

**GEOLOGICAL DEPARTMENT  
UNION GAS CORPORATION  
INDEPENDENCE, KANSAS**

Company **I. W. Murfin et al**

**S. T. R. 10-31-10  
County Elk  
State Kansas  
Lease and Blk #40  
Well No.**

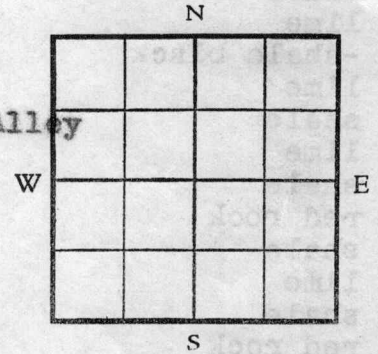
Contractor

Drilling Commenced **Nov. 8, 1928** Drilling Completed **12/1/28**

Initial Production Initial Rock Pressure

Location **Blk. #40 Moline, Kansas, W $\frac{1}{2}$ -15' W. of Alley**

Casing



**Driller's Record of Formations**

	soil	8	105	shale	640
5	gravel	13	10	lime	650
7	lime	20	30	shale	680
13	shale	33	10	lime	690
87	lime	120	15	shale	705
10	shale	130	10	shale sandy	715
5	lime	135	100	shale	815
15	shale	150	135	lime	950
5	lime	155	5	shale	955
5	shale	160	5	lime	960
20	lime	180	10	shale	970
10	shale	190	5	lime	975
5	lime	195	35	shale black	1010
7	shale	202	5	lime	1015
8	red rock	210	75	shale sandy	1090
5	lime	215	30	shale	1120
25	shale	240	5	lime	1125
10	lime	250	15	shale	1140
20	shale blue	270	35	gas sand	1175
15	lime	285	10	shale	1185
15	sand	300	60	lime	1245
40	shale	340	5	shale	1250
25	lime hard	365	50	lime	1300
15	shale	380	10	shale black	1310
15	red rock	395	50	lime	1360
15	lime	410	5	shale black	1365
15	red rock	425	15	lime	1380
5	shale	430	10	lime oil	1390
5	lime	435	10	lime 3 blrs. water	1400
5	shale	440			
10	lime	450	20	lime	1420
10	red rock	460	35	shale	1455
5	lime	465	5	lime	1460
10	red rock	475	55	shale	1515
10	lime	485	20	lime	1535
15	shale	500	10	shale	1545
5	lime	505	65	shale	1610
30	shale sand	535	5	lime hard	1615
s			30	lime	1645 h

over

Geological Form 5

GEOLOGICAL DEPARTMENT  
UNION GAS CORPORATION  
INDEPENDENCE, KANSAS

10-21-10

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

Company I. W. Martin et al

Contractor

10	shale	1655
35	lime	1690
15	-shale black	1705
5	lime	1710
45	shale	1755
5	lime	1760
110	shale	1870
15	red rock	1885
10	shale	1895
5	lime	1900
25	shale	1925
20	red rock	1945
5	shale	1950
25	shale	1975
10	lime	1985
200 M. gas through 1500' oil		
about 400 M. gas when drilled in		
at 1985'		
17	sand and lime	2002
7	lime	2009 T.D.

not shot, 1400' oil in hole  
over night.

