

7-33-10E

GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY

INDEPENDENCE, KANSAS

LOG OF WELL

Company Sachen Oil Company Farm E. W. Letcal Well No. 1

State Kansas County Chautauqua S. 7 T. 33 R. 10

Commenced Drilling 4/18/18 Completed 8/10/18 Elev. _____

Shot _____ Qts. from _____ to _____ I. P. _____ R. P. _____

Casing: 10" 500' Casing: 8" 850' Casing: 6-1/4" 1510'

Casing: _____ Casing: _____ Casing: _____

Tubing _____ Caged at _____ Packer at _____

Contractor _____

sand Rock	10	shale	1430
lime	25	lime	1455
shale	90	sand & water	1500
red rock	105	shale	1515
shale	120	lime	1535
lime rock	190	shale	1545
shale	200	lime	1560
red rock	215	shale	1595
lime	230	lime	1605
red rock	240	shale	1640
shale	350	Peru sand	1650
sand water	380	shale	1660
shale	400	lime	1680
lime	410	sand	1690
sand	430	shale	1700
shale	480	sand little water	1720
red bed	500	shale	1730
sand water	515	lime	1740
shale	530	shale	1770
red rock	540	lime	1800
shale	560	shale	1920
sandy lime	585-HFW	lime	1930
shale	600	shale	1960
sand	615	sandy shale	1970
shale	635	lime	1980
lime	645	shale	2010
shale	750	lime shells	2020
lime	765	dark shale	2025
sand	805	red rock	2035
shale	815	shale	2040
sand	835-HFW	lime HFW	2066
shale	1050	finished	2066
lime	1060		
shale	1220		
sand water	1290		
shale	1310		
sand	1315		
shale	1340		
sand	1400		