

STELBAR OIL CORPORATION, INC.
310 PETROLEUM BUILDING
WICHITA 2, KANSAS

GEOLOGICAL REPORT
OF
STELBAR OIL CORPORATION, INC., ET AL
NO. 1 DOWNS
NW NE SECTION 20-30S-1E
SUMNER COUNTY, KANSAS

STELBAR OIL CORPORATION, INC.

310 PETROLEUM BUILDING

WICHITA 2, KANSAS

FEBRUARY 4, 1958

RE: GEOLOGICAL REPORT
STELBAR ET AL No. 1 DOWNS
NW NW NE SEC. 20-30S-1E,
SUMNER COUNTY, KANSAS

GENTLEMEN:

SAMPLES WERE EXAMINED FROM 2800 FEET TO 3828 FEET, THE ROTARY TOTAL DEPTH. DRILLING WAS SUPERVISED FROM 3405 FEET TO 3479 FEET, AND FROM 3780 FEET TO 3828 FEET. NO SAMPLES WERE OBTAINED ABOVE 2800 FEET; AND THE TOP OF THE KANSAS CITY WAS DETERMINED BY CORRELATION. WE DID NOT RUN AN ELECTRICAL LOG ON THE No. 1 DOWNS. FOLLOWING ARE THE TOPS OF THE FORMATIONS:

ELEVATION 1235 DERRICK FLOOR
 1238 KELLY BUSHING

	<u>DRILLER TOPS</u>	<u>DATUM</u>
KANSAS CITY	2776	(-1538)
BASE KANSAS CITY	3013	(-1780)
MISSISSIPPIAN	3383	(-2145)
KINDERHOOK	3763	(-2525)
CHATTANOOGA	3783	(-2545)
SIMPSON SAND	3818	(-2580)
ROTARY TOTAL DEPTH	3828	(-2590)
5 1/2" MOD CASING CEMENTED	3819	(-2581)

ONE DRILL STEM TEST WAS TAKEN IN THE SIMPSON SECTION.

THERE WERE NO SHOWS OF OIL IN THE POROUS ZONES OF THE KANSAS CITY.

FOLLOWING IS A SAMPLE DESCRIPTION OF THE MISSISSIPPIAN AND SIMPSON FORMATIONS:

MISSISSIPPIAN

- 3383-3388 LIMESTONE, BUFF TO GRAY, FINELY CRYSTALLINE, WEATHERED BUFF SPICULAR CHERT.
- 3388-3396 LIMESTONE, LIGHT BUFF DOLOMITIC, SLIGHTLY FOSSILIFEROUS, GRAY TO BUFF, SPICULAR CHERT.
- 3396-3404 LIMESTONE, DENSE BUFF, GRANULAR GRAY TO BUFF, SPICULAR CHERT.

MISSISSIPPIAN CONT'D

- 3404-3426 LIMESTONE, DENSE, GRAY, GRANULAR.
- 3426-3431 LIMESTONE, WHITE, MEDIUM CRYSTALLINE.
- 3431-3436 LIMESTONE, DENSE GRAY, FINELY CRYSTALLINE,
DARK GRAY, TRANSLUCENT CHERT.
- 3436-3456 BUFF, GRANULAR TO DOLOMITIC LIMESTONE;
SOME BUFF SPICULAR CHERT.
- 3456-3465 DOLOMITIC, FOSSILIFEROUS TO SUCROSE; NO SHOWS.
- 3465-3474 BUFF, GRANULAR TO DOLOMITIC LIMESTONE.
- 3474-3478 BUFF, SUCROSE DOLOMITE, SOME GRAY OOLITIC CHERT.
- 3478-3482 BUFF, GRANULAR TO DOLOMITIC LIMESTONE.
- 3482-3488 OOLITIC, SLIGHTLY DOLOMITIC LIMESTONE.
- 3488-3503 OOLITIC TO SLIGHTLY FOSSILIFEROUS, DOLOMITIC
LIMESTONE; NO SHOWS.
- 3503-3521 OOLITIC TO SLIGHTLY FOSSILIFEROUS DOLOMITIC
LIMESTONE WITH STREAKS OF OOLITIC CHERT.
- 3521-3536 DENSE BUFF TO GRAY DOLOMITIC LIMESTONE.
- 3536-3584 DENSE GRAY GRANULAR LIMESTONE.
- 3584-3754 DENSE GRAY, FINELY CRYSTALLINE TO GRANULAR
LIMESTONE.
- 3754-3760 LIMESTONE, LIGHT BUFF, COARSELY CRYSTALLINE TO
SLIGHTLY FOSSILIFEROUS, PARTLY MOTTLED,
SPECKS OF GLAUCOMITE.
- 3760-3763 LIMESTONE, DENSE DARK GRAY, FINELY CRYSTALLINE.

