

11-13-2E

GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY

INDEPENDENCE, KANSAS

LOG OF WELL

Company _____ Farm _____ County Farm Well No. _____
 State Kansas County Dickinson S. 11 T. 13 R. 2 E
 Commenced Drilling 1-14-18 Completed 2-18-18 Elev. _____
 Shot _____ Qts. from _____ to _____ I. P. _____ R. P. _____
 Casing: 170' 15 1/2" Casing: 618' 12 1/2" Casing: 1447' 10"
 Casing: 1747' 8 1/2" Casing: 2-16' 6-5/8" Casing: _____
 Tubing _____ Caged at _____ Packer at _____
 Contractor J. E. Cook

soil	5	
rock	7	
soil	32	
gravel water	35	
slate & rock	65	
red rock water	90	
red rock	107	
lime	170	
break	180	
lime	280	
red rock	290	
slate & lime	480	
red rock	510	
blue & red shale	790	
shale	810	
lime shells & shale	975	
slate	980	
lime	1000	
shale	1035	
slate	1080	1080
shale	1135	
slime stone	1140	
shale	1150	
lime	1225	
shale & lime	1440	
lime	1585	salt
shale & lime	1670	water
lime	1735	
water	1740	
lime	1900	small
slate	1936	caves
lime	2010	
cave	2016	
underreamed to		
soft cave	2203	
flint rock shale	2240	
salt water	2249	

water sand & lime	2400
cap rock	
red & brown shale	2431
s ale	2450
slate	2550
water sand	2600
sand	2620
rock brown	2788
rock	2788
rock	2801
rock	2811
muddy sand	2853
shale	2861

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GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY

INDEPENDENCE, KANSAS

LOG OF WELL

Company Farm County Well No. **1**
 County State **Kansas**
 State **Dickinson** County **Kansas** **31** T. **13** R. **2**
 Commenced Drilling Completed Elev.
 Shot Qts. from to I. P. R. P.
 Casing: **15 1/2"** **170'** Casing: **12 1/2"** **818'** Casing: **10"** **1447'**
 Casing: **8 1/2"** **1747'** Casing: **6-5/8"** **2016'** Casing:
 Tubing Caged at Packer at

Contractor	5	hard sand	2620
soil	32	rock	2788
gravel	65	salt & pepper rock	2788
slate & rock	107	light hard rock	2801
red rock	170	salt & pepper rock	2811
lime	180	muddy sand	2854
break	280	shale	2861
lime	290		
red rock	480		
slate&lime	510		
red rock	790		
blue & red shale	810		
shale	975		
lime shell&shale	980		
slate	1000		
lime	1138		
shale	1140		
limestone	1180		
grey shale	1225		
hard lime	1440		
shaley lime	1585	salt water	
hard lime	1670		
shale & lime	1735		
hard lime	1740		
water	1900		
hard lime	1936		
water	2010		
hard lime	2016	2016	
save	2203		
underreamed			
flint rock & hard			
gritty sands	2240		
slat water	2249		
sand & lime	2400	water	
shale	2450		
slate	2550		
water sand	2600		

11-13-2E

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LOCATION

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N
E

W
S

.....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.