

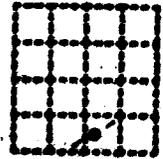
3-19-13
 Plotted.

W.O. ALLEN
 Benjamin No. 1.

SEC. 3 T. 19 R. 13W
 CWL SW SE

Total Depth. 3485
 Comm. 11-23-40 Comp. 12-13-40
 Shot or Treated.
 Contractor.
 Issued. 12-28-40

County Barton.



CASING.

10" 390' surface pipe.

Elevation.

Production. DRY.

Figures Indicate Bottom of Formations.

sdv red shale, trace brown grey lime	400	rod shale, grey shale, some Anhyd.	1540
sdv red shale, trace brown grey lime and		rod & grey shale, little lime	
trace pyrite	410	Anhydrite	1550
sdv red shale trace green shale and		anhydrite grey shale	1560
pyrite	420	anhydrite, some grey shale	1630
sdv red shale and pyrite	430	grey shale and anhydrite	1640
red shale	440	anhydrite, shale trace gypsum	1650
red shale rod sdv shale	460	anhydrite and grey shale	1660
rod shale	470	calcareous grey shale, some grey	
red shale sdv red shale	490	lime	1670
red shale	560	calcareous grey shale	1720
rod shale and some sdv shale	580	calcareous grey shale, little	
sdv rod shale	610	grey lime	1730
sdv rod shale and red sand	620	calcareous grey shale	1760
rod sdv shale and sand	630	silty calcareous grey shale	1790
sdv rod shale some sand	640	sdv grey and light brown lime,	
sdv rod shale trace siderite	650	grey shale	1810
rod sand rod shale, trace siderite	660	silty rod shale, grey and brown lime	
rod sand and red shale	680	grey shale	1820
rod sand rod shale, trace grey lime,		silty rod shale, grey shale and	
pyrite siderite	690	sdv lime	1830
rod sand and red shale, trace grey sand		shale grey, light brown lime	1840
grey lime	700	coarsely crystalline sdv mottled grey	
rod sand and shale	750	brown lime grey shale	1850
rod sand and shale grey	760	coarsely crystalline, mottled grey	
rod sand and shale	770	brown lime	1860
rod shale and anhydrite	780	lime some grey shale, little red	
anhydrite	800	shale	1870
anhydrite rod shale some grey shale	810	sdv wh to grey lime, grey shale	1880
rod shale fine sand	830	sdv grey and light brown lime, some	
rod shale	850	grey shale	1890
rod and grey shale	870	sdv lime, grey shale	1900
rod shale grey shale	890	lime white to grey	1910
rod shale and grey shale	950	shale grey and lime	1920
rod shale grey shale trace fine sand	990	sdv lime and grey shale	1930
shale red and grey	1010	shale grey and wh lime chert	1940
shale red, some sand grey shale	1040	lime white and grey, grey shale	1960
shale grey anhydrite	1050	lime grey, grey shale, trace red	
shale grey	1070	shale	1970
shale grey	1090	lime and shale	1980
shale grey, little grey lime	1100	lime light brown, grey shale, little	
shale grey, some red shale	1110	green & red shale	1990
grey shale, rod shale fine sand and		grey shale, lime trace chert	2000
trace lime	1120	grey shale, some lime	2010
shale grey and red	1150	grey shale, lime	2020
shale green grey, white to grey lime	1160	lime grey shale, trace green shale	2030
shale grey green, little rod shale	1180	sdv grey and brown lime, little calc,	
shale green grey	1190	grey shale	2040
shale grey, white to grey dolomite lime	1200	sdv grey line, grey shale	2050
shale grey, lime some red shale	1210	sdv grey line, some grey shale, some	
shale rod and grey, dol. lime, some fine		red shale	2060
to mod grain sand with dark heavy oil		sdv and fossiliferous light brown to	
stain, few small pieces dol. with		grey lime, red and grey shale	2070
oil stain	1220	lime, grey shale	2090
lime and grey shale trace stain	1230	grey lime, little grey and red shale	2100
shale rod and grey	1240	lime white, grey shale, trace chert	2110
salt, some grey shale	1507	lime white, grey shale	2120
shale grey	1510	lime white, little chert	2130
anhydrite, grey and rod shale	1520	shale grey, lime	2140
sdv grey dolomite lime, grey and rod		fossiliferous wh lime some grey	
shale	1530	shale	2150

