**ENSIGN**
Directional Services

# Jessica LC27-785

**TVD**
**2":100'**

**Company:** Noble Energy
**Well Name:** Jessica LC27-785
**API:**
**Rig Id:** H&P 326
**State:** Colorado
**County/Parish:** Weld
**Country:** USA
**Survey Company:** ENSIGN Directional
**Job number:** HP326-207-6
**DD1** Zach Gentry
**DD2** Tyler Bachelder
**DD3** Colby Hansen
**MWD1** Andrew Demrow
**MWD2** Nick Jones

**Log measurements:** Gama, ROP
**Depth measured from:**
**Maximum temperature:**

| | **Depth** | **Date** |
|---|---|---|
| **Start:** | 634 ft | 04-03-2015 |
| **End:** | ft | |

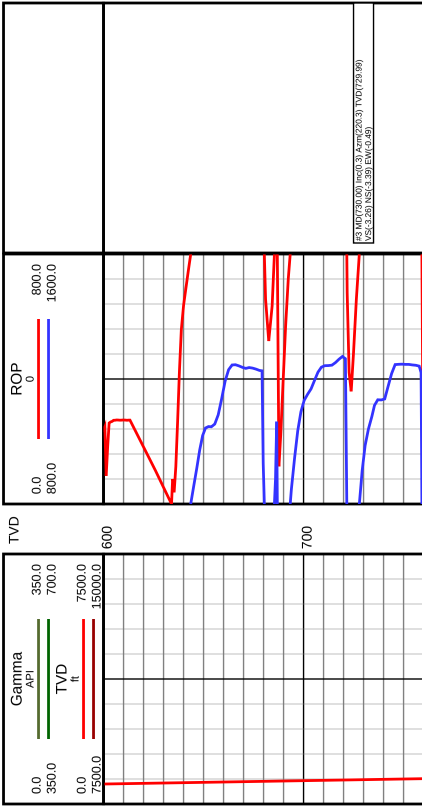
| **Casing** | **Depth** | **Size** |
|---|---|---|
| **Surface:** | 814 | 9 5/8 |
| **Intermediate:** | | 7 |

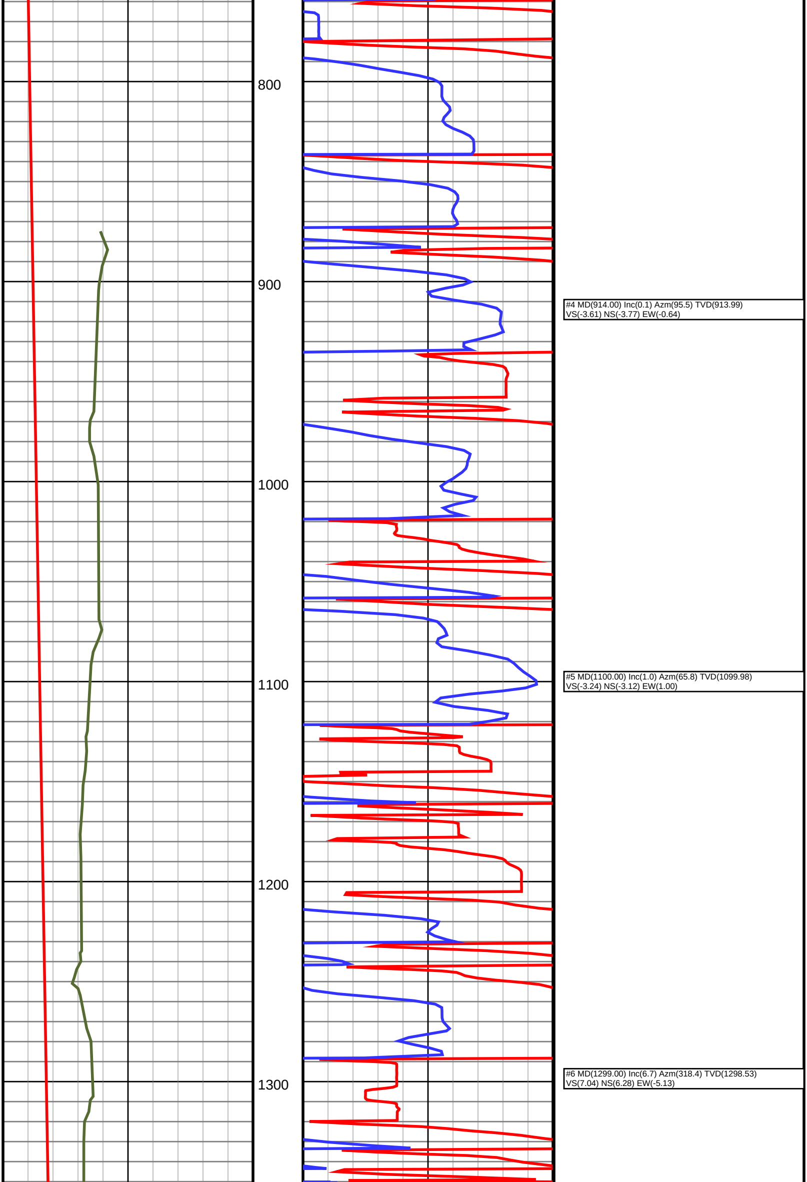
**Mud Type:**
**Density:**
**Viscosity:**
**Rm:** **Rmf:** **Rmc:**

