ENSIGN Directional Services

Burton K25-67-1HN

MD
5":100'

Company:	Noble Energy
Well Name:	Burton K25-67-1HN
API:	05-123-38366
Rig Id:	Precision 829
State:	Colorado
County/Parish:	Weld
Country:	USA
Survey Company:	Ensign Directional
Job number:	PD829-207-30
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:	674 ft	11-19-2014
End:	ft	

Casing	**Depth**	**Size**
Surface:	664	9 5/8
Intermediate:		7

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

Elevations
KB: 16
GL: 4775
DF: 4791

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	13.5			0	674	11-18-2014	11-18-2014
2	8.75	59.45	54.45	674	7482	11-19-2014	11-22-2014
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.

#46 MD(4726.00) Inc(9.8) Azm(359.0) TVD(4706.63)
VS(37.44) NS(245.25) EW(13.02)

#47 MD(4816.00) Inc(11.3) Azm(359.5) TVD(4795.10)
VS(38.88) NS(261.73) EW(12.81)

#48 MD(4905.00) Inc(11.4) Azm(1.6) TVD(4882.36)
VS(40.80) NS(279.24) EW(12.98)

#49 MD(4995.00) Inc(10.4) Azm(357.8) TVD(4970.74)
VS(42.43) NS(296.25) EW(12.92)

#50 MD(5084.00) Inc(9.8) Azm(351.1) TVD(5058.36)
VS(42.51) NS(311.76) EW(11.44)

#51 MD(5174.00) Inc(8.2) Azm(347.4) TVD(5147.25)
VS(41.32) NS(325.59) EW(8.85)

#52 MD(5264.00) Inc(9.4) Azm(354.1) TVD(5236.19)
VS(40.53) NS(339.17) EW(6.70)

#53 MD(5353.00) Inc(9.8) Azm(354.6) TVD(5323.95)
VS(40.55) NS(353.94) EW(5.24)

#54 MD(5443.00) Inc(10.0) Azm(355.8) TVD(5412.61)
VS(40.80) NS(369.36) EW(3.94)

#55 MD(5533.00) Inc(9.4) Azm(3.5) TVD(5501.32)
VS(42.19) NS(384.49) EW(3.82)

#56 MD(5622.00) Inc(9.4) Azm(4.0) TVD(5589.13)
VS(44.58) NS(398.99) EW(4.77)

#57 MD(5712.00) Inc(9.3) Azm(7.6) TVD(5677.93)
VS(47.50) NS(413.53) EW(6.24)

#58 MD(5802.00) Inc(10.3) Azm(0.3) TVD(5766.62)
VS(50.02) NS(428.79) EW(7.25)

#59 MD(5891.00) Inc(10.5) Azm(6.2) TVD(5854.16)
VS(52.54) NS(444.81) EW(8.17)

#60 MD(5981.00) Inc(11.4) Azm(1.1) TVD(5942.52)
VS(55.29) NS(461.85) EW(9.22)

#61 MD(6070.00) Inc(11.6) Azm(356.7) TVD(6029.74)
VS(56.71) NS(479.58) EW(8.88)

#62 MD(6160.00) Inc(11.0) Azm(358.0) TVD(6117.99)
VS(57.66) NS(497.20) EW(8.06)

#63 MD(6250.00) Inc(9.5) Azm(2.0) TVD(6206.56)
VS(59.21) NS(513.20) EW(8.02)

#64 MD(6340.00) Inc(11.7) Azm(353.6) TVD(6295.02)
VS(60.11) NS(529.70) EW(7.26)

#65 MD(6429.00) Inc(13.1) Azm(356.6) TVD(6381.94)
VS(60.41) NS(548.73) EW(5.65)

#66 MD(6474.00) Inc(12.7) Azm(9.3) TVD(6425.82)
VS(61.90) NS(558.71) EW(6.15)

#67 MD(6519.00) Inc(13.3) Azm(25.2) TVD(6469.68)
VS(65.85) NS(568.28) EW(9.15)

#68 MD(6563.00) Inc(13.4) Azm(45.2) TVD(6512.51)
VS(72.41) NS(576.45) EW(14.93)

#69 MD(6608.00) Inc(14.0) Azm(53.9) TVD(6556.24)
VS(81.15) NS(583.33) EW(23.03)

#70 MD(6653.00) Inc(14.5) Azm(59.5) TVD(6599.85)
VS(90.97) NS(589.40) EW(32.28)

#71 MD(6698.00) Inc(16.4) Azm(67.6) TVD(6643.23)
VS(102.17) NS(594.68) EW(43.01)

#72 MD(6743.00) Inc(18.3) Azm(75.2) TVD(6686.19)
VS(115.23) NS(598.91) EW(55.72)

#73 MD(6787.00) Inc(21.9) Azm(76.4) TVD(6727.50)
VS(130.19) NS(602.60) EW(70.38)

#74 MD(6832.00) Inc(25.8) Azm(75.0) TVD(6768.65)
VS(148.17) NS(607.11) EW(88.00)

#75 MD(6877.00) Inc(29.4) Azm(75.5) TVD(6808.52)
VS(168.76) NS(612.41) EW(108.16)

#76 MD(6922.00) Inc(32.8) Azm(76.4) TVD(6847.05)
VS(191.76) NS(618.05) EW(130.71)

#77 MD(6967.00) Inc(36.0) Azm(79.6) TVD(6884.18)
VS(217.02) NS(623.30) EW(155.57)

#78 MD(7011.00) Inc(40.0) Azm(81.6) TVD(6918.84)
VS(244.05) NS(627.71) EW(182.29)

#79 MD(7056.00) Inc(44.8) Azm(82.1) TVD(6952.06)
VS(274.36) NS(632.00) EW(212.32)

#80 MD(7101.00) Inc(49.6) Azm(82.4) TVD(6982.63)
VS(307.34) NS(636.45) EW(245.03)

#81 MD(7146.00) Inc(54.5) Azm(82.6) TVD(7010.30)
VS(342.80) NS(641.08) EW(280.20)

#82 MD(7191.00) Inc(59.9) Azm(83.1) TVD(7034.66)
VS(380.60) NS(645.78) EW(317.71)

#83 MD(7236.00) Inc(62.2) Azm(84.4) TVD(7056.44)
VS(419.97) NS(650.06) EW(356.85)

#84 MD(7280.00) Inc(65.3) Azm(84.9) TVD(7075.90)
VS(459.43) NS(653.74) EW(396.14)

#85 MD(7325.00) Inc(70.7) Azm(85.6) TVD(7092.75)
VS(501.13) NS(657.18) EW(437.70)

#86 MD(7370.00) Inc(76.0) Azm(86.6) TVD(7105.64)
VS(544.21) NS(660.11) EW(480.70)

#87 MD(7415.00) Inc(80.8) Azm(86.7) TVD(7114.69)
VS(588.24) NS(662.69) EW(524.69)