

GEOLOGICAL DEPARTMENT  
SOUTHWESTERN GAS COMPANY

INDEPENDENCE, KANSAS

Company **Prairie Oil & Gas Company**

S. T. R. **10-12-9 W**  
County **Lincoln**  
State **Kansas**  
Lease and **W. B. Middlekauff #11**  
Well No.

Contractor

Drilling  
Commenced

Drilling  
Completed

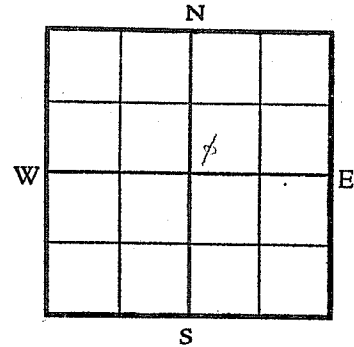
Initial  
Production

Initial Rock  
Pressure

Location

Casing **146' 3" - 20"**  
**1146' 2" - 12 1/8"**  
**2652' 4" - 8 1/4"**  
**3560' - 5 - 3/16"**

**415' 2" - 15"**  
**1693' 2" - 10"**  
**3018' 3" - 6 - 5/8"**



Driller's Record of Formations

soil	10	10	red rock	1138	1160
rock	10	16	lime	1160	1220
shale	16	30	shale shells	1220	1240
red rock	30	39	sand	1240	1500
slate white	39	50	shale	1500	1320
sand	50	60	lime	1320	1335
slate	60	170	shale brown	1335	1337
lime white	170	183	lime	1337	1345
slate	183	201	red rock	1345	1350
lime white	201	207	lime	1350	1380
slate	207	215	slate	1380	1385
sand	215	220	rock	1385	1412
light show gas and oil		219	slate	1412	1420
slate	219	231	lime	1420	1450
red rock	231	240	red rock	1450	1460
slate and rock	240	280	slate shells	1460	1495
lime white	280	290	red rock	1495	1502
slate	290	292	lime	1502	1520
lime	292	295	slate	1520	1535
red rock	295	300	red rock	1535	1566
slate & shells	300	312	slate	1566	1598
red rock	312	411	lime	1598	1610
slate	411	419	slate	1610	1636
red rock	419	470	lime & shale	1636	1666
slate	470	510	red rock	1666	1685
red rock	510	580	slate	1685	1710
slate	580	700	lime	1710	1725
lime	700	742	slate and shells	1725	1978
slate	742	878	lime	1978	1988
slate	878	940	slate	1988	2000
lime	940	980	shells	2000	2090
slate shells	980	1015	lime	2090	2095
lime	1015	1032	slate	2095	2100
red rock	1032	1047	lime	2100	2123
lime	1047	1068	slate	2123	2180
red rock	1068	1102	lime	2180	2192
lime white	1102	1128	slate and shells	2192	2263
shale	1128	1138	lime	2263	2302
			sand	2302	2307

over

lime	2307	2367
slate	2367	2410
lime	2410	2499
slate & shells	2499	2664
lime & shells	2664	2727
slate	2727	2731
sand	2731	2740
slate	2740	2750
lime	2750	2755
sand	2755	2813
slate	2813	2820 HFW
lime	2820	2865
slate	2865	2875
lime	2875	2887
sand	2887	2898
lime	2898	2909
sand	2909	2930
lime and sand	2930	2938
slate soft	2938	2943
lime hard	2943	2952
slate soft	2952	2969
red rock	2969	2983
slate black	2983	3000
lime	3000	3020
slate black	3020	3034
lime grey	3034	3040
slate	3040	3095
red rock	3095	3215
sand grey	3215	3335
lime grey	3335	3382
HFW at 3245		
slate white	3382	3384
lime white	3384	3414
slate	3414	3432
lime	3432	3464
sand water	3464	3468
lime grey	3468	3475
red rock	3475	3478
lime grey	3478	3480
slate blue	3480	3518
lime	3518	3528
slate black	3528	3545
lime grey	3545	3553
broken		
slate	3553	3560
lime broken	3560	3572
casing		