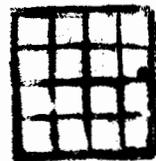


NATIONAL REFG. CO.  
Reinhardt No. 5-D.

SEC. 19 T. 14 R. 14W  
SEc NE

Total Depth. 3289'  
Comm. 3-22-38 Comp. 5-13-38  
Shot or Treated.  
Contractor.  
Issued. 5-21-38

County. - Russell



CASING:  
20 " 21' 8 1/4" 2503'  
15 1/2" 386' 65/8" 3185'  
12 3/8" 542' 53/16" liner 109'  
10 " 867'

Elevation.

Production. Pot. 725 B. Nat.

Figures Indicate Bottom of Formations. No wtr.

shale	10	shale	2288	crystalline lime-froc	
sand	25	lime	2310	oolites and fusulina	3190
shale	205	shale blk	2320	crystalline lime	3200
red rock	210	lime	2330	shale red	3204
shale	280	shale blk	2335	shale green	3211
red rock	290	shale	2405	lime crystalline dense	3232
shy shale	300	lime	2410	shale green	3238
red rock	320	shale	2415	lime dense	3248
sand	345	lime	2440	shale gray	3250
shale	365	shale	2490	lime dense-fossiliferous;	
sand	380	lime	2510	quartz grains; few pieces	
shale	415	shale	2525	of pink lime	3260
sand	430	lime	2555	shale	3263
shale	440	shale & shells	2615	lime dense	3265
sand	480	lime	2625	var.ool.shale & quartz	
shale red	720	SAMPLE LOG		grains (conglomerate)	3278
sand red	730	shale & lime shells	2650	sand--some pyrite	3289
shale red	858	shale grey micaceous	2668	Total Depth.	
anhydrite	900	lime fossiliferous	2683	Top Anhydrite	858
red rock	1060	shale grey micaceous	2690	Top Lansing	3026
shale	1100	lime fossiliferous	2700	Top Gorham	3278
red rock	1155	shale grey micaceous	2710		
shale	1250	lime fossiliferous	2715		
salt	1540	shale grey	2733	HFW 320-45	
lime	1575	lime gray dense	2745	HFW 415-30	
shale	1580	shale gray	2760	HFW 440-80	
lime	1590	granular lime, fusu-		9 BW 720-30	
shale	1595	lina	2820	Show gas	1810
lime	1605	lime white	2860	Show gas	2420
shale	1620	lime grey fossilif	2870	lno in gas	2430-40
lime	1635	shale blk	2875	Show oil	2615-25
shale	1640	lime grey fossilif.	2885	Oil saturation	2735
lime	1645	shale grey micaceous	2890	1 1/2 BW	2930
red rock	1650	lime grey fossiliferous		Oil stain	3026-30
lime	1695	containing drk grey		Sm oil stain	3062-66
shale	1730	chert	2923	Oil stain	3090-95
lime	1760	lime granular lgt	2958	Oil stain	3115-20
shale	1765	shale micaceous green-		1 1/2 BW	3125
red rock	1770	grey	2960	2 B.O.P.H.	3176-78
lime	1840	shale blk	2965	800' oil in hole	24 H.
shale	1850	lime grey	2972	Sm sh oil & gas	3249-54
lime	1900	shale grey micaceous	2985	Oil	3287-89
shale	1915	lime wh crystalline	2995		
red rock	1920	shale grey micaceous	3008	950' 3 Hrs.	
lime	1980	lime white	3005	1600' 12 Hrs.	
shale	1990	shale maroon	3008	2600' 24 Hrs.	
lime	2045	shale green & grey	3026	No wtr.	
red rock	2055	lime	3037		
brkn limo	2080	shaly lime sft	3042	2000 Gals at T.D.	3182
shale	2090	shale green	3044	Poten	950
lime	2110	lime	3046	Pumping test showed	25 B.P.
red rock	2130	shale granular	3048	Day at end 6 days.	Deepened
lime	2165	cherty lime	3062	to Gorham expecting to plug	
shale	2190	oolitic lime	3066	back to 3182 if dry in lower	formations.
red rock	2195	lime lgt	3090		
brkn limo	2225	shale gray	3092		
lime	2250	cherty lime	3110		
shale	2255	lime	3168		
lime	2265	shale drk	3170		
shale	2270	oolitic limo	3180		
lime	2280	lime	3182		