

## **APPENDIX 18**

P-WAVE VELOCITY AND TEMPERATURE RELATIONSHIP: EFFECT OF DEPTH,  
CONDUCTIVE VS. CONVECTIVE DOMAINS, AND LITHOLOGY TYPE

## Table of Contents

### Vp-T Relationship: Respect to Depth

Figure 1A. Temperature-Depth-Lithology plots using all well data.....	3
Figure 1B. Temperature-Depth-Lithology plots using selected <sup>1</sup> well data.....	3
Figure 2A. Temperature-Depth-Vp plots using all well data.....	4
Figure 2B. Temperature-Depth-Vp plots using selected <sup>1</sup> well data.....	4
Figure 3. Vp-Depth-Temperature plot using selected <sup>1</sup> well data.....	5

### Vp-T Relationship: Conductive vs. Convective Domains

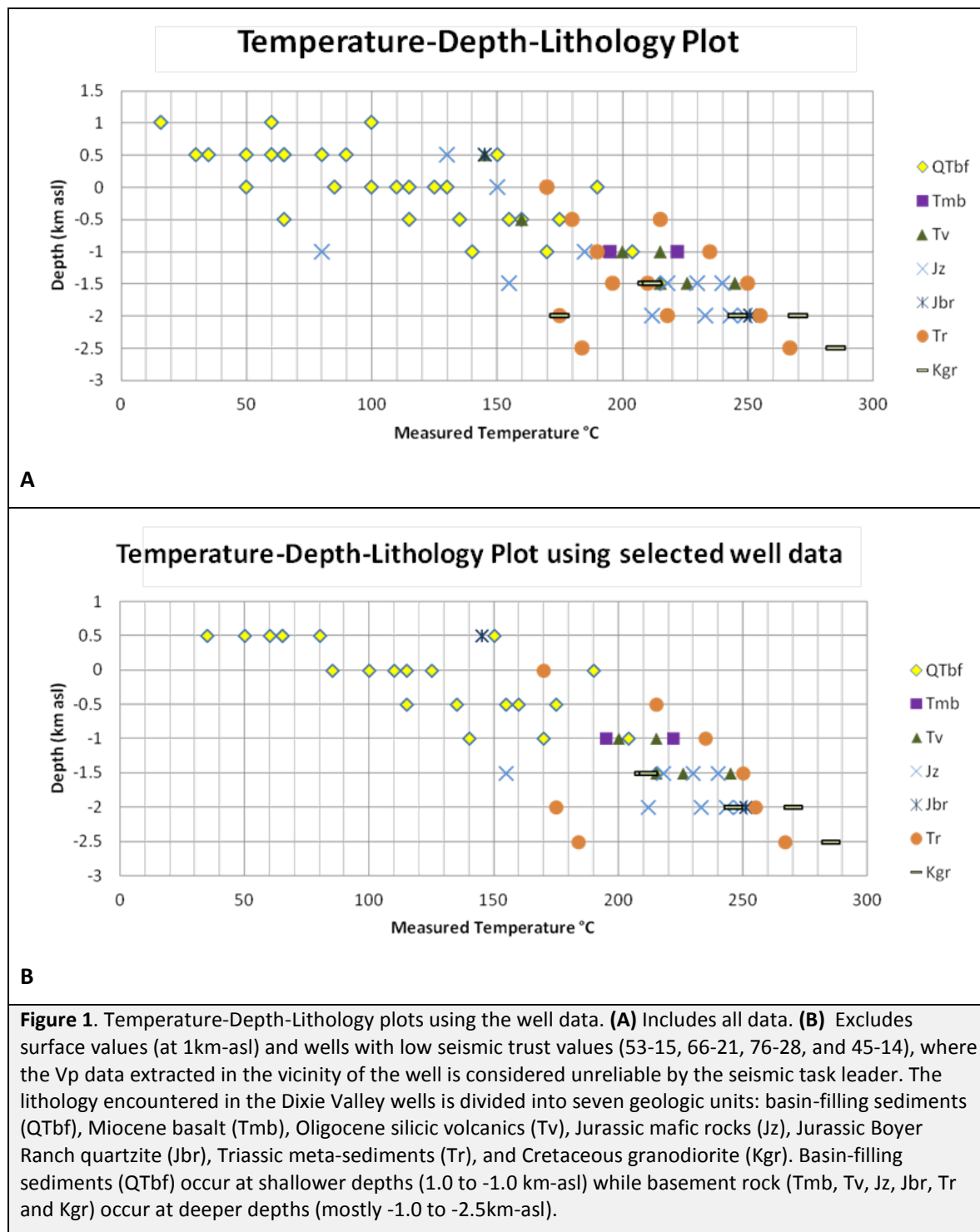
Vp-Depth-Lithology-Temperature: 62-21 vs. 36-14.....	5
Vp-Depth-Lithology-Temperature: 62-21 vs. 38-32.....	6
Vp-Depth-Lithology-Temperature: 62-21 vs. 45-33.....	6
Vp-Depth-Lithology-Temperature: 62-21 vs. 52-18.....	7
Vp-Depth-Lithology-Temperature: 62-21 vs. 76-28.....	7
Vp-Depth-Lithology-Temperature: 62-21 vs. 62-23A .....	8
Vp-Depth-Lithology-Temperature: 62-21 vs. 63-7.....	8
Vp-Depth-Lithology-Temperature: 62-21 vs. 74-7.....	9
Vp-Depth-Lithology-Temperature: 62-21 vs. 82-5.....	9
Vp-Depth-Lithology-Temperature: 62-21 vs. 82-7.....	10
Vp-Depth-Lithology-Temperature: 62-21 vs. SWL-1.....	10
Vp-Depth-Lithology-Temperature: 62-21 vs. SWL-2.....	11
Vp-Depth-Lithology-Temperature: 62-21 vs. SWL-3.....	11