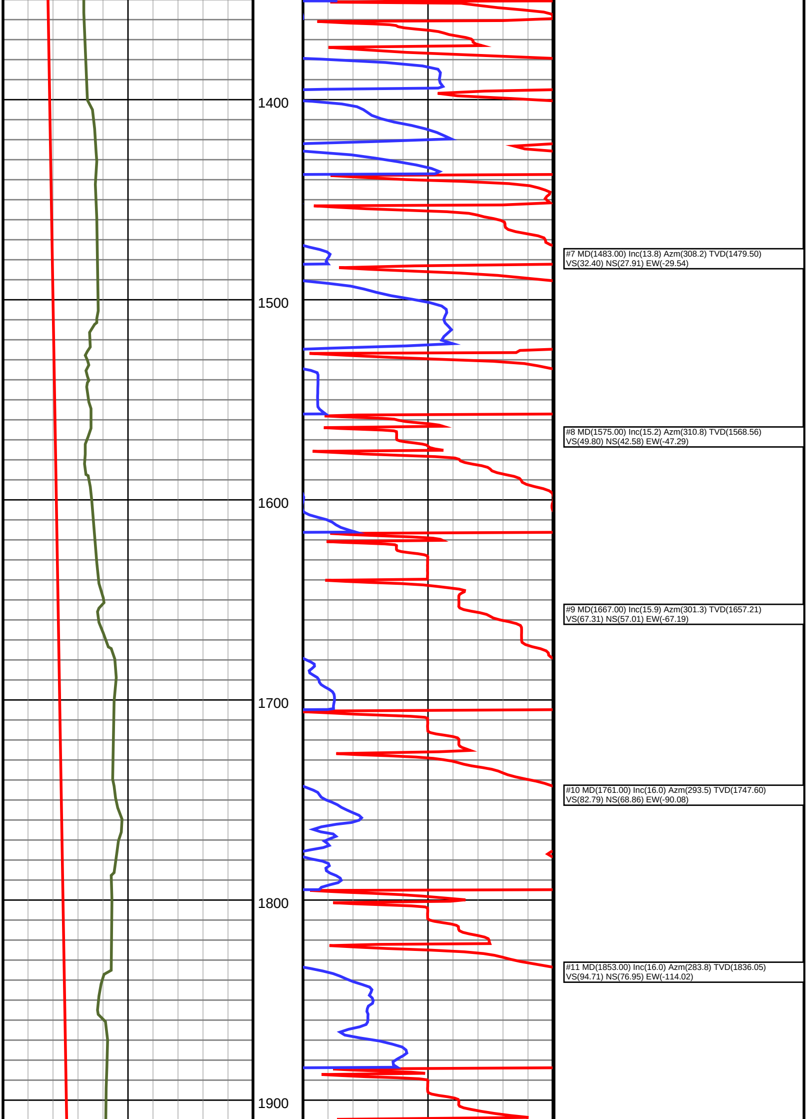
**Elevations**
**KB:** 30
**GL:** 4695
**DF:** 4725

| | | **Offsets** | | **Depths** | | **Dates** | |
|---|---|---|---|---|---|---|---|
| **Run** | **Bit Size** | **Gamma** | **Survey** | **Start** | **End** | **Start** | **End** |
| 1 | 8.75 | 52.79 | 49.79 | 834 | 6528 | 4-4-2015 | 4-5-2015 |
| 2 | 6 1/8 | 64.64 | 59.64 | 6528 | | 4-7-2015 | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |

ENSIGN Directional 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.







