



MIDWEST SURVEYS

LOGGING - PERFORATING - CONSULTING SERVICES

P.O. Box 68, Osawatomie, KS 66064

913 / 755 - 2128

GAMMA RAY / NEUTRON / CCL

File No.

API # 15-003-25,826

Company **Haas Petroleum, LLC**

Well **Zastrow No. 20-HP**

Field **Garnett Shoestring**

County **Anderson** State **Kansas**

Location

**810' FNL & 750' FWL
NW-SE-NW-NW**

Other Services

Perforate

Sec. **13** Twp. **20s** Rge. **20e**

Elevation

Permanent Datum **GL** Elevation **NA**

Log Measured From **GL**

K.B. **NA**

D.F. **NA**

Drilling Measured From **GL**

G.L. **NA**

Date	07-16-2013				
Run Number	One				
Depth Driller	820.0				
Depth Logger	784.5				
Bottom Logged Interval	783.5				
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.	Location	107	Osawatomie		
Recorded By	Steve Windisch				
Witnessed By	John Haas				

RUN		BORE-HOLE RECORD			CASING RECORD		
No.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
One	9.875"	0.0	20.0	7.00"	17.0 #	0.0	20.0
Two	5.625"	20.0	820.0	2.875"	6.5 #	0.0	788.05

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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 :
Town Oilfield Services, Inc.

Database File: zastrow20hp.db

Dataset Pathname: pass1

Presentation Format: gr-n-ccl

Dataset Creation: Tue Jul 16 11:55:29 2013 by Log SCH 111116

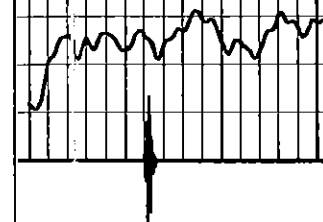
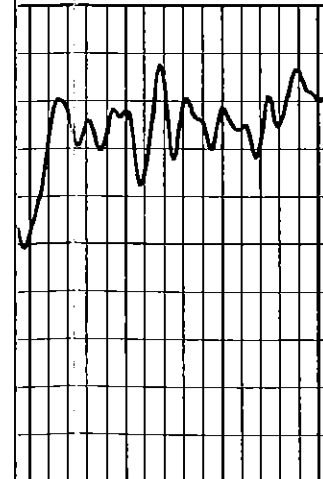
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (cps)	150
150	Gamma Ray (cps)	300

-1 CCL 1
10

Neutron (cps)

2100



50

