

Location NE NW SW

DEEPENING RECORD

Sec. 32 T. 11 R. 15W.

Casing Record

County- Russell.

10" 1401 Farm- Dodge No. 4
 20" 8" 2300 Company- The Derby Oil Co.
 15" 488 65/8" 2809 Contr.- Streeter & Stearns
 12" 803 53/16" Comm.- 6/18/26 Comp.- 8/31/26
 Total Depth 3183' PB 3155' Shot Quarts Between
 Correspondence Regarding This Well Should Be Referred to



Elevation 1777

Figures Indicate Bottom of Formations.

Initial Production 120 bbl.s

Date Issued. 10-17-42

Formation	Depth	Formation	Depth	Formation	Depth
sand	15	shale drk sft	1590	slate blue sft	2535
slate black sft	68	lime white hrd	1600	lime white hrd	2554
slate blue sft	98	shale drk sft	1610	slate blue sft	2568
sand	110	red rock sft	1642	lime	2571
shale white	140	lime white hrd	1662	lime gray hrd	2585
shale pink	165	slate gray sft	1670	lime blue hrd	2610
shale yellow sft	200	lime white hrd	1718	Show oil 2595'	
slate blue sft	235	slate blue med.	1725	Corrected Steel line	
1 1/2" BW at 210'		lime white hrd	1760	Measurement	2596'
sand brown	245	slate blue sft	1780	lime blue hrd	2625
12" BW at 235-245'		lime brown hrd	1798	Show oil 2625-2630'	
red rock sft	265	slate blue med. hrd	1818	lime gray hrd	2665
gray sand	290	lime gray hrd	1840	sandy lime	2678
slate gray sft	300	slate brown sft	1848	lime white hrd	2700
HFV 295'		red rock	1858	shale blue sft	2705
Run 15" csg. at 300'		lime gray hrd	1870	lime gray hrd	2751
shale red sft	310	slate light sft	1885	brkn lime &	
shale white sft	315	lime gray hrd	1892	shale	2789
sand white	320	slate blue sft	1900	lime gray hrd	2805
HFV 315-320'		lime gray hrd	1912	Run 6 5/8" at 2809	
lime white hrd	330	red rock sft	1937	shale blue sft	2813
slate gray sft	338	lime gray hrd	1946	lime gray hrd	2817
slate blue sft	365	red rock sft	1990	Dodge Pay	
slate gray sft	375	lime gray hrd	2005	Dodge lime	2827
sand brown	385	slate blue sft	2010	blue slate	2831
slate blue sft	400	red rock sft	2020	?	2834
blue mud sft	422	slate blue sft	2025	brown slate	2839
sand gray	453	Bad cave		blue slate	2845
shale blue sft	462	lime white hrd	2050	lime (Oswald line)	2851
lime	465	slate sft	2070	lime wtr	2880
Underreaming 15 1/2"		Run 8" at 2066'		Swabbing 7 bbls. per hr.	
red rock sft	488	lime white hrd	2083	Total Depth	2880'
HFV 488'		slate blue sft	2100		
sand	500	lime white hrd	2115		
red rock	595	slate	2122		
lime white hrd	610	lime	2135		
red rock sft	780	slate	2190		
lime white hrd	785	lime	2195		
red rock	799	slate gray sft	2250		
lime white hrd	800	Hole caving			
sand hrd	805	slate blue sft	2285		
12" set at 803'		lime white hrd	2287		
lime white hrd	840	slate gray sft	2358		
red rock sft	945	Water 2290-2295'			
slate white sft	1000	shale blue	2363		
red rock sft	1070	8" underreamed to 2300'			
slate gray sft	1136	lime white hrd	2370		
salt	1374	sandy slate 4 BW	2380		
slate	1405	sand drk 2 BW	2388		
10" set at 1401'		black slate	2403		
lime white hrd	1413	HF 2390'			
lime shells & shale	1440	lime gray	2407		
lime white hrd	1465	slate blue	2413		
slate	1475	lime gray hrd	2423		
lime	1490	slate blue cave	2432		
shale	1500	lime gray hrd	2462		
lime	1515	slate blue sft	2474		
red rock sft	1530	Cave			
lime white hrd	1548	lime gray hrd	2495		
slate blue sft	1555	shale light	2500		
lime white hrd	1565	brkn lime	2515		
red rock sft	1580	sandy shale 2 BWPH	2525		

DEEPENING RECORD

Old T.D. 2880
 lime gray hard 2880-83
 lime mod 2889
 chat white 2906
 lime white hard 2919
 P.P. 2888

(OVER)

DEEPENING RECORD

C.A.Dodge #4 NE NW SW of Sec.32-11-15W, Russell County

Pot.130 B. & 55 BW

Comm.6-17-42 Comp. 8-24-42

Old T.D. 2910, PB 2888

lime	2910-53
iron, shale, lime	2959
lime	3000
shale & lime	3011
lime	3020
shale & red rock	3025
lime	3050
lime & shale	3063
shale	3060
lime	3109
lime brkn	3118
lime	3120
red rock	3123
lime	3138
conglomerate & shale	3145
?	3150
lime & shale	3151
conglomerate	3159
sand	3161
granite wash	3189
Total Depth.	

