

MAR 19680059: LITTLE RAPIDS CREEK

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SHELL CANADA LIMITED
REPORT ON
SULPHUR PROSPECTING PERMIT NO. 60
LITTLE RAPIDS CREEK AREA, ALBERTA

ECONOMIC MINERALS

FILE REPORT No.

S-AF-060(1)

In accordance with the terms of the Agreement dated December 14, 1967 we submit the following report on the exploratory examination carried out during the 1967-68 winter season on the subject permit.

LOCATION:

Sulphur Prospecting Permit No. 60, containing 97,280 acres is located in Northern Alberta, Townships 114 to 116, Ranges 16 to 18 West 5th Meridian.

FIELD OPERATIONS:

Seismic field party 4 of Shell Canada Limited carried out the drilling of 2610 seismic shot holes over the permit area during February and March, 1968. The holes which are spaced 400 feet apart, were drilled to a depth of 40 feet by truck mounted 3-1/2 inch auger drills.

The drillers were instructed to look for signs of sulphur and collect samples of the drill cuttings for lab analysis. Samples of superficial material containing varying percentages of sulphur were supplied to the drillers to aid in visual examination of the drill cuttings. Enclosure No. 1 shows the auger hole locations examined for sulphur during the drilling program and a bar beside the location indicates the holes at which samples were collected.

ANALYSIS OF SAMPLES:

All samples collected were tested for sulphur by heating and burning of the sampled material. The samples which gave off a sulphurous odor from this test were then submitted to a detailed analysis by the hot Toulene extraction method. The results of samples analyzed by the Toulene method are covered in Appendix 1 to this report.

ORIGINAL SIGNATURE
O. L. SLIND

O.L. Slind
District Geologist
Northern Plains District
Southern Division Exploration

November 1968

SULPHUR ANALYSIS BY HOT TOLUENE EXTRACTION
OF SEISMIC SHOT HOLE SAMPLES
LITTLE RAPIDS CREEK AREA
SULPHUR PERMIT 60

N.B. % water based on initial weight of sample
% sulphur based on dry weight of sample

Pty-Line-Hole No.

<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
4-1463-401	40	3	-
403	40	3	-
405	40	5	-
407	40	2	-
409	40	3	-
411	40	3	-
413	40	3	-
415	40	3	-
417	40	5	-
419	40	3	-
421	40	2	-
425	10	3	-
425	40	2	-
427	40	2	-
429	10	3	-
433	40	3	-
439	10	7	-
447	10	3	-
449	40	2	-
453	40	7	-
455	40	4	-
457	40	3	-
459	40	4	-
461	10-40	2	-
463	0-10	2	-
470	0-10	3	-
472	40	2	-
473	0-10	3	-
473	10-40	3	-
475	0-10	2	-
476	40	3	-
478	40	4	-
483	40	2	-
485	40	4	-
487	40	3	-
493	40	3	-
495	40	2	-
499	40	3	-
501	40	3	-
503	40	5	-
505	40	5	-
507	40	5	-
509	40	4	-
511	40	3	-
513	40	3	-
515	40	4	-
517	40	12	-
519	40	3	-
521	40	4	-

<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
4-1463-523	10	5	-
523	40	5	-
525	40	3	-
527	40	3	-
529	40	4	-
531	40	3	-
533	40	7	-
535	40	16	-
537	40	2	-
539	0-10	9	-
539	40	3	-
541	0-10	3	-
543	10-40	3	-
543	0-10	3	-
545	10-40	2	-
551	0-10	2	-
553	0-10	3	-
553	10-40	3	-
555	0-10	2	-
557	40	2	-
559	10-40	2	-
561	0-10	3	-
563	0-10	3	-
563	10-40	2	-
565	10-40	2	-
567	10-40	2	-
569	10-40	2	-
573	0-10	4	-
581	10-40	2	-
583	10-40	2	-
587	0-10	4	-
632	10-40	3	-
726	0-10	2	-
728	10-40	2	-
732	0-10	2	-
734	0-10	1	-
736	10-40	2	-
738	10-40	2	-
740	0-10	3	-
740	10-40	2	-
744	0-10	3	-
744	10-40	2	-
746	0-10	2	-
746	10-40	2	-
752	40	3	-
754	40	3	-
756	40	6	-
758	40	4	-
760	40	2	-
762	40	7	-
764	40	Not sufficient	-
766	40	9	-
768	40	5	-
780	40	4	-
782	40	4	-

