Wiedeman 28E-234

ENSIGN Directional

TVD
2":100'

Company: Petroleum Development Corp.
Well Name: Wiedeman 28E-234
API: 05-123-40551-00
County/Parish: Weld
State: Colorado
Country: USA
Job number: 207-121-239
Field: DJ Basin
Rig Id: Ensign 121
Survey Company: Ensign Directional Services
Company Man 1 Dean Haight

Lead Directional Driller Brevin Williams
Rotating Directional Driller Dave Van Doran
Night Directional Driller Ramon Hernandez

MWD Ensign Directional Services

Log measurements: gamma, ROP
Depth measured from: Rig Floor
Maximum temperature: -------

	Depth	**Date**
Start:	0 ft	8-23-2015
End:	14219 ft	8-29-2015

Casing	**Depth**	**Size**
Surface:	931	9 5/8
Intermediate:	7512	7

Mud Type: H2O
Density:
Viscosity:
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4776
GL: 4763
DF: 4776

Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	12.25		61.12	0	943	8-23-2015	8-23-2015
2	8.75	62.32	57.32	943	7533	8-24-2015	8-26-2015
3	6 1/8	60.73	55.73	7533	14219	8-27-2015	8-29-2015
4							
5							
6							
7							
8							
9							
10							

Ensign Directional Services 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.

#10 MD(1007.00) Inc(5.2) Azm(345.6) TVD(1005.54)
VS(23.81) NS(36.34) EW(-20.95) TEMP(0.0)

#11 MD(1101.00) Inc(7.9) Azm(357.8) TVD(1098.93)
VS(25.97) NS(46.93) EW(-22.26) TEMP(0.0)

#12 MD(1194.00) Inc(9.1) Azm(351.6) TVD(1190.91)
VS(28.38) NS(60.59) EW(-23.58) TEMP(0.0)

#13 MD(1287.00) Inc(8.7) Azm(352.0) TVD(1282.79)
VS(31.58) NS(74.83) EW(-25.63) TEMP(0.0)

#14 MD(1386.00) Inc(10.3) Azm(351.1) TVD(1380.42)
VS(35.28) NS(90.99) EW(-28.04) TEMP(0.0)

#15 MD(1476.00) Inc(10.3) Azm(339.1) TVD(1468.98)
VS(40.63) NS(106.46) EW(-32.16) TEMP(0.0)

#16 MD(1569.00) Inc(11.1) Azm(334.4) TVD(1560.37)
VS(48.72) NS(122.30) EW(-38.99) TEMP(0.0)

#17 MD(1662.00) Inc(10.0) Azm(336.3) TVD(1651.80)
VS(57.05) NS(137.77) EW(-46.11) TEMP(0.0)

#18 MD(1756.00) Inc(9.4) Azm(325.2) TVD(1744.46)
VS(65.80) NS(151.55) EW(-53.77) TEMP(0.0)

#19 MD(1849.00) Inc(8.9) Azm(325.8) TVD(1836.28)
VS(75.13) NS(163.73) EW(-62.15) TEMP(0.0)

#20 MD(1946.00) Inc(8.0) Azm(323.5) TVD(1932.22)
VS(84.28) NS(175.36) EW(-70.38) TEMP(0.0)

#21 MD(2041.00) Inc(7.7) Azm(329.8) TVD(2026.33)
VS(92.26) NS(186.18) EW(-77.51) TEMP(0.0)

#22 MD(2137.00) Inc(7.5) Azm(326.1) TVD(2121.49)
VS(99.83) NS(196.94) EW(-84.24) TEMP(0.0)

#23 MD(2232.00) Inc(7.6) Azm(333.3) TVD(2215.67)
VS(106.96) NS(207.70) EW(-90.52) TEMP(0.0)

#24 MD(2328.00) Inc(7.3) Azm(331.2) TVD(2310.86)
VS(113.62) NS(218.71) EW(-96.32) TEMP(0.0)

