MAR 19680104: BEAR RIVER

Received date: Dec 31, 1968

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ECONOMIC MINERALS

FILE REPORT No.

\$-AE-115 (2)

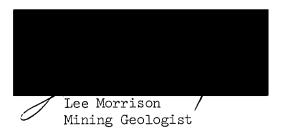
RE: Bear River Sulphur Project - Permits 115 and 159

Three hundred and forty four samples from depths of less than 20 feet in seismic shot holes on Sulphur Permits 115 and 159 were assayed for elemental sulphur by a solvent extraction method. Twenty-five of these samples indicate geochemically anomalous sulphur values in the 2% range. However, a recheck of these higher values by a more expensive but more precise analysis for total sulphur (bromine extraction method) indicated that the anomalous values were due to the extraction of organic material together with the elemental sulphur.

Total sulphur assays for the rechecked samples ranged from 0.02% to 1.36% with a mean value of 0.4%. This is within the normal expected range for the Fort Vermillion area. The mean value of 1.2% elemental sulphur plus unidentified soluble organic material is also typical of results obtained from sampling programs elsewhere in the area.

No further soil sampling is recommended on these permits.

Plans of drill hole locations and tables of assays are attached.



cc: Z. D. Grissom

J. B. Etnyre

C. E. Biederman (2)

To:	SINCLAIR CAMADA OIL CO.	
	490 Eentall Bldg.	
	Calgary, Alberta	



File No	1467			
Date Oct	ober 22, 1	968		
Samples	grab		*	

Servificate ASSAY of

LORING LABORATORIES LTD.

MAILING ADDRESS - - - - 2506 EXSHAW RD., N.W., CALGARY LAB. LOCATION - - - - 629 BEAVERDAM RD., N.E., CALGARY PHONE 277-6797

	Elemental Elemental	
SAMPLE No.	%S	
C1-23 2'	1.85	
C1-23 17'	1.26	
21-41 201	2.00	
01-59 21	$\tilde{0.92}$	
71 – 59 10't	1.1/.	
2-85 71	(1.62	
2-85 171	1.17	
2-85 271	0.39	
2-173 21	0.63	
2-173 301	1.08	
2-185 21	2.01	
2-185 27!	1.03	
2-200 71	0.81	
2-200 17'	0.63	
2-200 271	0.28	
2-233 21	1.30	
2-233 301	0.69	
2-24.3 71	0.76	
2-241 17'	0.64	
2-241 271	1.11	
2-255 21	0.96	
2-255 101	2.00	
3-299 21	0.39	
3-299 71	0.34	
3-299 171	0.73	
3-360 21	0.48	
3-360 301	0.57	
3-364 71	1.90	
3-364 271	0.82	
	I Hereby Certify that the above results are those	,

CHEMICAL & GEOLGICAL LABORATORIES LTD.



