

# COLUMBINE LOGGING

Scale: 5" / 100'  
Measured Depth Log

Well Name STATE ANTELOPE A11-U41-2HNC

Location NWNW SEC. 2 T5N R62W

State COLORADO

County WELD

Country USA

Rig Number XTREME 20

API Number 05-123-41072-00

Field WATTENBERG

Region DJ BASIN

Spud Date 2/27/2015

Surface Coordinates 1320' FNL x 365' FWL (LAT: 40.433143, -104.298727)

Bottom Hole Coordinates 330' FNL x 470' FEL (LAT: 40.436324, -104.282591) PROJECTED

Ground Elevation 4647'

K.B. Elevation 4664'

Logged Interval 6000'

Formation NIOBRARA C-CHALK

Type of Drilling Fluid LSND, H2O

## Operator

Company Bonanza Creek Energy Inc.

Address 410 17th Street, Suite 1500 Denver, CO 80202

## Geologis

Name Paul McKay

Company Bonanza Creek

Address 410 17TH STREET, SUITE 1500 DENVER, CO 80202

## Zone Color Co

Oil  
Note  
Error

Condensate  
Core  
Water

## Rock Type

UNKNOWN  
ANHYDRITE  
GYPSUM  
SALT  
SIDERITE or LIMONITE  
LIMESTONE  
DOLOMITE  
CHERT  
COAL  
MARLSTONE  
CLAYSTONE  
SHALE  
SHALE GRAY  
SHALE COLORED  
SILTSTONE  
SANDSTONE

Accessories

<b>Fossils</b>	F FOSSIL	ARGILLACEOUS	GLAUCONITE	<b>Stringer</b>
ALGAE	GASTROPOD	ARGILLITE GRAIN	GYPSEFEROUS	ANHYDRITE STRINGER
AMPHIPORA	OOLITE	B BENTONITE	HEAVY MINERAL	BENTONITE STRINGER
BELEMNITE	OSTRACOD	BITUMENOUS SUBSTANCE	KAOLIN	COAL STRINGER
BIOLCLASTIC	PELECYPOD	BRECCIA FRAGMENTS	MARLSTONE	DOLOMITE STRINGER
BRACHIOPOD	PELLET	CALCAREOUS	MINERAL CRYSTALS	GYPSUM STRINGER
BRYOZOA	PISOLITE	CARBONACEOUS FLAKES	NODULES	LIMESTONE STRINGER
CEPHALOPOD	PLANT REMAINS	CHITK	PHOSPHATE PELLET	MARLSTONE (CALC) STRG
CORAL	PLANT SPORES	CHITL	PYRITE	MARLSTONE (DOL) STRG
CRINOID	SCAPHOPOD	COAL - THIN BEDS	SALT CAST	SANDSTONE STRINGER
ECHINOID	STROMATOPOROID	DOLOMITIC	SANDY	SHALE STRINGER
FISH		FELDSPAR	SILICEOUS	SILTSTONE STRINGER
FORAMINIFERA		FERRUGINOUS PELLET	SILTY	
	ANHYDRITIC	FERRUGINOUS	TUFFACEOUS	

Other Symbols

<b>Oil Show</b>	O ORGANIC	FORMATION TOP	CONNECTION GAS	CRYPTOXLN
P PINPOINT	GAS SHOW	CONNECTION DOWN	E EARTHY	
D DEAD	VUGGY	MINDEPTH MN DEPTH	CASING	FX FINELYXLN
EVEN		NORMAL FAULT	FORMATION TOP	GS GRAINSTONE
QUESTIONABLE	OIL SHOW	OVERTURNED STRATA	ANGULAR	L LITHOGRAPHIC
SPOTTED STAINING	BIT	REVERSE FAULT	R ROUNDED	MX MICROXLN
<b>Porosity</b>	CASING	SIDEWALL CORE (LEFT)	SUBANG	MS MUDSTONE
E EARTHY	CONNECTION (LEFT)	SIDEWALL CORE (RIGHT)	F SUBRND	PS PACKSTONE
F FENESTRAL	CONNECTION GAS	SURVEY	TRIP GAS	WS WACKSTONE
F FRACTURE	CORE - LOST	WIRELINE TESTED - LEFT	WIRELINE TESTED - RT	
INTERCRYSTALLINE	CORE - RECOVERED	CHALKY		
INTEROOLITIC	DST INTERVAL			
MOULDIC	FAULT			

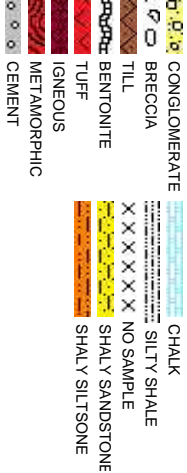
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CO 80202

202

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Slide/Rotate		ROP		GAMMA		Total Gas & Chromatograph		H2S ppm		Depth Labels		% Lith		Well Bore		Oil Show		Images	
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