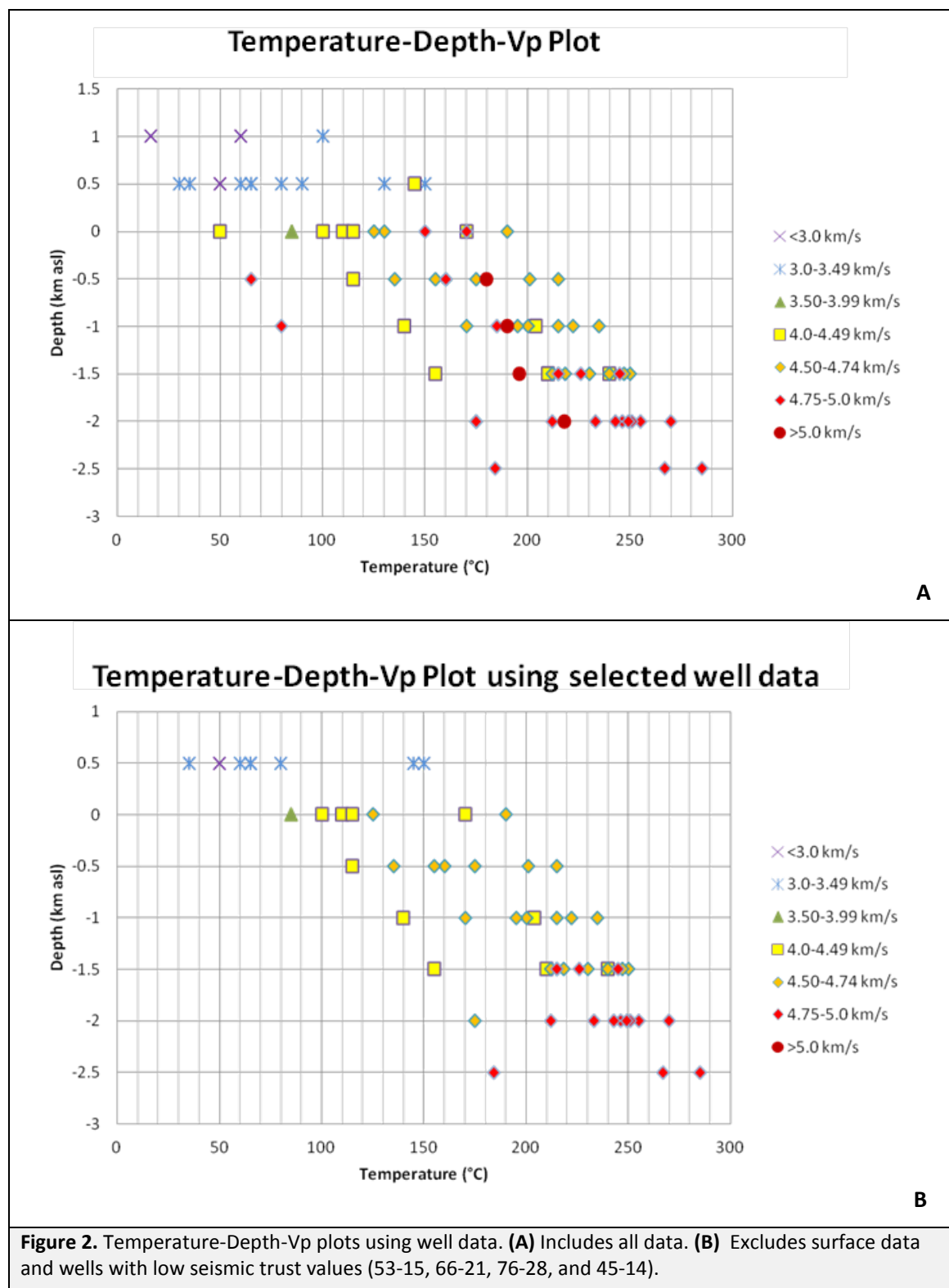
### Vp-T Relationship: Divided into the Major Geologic Formations

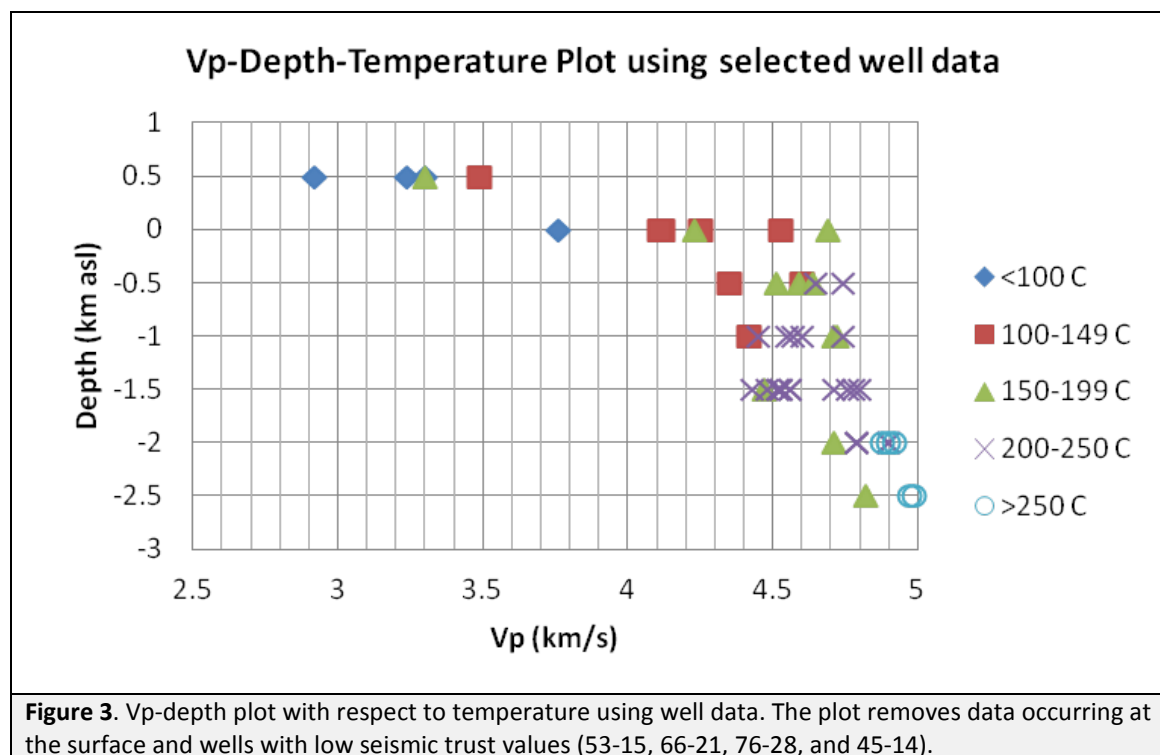
Vp-Depth-Lithology-Temperature: QTbf.....	12
Vp-Depth-Lithology-Temperature: Tmb .....	12
Vp-Depth-Lithology-Temperature: Tv.....	13
Vp-Depth-Lithology-Temperature: Jz .....	13
Vp-Depth-Lithology-Temperature: Tr.....	14
Vp-Depth-Lithology-Temperature: Kgr.....	14

<sup>1</sup> Selected well data removes data occurring the surface and wells with a low seismic trust in reference to the baseline seismic model.

