

GEOLOGICAL DEPARTMENT UNION GAS CORPORATION

INDEPENDENCE, KANSAS

17-13-23E

Company Sagamore Oil and Gas Company

S. T. R.
County
State
Lease and
Well No.

17-13-23
Johnson
Kansas

Metropolitan LIC #2

Contractor Earl Smith

Drilling Commenced 8/13/35

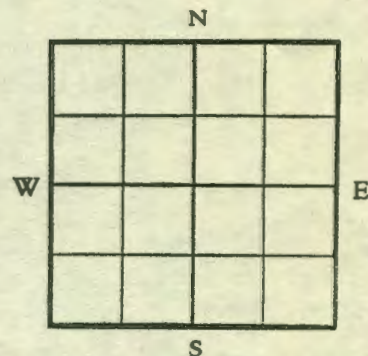
Drilling Completed 8/19/35

Initial Production 109 M.

Initial Rock Pressure 100#

Location Center of SE $\frac{1}{4}$ of NW $\frac{1}{4}$

Casing 8 $\frac{1}{2}$ " 17'



Driller's Record of Formations

5	surface shell lime and gravel	5	bottom of 6 $\frac{1}{2}$ packer rubber	355
5	yellow clay	10	bottom of pony packer	348 $\frac{1}{2}$
4	blue shale	14		
14	lime	28		
24	light shale lime shells	52		
28	lime white	80		
1	shale blue	81		
28	lime	109		
45	shale	154		
6	lime	160		
2	shale	162		
5	lime	167		
10	shale dark blue	177		
2	lime white	179		
5	shale white	184		
5	lime hard	192		
5	shale white	197		
6	red rock	203		
26	lime	229		
2	shale dark	231		
2	lime	233		
4	shale black	237		
15	lime	252		
2	shale	254		
16	lime	270		
5	shale	275		
21	lime	296		
4	shale dark	300 gas		
1	lime	301		
3	shale black	304 trace of water		
10	lime white	314		
1	shale white	315 reduced hole SIM		
31 $\frac{1}{2}$	shale light	346 $\frac{1}{2}$		
9 $\frac{1}{2}$	sand	356		
4	sand and gas	360 34 M		
4	shale sandy	364		
14 $\frac{1}{2}$	sand	378 $\frac{1}{2}$ gas 73 M		
	T. D.	378 $\frac{1}{2}$		