

GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY

6-16-12

INDEPENDENCE, KANSAS

LOG OF WELL

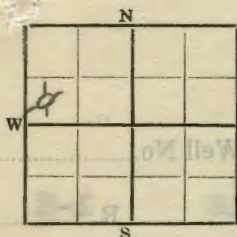
Company Trico Oil Farm E. R. Eliason Well No. _____
 State K. ansa County Dickinson S. 6 T. 16 R. 1-E
 Commenced Drilling _____ Completed _____ Elev. _____
 Shot _____ Qts. from _____ to _____ I. P. _____ R. P. _____
 Casing: _____ Casing: _____ Casing: _____
 Casing: 1-10-12 Casing: _____ Casing: _____
 Tubing _____ Caged at _____ Packer at _____

Contractor					
surface	soil	25	sandy lime	soil	553
shale	soil	75	shale sandy	soil	563
lime	soil	85	lime	soil	572
shale	soil	113	red rock	soil	582
lime	soil	118	slate	soil	586
shale	soil	135	lime	soil	601
lime	soil	147	slate	soil	608
shale	soil	150	lime	soil	626
lime	soil	180	slate	soil	641
shale	soil	184	lime	soil	644
lime	soil	192	slate	soil	648
shale	soil	195	lime	soil	658
shells	soil	200	slate	soil	659
lime	soil	212	lime	soil	669
shale	soil	213	slate	soil	699
lime	soil	221	lime	soil	730
slate	soil	222	red rock	soil	740
flint	soil	227	lime	soil	766
shale	soil	238	shale	soil	770
lime	soil	243	lime	soil	778
shale	soil	248	slate	soil	799
red rock	soil	262	lime	soil	802
shells	soil	265	slate	soil	813
shale	soil	273	lime	soil	816
lime	soil	288	shells	soil	820
shale	soil	308	slate	soil	835
shells	soil	311	shells & slate	soil	835
slate	soil	318	lime	soil	840
lime	soil	323	slate	soil	852
shale	soil	346	lime	soil	872
lime	soil	415	slate	soil	880
shale	soil	421	lime	soil	887
lime	soil	468	slate	soil	1011
red rock	soil	478	red rock	soil	1021
lime	soil	483	shells	soil	1024
slate	soil	521	shale	soil	1053
red rock	soil	528	red rock	soil	1068
slate	soil	533	slate	soil	1090
			shale	soil	1130

(Over)

GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY

LOCATION



..... Ft. from North Line of qr. sec.

..... Ft. from South Line of qr. sec.

..... Ft. from East Line of qr. sec.

..... Ft. from West Line of qr. sec.

TEST

Through	Pitot Tube Test of 192		 192
	Used	Mercury	Water	
In. Tubing	Reading			Open Gauge Test Shows
In. Casing	Vol. Cu. Ft.		 Lbs.

6-16-1 E

	1135		2033
lime	1145	shale	2175
slate	1158	lime	2190
lime	1161	slate	2240
slate	1182	lime	2250
lime	1193	sand	2274
slate	1222	lime sandy	2286-high
lime	1226	sand	2309
slate	1244	lime	2325
shale	1254	sand	2337
lime	1265	lime	2342
lime	1275	sand	2352
red rock	1279	lime	2360
lime	1336	sand	2368
slate	1369	sand & shells	2397
lime	1411	sand	2436
slate	1424-water	shale	
lime	1438		
slate	1458		
lime	1480-water		
shale sandy	1494		
lime	1544		
slate	1568		
lime	1573		
slate	1578		
lime	1595		
slate	1600		
slate & shell	1635		
lime	1648		
slate & shale	1655		
lime	1660		
shale	1685		
lime	1712		
shale	1719-gas at 1770		
lime	1784		
slate	1790		
lime	1794		
slate	1909		
lime	1921		
slate	1960		
lime	2043		

*Mv
Mount
Coral*

or SE & SWNW LOG

*Send back
6-16-1E*

TRICO WELL - NE Cor. NE $\frac{1}{4}$ Sec. 6 - T 16S - R 1E - Dickinson County, Kansas

