



CATHEDRAL

Cathedral Energy Services
1949 North Pyrite Road
Casper, Wyoming 82604

145344

5":100' - TVD

11/5/2014 3:41:07 PM

Oper. Company: Encana Oil & Gas (USA) Inc.**Country:** U.S.A.**State / Province:** Colorado**County / Parish:** Weld**Started:** 10/05/2014 01:00 AM**API/UWI:** 05-123-37586-00**Field:** Wattenberg (Niobrara)**Well:** Drieth 1A-6H-A368**Rig:** Ensign Drilling 135**Ended:** 10/13/2014 06:46 PM

Gamma Ray
Section Plane: 270.00
Magnetic North: 8.75
Gamma Attenuation Factor: 4.12
3.01

Gamma Averaging: 7%

Personnel**Day Hand:** K. Wagoner**Night Hand:** T. Mueller**Comp. Emp:**

Maximum Temperature: 208°F

Location**Latitude:** 40.260180**Longitude:** -105.038150**Elev. GL:** 5087**Elev. DF:****Elev. KB:** 5100

Log and Survey Depths Relative to Kelly Bushing (KB) Depth

Hole Data

Size	From	To
12-1/4	80	855
8-3/4	855	7312
6-1/8	7312	11498

Casing Data

Size	From	To
9-5/8	0	845
7	0	7292

Bit Sizes

Size	From	To
12-1/4	0	855
8-3/4	855	7312
6-1/6	7312	11498

Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
Water/LSND	9.2						855	7082
Water/LSND	10.2						7082	7312
Water/LSND	10.2						7312	7312
Water/LSND	10.2						7312	7486
Water/LSND	10.2						7486	7752
Water/LSND	10.4						7752	11498

Tool Run Data

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
2018	40.29	0	10/4/2014 7:00:48 AM	5000	10/6/2014 10:38:48 AM	7082
2018	41.93	0	10/6/2014 12:00:37 PM	7082	10/7/2014 11:00:37 AM	7312
2018	41.93	0	10/8/2014 8:00:19 AM	7312	10/9/2014 7:30:19 AM	7312
2018	40.4	0	10/10/2014 12:30:53 PM	7312	10/11/2014 6:30:53 AM	7486
2018	3.013	0	10/11/2014 7:30:24 AM	7486	10/12/2014 12:00:24 AM	7752
2018	39.93	0	10/12/2014 2:00:48 PM	7752	10/14/2014 10:00:48 AM	11498

0.00 Gamma Ray (API) 150.00 TVD 0.00 ROP (FT/HR) 600.00
150.00 2 300.00 FT



