SINCLAIR CANADA OIL COMPANY

REPORT NUMBER: C68-3560

Kind of Sample: Soils

DATE RECEIVED April 22, 1968 DATE REPORTED May 8, 1968

Kind of Sample: Soils		DATE RE	CIVED APILL LL, LOC	<i>D</i> /11.0		
C AN SINT IZ	DEPTH	ELEMENTAL SULFUR	SAMPLE	DEPTH	ELEMENTAL SULFUR	
SAMPLE NUMBER	IN FEET	(% by weight)	NUMBER	IN FEET .	(% by weight)	
KUPEEK	IN IBBX					
C1- 1	10-20	0.78	C1-36	7-17	1.72	
C1- 2	n e	1.05	C1-37	"	1.88	
C1- 3		1.10	C1-38		0.96	
C1- 4	7-17	0.81	C1-39		1.55	
C1- 5		2011年1.14年1日 1911年1911年1911年1911年1911年1911年1911年1	C1-40		1.75	
C1-6	in a second	0.98	C1-41		2.42	
C1- 7	u u	1.15	C1-42		0.64	
C1- 8	The House of the	0.95	C1-43	"	Trace	
C1- 9	10-20	0.87	C1-44	10-20	1.70	
C1-10		1.26	C1-45\		1.71	
C1-11	图图以《节题记》	等位的 0.76 风流 音频系统	C1-46	7-17	0.79	
C1-12		O.99	C1-47	10-20	1.66	
C1-13		[0.61] · [1.6] ·	C1-48	7-17	1.09	
C1-14		6.0.99 (1.1.1)	C1-49		Trace	
C1-15			C1-50		0.73	
C1-16	u gj	(1.03) (1.03) (1.03) (1.03) (1.03) (1.03) (1.03) (1.03) (1.03) (1.03)	C1-51		1.54	
C1-17	7-17	[1.91] [[清][[清][[清][[清][[清][[]][[]][[]][[]][[61-52 张台		1.33	
C1-18	10-20	4.75 (1.75)	C1-53	10-20	0.70	
C1-19	的文字 W 的复数	另一位。1.35 中间,1000年	C1-54	7-17	2.11	
C1-20	7-17	1,76	C1-55	10-20	2.27	
C1-21	10-20	1.49 经经验证券	C1-56	7-17	1.66	
C1-22	7-27	1.60	C1-57		1.51	
C1-23	7-17	2.21	C1-58		72 1. 1. 1. 97 18 18 18 18 18 18 18 18 18 18 18 18 18	
C1-24	10-20	1.75	C1-59	10-20	2.34	
C1-25	u	2.06	C1-60		1.13	
C1-26	7-17	1.64	C2-61	7-17	1.07	
C1-27	10-20	0.78	C2-62		1.47	
C1-28	7-17	0.96	C2-63		0.86	
C1-29		1.84	C2-64		1.85	
C1-30		D. H. 1.57 沙马克斯茨	C2-65		2.54	
C1-31		1.79	C2-66		2.37 0.82	
C1-33		1.98	C2-67		1.18	
C1-34		1.47	C2-68	けいりょう しょちがく	1.18	
C1-35	of the second second	1.49	C2-69	图 1865 U. 7 200 V		nued
			C2-70	17	Cont.	

CHEMICAL & GEOCAL LABORATORIES LTD.



OPERATOR:

SINCLAIR CANADA OIL COMPANY

REPORT NUMBER: C68-3560

Kind of Sample: Soils DATE RECEIVED April 22, 1968

DATE REPORTED May 8, 1968

		TO THE COLUMN AT LOUIS BUILD	J SAMPLE	DEPTH	ELEMENTAL SULFUR
SAMPLE	DEPTH	ELEMENTAL SULFUR	NUMBER	IN FEET	(% by weight)
NUMBER	IN FEET	_(% by weight)			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7-17	2,50	C2-105	7-17	
C2- 71	/=1/ H	1.20	C2-106		0.99
C2- 72		1.51	C2-107		1.20
C2- 73		2.14	C2-108	n (hall)	0.87
C2- 74	to the second of the second	1.53	C2-109	n in the second	1.06
C2- 75	10-20	1.65	C2-110	i i	为数据设置 1.18 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
C2- 76			C2-111	in Agr	1.15
C2- 77	7-17	2.31 1.19	C2-112	11	1 0.72 · · · · · · · · · · · · · · · · · · ·
C2- 78			C2-113	10-20	0.45
C2- 79	10-20	0.63 0.77	C2-114		0.92
C2- 80	7-17	1.27	C2-115	n de la	0.34
C2- 81	Note that the state of the sta	一直,大学,1964年1964年,1967年			0.40
C2- 82	10-20	0.58 1.40	, C2-116	7-17	プレース 500 とうりょう しない アンドラ アンドラ はいだい アンディング アンドラ はいけん はんけんこうがんしょ すかりょう
C2- 83	推出[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	to the control of the	C2-117	10-20	0.29
C2- 84	H	1.22	C2-118	7-17	0.67
C2- 85	7-17.	2.72	C2-119	10-20	0.41
C2- 86		1.61	C2-120	7-17	1.02
C2- 87	10-20	1.23	C2-121	H.	0.58
C2- 88	10-20	1.63	C2-122	10-20	0.83
C2- 89	7-17	1.91	C2-123	7-17	0.57
C2- 90	iii	1.44	C2-124		1.33
C2- 91	10-20	2.97	C2-125	10-20	0.73
C2- 92		2.02	C2-126	. 7-17	0.85
C2- 93	7-17	1.54	C2-127		1.07
C2- 94	"	1.03	C2-128	H A	1.90
C2- 95	H	0.99	C2-129	10-20	1.07
C2- 96	10-20	0.57	C2-130	7-17	1.22
C2- 97	H _	0.96	*C2-131		
C2- 98	7-17	1.10	C2-132	10-20	2.69
C2- 99 🔆		1.63	C2-133	7-17	1.03
C 2-100		1.70	C2-134	10-20	2.00
C2-101'		1.33	C2-135	7-17	
C2-102		1.15	C2-136	.10-20	0.79
C2-103		0.72	C2-137	7-17	10.97 July 10.97
C2-104		[1.62] [1	C2-138	10-20	1.75 continued
			在1995年1月1日日本6月2		