From	To	Formation	From	To	Formation
0	25	Surface	478	483	Lime
25	30	Gray Shale	483	503	Blue slate
30	75	Gray Shale	503	521	Blue slate
75	87	Lime	521	528	Red Rock
87	115	Shale	528	533	Blue slate
111	118	Lime	533	553	Lime, sandy
118	125	Shale	563	578	Lime
125	135	Shale	578	582	Red Rock
135	147	Lime	582	586	Blue slate
147	150	Shale	586	601	Hard white Lime
150	153	Lime	601	616	Blue slate
153	159	Shale	616	626	Brown Lime
159	170	Lime - hard	626	641	Blue shale
170	180	Lime - blue	641	644	Lime
180	184	Shale	644	648	Blue slate
184	192	Lime	648	658	Lime
192	195	Blue mud	658	654	Blue slate (Error)
195	200	Hard shells	654	659	Black slate
200	203	Lime	659	669	Lime
203	206	Lime	669	674	Blue slate
206	212	Lime	674	699	Lime white
212	213	Blue mud	699	705	Blue slate
213	217	Lime	705	721	White slate
217	220	Lime	721	732	Lime
220	222	Blue slate	732	740	Red Rock
222	227	Brown Flint	740	755	Gray Lime (3 balers of water)
227	230	Flint	755	765	Gray Lime
230	238	Blue shale	765	770	Blue shale
238	243	Gray Lime	770	778	Gray Lime
243	248	Blue shale	778	799	Black slate
248	253	Red Rock	799	802	Lime
253	262	Red Rock	802	813	Blue shale
262	265	Hard shells	813	816	Lime (set 12 $\frac{1}{2}$ casing)
265	270	Yellow mud	816	820	Lime Shell
270	273	Gray shale	820	830	Blue slate
273	298	White Lime	830	835	Shells and slate
298	308	Blue slate	835	840	Lime
308	311	Lime shells	840	852	Blue slate
311	318	Blue slate	852	872	White Lime
318	323	White Lime	872	880	Blue slate
323	331	Blue shale	880	887	Gray Lime
331	346	Red mud	887	897	Blue slate
346	354	Lime	897	907	Black slate
354	369	Gray Lime	907	962	White slate
369	399	Gray Lime	962	967	Slate and shells
399	414	Lime	967	977	Black slate
414	421	Blue shale	977	985	White slate
421	435	White Lime	985	1011	Blue slate
435	465	White Lime	1011	1021	Red Rock
465	468	Lime	1021	1024	Lime shell
468	478	Red Rock	1024	1032	Black slate

From	To	Formation
1032	1037	White slate
1037	1053	Blue slate
1053	1068	Red Rock
1068	1090	Blue slate
1090	1100	Shells
1100	1118	Blue slate
1118	1130	Shells & slate
1130	1133	Lime
1133	1143	Blue slate
1143	1158	Lime - hard
1158	1161	Blue slate (cave)
1161	1183	Lime
1183	1193	Blue slate
1193	1215	Lime (set 10' casing)
1215	1222	Lime
1222	1226	Blue slate
1226	1229	Gray Lime
1229	1444	Lime
1244	1254	Red Rock
1254	1263	Lime
1263	1273	Red Rock
1273	1279	Lime
1279	1303	Blue slate
1303	1336	Blue slate
1336	1369	Lime
1369	1411	White slate
1411	1424	Lime (Water)
1424	1438	White slate
1438	1456	Lime
1456	1483	Sandy shale (Water)
1483	1543	Lime (8' casing set 1484)
1543	1568	Black slate
1568	1573	Lime
1573	1578	Black slate
1578	1593	Lime
1593	1600	Blue slate
1600	1633	Slate shells
1633	1660	Lime
1660	1663	Shale
1663	1680	Lime
1680	1685	Black slate
1685	1698	Lime
1698	1712	Lime
1712	1719	Brown shale
1719	1760	Gray Lime
1760	1770	Lime
1770	1784	Lime
1784	1790	White slate
1790	1794	Lime
1794	1818	White slate
1818	1830	Brown shale
1830	1863	Gray slate

From	To	Formation
1863	1885	White slate
1885	1908	Blue slate
1908	1913	White slate
1913	1920	Lime
1920	1924	Blue slate
1924	1934	Brown slate
1934	1937	Blue slate
1937	1960	Blue slate
1960	2000	Lime (Big water)
2000	2011	Lime (set 5/8 casing)
2011	2043	Lime
2043	2063	Black slate and shale
2063	2089	Lime - white
2089	2103	" dark
2103	2130	" brown
2130	2140	" white
2140	2145	Black slate
2145	2173	Lime
2173	2192	Slate
2192	2210	Lime Shells
2210	2213	Lime
2213	2240	Lime
2240	2250	Sand
2250	2260	Sandy Lime
2260	2274	Sandy Lime
2274	2286	Sand (Show oil)
2286	2306	Sandy Lime
2306	2309	White Lime
2309	2325	Sand
2325	2327	Black Lime
2327	2332	Lime Shale
2332	2337	Black shale Sand
2337	2342	Sandy Lime
2342	2347	Lime
2347	2352	Sand
2352	2360	Sand shell
2360	2365	Sand
2365	2397	Shale
2397	2436	Shale
2436	2630	Shale
2630	2635	Sand

NE, NE 6-165-1E
Dickinson Co