SIMPSON

- 3818-3821 SLIGHTLY FROSTED AND CLEAR SUB-ANGULAR, MEDIUM
SIZE LOOSE SAND; SOME MEDIUM GRAIN CLUSTERS.
CIRCULATED AT 3821; SLIGHT ODOR AND FLUORESCENCE
IN 1 HOUR SAMPLE.

SIMPSON CONT'D.

3821-3828 SANDSTONE, MEDIUM GRAINED CLEAR TO SLIGHTLY FROSTED, IN CLUSTERS; SLIGHT STREAKS OF GRAY DOLOMITIC SAND, SOME COARSE SLIGHTLY FROSTED LOOSE GRAINS. GOOD ODOR, GOOD FLUORESCENSE.

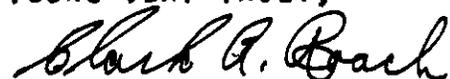
DRILL STEM TEST No. 1: 3819 TO 3828. OPEN 1 HOUR. GAS TO THE SURFACE IN 5 MINUTES; GAUGED 73,000 CU. FT. PER DAY. DECREASED TO AN AMOUNT TOO SMALL TO MEASURE AT THE END OF THE HOUR. UNSEATED THE PACKER AND LAID DOWN 60 FEET OF DRILL PIPE. WE DID NOT PULL THE REMAINING PIPE UNTIL DAY LIGHT. THE PIPE HUNG IN THE HOLE FOR APPROXIMATELY 12 HOURS. THE PIPE WAS RAISED AND LOWERED THROUGHOUT THE 12 HOURS TO KEEP THE PACKER FREE AND TO AGITATE THE OIL TO REMOVE AS MUCH GAS AS POSSIBLE. PULLING OF THE PIPE WAS RESUMED AT DAYLIGHT AND OIL WAS ENCOUNTERED WITH 2175 FEET OF PIPE IN THE HOLE. OIL FLOWED INTO THE GROW'S NEST ON THE DERRICK UNTIL DEPLETED.

THE CIRCULATING SUB WAS OPENED AT THIS POINT AND REVERSED CIRCULATION, FLOWING THE REMAINDER OF THE OIL OUT OF THE DRILL PIPE. ONLY OIL AND OILY MUD FLOWED OUT OF THE DRILL PIPE. ONE HUNDRED TWENTY (120) FEET OF SLIGHTLY SALTY WATER WAS RECOVERED BELOW THE CIRCULATING SUB. TOTAL RECOVERY FROM THE DRILL STEM TEST WAS 2055 FEET OF OIL, AND 120 FEET OF SLIGHTLY SALTY WATER. INITIAL SHUT IN PRESSURE 1415 PSI IN 20 MINUTES; FINAL SHUT IN PRESSURE 1395 PSI IN 30 MINUTES; INITIAL FLOW PRESSURE 80 PSI AND FINAL FLOW PRESSURE 790 PSI.

A SAMPLE OF THE WATER FROM THE DRILL STEM TEST WAS ANALYZED BY HALLIBURTON OIL WELL CEMENTING COMPANY IN WINFIELD. THE WATER COMPARED CLOSELY TO SIMPSON WATER IN THE ZYBA POOL, BUT DID NOT COMPARE TO ANY OTHER SIMPSON WATER ANALYZED BY HALLIBURTON IN SUMNER, SEDGWICK OR COWLEY COUNTIES.

