

WR-35
Rev (5-01)
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WELL: 47-5101365

Were core samples taken? Yes / No Were cuttings caught during drilling? Yes / No

Were Electrical Yes / No, Mechanical Yes / No, or Geophysical logs Yes / No recorded on this well?

NOTE: IN THE AREA BELOW PUT THE FOLLOWING:

- 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR PHYSICAL CHANGE, ETC.
- 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

PERFORATED INTERVALS, FRACTURING, OR STIMULATING:

FORMATIONS ENCOUNTERED:

GAMMA RAY /FORMATION TOPS

FORMATION

TOP

BASE

Depths Determined By Drillers Log

Depth	Formation
79	SH SH
265	SD SH LM
358	SD SH LM RR
547	SD SH LI
610	SH SA
660	Pittsburgh Coal
671	SA SH LI
828	SD SH LM
859	SD SH LM RR
952	RR
984	RR SD SH LM
1112	Mahoning Coal
1107	RR SD SH LM
1139	SD SG LM RR
1389	Gas Sand Top
1453	Gas Sand Base
1484	SD SH LM
1485	1st Salt Sand Top
1493	1st Salt Sand Base
1590	2nd Salt Sand Top
1610	SL S SH SS
1642	SA SH
1645	2nd Salt Sand Base
1678	3rd Salt Sand Top
1719	3rd Salt Sand Base
1740	Maxton Top
1743	SA SH RR
1774	SA SH

01/20/2012

1820	Maxton Base
1824	Big Lime Top
1837	SD
1857	Big Injun Top
1900	SA LM
1986	LS TRC SS
2043	Big Injun Base
2080	SS TRC SH
2144	SH SLTST SS
2268	SLTST SS
2331	SLTST SH
2339	Berea Top
2356	Berea Base
2392	Gantz Top
2426	SS SH TRC SLTS
2440	Gantz Base
2458	SS SH
2696	SH SLTST
2758	Gordon Top
2758	SH SIL
2776	Gordon Base
2868	Fifth Top
2899	Fifth Base
3160	SD SH

Formation Prog Tops
Actual Driller Samples

Intermediate Bond Log