## Vp-T Relationship: Respect to Depth

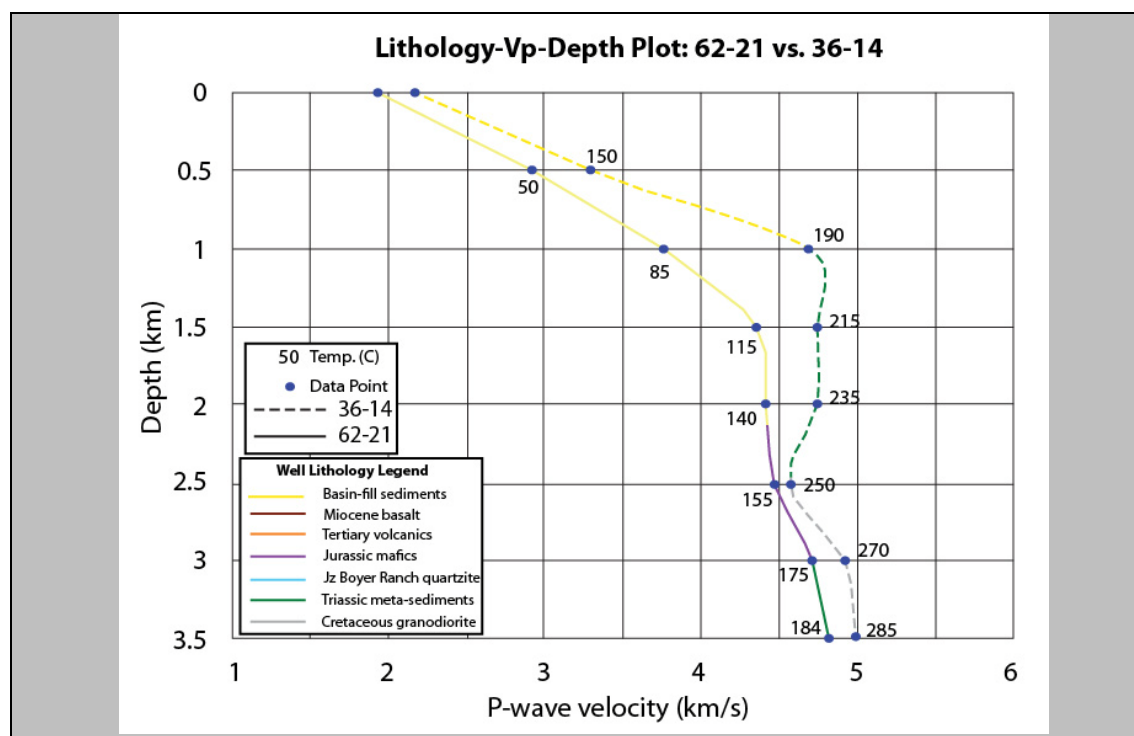


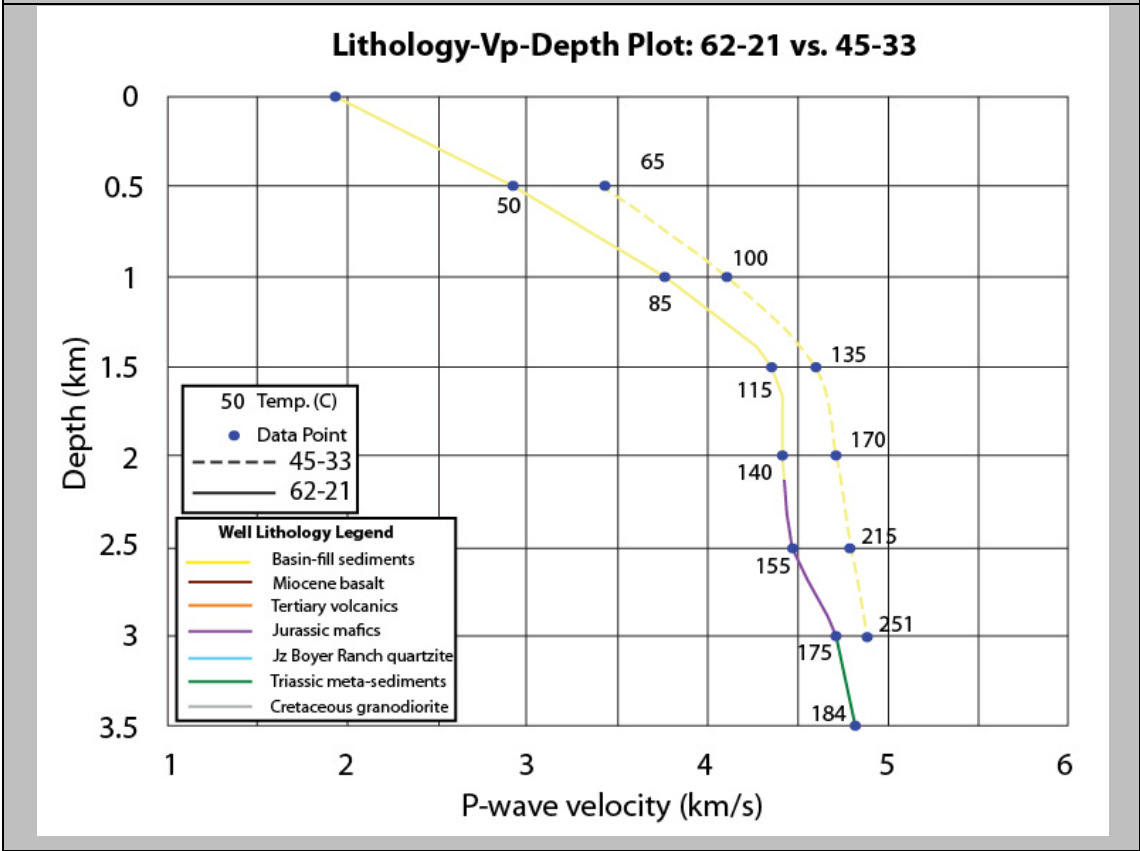
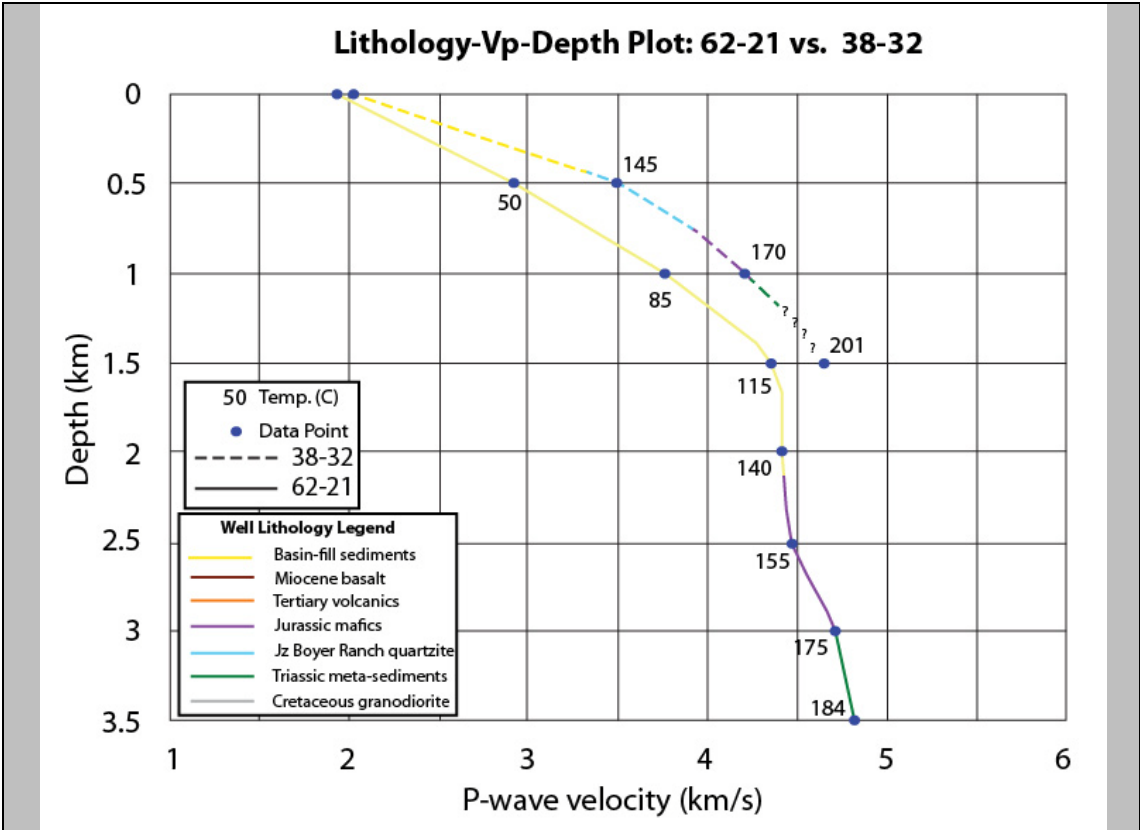


