



Precision Directional Services, Inc

PDSI
27610 Commerce Oaks Drive
Oak Ridge North, TX 77385
713-805-4436

DL1624

2"-100' - MD
5/8/2013 6:47:03 AM

Oper. Company: Carrizo Oil & Gas, Inc

Country: USA

State / Province: Colorado

County / Parish: Weld

Started: 04/30/2013 10:30 AM

API/UWI: 05-123-36869

Field: Niobrara CONZ'83

Well: Nelson 4-17-9-60

Rig: Xtreme 19

Ended: 05/08/2013 07:00 AM

Personnel

Day Hand: Paul Brown

Night Hand: Neil LaRubbio

Comp. Emp: Gabe Vela

Location

Latitude: 40 44'34.783N

Longitude: 104 07'16.547W

Elev. GL: 4991

Elev. DF: 5008

Elev. KB: 17

Hole Data

Size	From	To
12 1/4	0	1426
8 3/4	1426	5835
8 3/4	5835	6465
6 1/8	6465	10754

Casing Data

Size	From	To
9 5/8	0	1416
7	0	6441
4.5	6441	10754

Bit Sizes

Size	From	To
12 1/4	0	1426
8 3/4	1426	5835
8 3/4	5835	6465
6 1/8	6465	10754

Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
WBM	9.3	9.3	42	N/A	N/A	N/A	1426	5835
WBM	9.3	9.3	44	N/A	N/A	N/A	5835	6465
WBM	8.5	8.5	37	N/A	N/A	N/A	0	1426
WBM	9.5	9.5	47	N/A	N/A	N/A	6465	10754

Tool Run Data

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
N/A	0	0	3/14/2013 12:30:26 PM	0	4/14/2013 12:30:26 AM	1426
G2034	40	0	4/30/2013 10:30:36 AM	5835	5/1/2013 11:30:36 PM	6465
N/A	0	0	4/28/2013 11:00:44 AM	1426	4/30/2013 9:30:44 AM	5835
G1204	42	0	5/2/2013 12:30:49 PM	6465	5/5/2013 10:34:49 PM	9073
G2034	42	0	5/5/2013 11:30:12 PM	9073	5/8/2013 7:00:12 AM	10754

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.

0.00 GR(API) 150.00 MD 0.00 ROP(FT/HR) 150.00 Surveys (TVD/INC/AZ)
150.00 2 300.00 FT 150.00 2 300.00

