Drilling  
Completed  
Nov. 8, 1928

Initial  
Production

Location  
Dix, 440 Collins, Kansas, W-751

Casing

Driller's Record of Formations

30	shale sandy	285	30	lime	2
15	shale	300	15	shale	3
10	lime	305	10	lime	8
10	lime	310	10	red rock	18
10	lime	315	10	lime	15
10	lime	320	10	lime	15
10	lime	325	10	lime	15
10	lime	330	10	lime	15
10	lime	335	10	lime	15
10	lime	340	10	lime	15
10	lime	345	10	lime	15
10	lime	350	10	lime	15
10	lime	355	10	lime	15
10	lime	360	10	lime	15
10	lime	365	10	lime	15
10	lime	370	10	lime	15
10	lime	375	10	lime	15
10	lime	380	10	lime	15
10	lime	385	10	lime	15
10	lime	390	10	lime	15
10	lime	395	10	lime	15
10	lime	400	10	lime	15
10	lime	405	10	lime	15
10	lime	410	10	lime	15
10	lime	415	10	lime	15
10	lime	420	10	lime	15
10	lime	425	10	lime	15
10	lime	430	10	lime	15
10	lime	435	10	lime	15
10	lime	440	10	lime	15
10	lime	445	10	lime	15
10	lime	450	10	lime	15
10	lime	455	10	lime	15
10	lime	460	10	lime	15
10	lime	465	10	lime	15
10	lime	470	10	lime	15
10	lime	475	10	lime	15
10	lime	480	10	lime	15
10	lime	485	10	lime	15
10	lime	490	10	lime	15
10	lime	495	10	lime	15
10	lime	500	10	lime	15
10	lime	505	10	lime	15
10	lime	510	10	lime	15
10	lime	515	10	lime	15
10	lime	520	10	lime	15
10	lime	525	10	lime	15
10	lime	530	10	lime	15
10	lime	535	10	lime	15
10	lime	540	10	lime	15
10	lime	545	10	lime	15
10	lime	550	10	lime	15
10	lime	555	10	lime	15
10	lime	560	10	lime	15
10	lime	565	10	lime	15
10	lime	570	10	lime	15
10	lime	575	10	lime	15
10	lime	580	10	lime	15
10	lime	585	10	lime	15
10	lime	590	10	lime	15
10	lime	595	10	lime	15
10	lime	600	10	lime	15
10	lime	605	10	lime	15
10	lime	610	10	lime	15
10	lime	615	10	lime	15
10	lime	620	10	lime	15
10	lime	625	10	lime	15
10	lime	630	10	lime	15
10	lime	635	10	lime	15
10	lime	640	10	lime	15
10	lime	645	10	lime	15
10	lime	650	10	lime	15
10	lime	655	10	lime	15
10	lime	660	10	lime	15
10	lime	665	10	lime	15
10	lime	670	10	lime	15
10	lime	675	10	lime	15
10	lime	680	10	lime	15
10	lime	685	10	lime	15
10	lime	690	10	lime	15
10	lime	695	10	lime	15
10	lime	700	10	lime	15
10	lime	705	10	lime	15
10	lime	710	10	lime	15
10	lime	715	10	lime	15
10	lime	720	10	lime	15
10	lime	725	10	lime	15
10	lime	730	10	lime	15
10	lime	735	10	lime	15
10	lime	740	10	lime	15
10	lime	745	10	lime	15
10	lime	750	10	lime	15
10	lime	755	10	lime	15
10	lime	760	10	lime	15
10	lime	765	10	lime	15
10	lime	770	10	lime	15
10	lime	775	10	lime	15
10	lime	780	10	lime	15
10	lime	785	10	lime	15
10	lime	790	10	lime	15
10	lime	795	10	lime	15
10	lime	800	10	lime	15
10	lime	805	10	lime	15
10	lime	810	10	lime	15
10	lime	815	10	lime	15
10	lime	820	10	lime	15
10	lime	825	10	lime	15
10	lime	830	10	lime	15
10	lime	835	10	lime	15
10	lime	840	10	lime	15
10	lime	845	10	lime	15
10	lime	850	10	lime	15
10	lime	855	10	lime	15
10	lime	860	10	lime	15
10	lime	865	10	lime	15
10	lime	870	10	lime	15
10	lime	875	10	lime	15
10	lime	880	10	lime	15
10	lime	885	10	lime	15
10	lime	890	10	lime	15
10	lime	895	10	lime	15
10	lime	900	10	lime	15
10	lime	905	10	lime	15
10	lime	910	10	lime	15
10	lime	915	10	lime	15
10	lime	920	10	lime	15
10	lime	925	10	lime	15
10	lime	930	10	lime	15
10	lime	935	10	lime	15
10	lime	940	10	lime	15
10	lime	945	10	lime	15
10	lime	950	10	lime	15
10	lime	955	10	lime	15
10	lime	960	10	lime	15
10	lime	965	10	lime	15
10	lime	970	10	lime	15
10	lime	975	10	lime	15
10	lime	980	10	lime	15
10	lime	985	10	lime	15
10	lime	990	10	lime	15
10	lime	995	10	lime	15
10	lime	1000	10	lime	15