<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
4-1463-784	40	4	-
786	40	5	-
788	40	3	-
790	40	4	-
792	40	2	-
794	40	3	-
796	40	3	-
802	40	3	-
804	40	3	-
4-1466-270	40	4	-
274	40	4	-
276	40	4	-
278	40	4	-
280	40	4	-
282	40	6	-
284	40	5	-
286	40	4	-
292	40	3	-
294	40	4	-
296	40	4	-
298	40	7	-
300	40	6	-
302	40	3	-
304	40	4	-
306	40	4	-
308	40	6	-
310	10	8	-
310	40	5	-
312	40	3	-
314	40	4	-
316	40	3	-
318	40	4	-
320	40	3	-
322	40	8	-
324	40	7	-
326	40	6	-
328	40	4	-
330	40	6	-
332	0-10	3	-
336	10-40	3	-
340	0-10	2	-
346	0-10	2	-
346	10-40	3	-
348	10-40	2	-
350	0-10	3	-
350	10-40	3	-
352	10-40	3	-
354	10-40	2	-
356	10-40	2	-
358	10-45	3	-
360	10-45	3	-
362	10-45	2	-
366	10-45	2	-
368	0-10	4	-
370	10-40	3	-
372	10-40	4	-

<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
4-1466-374	0-10	4	-
374	10-40	3	-
380	0-10	4	-
380	10-45	3	-
384	0-10	4	-
384	10-45	3	-
386	10-45	3	-
388	10-45	3	-
390	0-10	3	-
392	0-10	2	-
392	10-45	2	-
394	10-45	2	-
396	10-45	2	-
398	10-45	2	-
4-1467-396	40	5	-
398	10	10	-
398	40	4	-
402	10	5	-
416	40	3	-
418	40	3	-
422	40	5	-
424	40	3	-
428	40	3	-
430	40	4	-
434	40	2	-
436	40	8	-
438	40	4	-
442	40	3	-
444	40	5	-
450	40	5	-
452	10	5	-
618	10-40	2	-
4-1469-400	10-45	2	-
402	0-10	2	-
402	10-45	2	-
404	0-10	2	-
404	10-45	2	-
406	10-45	2	-
408	10-45	3	-
410	40	3	-
412	10	4	-
412	40	4	-
414	10	6	-
414	40	4	-
416	40	3	-
418	40	2	-
420	40	2	-
422	40	2	-
423	40	2	-
426	40	3	-
428	40	3	-
430	40	4	-
432	40	3	-
434	40	3	-
436	10	3	-

<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
4-1469-438	40	8	-
442	40	7	-
446	10	7	-
446	40	7	-
448	40	5	-
448	40	7	-
450	10	5	-
450	40	4	-
452	40	5	-
452	40	4	-
454	40	4	-
456	40	4	-
456	40	4	-
458	40	4	-
460	40	3	-
462	40	5	-
464	40	3	-
466	40	Not sufficient	-
468	40	4	-
470	40	5	-
474	40	3	-
476	40	2	-
478	40	3	-
480	40	3	-
482	40	3	-
484	40	1	-
486	40	3	-
488	40	2	-
490	40	3	-
492	40	2	-
494	40	3	-
496	40	2	-
498	40	2	-
500	40	2	-
502	40	3	-
504	40	3	-
506	10	3	-
506	40	2	-
508	10	9	-
508	40	3	-
510	40	3	-
512	40	3	-
514	40	3	-
516	40	11	-
518	40	6	-
520	40	3	-
522	40	6	-
524	40	4	-
526	40	3	-
528	40	4	-
530	40	5	-
532	40	5	-
566	40	4	-
568	0-10	2	-
568	40	8	-