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SINCLAIR CANADA OIL COMPANY

REPORT NUMBER: C68-3560

Kind of Sample: Soils

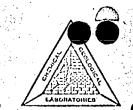
DATE RECEIVED April 22, 1968

DATE REPORTED May 8, 1968

	nanaur	ELEMENTAL SULFUR	SAMPLE	DEPTH	ELEMENTAL SULFUR
SAMPLE	DEPTH	(% by weight)	NUMBER	IN FEET	(% by weight)
NUMBER	IN FEET	_ (% by weight)			2.66
C2-139	10-20	2.20	C2-181	10-20	2.14
C2-140	u Prince	1.26	C2-183	7-17	1.99
C2-141	n e	1.96	C2-184		2.48
C2-142	7-17	1.17	C2-185		
C2-148	. n. 👌 : S	1.49 《英经济等等。	C2-187		1.93
C2-149	u e	0.67	C2-188	10-20	2.16
C2-150	n Hally	0.67	C2-189	7-17	0.51
C2-151	1	1.18	C2-190	点。 第二章	. 1.35
C2-152	10-20	1.04	C2-192		1.11
C2-152	7-17	1.92	C2-193		1.09
C2-154	n T	1.08	C2-194		0.96
C2-155		1.37	C2-195	10-20	0.97
C2-156	10-20	1.34	, C2-196		0.87
C2-150	7-17	0.67	C2-197		学 [1.26] [1.26]
	10-20	0.99	C2-198		0.36
C2-158	10-20	1.29	C2-199	7-17	1.18
C2-159		1.32	C2-200	14 14 14 Sept.	2.47
C2-160	7-17	1.05	C2-201		1.62
C2-161		0.43	C2-202		1.93
C2-162	10-20	1.13	C2-203	u v	1.95
C2-163	7-17		C2-204	The state of the s	1.93
C2-164		1.80	C2-205	10-20	1.36
C2-165		1.33	C2-206	7-17	1.68
C.2-166		0.63	C2-207	\$300 m = 1440	0.82
C2-167		1.33	C2-208		1.09
C2-168	10-20	2.38	C2-209		1.26
C2-169	7-17	0.94	C2-210		1.67 全域的
C2-170	10-20	1.11	C2-211	1	1.18
C2-171		1.09	C2-212		1.49
C2-172	7-17	1.89	C2-213	7	1.38
C2-173	10-20	3.16	C2-214	7	Trace
C2-174	7-17	7.0.86	C2-215	7-17	Trace
C2-176	11	1.18	C2-215		Trace
C2-177	10-20	1.69	,能够是一种"我们","事实特殊"。 "我们","我们","我们","我们","我们","我们","我们","我们",		Trace
C2-178	7-17	0.79	C2-217		conti



CHEMICAL & GEOCAL LABORATORIES LTD.

