



Precision Directional Services, Inc  
PDSI  
27610 Commerce Oaks Drive  
Oak Ridge North TX, 77385

**DL1588**

2":100' - MD

3/15/2013 1:43:55 AM

**Oper. Company:** Carrizo Oil & Gas, Inc  
**Country:** US  
**State / Province:** CO  
**County / Parish:** Weld

**API/UWI:** 05-123-36625-00  
**Field:** Niabrara CONZ'83  
**Well:** 2-32-9-58  
**Rig:** Xtreme 19

**Personnel**

**Day Hand:** Paul Brown  
**Night Hand:** Andrew Thomson

**Location**

**Latitude:** 40 42'02.797N  
**Longitude:** 103 52'58.965W  
**Elev. GL:** 4782  
**Elev. DF:** 4799  
**Elev. KB:** 17

**Hole Data**

Size	From	To
12 3/4	0	1456
8 3/4	1456	5940
6 1/8	5940	10135

**Casing Data**

Size	From	To
9 5/8	0	1456
7	1456	5940
4.5	5940	10135

**Mud Data**

Weight	From	To
8.4	0	1456
8.8	1456	4200
9.6	4200	5940
9.6	5940	10135

**Tool Run Data**

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
G2828	45	0	3/6/2013 7:42:39 AM	5100	3/6/2013 7:42:39 AM	5503
G1406	45	0	3/6/2013 11:08:35 PM	5503	3/7/2013 4:08:35 PM	5695
G2828	46	0	3/7/2013 4:09:47 PM	5695	3/8/2013 5:09:47 PM	5940
G2828	46	0	3/9/2013 5:10:41 PM	5940	3/14/2013 5:10:41 PM	10135

*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.*