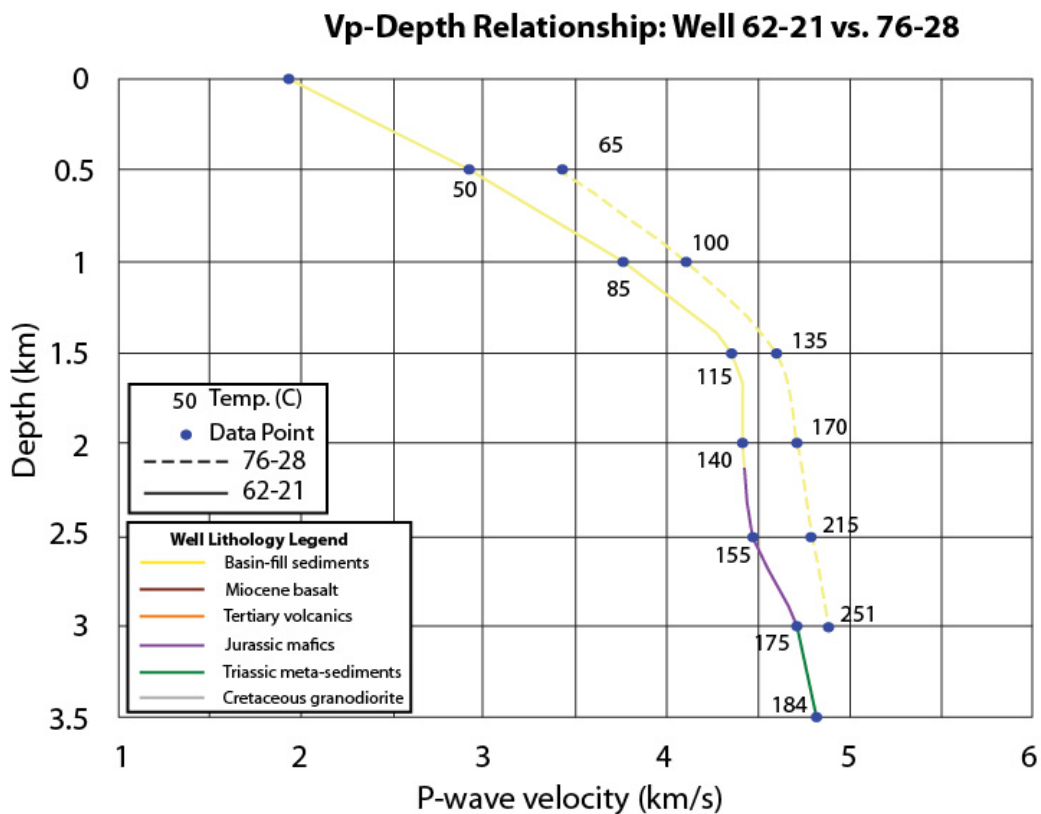
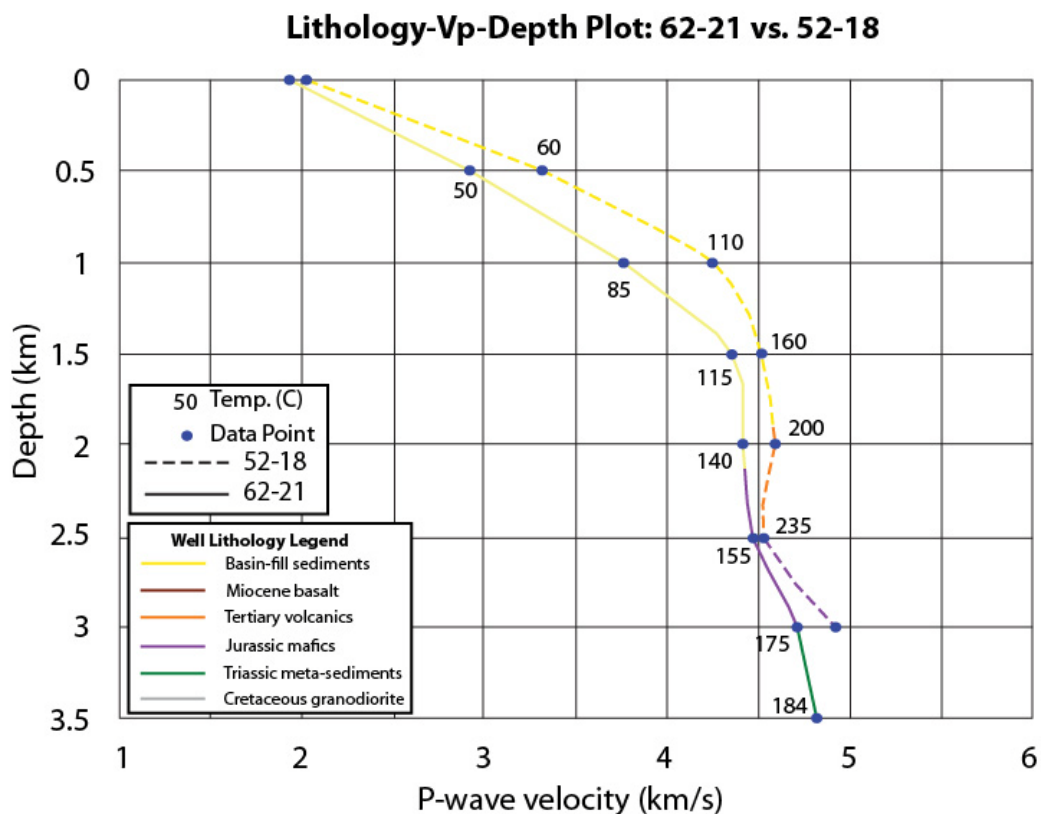


