



Cathedral Energy Services
1949 Pyrite Rd Casper Wy

135525

5"-100" - MD
12/6/2013 12:58:54 PM

Oper. Company: Encana Oil & Gas
Country: US
State / Province: Colorado
County / Parish: Weld
Started: 11/28/2013 06:00 PM

API/UWI:
Field: DJ Basin
Well: Billings 1E-34H
Rig: Ensign 135
Ended: 12/06/2013 05:30 AM

Personnel

Day Hand: Brett Giannino
Night Hand: Jon Corby
Comp. Emp: Cathedral Energy Service

Location

Latitude: 40.101570
Longitude: -104.985500
Elev. GL: 4995
Elev. DF: 5008
Elev. KB: 5008

Hole Data

Size	From	To
8.75	0	968
6.125	7922	12275

Casing Data

Size	From	To
7	0	7908
4	0	12275

Bit Sizes

Size	From	To
8.75	0	0
	968	7922
6.125	7922	12275

Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
LSND	10.0	10.0	39.0				5000	7922
LSND	9.9	9.9	36				7922	12275

Tool Run Data

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
1167	41.23	0	11/27/2013 10:30:31 AM	5000	11/30/2013 7:00:31 PM	7922
1551	38.49	0	12/2/2013 1:00:28 PM	7922	12/6/2013 5:30:28 AM	12275

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.































