

METHOD OF DRILLING Standard toolsSewardCOUNTY, Kansas

SPUDDED

COMPLETED July, 1920COMPANY Defender Petroleum - Gas Co.LEASE BolesWELL NO. 1

CASING RECORD

REC'D.	MAY 18 1927
INDEX	
MAPS	
GRAPH	<i>[Handwritten signature]</i>
TYPED	
CC-S.F.	
FILE	

SHOT

FIELD

SEC. _____ BLK. _____ SURV. _____

SEC. _____ T. _____ R. _____

NE/4 NW/4. Sec. 3-35-34.

FEET _____ FROM _____ LINE

FEET _____ FROM _____ LINE

PRODUCTION

ELEV. 2916'SOURCE Altitude - 11/13TOTAL DEPTH 2919' P. B. to 2755'LOG OBTAINED FROM Liberal, KansasBY H. L. BurchfielDATE 5-11-27

FROM	TO				
0	50	sand and soft clay	1850	1852	hard water sand
50	105	gyp, clay, etc	1852	1930	red shale, blue streaks
105	115	sandy clay	1930	1948	red shale, hard shells
115	132	water sand	1948	1951	hard shell
132	150	brown and yellow clay	1951	1952	blue shale
150	156	water sand	1952	2032	red shale, hard streaks
156	160	sticky clay	2032	2034	hard red shale & shell
160	218	gyp and clay	2034	2055	red clay, gyp streaks
218	225	sticky brown clay	2055	2060	blue clay
225	325	fine brown sand with streaks soft sticky clay	2060	2077	red shale
325	329	white gypsum	2077	2079	hard shell
329	600	sand with shale breaks	2079	2102	red shale
600	640	clay and lime shells	2102	2108	blue shale
640	659	sticky blue clay	2108	2160	red shale
659	760	red clay	2160	2168	red rock-Bottom-Redbeds
760	765	light sandy lime-- carries water	2168	2245	blue shale
765	950	red clay	2245	2247	blue shale and sharp gritty shells
950	1030	red shale	2247	2264	blue shale
1030	1065	blue & red clay & white gyp	2264	2290	" " , sandy lime shells
1065	1102	soft blue clay	2290	2300	" " shells
1102	1140	red clay and shale	2300	2372	" " , sandy lime shells (silicate)
1140	1233	salt, sandstone, salt water, quicksand	2372	2380	hard shell
1233	1320	red clay (12 $\frac{1}{2}$ " landed 1257')	2380	2400	blue shale
1320	1335	red clay	2400	2405	blue shale, lime shells
1335	1347	sandy brown shale	2405	2410	lime shell
1347	1460	red shale	2410	2421	blue shale
1460	1462	blue shale	2421	2432	hard lime
1462	1630	red shale and hard rock	2432	2434	" " softer
1630	1645	brown sandstone	2434	2475	lime shell
1645	1690	hard sharp sand	2475	2485	soft white and pink shale--water
1690	1700	red clay	2485	2501	blue shale, lime streaks
1700	1702	blue shale			
1702	1717	red shale			
1717	1725	soft red shale (1720' 10" and shut			
1725	1750	hard lime shell (off water)			
1750	1850	red shale, blue streaks			

3-35-34

SEC. _____ BLK. _____ SURV. _____
SEC. _____ T. _____ R. _____

Seward

COUNTY, Kansas

COMPANY Defender Petroleum-Gas

LEASE Boles

WELL No. 1

FROM	TO	
2501	2509	hard lime shell
2509	2538	blue shale
2538	2545	gray lime, hard
2545	2570	blue shale
2570	2574	hard lime shell (landed 8" casing 2573')
2574	2581	blue shale
2581	2585	sandy lime, changing to sand ; showing gas and oil
2585	2600	blue shale
2600	2610	white lime
2610	2650	blue shale
2650	2680	sandy greasy shale--Gasburned 4' over top pipe
2680	2705	hard gray lime
2705	2716	black slate and shale
2716	2755	gas sand--5--10 million feet wet gas
2755	2770	brown shale
2770	2782	hard shell
2782	2784	water sand--1/8 bbl. per hr.
2784	2794	lime
2794	2814	blue shale
2814	2825	hard lime
2825	2845	sandy shale
2845	2847	hard lime
2847	2908	salt water sand--lots water
2908	2919	blue shale. T. D.

NOTE:

Plugged back and cemented at 2755' to shut off water. Original capacity of well 10,000,000 cu. ft. (estimated). Present capacity a little over 1,000,000 cu. ft. (gauged). The well was on several occasions flowing with salt water which severely injured the gas sand. Was drilled for the Traders Oil Corporation under the supervision of H. H. McQuigg. Now owned by Defender Petroleum Gas Co., 619 Hollingsworth Bldg., Los Angeles, Calif.