Sharewell Energy Services

Nakagawa B13-62-1HN

MD
1":100'

Company: Noble Energy
Well Name: Nakagawa B13-62-1HN
UWI or LSD:
Rig Id: H&P 330
State: Co
County/Parish: Weld
Country: USA
Survey Company: SHAREWELL ENERGY
Job number: 20130610
Marco Rolong Lead DD
Jeremy Cook Day DD
Scott Summers Night DD
Tega Iyezsa Night DD
Adam Stormer Lead MWD
Mike Hurte Night MWD

Log measurements:
Depth measured from:
Maximum temperature: 239F

	Depth	Date
Start:	630 ft	06/23/2013
End:	10994 ft	06/29/2013

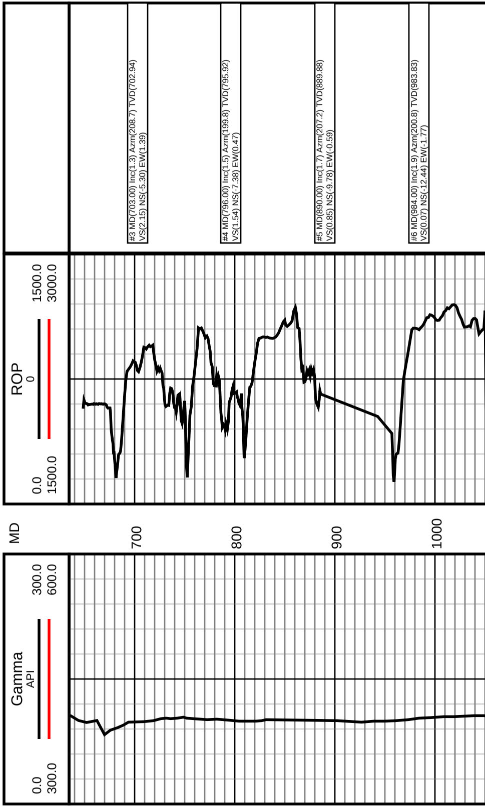
Casing	Depth	Size
Surface:	630	9 5/8
Intermediate:	6960	7

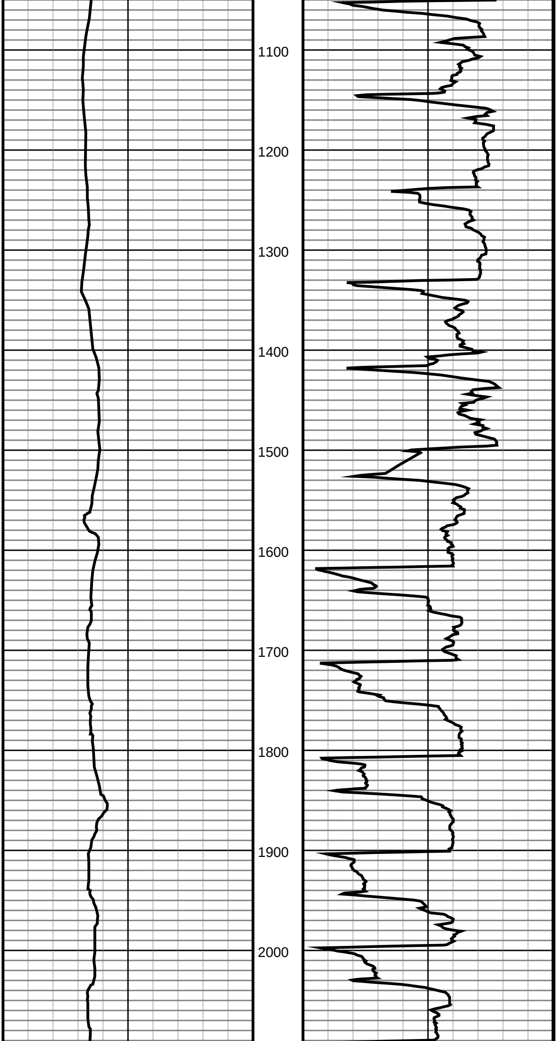
Mud Type: OBM
Density: 9.6
Viscosity: 32
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4600
GL: 4570
DF: 4600

		Offsets		Depths		Dates	
Run	**Bit Size**	**Gamma**	**Survey**	**Start**	**End**	**Start**	**End**
1	8.75	54.58	68.00	630	5823	06/23/2013	06/24/2013
2	8.75	46.00	59.00	5823	6278	06/24/2013	06/25/2013
3	8.75	46.00	59.00	6278	6965	06/25/2013	06/26/2013
4	6.125	52.43	66.00	6965		06/27/2013	
5							
6							
7							
8							
9							
10							

SHAREWELL ENERGY 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(-0.64) NS(-15.22) EW(-2.89)

