ENSIGN Directional Services

Rohn State LD10-64HN

MD
5":100'

Company: Noble Energy
Well Name: Rohn State LD10-64HN
API: 05-123-37625
Rig Id: Precision 829
State: Colorado
County/Parish: Weld
Country: USA
Survey Company: Ensign Directional
Job number: PD829-207-27
DD1 Zach Gentry
DD2 Colby Hansen
DD3 Tony Callow
MWD1 Andrew Demrow
MWD2 Buster Snider

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

	Depth	Date
Start:	1206 ft	10-20-2014
End:	ft	

Casing	Depth	Size
Surface:	1206	9
Intermediate:		

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

Elevations
KB: 16
GL: 4716
DF: 4732

Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	13.5			0	1216	10-19-2014	10-19-2014
2	8.75	59.87	54.87	1216	6059	10-20-2014	10-21-2014
3	6.125	66.00	61.00	6059		10-21-2014	
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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.

#3 MD(1228.00) Inc(0.1) Azm(39.5) TVD(1227.98)
VS(-5.24) NS(3.39) EW(-5.25)

#4 MD(1326.00) Inc(0.4) Azm(7.2) TVD(1325.98)
VS(-5.14) NS(3.80) EW(-5.16)

#5 MD(1421.00) Inc(0.5) Azm(50.1) TVD(1420.97)
VS(-4.78) NS(4.39) EW(-4.80)

#6 MD(1514.00) Inc(0.7) Azm(321.2) TVD(1513.97)
VS(-4.82) NS(5.09) EW(-4.84)

#7 MD(1607.00) Inc(1.1) Azm(323.7) TVD(1606.96)
VS(-5.70) NS(6.26) EW(-5.73)

#8 MD(1701.00) Inc(0.8) Azm(316.3) TVD(1700.95)
VS(-6.68) NS(7.46) EW(-6.71)

#9 MD(1794.00) Inc(1.3) Azm(194.3) TVD(1793.94)
VS(-7.39) NS(6.90) EW(-7.42)

#10 MD(1887.00) Inc(2.9) Azm(174.3) TVD(1886.87)
VS(-7.43) NS(3.54) EW(-7.45)

#11 MD(1980.00) Inc(3.6) Azm(156.4) TVD(1979.73)
VS(-6.05) NS(-1.48) EW(-6.05)

#12 MD(2073.00) Inc(4.1) Azm(174.3) TVD(2072.52)
VS(-4.58) NS(-7.46) EW(-4.55)

#13 MD(2166.00) Inc(6.1) Azm(176.7) TVD(2165.15)
VS(-4.00) NS(-15.70) EW(-3.93)

#14 MD(2258.00) Inc(8.1) Azm(171.3) TVD(2256.44)
VS(-2.79) NS(-26.99) EW(-2.67)

#15 MD(2351.00) Inc(8.9) Azm(164.8) TVD(2348.42)
VS(0.02) NS(-40.41) EW(0.21)

#16 MD(2445.00) Inc(10.2) Azm(155.7) TVD(2441.12)
VS(5.29) NS(-55.01) EW(5.54)

#17 MD(2538.00) Inc(11.1) Azm(142.4) TVD(2532.53)
VS(14.07) NS(-69.61) EW(14.39)

#18 MD(2627.00) Inc(10.4) Azm(126.8) TVD(2619.98)
VS(25.68) NS(-81.22) EW(26.05)

#19 MD(2717.00) Inc(10.4) Azm(115.2) TVD(2708.52)
VS(39.50) NS(-89.54) EW(39.91)

#20 MD(2807.00) Inc(9.5) Azm(113.1) TVD(2797.16)
VS(53.66) NS(-95.92) EW(54.09)

#21 MD(2896.00) Inc(9.1) Azm(107.6) TVD(2884.99)
VS(67.10) NS(-100.92) EW(67.56)

#22 MD(2986.00) Inc(8.3) Azm(97.7) TVD(2973.96)
VS(80.31) NS(-103.95) EW(80.78)

#23 MD(3076.00) Inc(7.9) Azm(96.2) TVD(3063.06)
VS(92.88) NS(-105.49) EW(93.36)

#24 MD(3165.00) Inc(7.9) Azm(95.3) TVD(3151.22)
VS(105.05) NS(-106.71) EW(105.53)

#25 MD(3255.00) Inc(7.9) Azm(93.7) TVD(3240.37)
VS(117.38) NS(-107.68) EW(117.87)

#26 MD(3344.00) Inc(7.7) Azm(93.6) TVD(3328.54)
VS(129.43) NS(-108.45) EW(129.92)

#27 MD(3434.00) Inc(7.3) Azm(96.9) TVD(3417.77)
VS(141.12) NS(-109.52) EW(141.61)

#28 MD(3523.00) Inc(7.3) Azm(95.8) TVD(3506.05)
VS(152.35) NS(-110.77) EW(152.85)