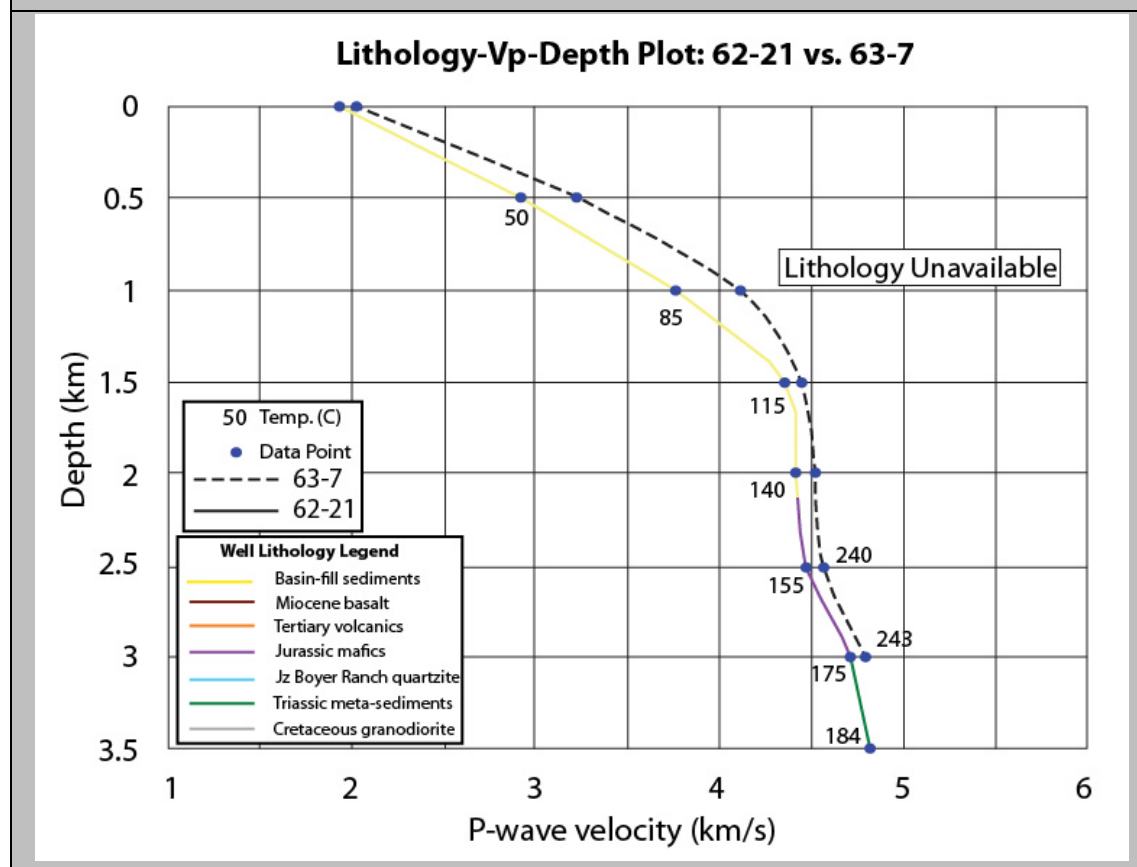
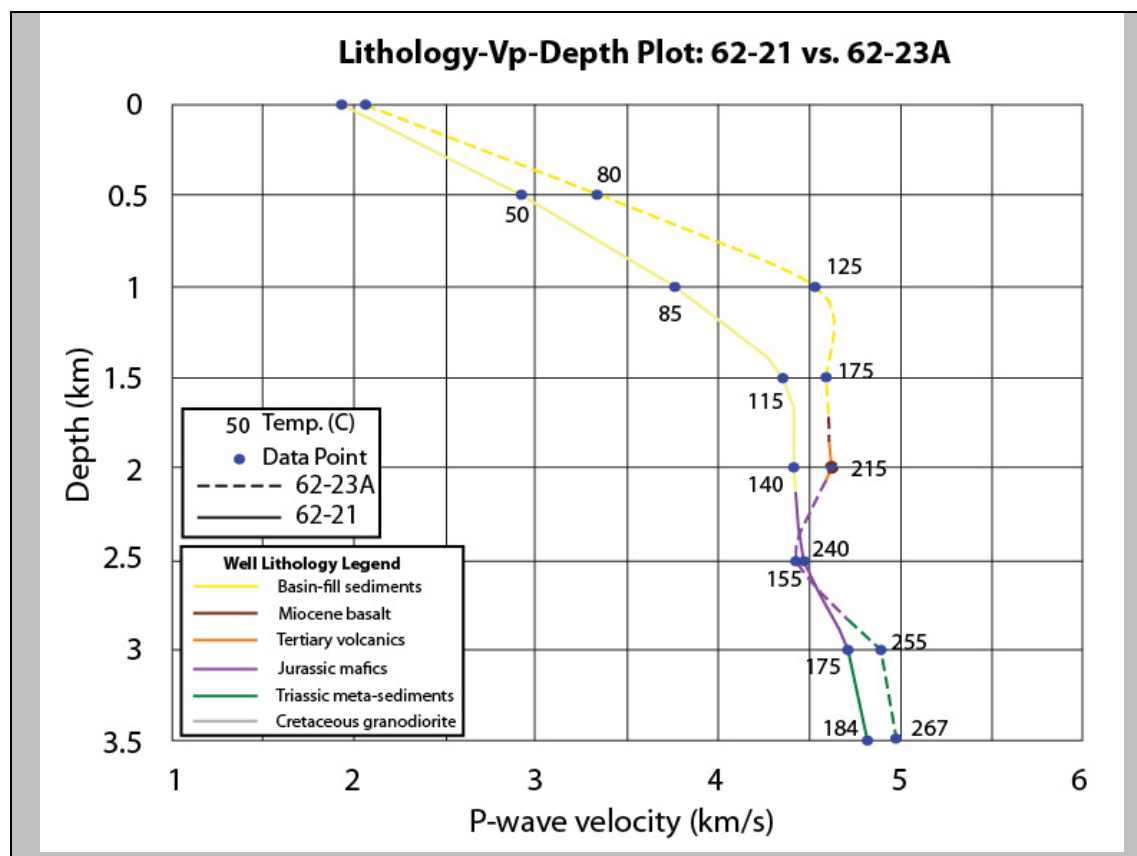
### *Vp-T Relationship: Conductive vs. Convective Domains*