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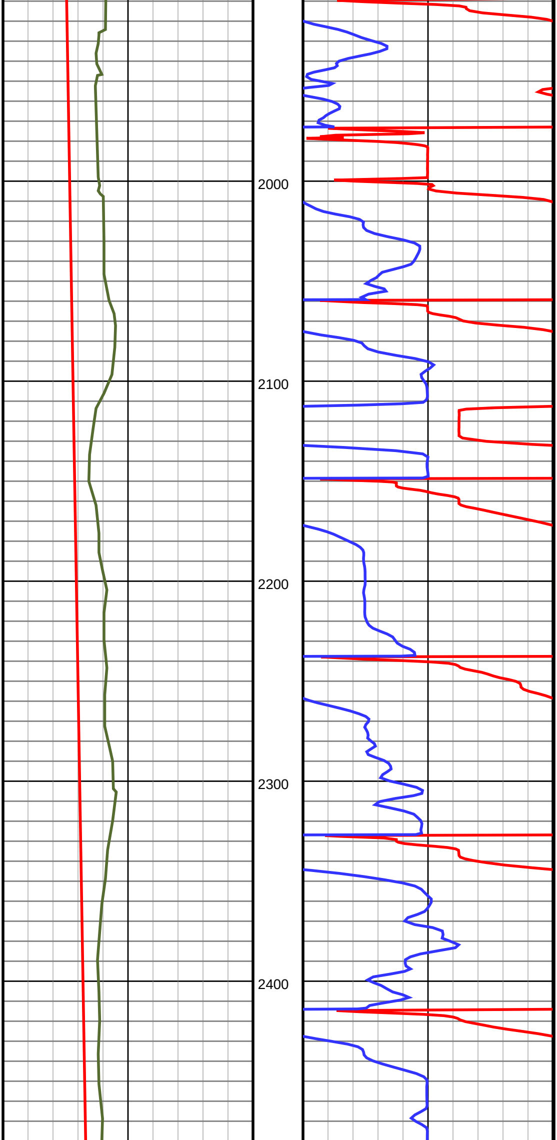
VS(32.40) NS(27.91) EW(-29.54)

#8 MD(1575.00) Inc(15.2) Azm(310.8) TVD(1568.56)
VS(49.80) NS(42.58) EW(-47.29)

#9 MD(1667.00) Inc(15.9) Azm(301.3) TVD(1657.21)
VS(67.31) NS(57.01) EW(-67.19)

#10 MD(1761.00) Inc(16.0) Azm(293.5) TVD(1747.60)
VS(82.79) NS(68.86) EW(-90.08)

#11 MD(1853.00) Inc(16.0) Azm(283.8) TVD(1836.05)
VS(94.71) NS(76.95) EW(-114.02)



#12 MD(1946.00) Inc(16.5) Azm(277.9) TVD(1925.34)
VS(103.73) NS(81.82) EW(-139.55)

#13 MD(2038.00) Inc(16.4) Azm(268.3) TVD(2013.60)
VS(109.40) NS(83.23) EW(-165.48)