#29 MD(3613.00) Inc(5.8) Azm(92.8) TVD(3595.47)
VS(162.55) NS(-110.77) EW(163.05)

#30 MD(3702.00) Inc(4.0) Azm(79.4) TVD(3684.14)
VS(170.07) NS(-109.64) EW(170.57)

#31 MD(3792.00) Inc(1.6) Azm(79.0) TVD(3774.02)
VS(174.39) NS(-108.82) EW(174.89)

#32 MD(3882.00) Inc(0.7) Azm(49.7) TVD(3864.00)
VS(176.05) NS(-108.23) EW(176.54)

#33 MD(3971.00) Inc(0.6) Azm(46.7) TVD(3953.00)
VS(176.80) NS(-107.56) EW(177.29)

#34 MD(4061.00) Inc(1.0) Azm(49.7) TVD(4042.99)
VS(177.75) NS(-106.73) EW(178.24)

#35 MD(4151.00) Inc(1.0) Azm(32.3) TVD(4132.98)
VS(178.77) NS(-105.55) EW(179.25)

#36 MD(4240.00) Inc(1.6) Azm(6.5) TVD(4221.95)
VS(179.34) NS(-103.66) EW(179.81)

#37 MD(4330.00) Inc(1.5) Azm(9.4) TVD(4311.92)
VS(179.68) NS(-101.25) EW(180.14)

#38 MD(4419.00) Inc(0.9) Azm(342.6) TVD(4400.90)
VS(179.67) NS(-99.44) EW(180.13)

#39 MD(4509.00) Inc(1.1) Azm(335.6) TVD(4490.89)
VS(179.11) NS(-97.97) EW(179.56)

#40 MD(4598.00) Inc(1.4) Azm(307.4) TVD(4579.87)
VS(177.90) NS(-96.54) EW(178.34)

#41 MD(4688.00) Inc(0.6) Azm(236.6) TVD(4669.86)
VS(176.64) NS(-96.13) EW(177.07)

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#94 MD(8374.00) Inc(90.3) Azm(87.8) TVD(5651.64) VS(3182.96) NS(-26.74) EW(3183.12)

#95 MD(8463.00) Inc(92.0) Azm(88.1) TVD(5649.85) VS(3271.90) NS(-23.55) EW(3272.04)

#96 MD(8553.00) Inc(91.1) Azm(89.0) TVD(5647.42) VS(3361.85) NS(-21.28) EW(3361.98)

#97 MD(8642.00) Inc(88.4) Azm(89.7) TVD(5647.80) VS(3450.83) NS(-20.27) EW(3450.96)

#98 MD(8732.00) Inc(88.8) Azm(89.8) TVD(5650.00) VS(3540.81) NS(-19.87) EW(3540.93)

#99 MD(8822.00) Inc(90.4) Azm(90.0) TVD(5650.63) VS(3630.80) NS(-19.72) EW(3630.93)

#100 MD(8912.00) Inc(92.2) Azm(89.2) TVD(5648.59) VS(3720.77) NS(-19.09) EW(3720.90)

#101 MD(9001.00) Inc(91.2) Azm(87.7) TVD(5645.95) VS(3809.71) NS(-16.68) EW(3809.82)

#102 MD(9091.00) Inc(89.7) Azm(87.0) TVD(5645.24) VS(3899.62) NS(-12.52) EW(3899.72)

#103 MD(9180.00) Inc(91.2) Azm(87.4) TVD(5644.54) VS(3988.53) NS(-8.17) EW(3988.61)

#104 MD(9270.00) Inc(91.5) Azm(88.6) TVD(5642.42) VS(4078.46) NS(-5.03) EW(4078.53)

#105 MD(9360.00) Inc(90.3) Azm(88.6) TVD(5641.01) VS(4168.43) NS(-2.84) EW(4168.49)

#106 MD(9449.00) Inc(91.2) Azm(88.8) TVD(5639.84) VS(4257.41) NS(-0.82) EW(4257.46)

#107 MD(9539.00) Inc(90.7) Azm(88.0) TVD(5638.35) VS(4347.37) NS(1.70) EW(4347.41)

#108 MD(9629.00) Inc(90.3) Azm(88.0) TVD(5637.57) VS(4437.33) NS(4.84) EW(4437.35)

#109 MD(9718.00) Inc(89.2) Azm(88.6) TVD(5637.96) VS(4526.30) NS(7.48) EW(4526.31)

#110 MD(9808.00) Inc(90.3) Azm(89.1) TVD(5638.35) VS(4616.28) NS(9.28) EW(4616.29)

#111 MD(9898.00) Inc(91.8) Azm(89.0) TVD(5636.70) VS(4706.26) NS(10.78) EW(4706.26)

#112 MD(9987.00) Inc(92.1) Azm(89.8) TVD(5633.67) VS(4795.20) NS(11.71) EW(4795.20)

#113 MD(10068.00) Inc(92.8) Azm(90.4) TVD(5630.21) VS(4876.13) NS(11.57) EW(4876.12)

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