#8 MD(1173.00) Inc(1.9) Azm(208.8) TVD(1172.74)
VS(-1.56) NS(-17.93) EW(-4.23)

#9 MD(1267.00) Inc(1.8) Azm(207.1) TVD(1266.69)
VS(-2.56) NS(-20.57) EW(-5.63)

#10 MD(1360.00) Inc(1.6) Azm(195.6) TVD(1359.65)
VS(-3.19) NS(-23.11) EW(-6.64)

#11 MD(1454.00) Inc(1.6) Azm(197.6) TVD(1453.61)
VS(-3.56) NS(-25.63) EW(-7.39)

#12 MD(1549.00) Inc(1.4) Azm(210.7) TVD(1548.58)
VS(-4.23) NS(-27.95) EW(-8.41)

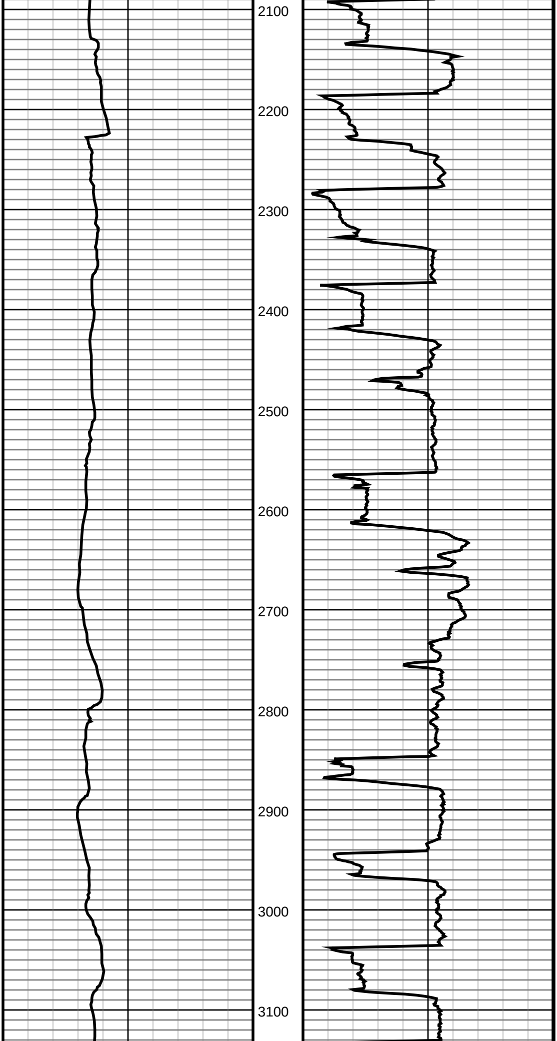
#13 MD(1644.00) Inc(3.1) Azm(202.7) TVD(1643.50)
VS(-5.32) NS(-31.37) EW(-10.02)

#14 MD(1739.00) Inc(4.7) Azm(197.6) TVD(1738.28)
VS(-6.58) NS(-37.44) EW(-12.18)

#15 MD(1834.00) Inc(6.4) Azm(192.8) TVD(1832.84)
VS(-7.60) NS(-46.25) EW(-14.52)

#16 MD(1929.00) Inc(8.6) Azm(195.4) TVD(1927.02)
VS(-8.87) NS(-58.26) EW(-17.58)

#17 MD(2023.00) Inc(10.6) Azm(192.2) TVD(2019.70)
VS(-10.29) NS(-73.50) EW(-21.27)



#18 MD(2118.00) Inc(11.3) Azm(187.8) TVD(2112.97)
VS(-10.78) NS(-91.25) EW(-24.39)

#19 MD(2213.00) Inc(12.6) Azm(191.4) TVD(2205.91)
VS(-11.23) NS(-110.64) EW(-27.71)

#20 MD(2307.00) Inc(13.4) Azm(191.1) TVD(2297.49)
VS(-12.27) NS(-131.41) EW(-31.83)

#21 MD(2402.00) Inc(15.5) Azm(191.2) TVD(2389.49)
VS(-13.41) NS(-154.65) EW(-36.42)

#22 MD(2497.00) Inc(13.8) Azm(189.1) TVD(2481.40)
VS(-14.18) NS(-178.26) EW(-40.69)

#23 MD(2591.00) Inc(15.8) Azm(190.5) TVD(2572.28)
VS(-14.80) NS(-201.90) EW(-44.81)

