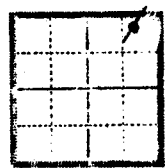


*Plotted
L.S.*

UNION NATIONAL BANK BLDG, WICHITA, KANSAS

Location **NW NE NE**

Casing Record
 20" 53 10" 1778 Farm Kruse No. 1 County Rocks
 15 1/2" 479 8 1/2" 2317 Company The Derby Oil Co.
 12 1/2" 1098 65/8" 2880 Contractor
 12 1/2" 1098 53/16" 3075 Commenced 7-17-27. Completed 1-23-28
 Total Depth 3425 Shot Quarts Between
 Correspondence Regarding This Well Should Be Referred to



Figures Indicate Bottom of Formations.

Elevation **1927**
 Initial Production Dry

Date Issued. **6-1-29 DEEPENING RECORD.**

Formation	Depth	Formation	Depth	Formation	Depth
surface	24	lime	1845	blue shale	2715
yellow slate	30	brown shale	1880	red rock	2720
white slate	40	lime shells	1925	lime	2740
blue shale	335	lime	1950	blue shale	2775
gray shale	345	white shale	1970	brown shale	2780
sandy lime 4 BW	355	lime	1995	lime	2785
blue shale	365	brown shale	2015	blue shale	2805
lime shells	380	lime	2030	lime	2825
red rock	385	pink shale	2050	brown lime	2830
water sand 8 BW	400	brown shale	2065	Free oil 2825-30'	
gray shale	425	lime	2075	gray lime	2905
red rock	440	brown shale	2100	Showing of oil 2880-85'	
blue shale	445	lime	2110	brown lime	2910
water sand HFW	485	brown shale	2130	blue shale	2915
lime	490	lime	2135	shut down at 2930 in lime	
red rock	515	brown shale	2150	lime	2945
blue shale	540	lime	2160	white shale	2950
red rock	555	brown shale	2170	lime	2980
blue shale	560	lime	2175	lime shells	3025
sandy shale 5 BW	600	brown shale	2180	Oil show SLM	3003'
water sand HFW	605	sand	2185	blue slate	3041
blue shale	608	lime	2190	C. M. 3007'	
sandy shale	615	brown shale	2225	red rock	3042
water sand HFW	625	water sand HFW	2230	Dodge lime	3054
blue shale	660	broken lime	2250	slate blue	3058
water sand HFW	680	Oil show 2232-40'		red rock	3062
lime	695	black shale	2255	lime	3063
water sand	745	lime	2260	slate blue	3064
red sand	858	blue shale	2265	lime white	3066
water sand	875	lime	2290	shale blue	3075
red rock sandy	965	blue shale	2295	Oswald lime Oil	3116
red rock	1090	brown shale	2305	SLM 3075'	
lime	1125	lime 2 BW	2310	slate blue cave	3123
red rock	1150	blue shale	2315	C. M. 3075'	
brown shale	1225	lime	2320	lime	3157
blue shale	1235	white shale	2335	Oil 3123-25'	
brown shale	1360	lime	2375	slate Cave	3162
blue shale	1450	blue shale	2378	lime	3167
salt	1500	lime	2395		
lime	1560	blue shale	2415	Plugged back to 3134' &	
blue shale	1575	lime	2430	shot with 80 quarts.	
lime	1600	broken lime	2445		
broken lime	1610	blue shale	2485	Shot 3182-3113	60 Qts.
blue shale	1615	lime	2495	Shot 3124-3132	20 Qts.
broken lime	1660	blue shale	2505		
gray shale	1665	lime	2535	OVER	
lime	1675	blue shale	2540		
brown shale	1700	lime	2545		
blue shale	1730	blue shale	2555		
lime	1740	lime	2560		
blue shale	1745	blue shale	2585		
red rock	1750	black shale	2595		
lime	1755	lime	2625		
red rock	1765	blue shale	2645		
blue shale	1775	brown lime	2650		
lime	1790	white lime	2670		
broken lime	1800	blue shale	2675		
pink shale	1825	lime	2683		
lime	1830	blue shale	2690		
blue shale	1835	lime	2705		

*3425
1927
1496*

NWcNE NE 3-10-16West.
Kruse #1.