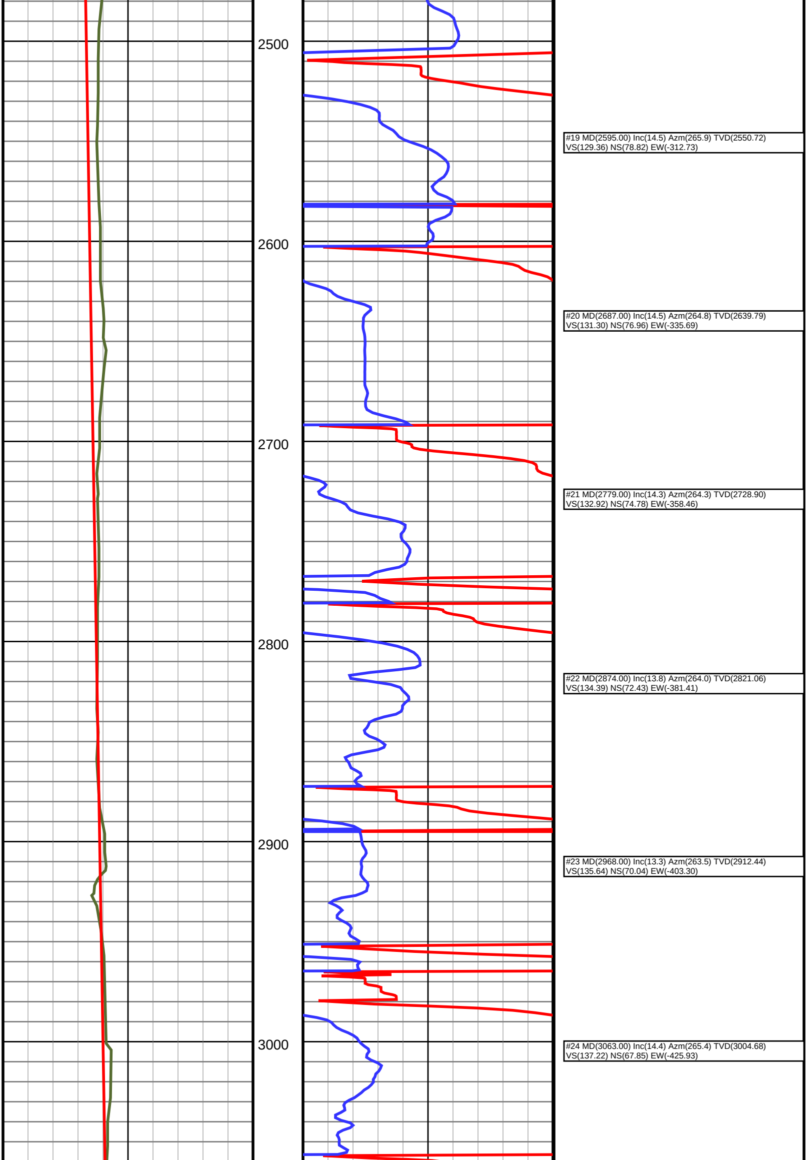
#14 MD(2131.00) Inc(15.9) Azm(269.1) TVD(2102.92)
VS(113.09) NS(82.64) EW(-191.34)

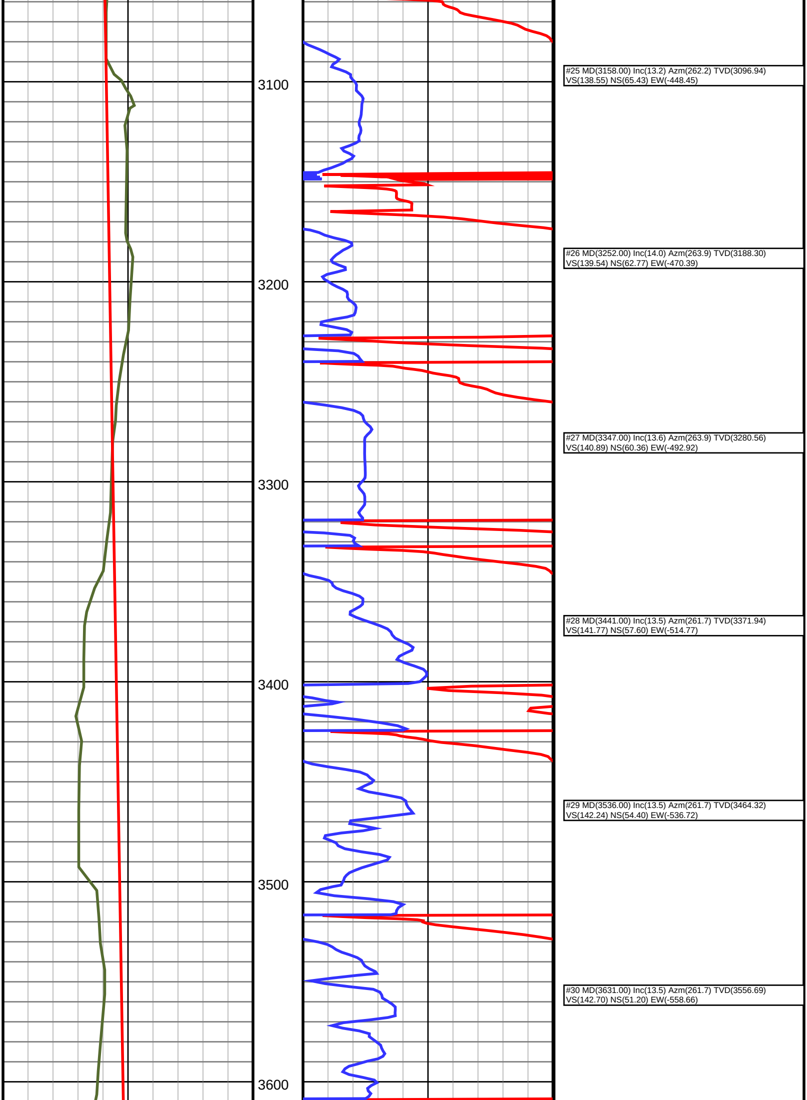
#15 MD(2223.00) Inc(15.7) Azm(270.0) TVD(2191.45)
VS(117.03) NS(82.44) EW(-216.39)