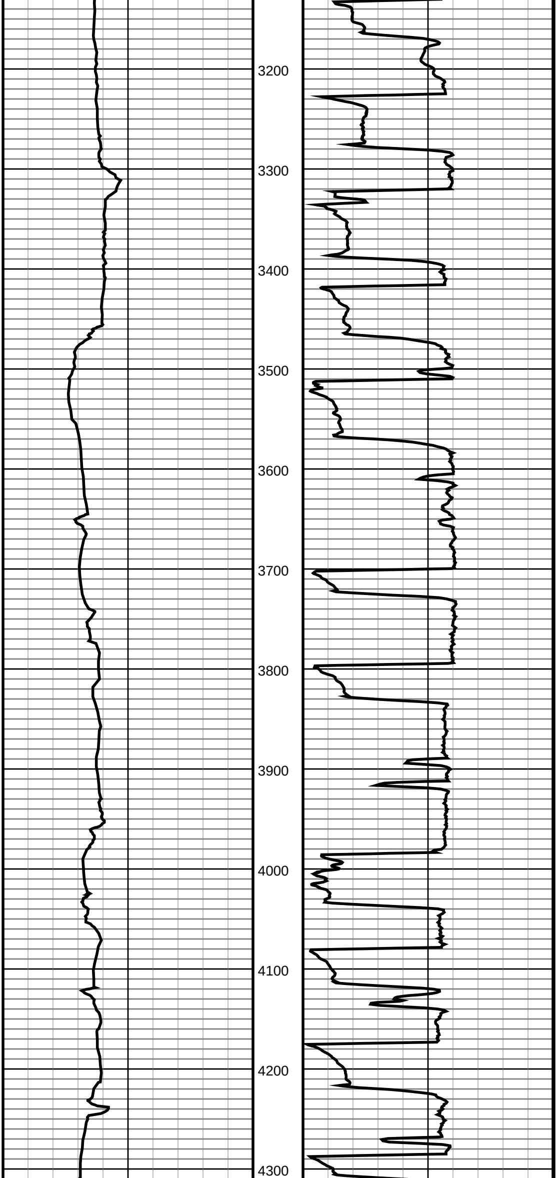
#24 MD(2686.00) Inc(17.5) Azm(190.1) TVD(2663.30)
VS(-15.70) NS(-228.65) EW(-49.68)

#25 MD(2780.00) Inc(15.4) Azm(189.1) TVD(2753.46)
VS(-16.28) NS(-254.87) EW(-54.14)

#26 MD(2875.00) Inc(14.4) Azm(189.3) TVD(2845.26)
VS(-16.63) NS(-278.98) EW(-58.06)

#27 MD(2970.00) Inc(14.1) Azm(183.9) TVD(2937.34)
VS(-15.90) NS(-302.21) EW(-60.75)

#28 MD(3064.00) Inc(12.1) Azm(192.7) TVD(3028.89)
VS(-15.73) NS(-323.28) EW(-63.70)



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VS(-17.71) NS(-341.96) EW(-68.46)

#30 MD(3254.00) Inc(11.1) Azm(198.5) TVD(3215.10)
VS(-20.55) NS(-359.56) EW(-73.93)

#31 MD(3348.00) Inc(11.8) Azm(198.9) TVD(3307.24)
VS(-23.88) NS(-377.21) EW(-79.91)

#32 MD(3443.00) Inc(14.0) Azm(200.6) TVD(3399.84)
VS(-28.07) NS(-397.16) EW(-87.09)

#33 MD(3538.00) Inc(17.1) Azm(200.4) TVD(3491.35)
VS(-33.38) NS(-420.99) EW(-95.99)

#34 MD(3633.00) Inc(19.6) Azm(199.2) TVD(3581.52)
VS(-39.28) NS(-449.13) EW(-106.11)

#35 MD(3728.00) Inc(20.2) Azm(196.3) TVD(3670.84)
VS(-44.52) NS(-479.94) EW(-115.96)

#36 MD(3823.00) Inc(17.9) Azm(193.4) TVD(3760.63)
VS(-48.04) NS(-509.90) EW(-123.95)