The relationship between Vp, Depth and Lithology Type, and Temperature is assessed when comparing the various wells to a known conductive well, 62-21. The well being compared is shown above each of the successive plots.

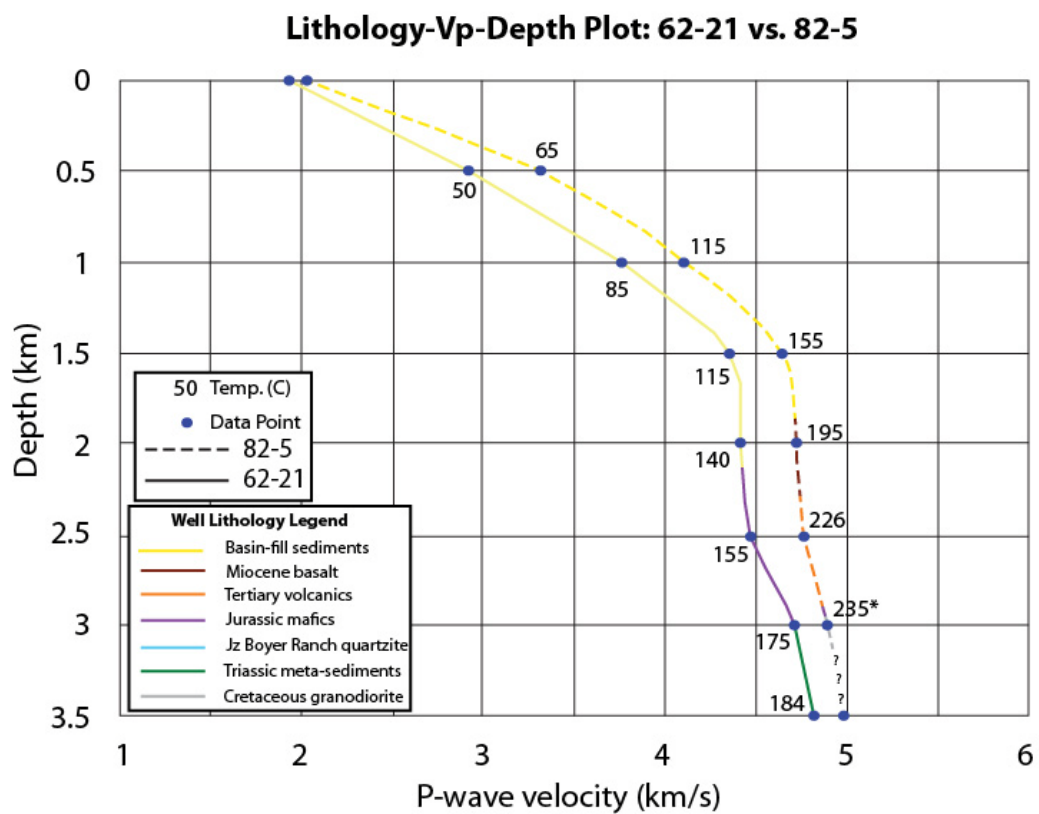
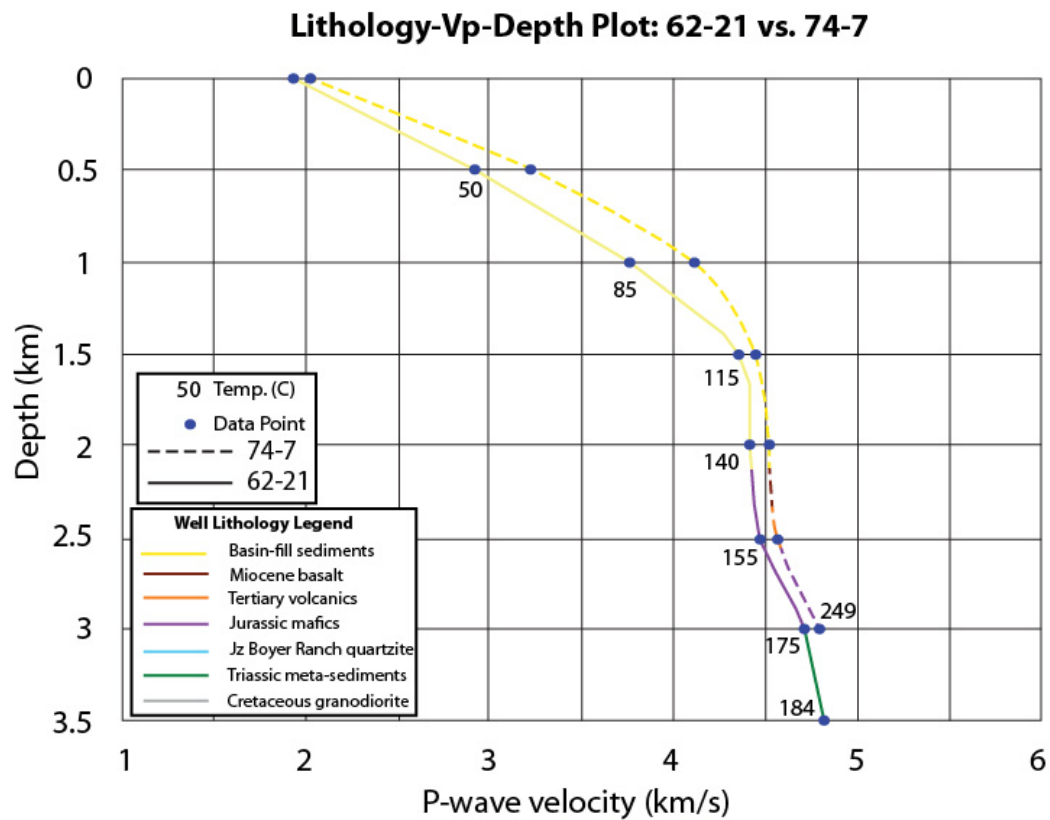