#16 MD(2316.00) Inc(15.4) Azm(269.3) TVD(2281.04)
VS(120.99) NS(82.29) EW(-241.32)

#17 MD(2409.00) Inc(15.0) Azm(267.2) TVD(2370.79)
VS(124.28) NS(81.55) EW(-265.69)

#18 MD(2502.00) Inc(14.6) Azm(266.8) TVD(2460.71)
VS(126.97) NS(80.31) EW(-289.41)





#25 MD(3158.00) Inc(13.2) Azm(262.2) TVD(3096.94)
VS(138.55) NS(65.43) EW(-448.45)

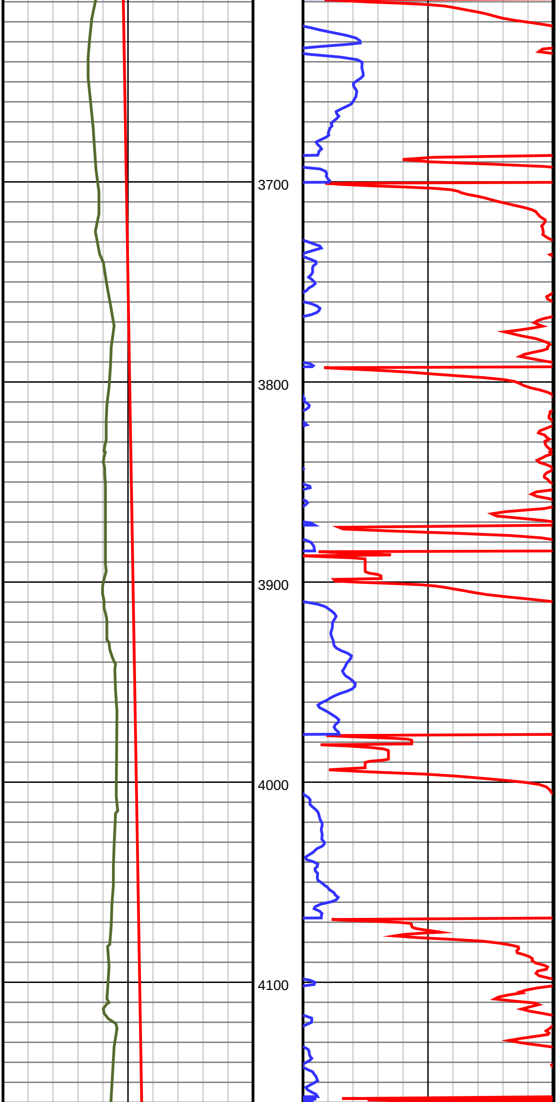
#26 MD(3252.00) Inc(14.0) Azm(263.9) TVD(3188.30)
VS(139.54) NS(62.77) EW(-470.39)

#27 MD(3347.00) Inc(13.6) Azm(263.9) TVD(3280.56)
VS(140.89) NS(60.36) EW(-492.92)

#28 MD(3441.00) Inc(13.5) Azm(261.7) TVD(3371.94)
VS(141.77) NS(57.60) EW(-514.77)

#29 MD(3536.00) Inc(13.5) Azm(261.7) TVD(3464.32)
VS(142.24) NS(54.40) EW(-536.72)

#30 MD(3631.00) Inc(13.5) Azm(261.7) TVD(3556.69)
VS(142.70) NS(51.20) EW(-558.66)



#31 MD(3725.00) Inc(13.9) Azm(260.8) TVD(3648.02)
VS(142.99) NS(47.81) EW(-580.66)