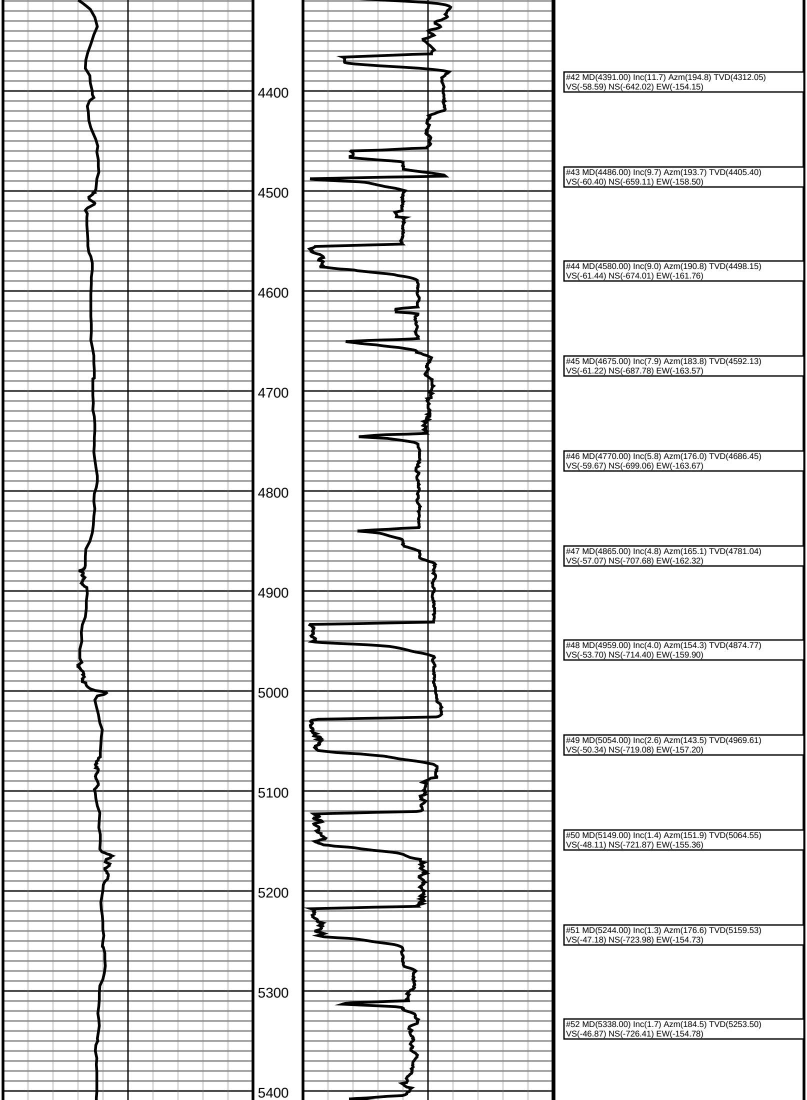
#37 MD(3918.00) Inc(14.5) Azm(192.3) TVD(3851.83)
VS(-50.14) NS(-535.76) EW(-129.89)

#38 MD(4012.00) Inc(13.2) Azm(190.0) TVD(3943.09)
VS(-51.24) NS(-557.86) EW(-134.27)

#39 MD(4107.00) Inc(14.0) Azm(190.8) TVD(4035.42)
VS(-52.02) NS(-579.87) EW(-138.32)

#40 MD(4201.00) Inc(13.7) Azm(194.8) TVD(4126.69)
VS(-53.73) NS(-601.79) EW(-143.29)

#41 MD(4296.00) Inc(12.7) Azm(195.5) TVD(4219.19)
VS(-56.25) NS(-622.68) EW(-148.92)



#42 MD(4391.00) Inc(11.7) Azm(194.8) TVD(4312.05)
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#43 MD(4486.00) Inc(9.7) Azm(193.7) TVD(4405.40)
VS(-60.40) NS(-659.11) EW(-158.50)

#44 MD(4580.00) Inc(9.0) Azm(190.8) TVD(4498.15)
VS(-61.44) NS(-674.01) EW(-161.76)

#45 MD(4675.00) Inc(7.9) Azm(183.8) TVD(4592.13)
VS(-61.22) NS(-687.78) EW(-163.57)

#46 MD(4770.00) Inc(5.8) Azm(176.0) TVD(4686.45)
VS(-59.67) NS(-699.06) EW(-163.67)

#47 MD(4865.00) Inc(4.8) Azm(165.1) TVD(4781.04)
VS(-57.07) NS(-707.68) EW(-162.32)

#48 MD(4959.00) Inc(4.0) Azm(154.3) TVD(4874.77)
VS(-53.70) NS(-714.40) EW(-159.90)

#49 MD(5054.00) Inc(2.6) Azm(143.5) TVD(4969.61)
VS(-50.34) NS(-719.08) EW(-157.20)

#50 MD(5149.00) Inc(1.4) Azm(151.9) TVD(5064.55)
VS(-48.11) NS(-721.87) EW(-155.36)

#51 MD(5244.00) Inc(1.3) Azm(176.6) TVD(5159.53)
VS(-47.18) NS(-723.98) EW(-154.73)