<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
4-1469-598	10-40	3	-
600	10-40	3	-
602	10-40	3	-
606	10-40	3	-
610	10-40	3	-
612	10-40	2	-
614	10-40	2	-
616	10-40	2	-
622	10-40	3	-
624	10-40	3	-
626	0-10	3	-
626	10-40	3	-
628	0-10	3	-
628	10-40	3	-
630	0-10	3	-
630	10-40	4	-
634	10-45	3	-
636	10-45	3	-
638	0-10	3	-
638	10-45	3	-
640	10-45	3	-
644	10-45	3	-
646	0-10	3	-
646	10-45	3	-
648	10-45	4	-
650	0-10	4	-
650	10-45	3	-
652	10-45	3	-
660	10-45	3	-
662	10-45	3	-
664	10-45	3	-
666	10-45	3	-
668	10-45	3	-
670	0-45	3	-
672	10-45	3	-
674	10-45	3	-
676	10-45	3	-
678	10-45	3	-
680	10-45	3	-
682	10-45	4	-
684	0-10	3	-
684	10-45	3	-
686	10-45	3	-
688	10-45	3	-
690	10-45	3	-
692	10-45	3	-
696	10-45	3	-
698	10-45	3	-
700	10-45	3	-
702	40	4	-
704	40	3	-
706	40	5	-
708	40	4	-
710	40	3	-
712	40	3	-

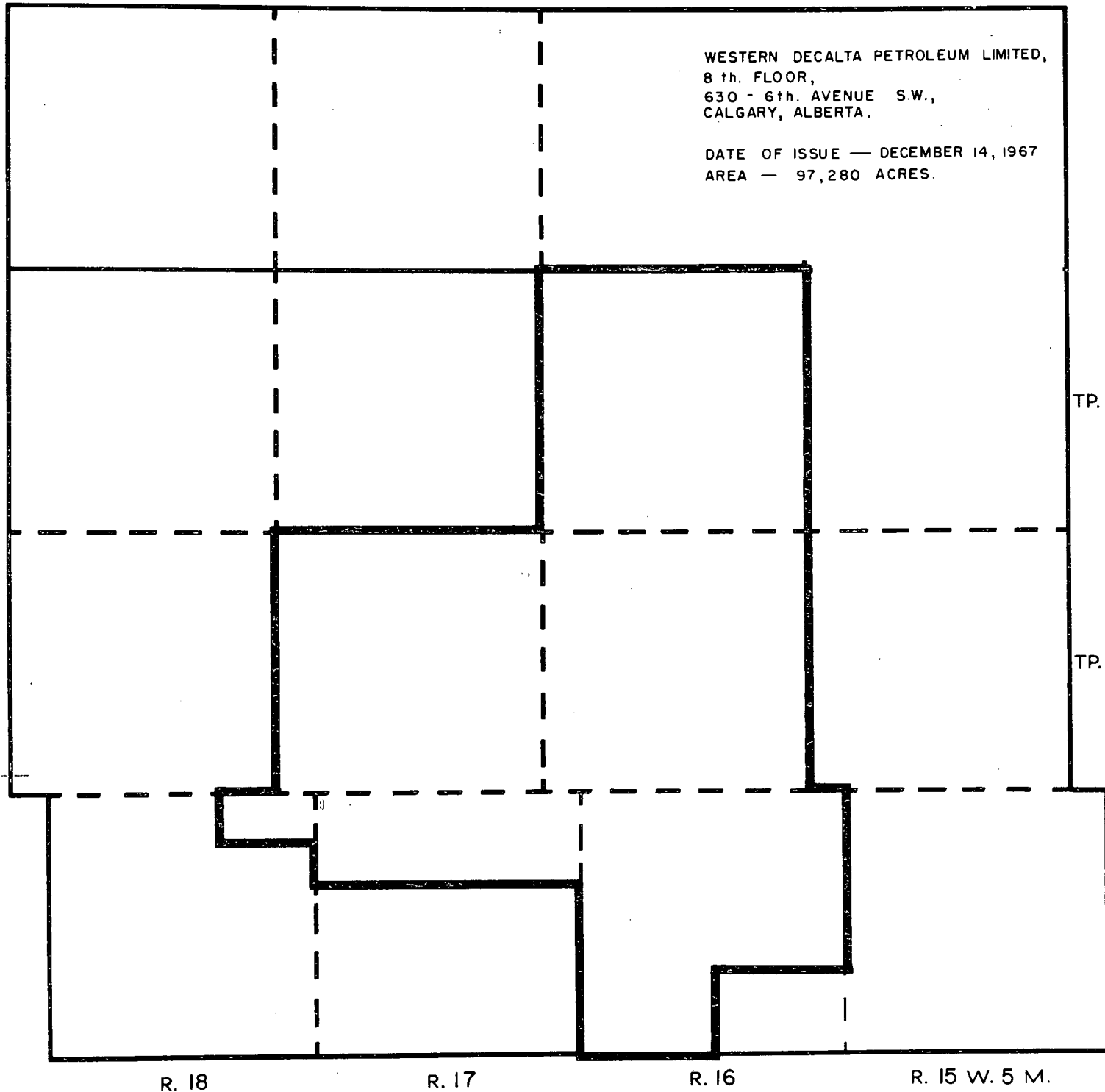
<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
4-1469-714	10	4	-
714	40	3	-
716	40	4	-
718	40	6	-
720	40	4	-
722	40	3	-
724	40	3	-
726	10-45	3	-
1470-402	40	3	-
408	40	4	-
410	40	4	-
412	40	2	-
414	40	3	-
418	40	2	-
420	40	7	-
422	40	7	-
424	40	4	-
426	40	10	-
428	40	5	-
430	40	4	-
432	10	10	-
432	40	4	-
434	40	5	-
435	40	3	-
436	40	5	-
440	40	4	-
442	0-10	2	-
442	10-45	14	-
444	10-45	3	-
446	10-45	3	-
448	10-45	3	-
450	10-45	3	-
452	10-45	4	-
454	10-45	3	-
456	0-10	3	-
456	10-45	4	-
462	10-45	3	-
464	10-45	3	-
466	10-45	2	-
468	10-45	2	-
470	10-45	3	-
472	10-45	3	-
474	10-45	3	-
476	0-10	3	-
478	0-10	3	-
482	10-40	3	-
484	10-40	3	-
486	0-10	3	-
490	10-40	3	-
492	10-40	2	-
494	10-40	2	-
500	10-40	2	-
504	0-10	3	-
506	0-10	3	-

