

WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY.
412 Union National Bank Bldg., Wichita, Kansas.

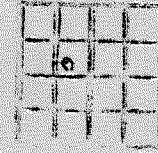
34-29-10E
987
Cardinal
out
SEC. 34 T. 29 R. 10E.
CSW SE NW

MORROW AND SONS.
Dunkleberger No. 4.

County Elk.

Total Depth. 1309 $\frac{1}{2}$
Comm. 6-25-35 Comp. 8-10-35
Shot or Treated. 90 qts.
Contractor.
Issued. 6-25-38

JUN 25 1938



CASING.

10" 328'
8 $\frac{1}{2}$ " 726'
6 $\frac{5}{8}$ " 1273'

Elevation. 1990

Production. 90 B.

Figures Indicate Bottom of Formations.

soil	30	shale	1077
lime	100	lime	1095
shale	105	shale	1130
lime	109	lime	1172 steel line at
red rock	127	lime oil	1196 1172 $\frac{1}{2}$
lime	132	2 B. show at 1201	$\frac{1}{2}$ BPH 1205
shale	173	lime	1272
lime	200	shale	1273
shale	315	lime	1280
sand 15BW	330	sand	1300
shale	380	lime	1301
lime	397	sand Oil	1309 $\frac{1}{2}$
shale	405	Total Depth.	
red rock	450		
shale	467		
lime	477		
red rock	510		
shale	573		
sand	578		
shale	658		
lime	662		
shale	700		
red rock	710		
shale	719		
lime	733		
shale	748		
lime	750		
shale	773		
lime	783		
shale	793		
lime	965		
3 BW 850			

GEOLOGICAL DEPARTMENT
UNION GAS CORPORATION
INDEPENDENCE, KANSAS

34-29-10E

Company **Morrow and Sons**

S. T. R. **34-29-10**
County **Elk**
State **Kansas**
Lease and Well No. **Dunkleberg #4**

Contractor

Drilling Commenced

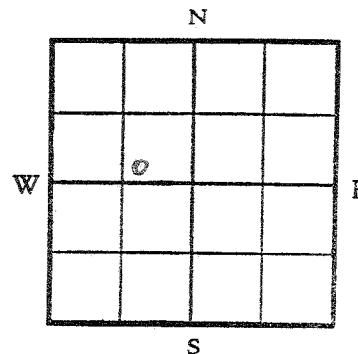
Drilling Completed **August, 1935**

Initial Production **90 bbls. per day**

Initial Rock Pressure

Location **C of SW of SE of NW 1/4**

Casing **10" 326'**
8 1/2" 726'
6-5/8" 1273'



Driller's Record of Formations

soil	30
lime	100
shale	105
lime	109
red rock	127
lime	152
shale	173
lime	200
shale	315
sand	330 15 SW
shale	390
lime	397
shale	405
red rock	450
shale	467
lime	477
red rock	510
shale	573
sand	578
shale	659
lime	662
shale	700
red rock	710
shale	719
lime	733
shale	746
lime	750
shale	773
lime	783
shale	793
lime	965 S SW at 850
shale	1077
lime	1095
shale	113 0
lime	1172 SLM 1173 1/2
lime oil at	1196

2 bbl. show at	1201
1/2 bailer per hr.	1205
lime	1272
shale	1273
lime	1290
sand	1300
lime	1301
sand oil	1309 1/2 T.D.

Shot with 90 quarts. Pipe cemented with 20 sacks cement.
Initial production 90 bbls per day.

Geological Form 5