#52 MD(5338.00) Inc(1.7) Azm(184.5) TVD(5253.50)
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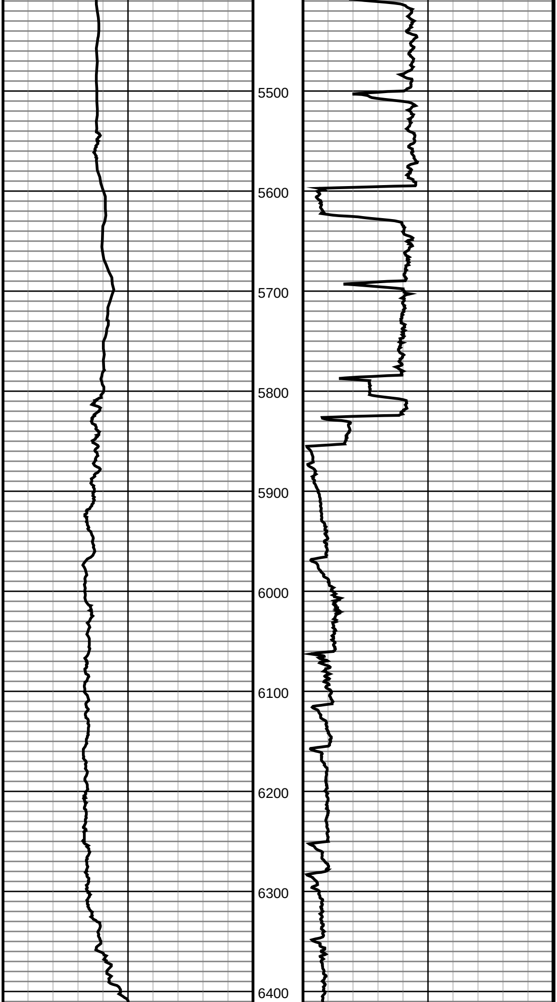

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#54 MD(5528.00) Inc(1.5) Azm(168.4) TVD(5443.43)
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#55 MD(5623.00) Inc(0.8) Azm(136.8) TVD(5538.41)
VS(-45.94) NS(-733.11) EW(-154.82)

#56 MD(5718.00) Inc(0.7) Azm(125.2) TVD(5633.40)
VS(-44.91) NS(-733.92) EW(-153.90)

#57 MD(5755.00) Inc(0.8) Azm(110.2) TVD(5670.40)
VS(-44.44) NS(-734.14) EW(-153.46)

#58 MD(5813.00) Inc(0.8) Azm(129.5) TVD(5728.39)
VS(-43.68) NS(-734.55) EW(-152.75)

#59 MD(5908.00) Inc(5.5) Azm(88.1) TVD(5823.23)
VS(-38.62) NS(-734.82) EW(-147.68)

#60 MD(5956.00) Inc(11.1) Azm(86.8) TVD(5870.70)
VS(-31.83) NS(-734.49) EW(-140.77)

#61 MD(6002.00) Inc(11.9) Azm(88.2) TVD(5915.78)
VS(-22.83) NS(-734.09) EW(-131.61)

#62 MD(6050.00) Inc(14.4) Azm(92.2) TVD(5962.52)
VS(-12.02) NS(-734.16) EW(-120.69)

#63 MD(6097.00) Inc(15.9) Azm(91.2) TVD(6007.88)
VS(0.18) NS(-734.52) EW(-108.42)

#64 MD(6192.00) Inc(20.8) Azm(87.4) TVD(6098.03)
VS(29.66) NS(-734.03) EW(-78.54)

#65 MD(6287.00) Inc(27.2) Azm(89.2) TVD(6184.77)
VS(67.69) NS(-732.96) EW(-39.93)

#66 MD(6382.00) Inc(41.8) Azm(92.4) TVD(6262.86)
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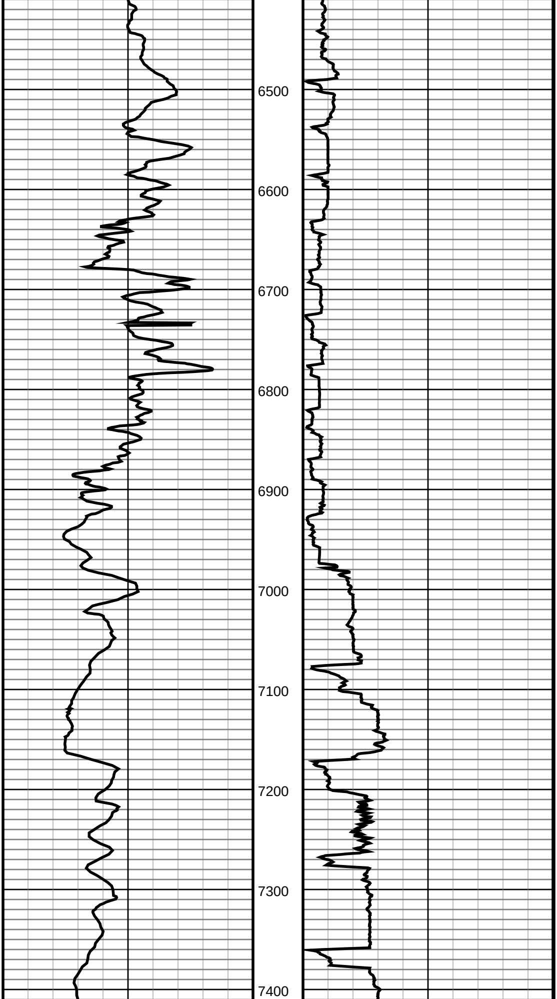