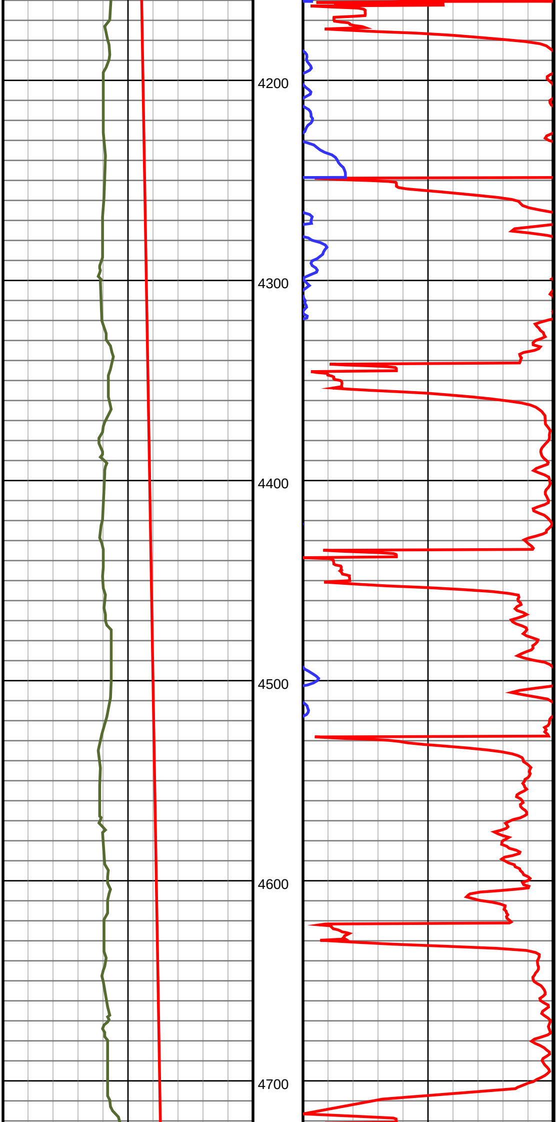
#32 MD(3820.00) Inc(13.5) Azm(259.9) TVD(3740.32)
VS(142.94) NS(44.04) EW(-602.84)

#33 MD(3914.00) Inc(13.1) Azm(258.3) TVD(3831.80)
VS(142.41) NS(39.96) EW(-624.08)

#34 MD(4009.00) Inc(13.9) Azm(261.2) TVD(3924.17)
VS(142.14) NS(36.03) EW(-645.90)

#35 MD(4103.00) Inc(13.1) Azm(263.3) TVD(4015.57)
VS(142.80) NS(33.06) EW(-667.64)

#36 MD(4197.00) Inc(12.4) Azm(263.9) TVD(4107.26)
VS(143.91) NS(30.74) EW(-688.25)



#37 MD(4292.00) Inc(12.0) Azm(263.7) TVD(4200.11)
VS(145.07) NS(28.57) EW(-708.21)

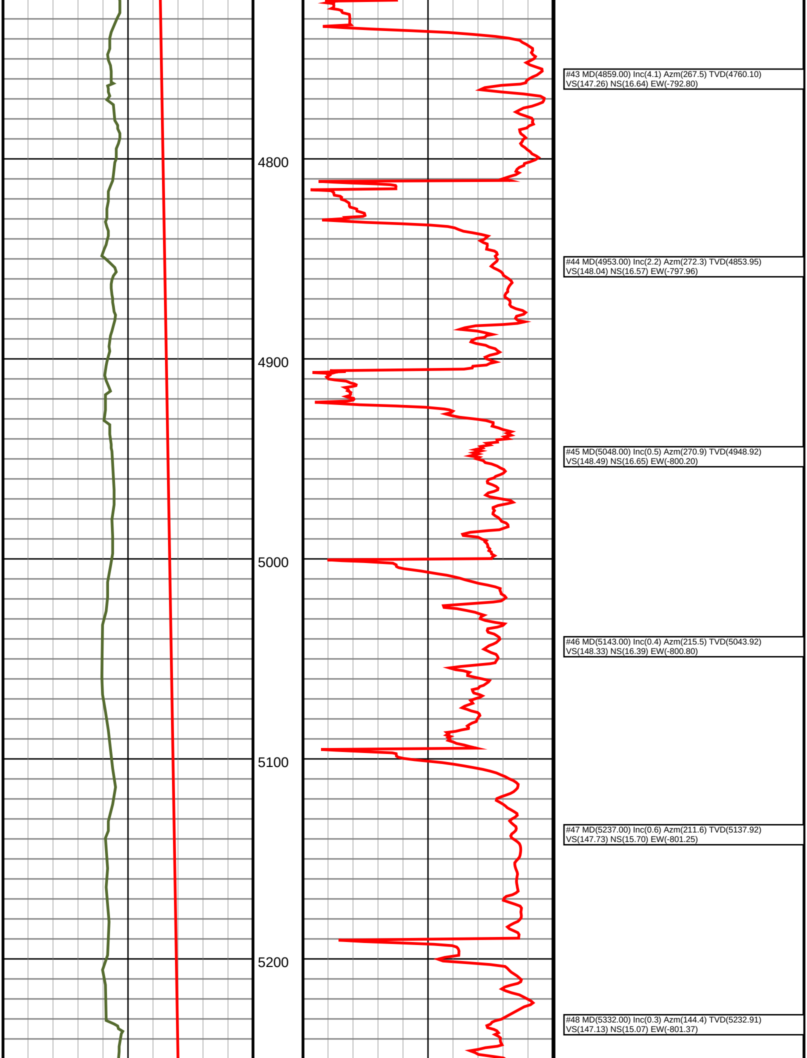
#38 MD(4387.00) Inc(11.9) Azm(263.9) TVD(4293.05)
VS(146.20) NS(26.45) EW(-727.77)

