



Empirica

Scale: 5" / 100'
Measured Depth Log

Well Name DT Martinez 2-5-6

Location Sec.5-T05N-R65W

State Colorado

Country USA

API Number 05-123-41037-00

Region DJ Basin

Spud Date 3/22/2015

Surface Coordinates SHL: 430°FNL, 1684°FEL, Sec.05

Lat: 40.435317

Long: 104.68373

County Weld

Rig Number Savanna 802

AFE # na

Field Wattenberg

Drilling Completed TBD

Bottom Hole Coordinates BHL: 2666°FNL, 460°FWL, Sec. 06

Ground Elevation 4,640'

K.B. Elevation 4,655'

Logged Interval 5,000' To 7,907'

Formation Codell

Type of Drilling Fluid Water Based

Operator

Company Extraction Oil & Gas

Address 1888 Sherman St., Suite 200
Denver, CO 80203

Geologist

Name Jared Rouse

Company Extraction Oil & Gas

Address 1888 Sherman St., Suite 200
Denver, CO 80203



Other

Equipment ML-461

Comments Start: 3-24-15
Standby: 3-23-15
TD: TBD

Services Provided

Logger Names

Dominic Pitre / Nicholas W

Address

Empirica, LLC.
6360 W Sam Houston Pkw
Suite 100
Houston, TX 77041

Zone Color Coding

Oil

Note

Error

Condensate

Core

Water

Gas

Pressure

Seal

Rock Types

UNKNOWN

ANHYDRITE

GYPSUM

SALT

SIDERITE or LIMONITE

LIMESTONE

DOLOMITE

CHERT

COAL

MARLSTONE

CLAYSTONE

SHALE

SHALE GRAY

SHALE COLORED

SILTSTONE

SANDSTONE

CONGLOMERATE

BRECCIA

TILL

BENTONITE

TUFF

IGNEOUS

METAMORPHIC

CEMENT

Accessories

F FOSSIL

GASTROPD

OOLITE

OSTRACOD

BELEMNITE

BIOCLASTIC

BRACHIOPOD

BRYOZOA

CEPHALOPOD

CORAL

CRINOID

ECHINOID

FISH

FORAMINIFERA

ARGILLACEOUS

ARGILLITE GRAIN

B BENTONITE

BITUMENOUS SUBSTANCE

BRECCIA FRAGMENTS

CALCAREOUS

CARBONACEOUS FLAKES

CHTDK

CHTLT

COAL - THIN BEDS

DOLOMITIC

+ FELDSPAR

FERRUGINOUS PELLET

FERRUGINOUS

GLAUCONITE

GYPSIFEROUS

HEAVY MINERAL

K KAOLIN

TT MARLSTONE

MINERAL CRYSTALS

N NODULES

PHOSPHATE PELLETS

P PYRITE

B SALT CAST

S SANDY

SILICEOUS

SILTY

TUFACEOUS

ANHYDRITE STRINGER

BENTONITE STRINGER

COAL STRINGER

DOLOMITE STRINGER

GYPSUM STRINGER

LIMESTONE STRINGER

MARLSTONE (CALC) STRG

MARLSTONE (OOL) STRG

SANDSTONE STRINGER

SHALE STRINGER

SILTSTONE STRINGER

Other Symbols

ORGANIC

PINPOINT

DEAD

VUGGY

EVEN

QUESTIONABLE

SPOTTED STAINING

OIL SHOW

NORMAL

OIL SHOW

OVERTURN

REVERSE

SIDEWALL

Engineering

CASING

CONNECTION (LEFT)

CONNECTION (RIGHT)

FENESTRAL

F FRACTURE

INTERCRYSTALLINE

INTEROOLITIC

MOLDIC

CORE - LOST

CORE - RECOVERED

TRIP GA

WIRELINE

FAULT

WIRELINE

Porosity

E EARTHY

FENESTRAL

F FRACTURE

INTERCRYSTALLINE

INTEROOLITIC

MOLDIC

CONNECTION (LEFT)

CONNECTION (RIGHT)

FENESTRAL

F FRACTURE

INTERCRYSTALLINE

INTEROOLITIC

MOLDIC

mbols

IMATION TOP L LITHOGRAPHIC

Rounding

W MX MICROXLN

AN DEPTH A ANGULAR MS MUDSTONE

FAULT R ROUNDED PS PACKSTONE

V B SUBANG WS WACKESTONE

INED STRATA P SUBRND

Sorting

FAULT

Textures

CORE (LEFT) M MODERATE

CORE (RIGHT) BS BOUNDSTONE P POOR

C CHALKY W WELL

CX CRYPTOXLN

S E EARTHY

TESTED - LEFT FX FINELYXLN

TESTED - RT GS GRAINSTONE

ROP
ROP —
GAMMA —
GAS —
DPHI —

Extraction OG

DT Martinez 2-5-6

MW: 9.5
VIS: 39

Weld County, Colorado

Spud Date: 3-22-15

Surface Casing @ 1,088'

Intermediate Casing @ x,xxx'

2-man Logging / Geosteering Began: 3-24-15

Linear Scale

ROP (min/hr)
GAMMA (units)
GAS (units)
DPHI (psi)

1450u

Slide/Rotate

Depth Labels

100 units = 1% methane

Logarithmic Scale

AVG BGC: 530u

1E3

Total Gas & Chromatograph

GAS
C1 —
C2 —
C3 —
C4 —

Depths Correspond to Driller's Pipe Tally

DP @ 7,170'

W
R
St
Pu

Well Bore
TVD —

TVD (ft)

TVD (ft)

TVD (ft)

MD: 7,080'
TVD: 6,549.82'
Inclination: 31.32°
Azimuth: 247.33°
VS: 1,479.15'

MD: 7,175'
TVD: 6,628.8'
Inclination: 31.32°
Azimuth: 25.33°
VS: 1,531.44'

7040-7100 SLTST (75%): gy-dk gy, v frm-crunchy-brt, sb rd-ply-sply med-hi fis ctgs, sm silty-v arg tex, r ss inbds & thn lam, occ vf pyr, non calc, grdg up to 25% SS: lt gy-gy-occ off wh-btbf, pred vf-f gr grdg down to slst, mod-w strd, gr sup sil fri cts cons w/ sil cmt, non calc

7100-7160 SLTST (75%): gy-dk gy, v frm-crunchy-brt, sb rd-ply-sply med-hi fis ctgs, sm silty-v arg tex, r ss inbds & thn lam, occ vf pyr, non calc, grdg up to 25% SS: lt gy-gy-occ off wh-btbf, pred vf-f gr grdg down to slst, mod-w strd, gr sup sil fri cts cons w/ sil cmt, non calc

7160-7222 SLTST (75%): gy, sme c arg, sb blk, some mot arg-silty, string, lt b

Oil Show

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Images









