



Precision Directional Services, Inc
PDSI
27610 Commerce Oaks Dr
Oakridge North TX, 78735

DL1588

2":100' - TVD

3/15/2013 1:45:07 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 1/4 | 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 8:15:21 AM | 5100 | 3/6/2013 8:15:21 AM | 5503 |
| G1406 | 45 | 0 | 3/6/2013 9:48:30 PM | 5503 | 3/7/2013 9:48:30 PM | 5695 |
| G2828 | 46 | 0 | 3/7/2013 9:49:45 PM | 5695 | 3/7/2013 9:49:45 PM | 5940 |
| G2828 | 46 | 0 | 3/9/2013 9:50:43 PM | 5940 | 3/14/2013 9:50:43 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.