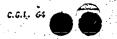


OPERATOR: SINCLAIR CANADA OIL COMPANY

REPORT NUMBER: C68-3560

Kind of Sample: Soils DATE RECEIVED April 22, 1968 DATE REPORTED May 8, 1968

SAMPLE	DEPTH	ELEMENTAL SULFUR	SAMPLE	DEPTH	ELEMENTAL SULFUR
NUMBER	IN FEET	(% by weight)	NUMBER	IN FEET	(% by weight)
C2-218	7-17	Trace	C2-255	10-17	2.64
C2-219	10	0.20	C2-256	7-17	2.04
C2-220 >		Trace	C2-257		1.42
C2-221	n e	Trace	C2-258	10-20	1.42
C2-222	and the	Trace	C2-259	7-17	0.49
C2-223		Trace	C2-260	17	1.29
C2-224		Trace	C2-261	7-17	0.60
C2-225	11	0.12	C2-262		2.04
C2-226		Trace	C2-263	11	1.73
C2-227	n A	Trace	C2-264		1.85
C2-228	n ·	2.18	C2-265		2.38
C2-229	in the	2.89	C2-266		1.45
C2-230	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.00	· C2-274	7	2.41
C2-231	10-20	2.52	C2-275	10-20	1.77
C2-232		1.80	C2-276	7-17	1.77
C2-233		-2.92	C2-277	11	2,55
C2-234		2.14	C3-353		2,49
C2-235		0.57	C3-355		Trace
C2-236	F. J	1.89	C3-356		Trace
C 2-237	7-17	1.72	C3-357	A STATE OF THE STA	Trace
C2-238		1.78	C3-358	10-20	Trace
C2-239	10-20	1.18	表现的100 C3-359 E. 研究		1.79
C2-240	7-17	1.74	C3-360		2.94
C2-241	u i	2.53	C3-364	7-17	2.62
C2-242	10-20	0.50	C3-365		0.66
C2-243	7-17	O.73	C3-366		1.08
C2-244		1.02	C3-368		0.46
C 2-245/		0.47	C3-369		2.23
C2-246	7-17	요시하는 1.55 점인 (1.55로)	C3-367		1.09
C2-248		0.96	C3-370		1.50
C2-249	10-20	0.83	C3-371		1.39
C2-250	17	0. 98	C3-372		1.88
C2-253	7-17	1.48	C3-373		1.56
C2-254	マップ・フ ン語	1.93	C3-374		1,35
	rang akadi sa dinking				cont



CHEMICAL & GEORGICAL LABORATORIES LID.

OPERATOR:

