# BEF WEST 16

**MD**
**5":100'**

**Company:** Petro Operating Company LLC
**Well Name:** BEF West 16
**API:**
**County/Parish:** Adams
**State:** CO
**Country:** USA
**Job number:** TRUE33
**Field:** Wattenburg
**Rig Id:** True 33
**Survey Company:** Ensign
**Operator:** Petro Operating Company LLC
**Company Man:** Mark Stoner

**Daylight DD:** Breven Williams
**Night DD:** Tyler Batchelder

**Daylight MWD:** Justin Klatt
**Night MWD:** Cameron MacDonald

**Log measurements:** Gamma
**Depth measured from:** 1568 ft
**Maximum temperature:** 176

| | Depth | Date |
|---|---|---|
| **Start:** | 0 ft | 1-15-2019 |
| **End:** | 12197 ft | 1-20-2019 |

| Casing | Depth | Size |
|---|---|---|
| Surface: | 1568 ft | 9 5/8" |
| Intermediate: | | |

**Mud Type:** WBM
**Density:**
**Viscosity:**
**Rm:** **Rmf:** **Rmc:**

**Elevations**
**KB:** 27 ft
**GL:** 5049 ft
**DF:** 5076 ft

| Run | Bit Size | Offsets | | Depths | | Dates | |
|---|---|---|---|---|---|---|---|
| | | Gamma | Survey | Start | End | Start | End |
| 1 | 8.5" | 62.77 ft | 57.94 ft | 1568 ft | 12197 ft | 1-15-19 | 1-20-2019 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |

Ensign uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

RSPH MHZ 0.2 20.0
RMPH MHZ 0.2 20.0
RDPH MHZ 0.2 20.0
RSPL MHZ 0.2 20.0
RMPL MHZ 0.2 20.0
RDPL MHZ 0.2 20.0
ROP 0 0.0 500.0 500.0 1000.0
MD
Gamma API 0.0 300.0 300.0 600.0
#15 MD(1508.00) Inc(9.6) Azm(46.0) TVD(1494.98) DLS(0.7)

#54 MD(5173.00) Inc(0.5) Azm(26.2) TVD(5101.22) DLS(2.5)

#55 MD(5268.00) Inc(0.4) Azm(345.9) TVD(5196.22) DLS(0.3)

#56 MD(5363.00) Inc(0.8) Azm(297.4) TVD(5291.22) DLS(0.6)

#57 MD(5457.00) Inc(1.1) Azm(275.6) TVD(5385.20) DLS(0.5)

#58 MD(5551.00) Inc(1.2) Azm(306.4) TVD(5479.18) DLS(0.7)

#59 MD(5645.00) Inc(0.7) Azm(254.5) TVD(5573.17) DLS(1.0)

#60 MD(5740.00) Inc(0.8) Azm(261.5) TVD(5668.16) DLS(0.1)

#61 MD(5835.00) Inc(1.0) Azm(240.6) TVD(5763.15) DLS(0.4)

#62 MD(5930.00) Inc(1.0) Azm(264.4) TVD(5858.14) DLS(0.4)

#63 MD(6024.00) Inc(0.7) Azm(150.6) TVD(5952.13) DLS(1.5)

#64 MD(6119.00) Inc(0.3) Azm(158.0) TVD(6047.13) DLS(0.4)

#65 MD(6212.00) Inc(0.2) Azm(183.0) TVD(6140.13) DLS(0.2)

#66 MD(6331.00) Inc(0.3) Azm(202.1) TVD(6259.13) DLS(0.1)

#67 MD(6426.00) Inc(0.5) Azm(165.2) TVD(6354.13) DLS(0.3)

#68 MD(6520.00) Inc(0.8) Azm(140.4) TVD(6448.12) DLS(0.4)

#69 MD(6614.00) Inc(0.5) Azm(159.2) TVD(6542.11) DLS(0.4)

#70 MD(6708.00) Inc(3.7) Azm(267.5) TVD(6636.05) DLS(4.1)

#71 MD(6802.00) Inc(11.1) Azm(272.3) TVD(6729.20) DLS(7.9)

#72 MD(6897.00) Inc(16.9) Azm(267.5) TVD(6821.34) DLS(6.2)

Gamma
API
0.0 300.0
300.0 600.0
ROP
0
0.0 500.0
500.0 1000.0
RSPH
MHZ
0.2 20.0
RMPH
MHZ
0.2 20.0
RDPH
MHZ
0.2 20.0
RSPL
MHZ
0.2 20.0
RMPL
MHZ
0.2 20.0
RDPL
MHZ
0.2 20.0