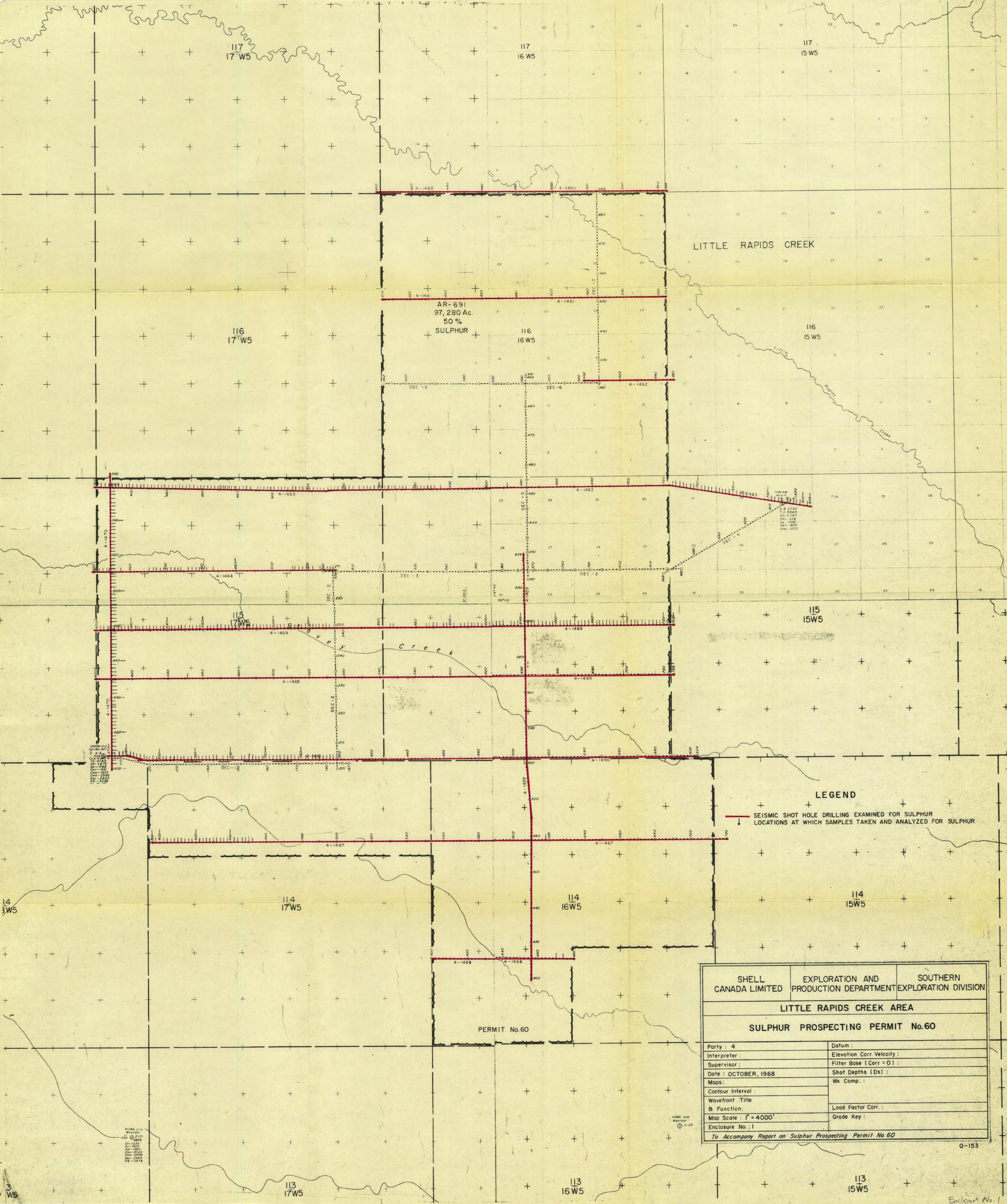
<u>Sample</u>	<u>Depth</u>	<u>% Water</u>	<u>% Sulphur</u>
1470-508	0-10	3	-
508	10-40	2	-
510	10-45	2	-
512	10-45	2	-
514	10-45	2	-
516	0-10	2	-
516	10-45	2	-
518	10-45	3	-
520	10-45	2	-
522	10-45	2	-
524	0-10	3	-
524	10-45	3	-
526	0-10	3	-
526	10-45	2	-
528	10-45	3	-
530	10-45	2	-
532	10-45	2	-
534	0-10	3	-
534	10-40	2	-
536	0-10	2	-
536	10-40	2	-
538	0-10	3	-
538	10-40	3	-
540	0-10	3	-
540	10-40	3	-
542	0-10	2	-
542	10-40	2	-
544	0-10	2	-
544	10-40	2	-
546	0-10	2	-
546	10-40	2	-
548	0-10	1	-
548	10-40	2	-
550	0-10	2	-
550	10-40	3	-
552	0-10	2	-
552	10-40	3	-
554	0-10	2	-
554	10-40	3	-
556	0-10	2	-