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#68 MD(6476.00) Inc(56.1) Azm(90.9) TVD(6323.62)
VS(191.81) NS(-736.10) EW(85.07)

#69 MD(6524.00) Inc(57.8) Azm(90.6) TVD(6349.80)
VS(231.68) NS(-736.62) EW(125.29)

#70 MD(6571.00) Inc(58.9) Azm(91.0) TVD(6374.46)
VS(271.34) NS(-737.18) EW(165.30)

#71 MD(6619.00) Inc(60.2) Azm(90.9) TVD(6398.79)
VS(312.37) NS(-737.87) EW(206.67)

#72 MD(6666.00) Inc(62.2) Azm(89.2) TVD(6421.43)
VS(353.11) NS(-737.90) EW(247.85)

#73 MD(6714.00) Inc(65.1) Azm(88.5) TVD(6442.73)
VS(395.52) NS(-737.03) EW(290.85)

#74 MD(6760.00) Inc(69.5) Azm(88.2) TVD(6460.48)
VS(437.29) NS(-735.81) EW(333.26)

#75 MD(6808.00) Inc(71.9) Azm(88.6) TVD(6476.34)
VS(481.90) NS(-734.55) EW(378.54)

#76 MD(6855.00) Inc(75.9) Azm(88.2) TVD(6489.38)
VS(526.36) NS(-733.28) EW(423.67)

#77 MD(6906.00) Inc(79.4) Azm(88.5) TVD(6500.28)
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#78 MD(7009.00) Inc(85.4) Azm(88.7) TVD(6513.90)
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#79 MD(7104.00) Inc(87.9) Azm(86.2) TVD(6519.45)
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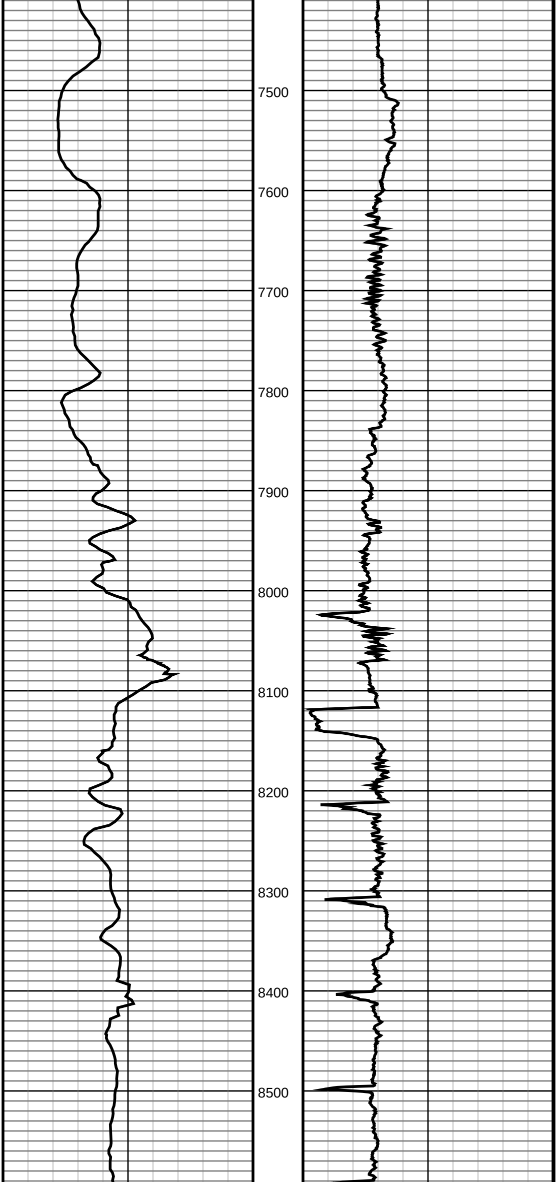

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#85 MD(7672.00) Inc(90.2) Azm(88.9) TVD(6514.56)
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#86 MD(7767.00) Inc(90.2) Azm(89.9) TVD(6514.23)
VS(1420.84) NS(-701.61) EW(1332.55)

#87 MD(7862.00) Inc(90.2) Azm(90.0) TVD(6513.90)
VS(1514.80) NS(-701.53) EW(1427.55)

