



DDC

3222 N. 6th Mile Rd
Casper, WY 82604**RM-150142**

1":100' - TVD

2/16/2015 5:16:33 PM

Oper. Company: Noble Energy**Country:** United States**State / Province:** Colorado**County / Parish:** Weld**Started:** 02/10/2015 10:00 PM**API/UWI:** 05-123-38143**Field:** Wattenburg**Well:** Reliance E23-69HN**Rig:** H&P 326**Ended:** 02/16/2015 10:30 AM**Personnel****Day Hand:** Chris Abbott**Night Hand:** Bob Kubistek**Comp. Emp:** DDC**Location****Latitude:** 40° 28' 31.476 N**Longitude:** 104° 38' 14.208 W**Elev. GL:** 4733**Elev. DF:** 30**Elev. KB:** 4763**Hole Data**

Size	From	To
13 3/4	0	792
8 3/4	792	7408
6 1/8	7408	11732

Casing Data

Size	From	To
9 5/8	0	782
7	0	7398

Bit Sizes

Size	From	To
13 3/4	0	792
8 3/4	792	7408
6 1/8	7408	11732

Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
LSND	10		38				792	11732

Tool Run Data

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
515	37	0	2/10/2015 10:00:44 PM	792	2/12/2015 9:00:44 AM	7408
515	43	0	2/13/2015 4:30:48 PM	7408	2/13/2015 9:30:48 PM	7653
420	43	0	2/14/2015 6:30:05 AM	7653	2/16/2015 10:30:05 AM	11732

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.













