



Cathedral Energy Services  
1949 Pyrite Road  
Casper, Wyoming, 82604

**135536**

5":100' - MD

11/17/2013 2:56:07 PM

**Oper. Company:** Anadarko

**Country:** USA

**State / Province:** Colorado

**County / Parish:** Weld

**Started:** 11/07/2013 10:00 PM

**API/UWI:** 05123377700100

**Field:** DJ Basin

**Well:** Pennington 28N-2HZX

**Rig:** Ensign 123

**Ended:** 11/17/2013 01:00 PM

### Personnel

**Day Hand:** C. Van Oerle  
**Night Hand:** R. Curtis  
**Comp. Emp:** I. McWhorter

### Location

**Latitude:** 40.161649  
**Longitude:** -104.856716  
**Elev. GL:** 4860'  
**Elev. DF:** 4873'  
**Elev. KB:** 13'

TD 11,763'  
Gamma Ray  
ROP

### Hole Data

Size	From	To
8.75	1033	7665
7666	7666	11738

### Casing Data

Size	From	To
9 5/8	0	1030
7	0	7632

### Bit Sizes

Size	From	To
8.75	1033	7665
6.125	7666	11738

### Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
Water	8.3						1033	5500
LSND	9.6						5501	7665
LSND	11.0						7666	10500
LSND	10.8						10501	11738

### Tool Run Data

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
267	37.33	0	11/7/2013 4:00:14 PM	1033	11/10/2013 2:00:14 AM	7665
278	43.46	0	11/11/2013 8:00:08 AM	7666	11/15/2013 8:00:08 AM	8760
198	45.42	0	11/15/2013 6:05:14 PM	8761	11/17/2013 2:00:14 PM	11738

*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, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.*









































