

Plotted B. J. Miller 18-13-23E

Company Union Gas System, Inc.

Sec. 18

T. 13

R. 23

Farm *Ulrich*

No. 1

County

Total Depth 262'6"

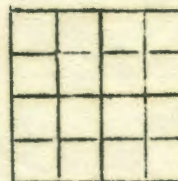
Comm. 10-24-35

Comp. 10-29-35

Shot or Treated

Contractor Earl Smith

Issued



Casing

20 in.	10 in.
15 1-2	8 1-4 10' 6"
12 1-2	6 5-8 141 1/2
13 3-8	5 3-16

Elevation

Production

Figures Indicate Bottom of Formation

Soil	3 1/2'
Yellow clay	7
Gravel	10
Lime	21
Black shale	24
Dark shale	30
Red rock	36
Lime	40
Shale light	45
Lime	57
Shale	60
Lime	62
Shale	74 Dark blue
Lime	89
Shale	90
Lime	95
Shale	101
Lime	123
Shale	127 Black gas 19,000
Lime	129
Shale	132 S. L. M.
Lime	141
Shale	141 1/2
Light shale	168
Sand hard	170 S.L.M. 2M 165 to 170
Sand hard	171
Sand soft	173
Shale blue	190
Shale blue	190
Sand - fine	218
Sand muddy	238
Shale dark	251-6" 62,000 Volume
Sand coarse	262-6" Rock pressure 116#

2" packer set 11 ft. from bottom of hole to bottom of rubber

1" packer set 15'9" from bottom of hole to bottom of rubber. Cage directly under both packers.

SAGAMORE OIL AND GAS COMPANY

INDEPENDENCE, KANSAS

Company Sagamore Oil and Gas Company

UNION GAS

Contractor B. Earl Smith

S. T. R. 18-13-23

County Johnson

State Kansas

Lease and Well No. Ulrich #1

Drilling Commenced 10/24/35

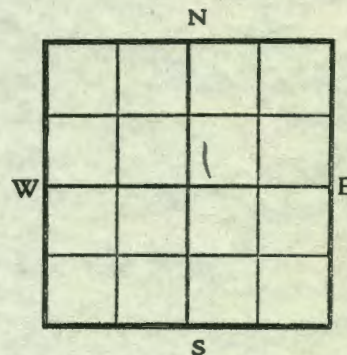
Drilling Completed 10/29/35

Initial Production gas well

Initial Rock Pressure

Location 660' from N line, 660' from E Line, SE $\frac{1}{4}$

Casing 6 $\frac{1}{2}$ " 141' Pulled



Driller's Record of Formations

soil	3 $\frac{1}{2}$	3 $\frac{1}{2}$
yellow clay	3 $\frac{1}{2}$	7
gravel	3	10
lime	11	21
black shale	3	24
dark shale	6	30
red rock	6	36
lime	4	40
shale light	5	45
lime	12	57
shale	3	60
lime	2	62
shale dark blue	12	74
lime	15	89
shale	1	90
lime	5	95
shale dark	6	101
lime	22	123
shale black	4	127
lime	2	129
shale	3	132
lime	9	141
shale	1 $\frac{1}{2}$	141 $\frac{1}{2}$ Cased
shale light	20 $\frac{1}{2}$	168
sand hard	2	170 SLH
sand soft	2	173
shale blue	17	190
sand platy and fine	28	218
sand muddy	20	238
shale dark	13-6	251-6
sand coarse gravel	11-6	262-5 T.D.