SINCLAIR CANADA OIL COMPANY

REPORT NUMBER: C68-3560

Kind of Sample: Soils

DATE RECEIVED April 22, 1968 DATE REPORTED May 8, 1968

SAMPLE	DEPTH	ELEMENTAL SULFUR	SAMPLE	DEPTH	ELEMENTAL SULFUR	
NUMBER	IN FEET	(% by weight)	NUMBER	IN FEET	_(% by weight)_	3/15/2
and the second second		0.52	C3-311	10-20	1.54	
C3-375	7-17	1.62	C3-312		[[] [[] [] [] [] [] [] [] [] [] [] [] []	
C3-361	10-20	1.76	C3-313	11	0.30	
C3-362		1.41	C3-314	7-17	0.97	
C3-363	eacht.	1.35	C3-315		0.38	
C3-388	7-17	0.99	C3-316		0.46	10,400
C3-389	10-20	1.69	C3-317		1.32	
C3-390	Mark LAND	0.44	C3-318	0	0.48	
C3-391	7-17	0.19	C3-319		1.65	
C3-392	i i	0.50	C3-320	i i	O.56	美国的
C3-393		0.99	C3-321	10-20	0.51	· · · · · · · · · · · · · · · · · · ·
C3-394		0.98	C3-322		0.40	
C3-395		0.26	· C3-323	u .	1.63	多数是
C3-396		0.45	C3-324		0.28	
C3-397		0.79	C3-325	Harris Harris	O.77	
C3-398	. 10-20 7-17	0.40	C3-326		0.69	
<u>C3-</u> 399	10-20	2.15	C3-327	7-17	1.00	
C3-292	. 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.47	C3-328	Maria de la Companya	1.11	
C3-293	7-17	1.60	C3-329	10-20	1.14	
C3-294		1.81	C3-330	7-17	1.78	
C3-295		0.96	C3-331		1.15	
C3-297		1.28	C3-332	10-20	1.38	
C3-298		3.04	C3-333	7-17	0.84	
C3-299	10-20	0.61	C3-334		0.88	
C3-300 - 20	10-20	1.35	C3-335	10-20	1.67	
C3-301		1.07	C3-336	7-17	0.80	
C3-302	7-17	0.37	C3-337	11	0.98	
C3-303	10-20	1.33	C3-338	10-20	Trace (Trace)	
C3-304	10-20	Trace	C3-339	7-17		
C3-306		0.88	C3-340		Trace	
C3-307		1.64	C3-341	10-20	Trace	
5 Sec. 20		1.52	C3-342	7-17	Trace	
C3-308	7-17	The Confidence of the Confiden	C3-343		Trace	科学 路径
C3-309	10-20		C3-344	10-20	Trace	
C3-310		0.26			continued	• • • • •

C.G.L. Ct.

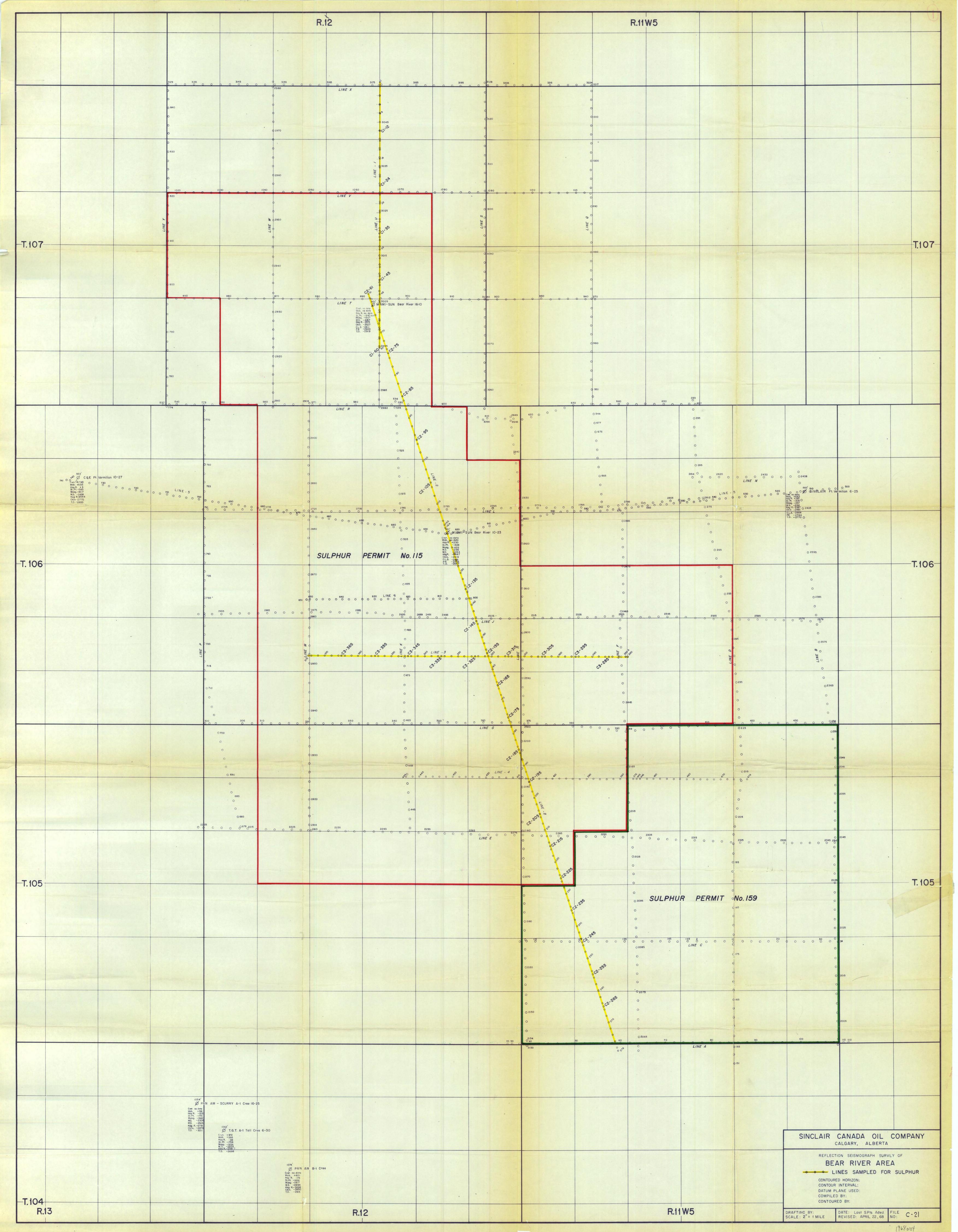
Chemical & G. Gical Laboratories Ltd.