SULPHUR PROSPECTING PERMIT NO. 60

WESTERN DECALTA PETROLEUM LIMITED,
8th. FLOOR,
630 - 6th. AVENUE S.W.,
CALGARY, ALBERTA.

DATE OF ISSUE — DECEMBER 14, 1967
AREA — 97,280 ACRES.





AR-691
97,280 Ac.
50%
SULPHUR

LITTLE RAPIDS CREEK

116
17W5

116
16W5

116
15W5

115
17W5

115
15W5

114
17W5

114
16W5

114
15W5

PERMIT No. 60

LEGEND

- SEISMIC SHOT HOLE DRILLING EXAMINED FOR SULPHUR
- ↓ LOCATIONS AT WHICH SAMPLES TAKEN AND ANALYZED FOR SULPHUR

SHELL CANADA LIMITED		EXPLORATION AND PRODUCTION DEPARTMENT		SOUTHERN EXPLORATION DIVISION	
LITTLE RAPIDS CREEK AREA					
SULPHUR PROSPECTING PERMIT No. 60					
Party : 4			Datum :		
Interpreter :			Elevation Corr. Velocity :		
Supervisor :			Filter Base (Corr = 0) :		
Date : OCTOBER, 1968			Shot Depths (Ds) :		
Maps :			Wk Comp. :		
Contour Interval :			Load Factor Corr. :		
Wavefront Title			Grade Key :		
B Function :					
Map Scale : 1" = 4000'					
Enclosure No. : 1					
To Accompany Report on Sulphur Prospecting Permit No. 60					