



MIDWEST SURVEYS

LOGGING - PERFORATING - CONSULTING SERVICES

P.O. Box 68, Osawatomie, KS 66064

913 / 755 - 2128

GAMMA RAY / NEUTRON / CCL

File No.

API # 15-121-28,948

Company Central States Energy, LLC.

Well Criswell No.- 21

Field Louisburg

County Miami State Kansas

Location 1420' FNL & 3135' FWL
NE-NW-SW-NE

Other Services

Perforate

Sec. 34 Twp. 16s Rge. 25e

Elevation

Permanent Datum GL Elevation NA

Log Measured From GL

K.B. NA

D.F. NA

Drilling Measured From GL

G.L. NA

Date	05-10-2012
Run Number	One
Depth Driller	372.0
Depth Logger	340.0
Bottom Logged Interval	339.0
Top Log Interval	20.0
Fluid Level	Full
Type Fluid	Water
Density / Viscosity	NA
Salinity - PPM Cl	NA
Max Recorded Temp	NA
Estimated Cement Top	0.0
Equipment No	104
Location	Osawatomie
Recorded By	Gary Windisch
Witnessed By	Jeff Taylor

BORE-HOLE RECORD

CASING RECORD

RUN	BIT	FROM	TO	SIZE	WGHT	FROM	TO
No							
One	9.875"	0.0	20.0	7.00"		0.0	20.0
Two	5.625"	20.0	372.0	2.875"		0.0	345.0

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule

Comments

Drilling Contractor :
Central States Energy, LLC.

Database File: criswel21.db

Dataset Pathname: pass1

Presentation Format: r1-r-n-ccl

Charted by:

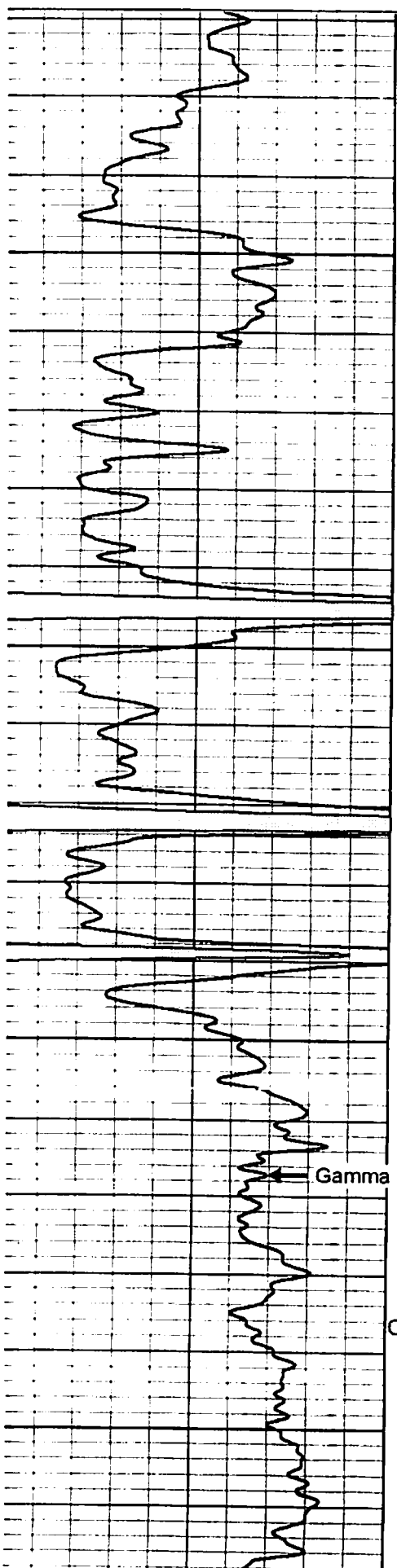
Depth in Feet scaled 1:240

0 Gamma Ray (cps) 150

100

Neutron (cps)