70901

Formation	Depth.
lime grey	3175
lime grey	3178
lime grey	3215
slate blue	3220
lime white	3230
lime grey	3245
red rock	3246
Cavey hole.	
lime white	3258
shale	3260
lime white	3262
slate blue	3265
lime white	3285
slate blue	3288
lime white	3295
slate blue	3293
lime white	3305
shale blue	3308
lime white	3310
slate blue	3320
lime white	3325
red rock	3333
lime white	3337 Cave
red rock	3340
cemented cave 3340	
lime white	3345
red rock	3350
lime white	3360
slate blue	3365
lime white	3370
lime sdy white	3385
lime white	3393 cave
green shale	3395
cemented cave at 3400' with 50 sacks of cement.	
lime	3400
red rock	3402
shells and brakes	3408
lime white	3415
slate brown	3420
lime white	3425
Total Depth.	

Company Darby Oil Co.

Sec. 3 T. 10 R. 16W
Loc. NW NE NE

Farm Kruse

No. 1

Total Depth 3167

Comm. 7-19-27

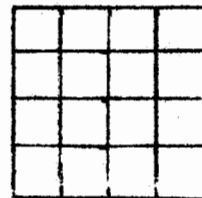
Shot or Treated

Contractor

Issued

Comp. 1-25-28

County Rocks



By R. Roth

Casing

20 in.

15 1/2

12 1/2

13 3/8

10 in.

8 1/4

6 5/8

5 3/16

Elevation

Production 50 Bbls.

Figures Indicate Bottom of Formation

Pennsylvanian

Shawnee *- 2490 - 2645*

2490-2505

Gray shale, some drab shale, and some lime.

2505-2515

Buff pink lime.

Triticites cullomensis.

2515-2525

Gray shale.

2525-2530

Gray marl.

2530-2535

Gray shale.

2535-2545

Gray and brown grits.

2545-2555

Gray shale and micaceous grits.

2555-2562

Gray marl.

2562-2570

Gray shale, and micaceous grits.

2570-2595

Black shale.

2595-2605

Gray lime.

2605-2610

Black shale with dark brown shale.

2610-2620

Buff lime.

2620-2625

Micaceous sandy grits.

2625-2645

Dark gray shale.

Deer Creek *2645 - 2680*

2645-2665

Gray buff lime.

Triticites veedei & cullomensis

2665-2680

Brown and black shale.

Lansing *2680 - 2687*

2680-2687

Lime and dark gray shale.

Kansas City *2687 - 2925*

2925-2930

Gray green shale and some dense lime.

2930-2940

Buff lime, some chert at top.

2940-2965

Buff lime with some green grits. Triticites cullomensis

Seculicus.

Figures Indicate Bottom of Formation

2965-2970	Buff lime and black shale.	
2970-2990	Lime and some dark chert.	
2990-3020	Quite brown lime.	
	<u>Marmaton</u> 3020-3030	
3020-3030	Gray green shale.	
3030-3040	Gray and brown shale.	
3040-3050	Buff cherty lime.	<u>Fusulinella</u> -sp.
3050-3060	Gray green shale.	
	<u>Cherokee</u> 3060-3167	
3060-3070	Brown shale and gray gritty lime.	<u>Fusulinella girtyi</u>
3070-3095	Buff lime.	
3095-3100	Maroon shale.	
3100-3115	Crystalline buff lime.	<u>Fusulinella meeki</u>
3115-3120	Dark brown shale.	
3120-3130	Lime.	
3130-3143	Maroon and dark gray green shale, some coal, and granular dark gray lime with some chert.	
3143-3167	Buff lime, gray and maroon shale, and a little chert.	