OPERAYOR: SINCLAIR CANADA OIL COMPANY REPORT NUMBER: C68-3560

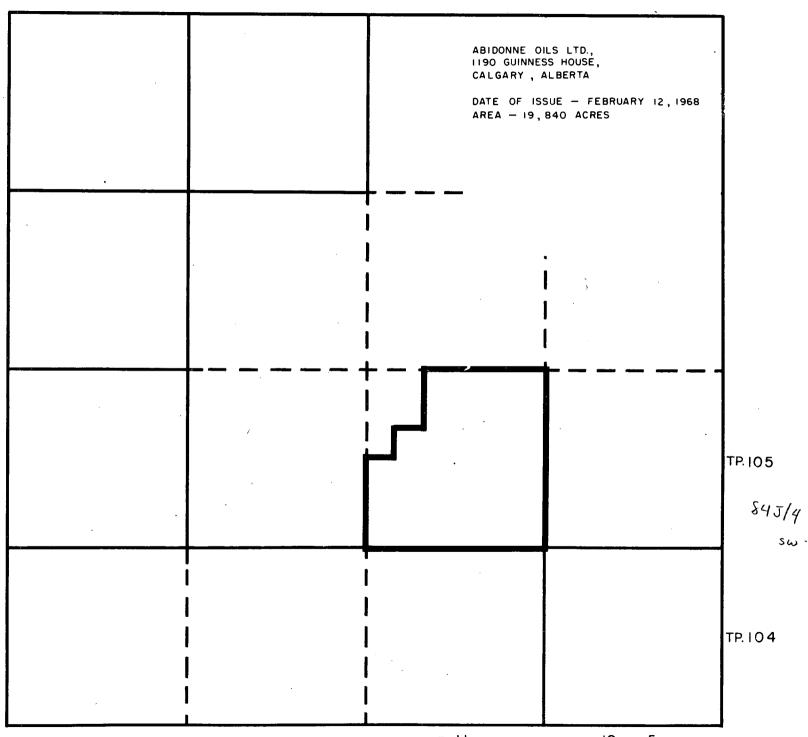
Kind of Sample: Soils

DATE RECEIVED April 22, 1968 DATE REPORTED May 8, 1968

	SAMPLE		EMENTAL SULFU	R	SAMPLE	DEPTH	ELEMENTAL SULFUR
	NUMBER	IN FEET (% by weight)		NUMBER	IN FEET	(% by weight)
÷	C3-345	7-17	Trace				
•	C3-346		Trace				
	C3-347	10-20	Trace				
•	C3-348	7-17	Trace				



SULPHUR PROSPECTING PERMIT No. 159



R. 11

R.10 W.5 M.