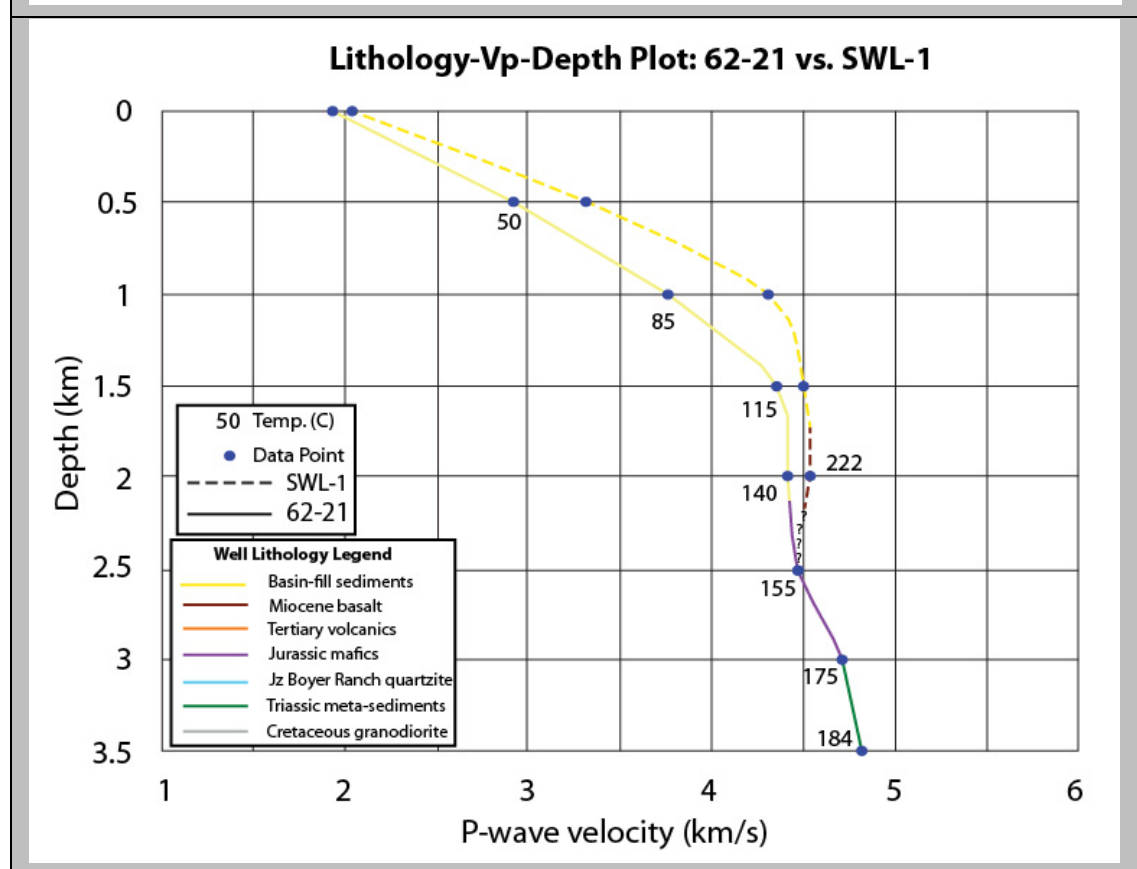
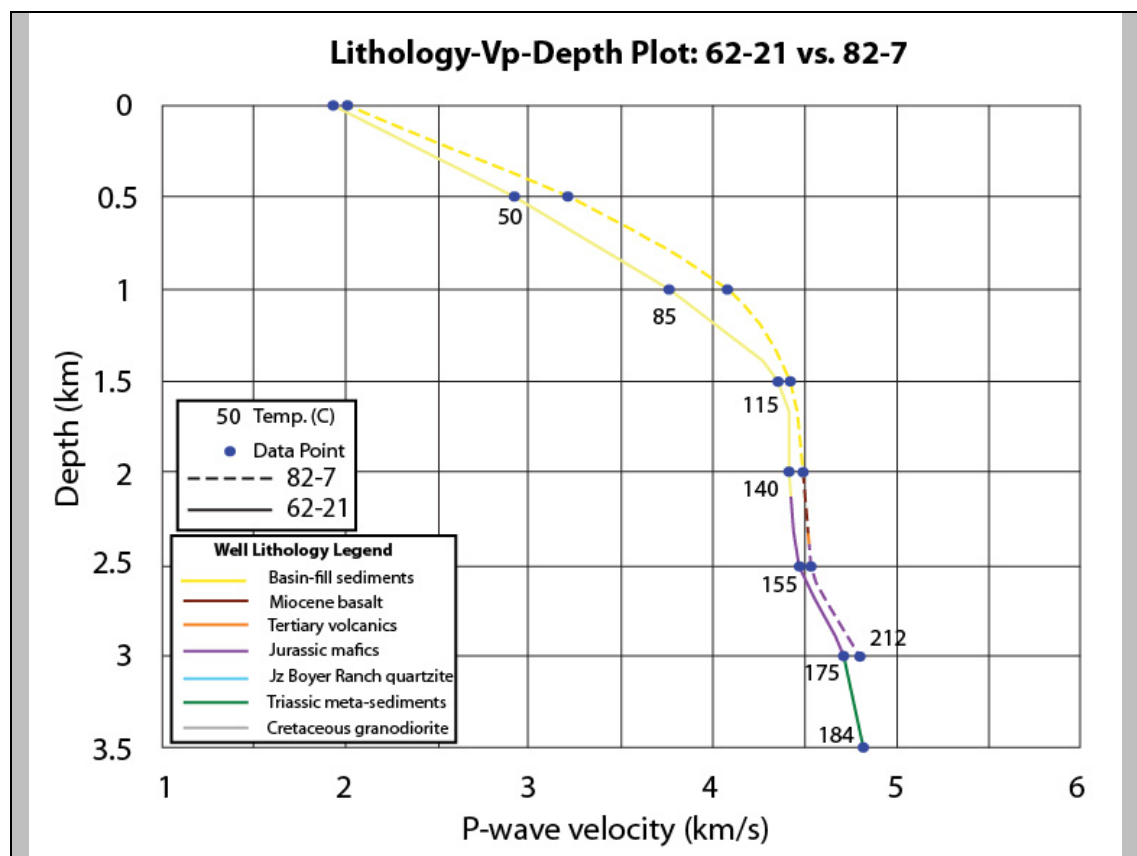


