEASES SELECTED



TP. 7

TP. 6

R. 3

R. 2

R. 1 W. 4 M.