1800



50

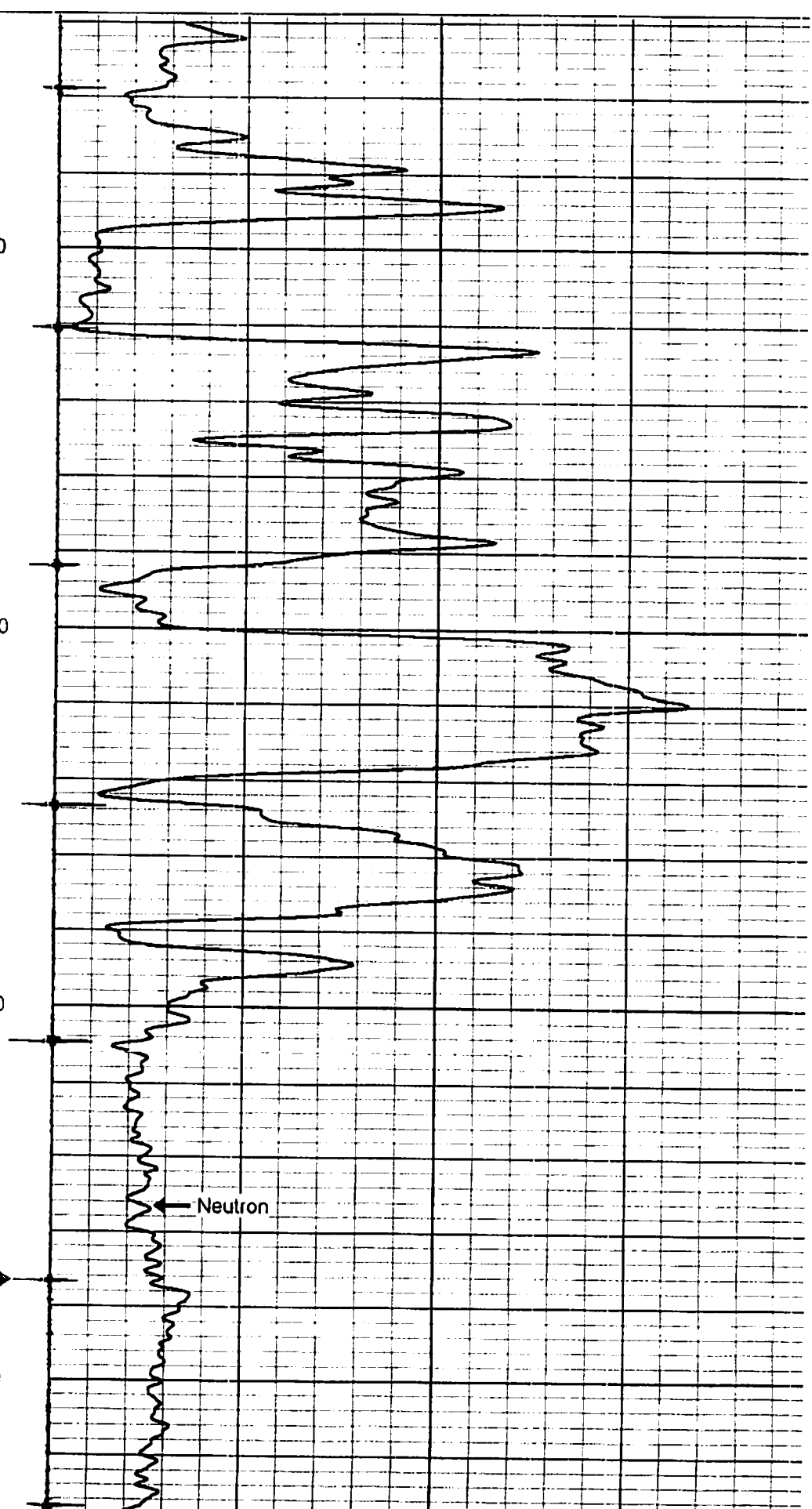
100

150

Gamma Ray

CCL →

200



Neutron