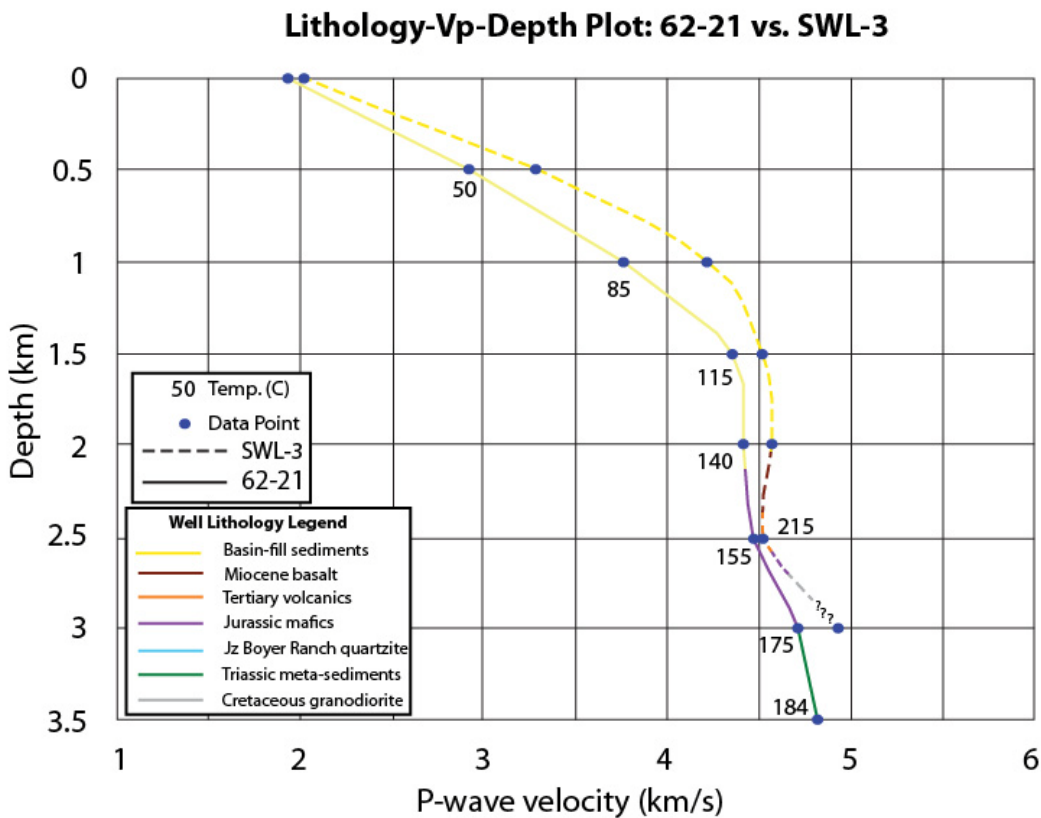
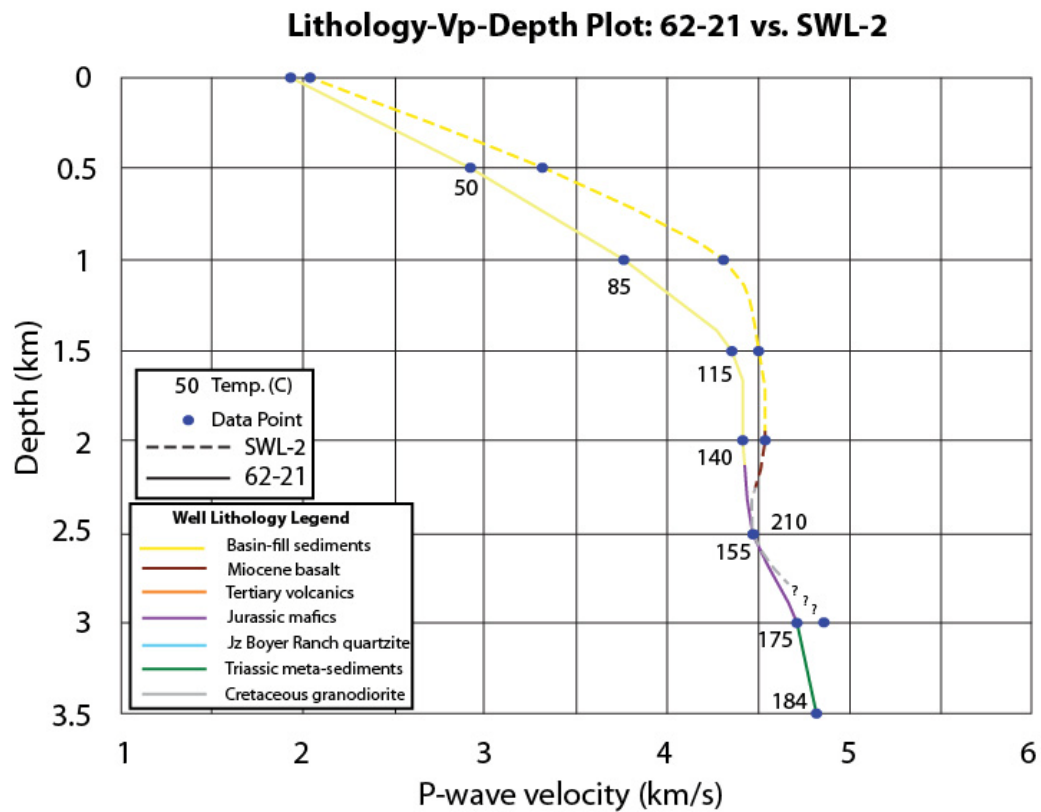












### *Vp-T Relationship: Divided into the major geologic formations*

The relationship between Vp, Depth, and Temperature is assessed with respect to the six major geologic formations. Data is labeled by temperature and coded for well name.

