

DRILLING LOG

REPUBLIC NATURAL GAS COMPANY

Lease Harzman
Well No. 4County Barton
Sec. 33 Twp. 16S Rge. 11W
Location C NE SW SW
ElevationTotal Depth 3335'-6"
Comm. 8-16-42 Comp. 10-14-42~~Shooker~~ Treated Arbuckle & Kansas City CASING:Contractor Alwyard
Rotary T. D.
Cable Tools From To

Figures Indicate Bottom of Formations:

25	260	Blue shale and red rock	3195	3235	Lime
260	280	Red and blue shale	3235	3247	Soft lime
280	300	Shale and shells	3247	3260	Lime
300	540	Shell and shale	3260	3275	Broken lime
540	760	Shale and red rock	3275	3315	Broken lime
760	780	Anhydrite	3315	3337	Broken lime
780	815	Shale	3331	3339	T.D. Rot. Bushing
815	1150	Shale			
1150	1350	Salt			
1350	1460	Salt and red bed			
1460	1510	Lime and shale			
1510	1565	Shale			
1565	1755	Shale and shells			
1755	1775	Shale and shells			
1775	1800	Shale and shells			
1875	1930	Lime			
1930	1970	Broken lime			
1970	2110	Shale and lime			
2110	2245	Shale and shells			
2245	2300	Shale and shells			
2300	2375	Shale and shells			
2375	2400	Broken lime			
2400	2530	Shale and shells			
2530	2650	Shells and shale			
2650	2750	Shale and lime			
2750	2830	Lime and shale breaks			
2830	2905	Broken lime			
2905	2965	Broken lime			
2965	3045	Broken lime and shale breaks			
3045	3080	Shale and shells			
3080	3100	Kansas City lime			
3138	3175	Saturation good			
3175	3195	Lime			

(SEE OVER FOR CORING RECORD)

PLUGGING

FILE SEC 33 T 16 R 11W

BOOK PAGE 53 LINE 29

APR 12 1948

REPUBLIC NATURAL GAS COMPANY
Ellinwood Kansas, Nov. 15, 1942
DETAILED RECORD ON DEEPENING, PLUGGING BACK, SQUEEZING
CEMENTING, PERFORATING, ETC.

RECORD OF PLUGGING REPUBLIC NATURAL GAS COMPANY, HARZMAN #1
C NE $\frac{1}{4}$ SW $\frac{1}{4}$ 33-16S - 11 W Barton County Kansas.

Well cemented with 20 sacks of cement at 2925'

Casing cut and recovered from 2689'.

Filled hole with mud from 2925' to 350' and placed 10 sacks
of cement from 350' to 320'. Filled hole with mud from 320'
to 26' and placed 5 sacks of cement in the 8-5/8" O.D.
Casing from 26' to the cellar.

This well was drilled to a total depth of 3335'
5 $\frac{1}{2}$ " O.D. Casing set at 3332'.
8-5/8" Surface casing set at 285'.

Contractor used in pulling casing and cementing well
General Oil Tools Company
Hutchinson Kansas.

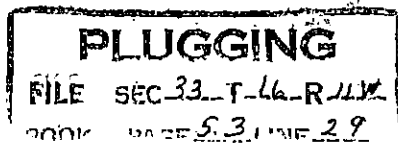
State Supervisor of Plugging Job:

Mr. C.T. Alexander,
Great Bend Kansas.

Representative for Owner,

M.E. Tolleson
Ellinwood Kansas

M/E Tolleson



NOV 17 1942