Plugged back 3155

sh oil (?) 2945-53
 increase (?) oil 2985-88
 oil & gas (?) 3035-38
 4 BO & $\frac{1}{2}$ BW 3062-67
 250' fluid in hole 3081
 increase (?) oil 3110-14

5 $\frac{1}{2}$ " liner 2720 to 3159
 Perforated 3114-18 24 shots
 2000 Acid Est.5-6 BOPH
 Perforated 3060-68 36 shots
 Tried to fill hole w/oil, but
 fluid went thru perforations
 3114-18

Squeezed off all perforations
 Perforated 3060-66 24 shots
 2000 Acid no test
 Perforated 3114-18 24 shots
 Perforated 2942-52 36 shots
 2000 Acid 2942-52

Put on pmp. - Pmp 68 BO -
 75 wtr - 18 hrs
 After 7 days pmpd 130 BO -
 55 wtr - 24 hrs

Sample information:
 2940-45 saturation in part
 3062-65 fair to good saturation
 3114-18 little saturation
 3150-51 little saturation
 3163 $\frac{1}{2}$ asphaltic residue
 conglomerate 3144
 granite wash 3157

E. A. Koester
Derby Oil Co.
Conf.

SAMPLE RECORD

State Kansas Co. Russell Farm Dodge No. 4 Sec. 32 Twp. 11 Rge. 15W.

Location NE NW SW

Company Derby Oil Company Date Drilled _____

Elevation _____ Total Depth _____

- 2360-2370 Light gray xtalline limestone; some dark gray shale.
2370-2380 Black, laminated, micaceous shale, 70%; gray xtalline limestone; pyrite embedded in the shale and as granules; pyritized gastropods; other fossils; abundant crinoid plates.
2380-2390 Black, carbonaceous, laminated shale, with considerable fine (pass 100-mesh screen) quartz sand.
2390-2400 Black, carbonaceous, laminated shale; a little limestone.
2400-2410 Black, carbonaceous, laminated shale; considerable coal; pyrite; a little white xtalline limestone.
2410-2420 Fine, white limestone; very little shale.
2420-2430 Gray laminated shale; a little white dolomite.
2430-2440 Dark gray, laminated, micacrous shale, pyritiferous; gray and white limestone.
2440-2450 Same as above, but fossiliferous; smaller amount of lime.
2450-2460 Same; several brachiopod fragments; forams.
2460-2470 Gray, and brown, laminated shale; a little white lime.
2470-2480 Gray, and reddish-gray, laminated shale; white limestone, with abundant crinoid stem segments, 2-3 mm. diameter.
2480-2490 Reddish-gray and brownish-gray, laminated, micaceous shale; coarse white limestone; coral fragment.
2490-2520 Gray, laminated, micaceous shale and white, fine, micaceous, calcareous sandstone.
2520-2540 Gray, laminated, micaceous shale.
2540-2550 White, sugary, coarse, dolomitic limestone; some gray shale.
2550-2595 Missing
2595-2605 Buff and white, cherty, limestone; small amount of gray shale.
2605-2615 Gray calcareous shale; some red shale; some black shale; a little fine limestone.
2615-2625 White limestone and gray shale.
2805-2810 Gray, fissile shale.
2810-2815 Gray and white translucent xtalline limestone, with fine white chert.
2815-2825 Gray and xtalline, cherty limestone; gray shale.
2825-2830 Gray shale; gray and buff limestone.
2830-2835 Gray-red shale.
2835-2845 Reddish-gray and gray shale.
2845-2851 Top of Lansing-Kansas City. Gray and buff cryptocrystalline limestone.

4 Dodge, 32-11-15w. (Cont'd).

- 2625-2635 Gray crystalline limestone and gray shale.
2635-2655 Light gray to buff, crystalline, cherty, abundantly foraminiferal limestone; a little gray shale.
2655-2675 Same; with black shale; less fossiliferous.
2675-2685 Light gray to buff, some brown (oil-stained?), crystalline limestone; gray shale.
2685-2705 Gray clay-shale; light gray crystalline limestone.
2705-2725 Gray and black clay-shale; gray limestone.
2725-2745 White, finely crystalline, limestone, with abundant small foraminifera; some gray to black shale.
2745-2775 Oil-stained, cherty, crystalline limestone, with large procelanious foraminifera, and a trace of coarse to medium, rounded, quartz sand; some shale.
2775-2785 Oil-stained crystalline limestone; trace chert; some gray micaceous, laminated shale.
2785-2795 Oil stained, crystalline limestone; gray, micaceous, laminated shale; some foraminifera.
2795-2805 White and light gray limestone; trace of chert; gray laminated, micaceous, shale.