#88 MD(7957.00) Inc(91.3) Azm(90.6) TVD(6512.65)
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#89 MD(8052.00) Inc(92.8) Azm(90.4) TVD(6509.25)
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#90 MD(8147.00) Inc(90.3) Azm(87.3) TVD(6506.68)
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#91 MD(8241.00) Inc(91.0) Azm(87.5) TVD(6505.62)
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#92 MD(8336.00) Inc(90.9) Azm(88.0) TVD(6504.04)
VS(1982.11) NS(-692.96) EW(1901.21)

#93 MD(8430.00) Inc(91.0) Azm(89.0) TVD(6502.48)
VS(2074.70) NS(-690.50) EW(1995.16)

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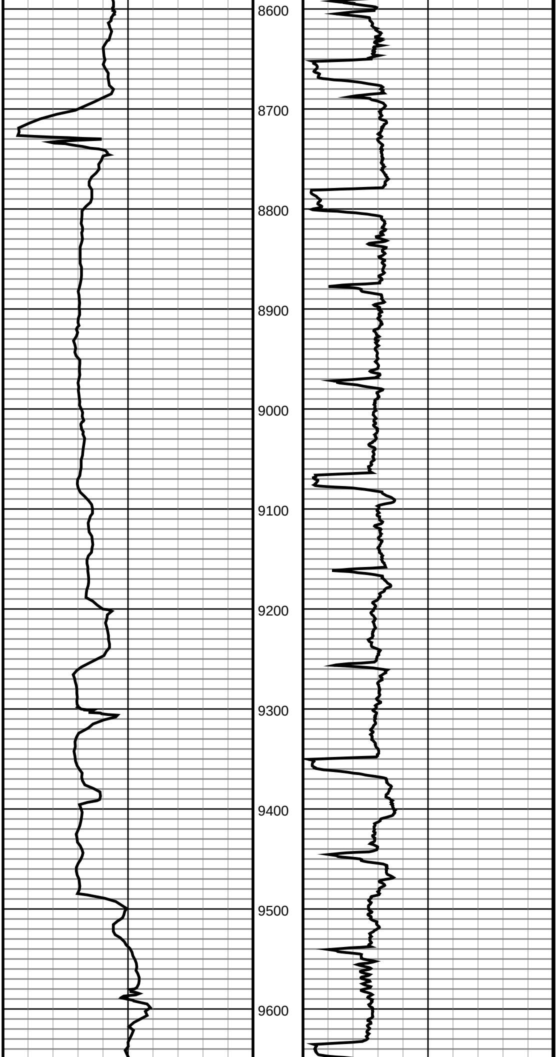

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#96 MD(8716.00) Inc(91.8) Azm(88.7) TVD(6498.15)
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#97 MD(8809.00) Inc(90.4) Azm(91.4) TVD(6496.36)
VS(2447.37) NS(-677.69) EW(2373.78)

#98 MD(8904.00) Inc(90.8) Azm(90.6) TVD(6495.37)
VS(2541.57) NS(-679.35) EW(2468.76)