OVER

W.O.Allen. Benjamin No. 1.	3-19-13W. Barton County	107596
Foss. lime and grey shale	2160	shale blk, little red shale, lime
lime light grey, shale grey	2180	some chert 2960
lime grey, shale grey, little red shale	2190	grey micaceous shale, little granular white lime 2970
shale grey, lime light brown and grey	2200	granular, foss. soft light grey to white lime, considerable white
shale red and grey shale little lime	2210	chert, grey micaceous shale, white
lime, grey shale	2220	oolitic lime 2980
lime grey, shale grey, trace chert	2230	Buff to dark grey lime, some red and
lime white and grey, grey shale	2240	blk shale, little chert 2990
shale grey, with a little grey lime	2270	mod, crystalline, buff to dark grey
shale grey, red shale and grey lime	2280	lime, little rotten wh lime and
shale red, shale grey and lime	2290	little shale 3000
shale grey, little lime	2300	red shale, dense grey lime 3010
shale grey, some grey lime	2310	grey granular, somewhat foss lime,
shale grey, some grey lime and trace red and green shale	2320	blk shale, trace tan lime 3020
lime white and shale grey	2360	lime calcite crystals, little shale 3030
shale grey, wh and grey Foss. lime	2380	dense grey lime, grey micaceous shale trace chert 3040
shale grey, lime and some red shale	2400	grey micaceous shale, soft light grey
shale grey, little lime	2410	lime, red shale 3050
shale grey and some lime	2420	soft oolitic lime, porous, no stain,
shale	2430	calcite crystals, little chert 3060
shale, some lime	2440	oolitic lime soft lithographic
shale grey	2450	white lime 3070
shale grey, some red shale, trace green shale, little lime	2460	lime white chert 3080
shale grey and white lime	2470	Buff to grey dense lime, some white sft
varicolored shale and lime	2490	lime, little red and green shale, trace blk chert 3090
shale grey, little green shale	2500	Buff, to grey dense lime, trace
shale grey, some lime	2510	red shale 3100
Varicolored shale	2520	red and grey shale granular grey
shale grey, sdy grey lime	2530	lime 3110
shale grey, pyrite, trace lime	2540	dense, to granular grey lime chert 3120
shale grey, some red shale	2550	soft white chalky lime and grey
shale grey	2560	dense lime chert 3130
varicolored shale	2570	shale blk, red shale, white granular
donso fossiliferous white and light brown lime, some shale	2580	soft lime 3140
shale grey, red shale and lime	2590	lime grey crystalline lime grey chert 3150
shale grey and lime	2600	lime and grey shale 3160
shale grey, little sdy lime	2610	grey silty micaceous shale some lime 3170
shale red and grey	2620	grey silty micaceous shale 3180
shale grey, some red shale, some sdy lime	2630	grey silty micaceous shale, dense brittle brown lime 3190
dense white lime, grey shale	2640	denso brittle brown lime, rotten
shale grey, white lime	2650	micaceous green grey shale 3200
shale grey	2660	shale red 3205
shale grey, sdy lime	2670	lime grey dense, little sft wh lime 3210
shale grey, little lime	2680	lime soft wh, oil stain 3215
shale grey, red shale, dense white to light brown lime	2690	hard dense to soft wh lime, oil stain, (stronger) little porosity 3220
shale grey, red shale, some brown lime	2710	lime wh, oil sat, little porosity 3225
dense grey to grey brown lime and grey shale	2720	lime white 3230
shale grey	2730	lime white, little shale 3235
shale grey, some sdy grey shale, little brown foss. lime	2740	lime white 3250
grey shale, foss. lime brown	2760	porous white lime, dark brown heavy oil stain 3253
shale grey, some red shale	2770	lime light grey 3260
speckled granular grey lime, grey shale	2780	lime grey to grey brown lime med, crystalline to dense 3265
shale grey, white lime	2790	lime grey brown, silty micaceous grey shale 3270
grey buff granular lime, grey shale	2800	lime grey brown, some tight oolitic
shale grey, grey lime	2810	some slightly rotten white lime with dead oil stain 3275
silky grey micaceous shale, grey buff granular lime	2820	lime some dense grey lime, slight blk oil stain 3280
Massive buff grey lime	2830	lime white to grey soft to dense 3285
Massive buff grey lime, little grey micaceous shale	2840	lime grey dense 3290
shale grey, buff lime	2850	lime white to grey, dense to med crystalline 3295
light brownish grey dense lime	2880	denso to med crystalline grey to brown lime, trace oolitic lime
lime, little grey chert, (Doer Creek)	2890	lime spotted oil stain 3300
lime	2900	lime light brown granular oolitic lime
lime (fusulined)	2910	slight stain 3305
dark calc. shale some lime	2920	granular oolitic lime, light
soft light grey lime, little shale	2930	brown 3320
soft light grey lime, little blue grey chert	2950	

W.O.Allen No. 1 Benjamin
3-19-13W. Barton county, Kansas.

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grey to brown grey dense lime some
granular some oolitic 3325
dense grey to dull brown lime 3330
dense lime, grey to grey brown to dark
brown chert 3335
dense to med crystalline grey to grey
brown lime, grey shale, some
red shale 3340
dense grey to brown lime, some med,
crystalline, slight dark stain 3345
dense grey to brown lime, some granular
oolitic lime, dead oil stain 3350
dense and oolitic grey and brown lime 3355
dense grey and brown lime 3380
green shale, brown lime 3385
shale green 3390
shale brown 3395
shale brown, dense brown lime 3400
lime dense brown 3415
lime dense brown, little chert 3420
lime dense brown 3425
lime hard dense brown 3430
lime dense brown, grey shale 3435
red shale and chert, conglomerate 3445
red shale and chert, conglomerate and
oolitic brown chert 3450
cherty brown dolomitic lime 3452
Cored 3452-3469
1st. core - 3452-57. Rec. 50%. Broken,
fractured grey lime and dolomite, oil saturation
in fractures and in few very thin porous
streaks
2nd core - 3457-69. Recovered 50%. Hard grey lime
and dolomite, streaks green shale, oil stains and
shows in fractures in dolomite
hard dense brown dolomitic lime 3475
hard dense brown dolomitic lime, slight
porosity oil stain 3480
hard dense brown dolomitic lime 3485

Total Depth.

TOPS

Arhydrite	778
salt	1240
Fort Riley lime	1830
Florence chert	1930
Topeka lime	2850
Brown lime	3187
Lansing	3205
Top Porous zone	3297. porous
	to 3307
Conglomerate	3434
Arbucklo	3449