IT WAS RECOMMENDED THAT 5½ INCH CASING BE CEMENTED AT 3819 FEET. IF THE SMALL AMOUNT OF WATER SHOULD GIVE ANY TROUBLE IN PRODUCING THE WELL, THE BOTTOM OF THE HOLE CAN BE PLUGGED BACK WITH PLASTIC.

YOURS VERY TRULY,



CLARK A. ROACH

STELBAR OIL CORP., INC., ET AL
 No. 1 DOWNS
 NW NW NE SEC. 20-30S-1E
 SUMNER COUNTY, KANSAS

<u>DEPTH</u>	<u>DRILLING TIME PER FOOT</u>	<u>REMARKS</u>
<u>FROM</u> <u>TO</u>		
2800-2810	3-2-2-3-3-2-2-3-2-3	
2810-2820	3-3-3-2-2-4-3-3-3-3	
2820-2830	4-7-7-5-3-2-3-3-5-7	
2830-2840	7-3-4-3-2-2-2-2-3-4	
2840-2850	3-2-2-3-2-3-2-3-2-3	
2850-2860	3-4-3-2-3-2-2-2-2-3	
2860-2870	2-2-1-2-3-3-8-7-6-3	
2870-2880	3-2-3-2-2-2-3-4-3-5-4	
2880-2890	4-5-8-8-10-11-10-10-10-8	
2890-2900	7-6-6-6-5-5-5-10-9-8	
2900-2910	8-7-8-8-9-4-4-5-2-1	
2910-2920	2-2-3-3-4-9-5-6-7-4	
2920-2930	8-9-7-7-7-8-8-12-9-7	
2930-2940	4-5-4-3-4-2-2-1-2-3	
2940-2950	1-2-2-1-1-1-3-4-2-2	
2950-2960	3-2-1-2-2-3-3-2-3-3	
2960-2970	1-2-2-1-1-1-2-1-2-2	
2970-2980	4-4-5-6-5-5-5-4-4-4	
2980-2990	4-4-5-4-4-4-4-4-5-3	
2990-3000	3-2-3-4-4-4-4-3-4-4	
3000-3010	5-4-4-5-5-5-5-4-5-6	
3010-3020	5-6-5-5-5-4-6-5-3-3	
3020-3030	3-2-3-3-3-3-3-4-3-3	
3030-3040	3-4-4-2-3-3-3-3-3-4	
3040-3050	3-3-3-4-5-5-6-4-5-3	
3050-3060	4-3-2-5-5-5-4-4-6-5	
3060-3070	5-6-4-4-6-8-4-4-3-4	
3070-3080	5-6-6-5-4-5-5-6-5-4	
3080-3090	5-7-3-3-3-4-3-5-6-6	
3090-3100	4-4-5-4-5-4-5-4-5-6	
3100-3110	6-5-6-6-8-9-4-4-6-6	
3110-3120	4-3-5-5-7-5-6-8-5-6	
3120-3130	5-5-6-8-5-5-7-7-5-7	
3130-3140	6-5-6-7-7-8-8-7-9-8	
3149-3150	7-10-7-8-8-6-8-11-12-10	
3150-3160	8-8-10-11-10-8-9-9-9-10	
3160-3170	8-10-9-7-8-8-7-7-6-7	
3170-3180	10-8-9-9-9-6-4-2-5-4	
3180-3190	6-5-2-3-3-6-5-5-4-4	
3190-3200	4-5-5-4-5-4-4-4-4	
3200-3210	4-4-4-4-4-2-2-2-2-2	
3210-3220	1-2-1-3-1-2-3-5-3-3	
3220-3230	3-3-3-3-3-3-4-5-3-3	
3230-3240	3-3-4-3-2-2-2-3-3-2	