#39 MD(4482.00) Inc(10.5) Azm(261.1) TVD(4386.24)
VS(146.87) NS(24.07) EW(-746.06)

#40 MD(4576.00) Inc(8.0) Azm(260.2) TVD(4479.01)
VS(146.93) NS(21.63) EW(-760.97)

#41 MD(4671.00) Inc(7.7) Azm(263.9) TVD(4573.12)
VS(147.27) NS(19.83) EW(-773.81)

#42 MD(4765.00) Inc(5.9) Azm(255.8) TVD(4666.46)
VS(147.25) NS(17.97) EW(-784.76)



#43 MD(4859.00) Inc(4.1) Azm(267.5) TVD(4760.10)
VS(147.26) NS(16.64) EW(-792.80)

#44 MD(4953.00) Inc(2.2) Azm(272.3) TVD(4853.95)
VS(148.04) NS(16.57) EW(-797.96)

#45 MD(5048.00) Inc(0.5) Azm(270.9) TVD(4948.92)
VS(148.49) NS(16.65) EW(-800.20)

#46 MD(5143.00) Inc(0.4) Azm(215.5) TVD(5043.92)
VS(148.33) NS(16.39) EW(-800.80)

#47 MD(5237.00) Inc(0.6) Azm(211.6) TVD(5137.92)
VS(147.73) NS(15.70) EW(-801.25)

#48 MD(5332.00) Inc(0.3) Azm(144.4) TVD(5232.91)
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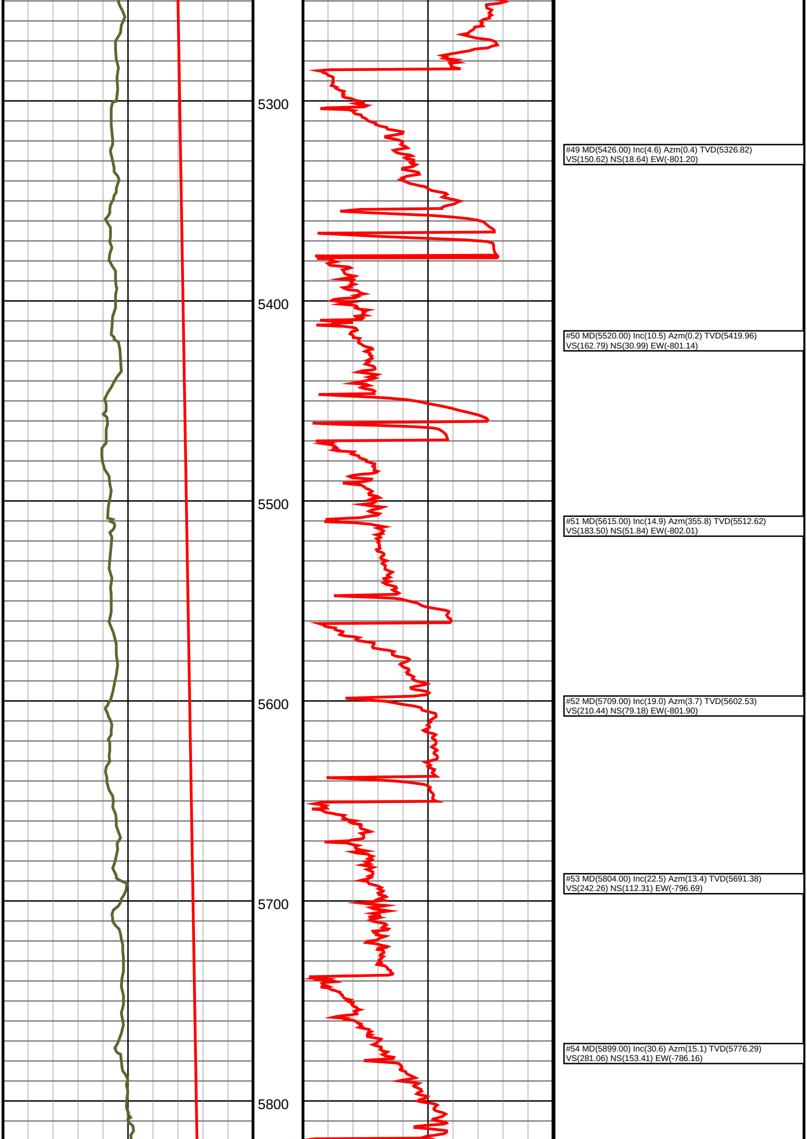

