

GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY
INDEPENDENCE, KANSAS

Company Guffey-Gillespie

S. T. R. 30-31-11
County Elk
State Kansas
Lease and Biltgen #1
Well No.

Contractor

Drilling Commenced 9/16/20

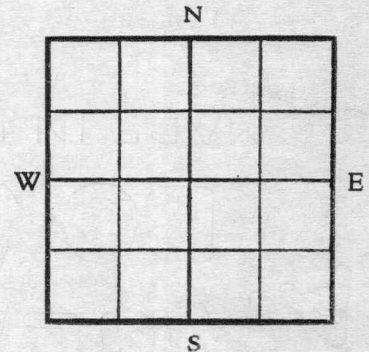
Drilling Completed 11/29/20

Initial Production

Initial Rock Pressure

Location

Casing



Driller's Record of Formations

sand	4	shale	1365
lime	9	lime	1395
shale	19	shale	1400
lime	24	lime	1470
shale	40	shale	1485
lime	45	lime	1510
shale	65	shale	1545
lime	90	lime	1590
shale	120	shale	1660
lime	125	lime	1665
red mud	130	shale	1670
shale	150	lime	1690
lime	160	shale	1710
red mud	165	lime	1765-shale
lime	175	lime	1775 1770
shale	260	shale	1930
sand	280	red rock	1945
shale	335	shale	1955
lime	385	red rock	1965
shale	415	slate	2033
red rock	430	lime	2100
shale	450	sand water	2105
red rock	475	lime	2190
shale	515	lime	2265
lime	525	shale	2315
shale	660	sandy lime	2417 water
lime	670		
shale	700		
lime sandy	710		
shale	730		
sandy lime	765 water		
shale	915		
lime	975 gas		
shale	1125		
lime	1135		
shale	1185		
sand	1215		
lime	1325		
shale	1330		
lime	1345		