No. 1 Down

DEPTH FROM TO	DRILLING TIME PER FOOT	REMARKS
3240-3250	3-3-3-3-3-3-3-3-3-3	
3250-3260	3-3-4-3-3-3-5-3-3-4	
3260-3270	4-4-4-3-4-4-3-4-4-3	
3270-3280	4-5-4-5-4-3-4-4-5-4	
3280-3290	2-2-1-2-2-1-4-4-3-3	
3290-3300	4-4-4-3-4-4-5-3-3-3	
3300-3310	3-2-4-2-2-3-2-2-3-3	
3310-3320	1-3-3-2-5-5-5-5-6-5	
3320-3330	4-4-5-5-5-3-4-3-3-2	
3330-3340	7-2-2-2-2-1-5-5-3-4	
3340-3350	5-6-5-5-5-5-6-6-3-3	
3350-3360	2-3-3-4-3-3-5-10-4-4	
3360-3370	3-4-2-2-3-2-2-3-2-3	
3370-3380	3-2-3-3-4-5-4-5-4-5	
3380-3390	5-3-2-5-7-5-5-7-8-8	
3390-3400	10-14-20-19-7-8-12-15-16-12	
3400-3410	19-16-7-12-9-10-10-10-10-11	
3410-3420	14-12-12-15-13-12-10-13-11-10	
3420-3430	10-11-14-13-16-11-6-7-5-7	
3430-3440	9-10-10-10-13-13-11-9-10-9	
3440-3450	10-9-7-9-10-8-8-6-8-8	
3450-3460	11-8-7-7-7-6-6-5-6-6	
3460-3470	6-6-8-7-5-9-8-7-8-10	
3470-3480	12-8-12-10-8-10-6-6-11-7	
3480-3490	11-10-5-4-5-10-4-5-8-10	
3490-3500	9-6-8-4-6-4-4-5-5-5	
3500-3510	5-6-6-8-8-9-9-8-10-10	
3510-3520	11-7-9-10-10-12-12-10-11-13	
3520-3530	11-13-15-15-15-16-16-15-14-13	
3530-3540	13-13-16-13-13-14-18-14-13-15	
3540-3550	5-9-8-8-6-9-8-7-5-6	
3550-3560	7-7-8-5-7-6-7-6-7-7	
3560-3570	7-7-7-7-7-7-7-7-8-8	
3570-3580	8-8-7-8-8-8-9-7-5-8	
3580-3590	8-7-8-9-11-12-11-10-10-11	
3590-3600	9-9-9-13-10-10-10-10-6-7	
3600-3610	8-6-6-7-8-7-7-7-7-4	
3610-3620	6-6-5-8-8-8-8-9-8-9	
3620-3630	9-9-9-9-10-11-11-9-12-12	
3630-3640	11-10-10-10-10-10-10-11-10-11	
3640-3650	9-9-14-12-12-5-9-8-9-11	
3650-3660	8-9-9-8-10-8-8-10-10-11-	
3660-3670	10-10-9-9-9-10-11-11-9-10	
3670-3680	11-10-10-11-11-11-11-18-9-9	
3680-3690	14-9-7-8-9-7-6-10-9-10	
3690-3700	11-7-9-9-8-10-9-12-11-11	

LOST CIR. @ 3645

No. 1 Down

<u>DEPTH</u> <u>FROM</u> <u>TO</u>	<u>DRILLING TIME PER FOOT</u>	<u>REMARKS</u>
3700-3710	10-10-9-8-12-14-14-13-9-12	
3710-3720	15-12-7-8-9-10-9-9-8-8	
3720-3730	9-9-9-9-8-8-9-8-9-9	
3730-3740	9-9-5-9-8-8-10-9-9-11	
3740-3750	9-9-11-11-8-9-9-9-12-8	
3750-3760	9-11-11-8-6-5-6-6-6-7	
3760-3770	10-12-11-5-7-10-10-10-8-6	
3770-3780	6-5-5-4-4-4-6-6-5-4	
3780-3790	5-5-5-4-3-5-4-3-4-5	
3790-3800	4-4-4-4-4-3-4-3-4-4	
3800-3810	3-5-4-4-4-4-3-4-4-3	
3810-3820	4-3-4-4-3-4-3-4-3-3	
3820-3828	3-6-8-5-7-6-8-3	CIRC. 1 HR. @ 3821 CIRC. 1 HR. @ 3828 TD