#49 MD(5426.00) Inc(4.6) Azm(0.4) TVD(5326.82)
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#50 MD(5520.00) Inc(10.5) Azm(0.2) TVD(5419.96)
VS(162.79) NS(30.99) EW(-801.14)

#51 MD(5615.00) Inc(14.9) Azm(355.8) TVD(5512.62)
VS(183.50) NS(51.84) EW(-802.01)

#52 MD(5709.00) Inc(19.0) Azm(3.7) TVD(5602.53)
VS(210.44) NS(79.18) EW(-801.90)

#53 MD(5804.00) Inc(22.5) Azm(13.4) TVD(5691.38)
VS(242.26) NS(112.31) EW(-796.69)

#54 MD(5899.00) Inc(30.6) Azm(15.1) TVD(5776.29)
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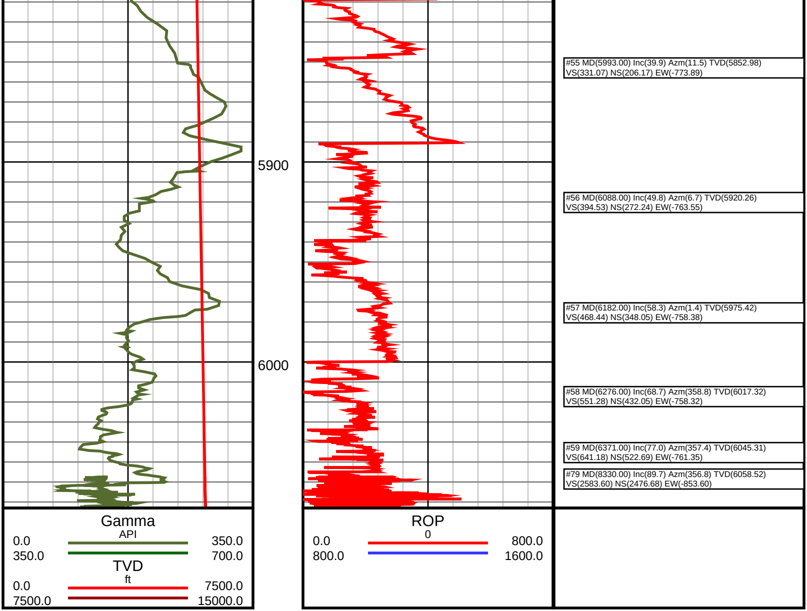

#55 MD(5993.00) Inc(39.9) Azm(11.5) TVD(5852.98)
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#56 MD(6088.00) Inc(49.8) Azm(6.7) TVD(5920.26)
VS(394.53) NS(272.24) EW(-763.55)

#57 MD(6182.00) Inc(58.3) Azm(1.4) TVD(5975.42)
VS(468.44) NS(348.05) EW(-758.38)

#58 MD(6276.00) Inc(68.7) Azm(358.8) TVD(6017.32)
VS(551.28) NS(432.05) EW(-758.32)

#59 MD(6371.00) Inc(77.0) Azm(357.4) TVD(6045.31)
VS(641.18) NS(522.69) EW(-761.35)

#79 MD(8330.00) Inc(89.7) Azm(356.8) TVD(6058.52)
VS(2583.60) NS(2476.68) EW(-853.60)