



Cathedral Energy Services
1949 North Pyrite Road
Casper, Wyoming 82604

155079

5":100' - TVD

2/18/2015 11:32:50 AM

CATHEDRAL

Oper. Company: Encana Oil & gas (USA) Inc.

Country: U.S.A.

State / Province: Colorado

County / Parish: Weld

Started: 02/05/2015 09:00 AM

API/UWI: 05-123-40275-00

Field: Wattenberg (Codell)

Well: Ruhl 1I-32H-B264

Rig: Ensign Drilling 135

Ended: 02/13/2015 11:00 AM

Gamma Ray
Section Plane: 180.00
Magnetic North: 8.24
Gamma Averaging: 7%

Personnel

Day Hand: K. Wagoner

Night Hand: J. Starkey

Comp. Emp: Gage Soehner

Maximum Temperature: 215°F

Location

Latitude: 40.101448

Longitude: -104.570837

Elev. GL: 4997

Elev. DF:

Elev. KB: 5010

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

Hole Data

Size	From	To
8-3/4	0	7603
6-1/8	7603	11501

Casing Data

Size	From	To
9-5/8	0	1155
7	0	7586

Bit Sizes

Size	From	To
8-3/4	0	7603
6-1/8	7603	11501

Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
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Tool Run Data

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
323	40.52	0	2/4/2015 1:00:28 AM	5000	2/7/2015 8:00:28 AM	7603
323	43.16	0	2/9/2015 2:00:20 AM	7603	2/10/2015 5:00:20 AM	8038
281	43.22	0	2/10/2015 7:00:27 AM	8038	2/13/2015 3:00:27 PM	11501

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























