



GEOSEARCH LOGGING INC.

Scale 1:1200 (1"=100') Imperial
Measured Depth Log

Well Name: Zogol 2213H
 Location: Marion Co., West Virginia
 License Number: 47-049-02084
 Spud Date: 3/5/2011
 Surface Coordinates: Lat: 39.48549
 Long: -80.34958
 Bottom Hole Coordinates: Lat: 39.486607
 Long: -80.337395
 Ground Elevation (ft): 1,233' K.B. Elevation (ft): 1,248'
 Logged Interval (ft): 3,000' To: 10,462' Total Depth (ft): 10,462'
 Formation: Marcellus
 Type of Drilling Fluid: Air drilling, Oil Based Mud

Region: APPALACHIA
Drilling Completed: 3/23/2011

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: XTO ENERGY
Address: 600 E. Exchange Ave.
Fort Worth, TX 76164


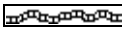
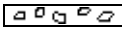
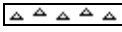
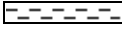


GEOLOGIST






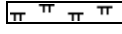

Name: Kelley Hartley & Daniel Blake
Company: Geosearch Logging Inc.,
Address: P.O. Box 6005
Edmond, OK 73083-6005
(405) 340-5545

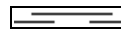






Comments






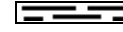
2 Manned Logging Service
Start Logging Date: 3/10/2011
OBM: 3/15/2011
Released Logging Date: 3/23/2011
Drilling Contractor: UDI# 209
PC 194,ML 334,IBall 0096, HASP V15A, H22

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl

 Dol
 Gyp
 Igne
 Lmst
 Meta
 Mrlst
 Salt

 Shale
 Shcol
 Shgy
 Sltst
 Ss
 Till
 Sandstn

 Siltstn
 Granwash
 Dolowash
 Cement
 Granite
 Hotshale

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl



- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral



- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol



- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Poor
- Fair
- Good
- Excelent
- Csgshoe

INTERVALS

- Core
- Dst

EVENTS

- Rft
- Sidewall