#99 MD(8999.00) Inc(90.8) Azm(90.3) TVD(6494.04)
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#100 MD(9094.00) Inc(89.0) Azm(91.9) TVD(6494.21)
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#101 MD(9188.00) Inc(89.5) Azm(92.1) TVD(6495.44)
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#102 MD(9283.00) Inc(90.2) Azm(92.3) TVD(6495.69)
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#103 MD(9378.00) Inc(88.7) Azm(90.9) TVD(6496.60)
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#104 MD(9473.00) Inc(88.5) Azm(91.1) TVD(6498.92)
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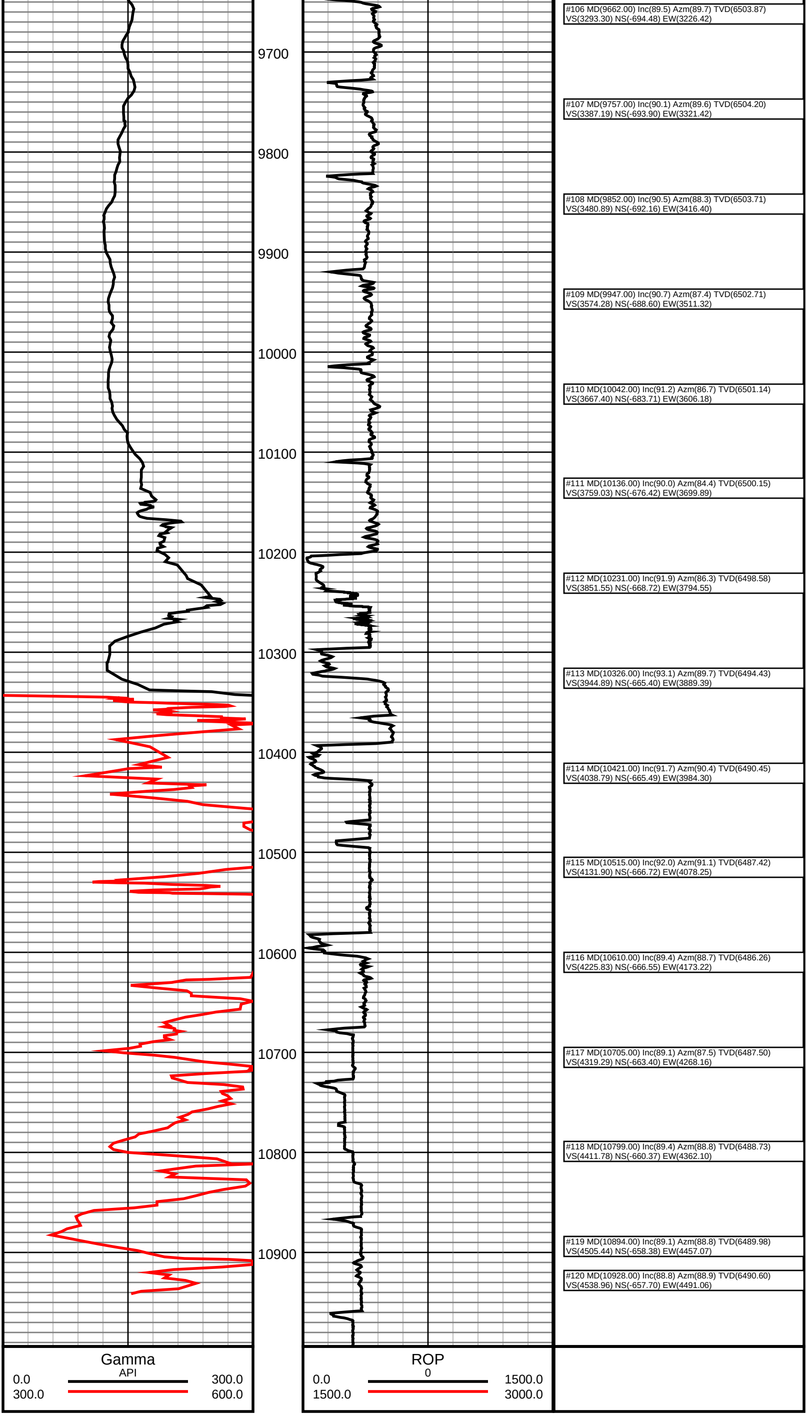
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VS(3387.19) NS(-693.90) EW(3321.42)
9800
#108 MD(9852.00) Inc(90.5) Azm(88.3) TVD(6503.71)
VS(3480.89) NS(-692.16) EW(3416.40)
9900
#109 MD(9947.00) Inc(90.7) Azm(87.4) TVD(6502.71)
VS(3574.28) NS(-688.60) EW(3511.32)
10000
#110 MD(10042.00) Inc(91.2) Azm(86.7) TVD(6501.14)
VS(3667.40) NS(-683.71) EW(3606.18)
10100
#111 MD(10136.00) Inc(90.0) Azm(84.4) TVD(6500.15)
VS(3759.03) NS(-676.42) EW(3699.89)
10200
#112 MD(10231.00) Inc(91.9) Azm(86.3) TVD(6498.58)
VS(3851.55) NS(-668.72) EW(3794.55)
10300
#113 MD(10326.00) Inc(93.1) Azm(89.7) TVD(6494.43)
VS(3944.89) NS(-665.40) EW(3889.39)
10400
#114 MD(10421.00) Inc(91.7) Azm(90.4) TVD(6490.45)
VS(4038.79) NS(-665.49) EW(3984.30)
10500
#115 MD(10515.00) Inc(92.0) Azm(91.1) TVD(6487.42)
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10600
#116 MD(10610.00) Inc(89.4) Azm(88.7) TVD(6486.26)
VS(4225.83) NS(-666.55) EW(4173.22)
10700
#117 MD(10705.00) Inc(89.1) Azm(87.5) TVD(6487.50)
VS(4319.29) NS(-663.40) EW(4268.16)
10800
#118 MD(10799.00) Inc(89.4) Azm(88.8) TVD(6488.73)
VS(4411.78) NS(-660.37) EW(4362.10)
10900
#119 MD(10894.00) Inc(89.1) Azm(88.8) TVD(6489.98)
VS(4505.44) NS(-658.38) EW(4457.07)
#120 MD(10928.00) Inc(88.8) Azm(88.9) TVD(6490.60)
VS(4538.96) NS(-657.70) EW(4491.06)
Gamma
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300.0
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ROP
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