#25 MD(2424.00) Inc(7.4) Azm(327.4) TVD(2406.07)
VS(120.72) NS(229.27) EW(-102.58) TEMP(0.0)

#26 MD(2519.00) Inc(7.8) Azm(327.4) TVD(2500.24)
VS(128.32) NS(239.85) EW(-109.35) TEMP(0.0)

#27 MD(2615.00) Inc(8.4) Azm(335.4) TVD(2595.28)
VS(135.88) NS(251.71) EW(-115.78) TEMP(0.0)

#28 MD(2710.00) Inc(8.4) Azm(332.1) TVD(2689.26)
VS(142.80) NS(264.16) EW(-121.92) TEMP(0.0)

#29 MD(2806.00) Inc(8.4) Azm(329.5) TVD(2784.23)
VS(150.60) NS(276.39) EW(-128.76) TEMP(0.0)

#30 MD(2902.00) Inc(8.0) Azm(338.1) TVD(2879.25)
VS(157.62) NS(288.63) EW(-134.81) TEMP(0.0)

#31 MD(2997.00) Inc(7.9) Azm(334.9) TVD(2973.34)
VS(163.81) NS(300.68) EW(-140.04) TEMP(0.0)

#32 MD(3092.00) Inc(8.1) Azm(337.4) TVD(3067.42)
VS(170.11) NS(312.77) EW(-145.39) TEMP(0.0)

#33 MD(3188.00) Inc(7.8) Azm(336.5) TVD(3162.50)
VS(176.27) NS(324.99) EW(-150.58) TEMP(0.0)

#34 MD(3283.00) Inc(6.6) Azm(339.0) TVD(3256.74)
VS(181.67) NS(336.00) EW(-155.11) TEMP(0.0)

#35 MD(3379.00) Inc(6.5) Azm(335.3) TVD(3352.12)
VS(186.72) NS(346.09) EW(-159.36) TEMP(0.0)

#36 MD(3474.00) Inc(6.2) Azm(332.3) TVD(3446.54)
VS(192.09) NS(355.51) EW(-163.99) TEMP(0.0)

#37 MD(3569.00) Inc(6.2) Azm(330.3) TVD(3540.98)
VS(197.73) NS(364.51) EW(-168.91) TEMP(0.0)

#38 MD(3665.00) Inc(6.6) Azm(326.6) TVD(3636.38)
VS(204.05) NS(373.62) EW(-174.52) TEMP(0.0)

#39 MD(3760.00) Inc(6.8) Azm(335.3) TVD(3730.74)
VS(210.16) NS(383.29) EW(-179.88) TEMP(0.0)

#40 MD(3856.00) Inc(7.0) Azm(335.3) TVD(3826.04)
VS(215.81) NS(393.77) EW(-184.70) TEMP(0.0)

#41 MD(3951.00) Inc(7.1) Azm(334.0) TVD(3920.32)
VS(221.64) NS(404.30) EW(-189.69) TEMP(0.0)

#42 MD(4047.00) Inc(6.7) Azm(331.4) TVD(4015.63)
VS(227.73) NS(414.55) EW(-194.97) TEMP(0.0)

#43 MD(4142.00) Inc(7.0) Azm(333.9) TVD(4109.95)
VS(233.72) NS(424.62) EW(-200.17) TEMP(0.0)

#44 MD(4237.00) Inc(7.5) Azm(342.6) TVD(4204.19)
VS(239.00) NS(435.73) EW(-204.57) TEMP(0.0)

#45 MD(4333.00) Inc(7.0) Azm(341.6) TVD(4299.42)
VS(243.64) NS(447.26) EW(-208.29) TEMP(0.0)

#46 MD(4428.00) Inc(7.2) Azm(337.4) TVD(4393.70)
VS(248.63) NS(458.25) EW(-212.41) TEMP(0.0)

#47 MD(4524.00) Inc(7.0) Azm(334.2) TVD(4488.96)
VS(254.34) NS(469.07) EW(-217.26) TEMP(0.0)

#48 MD(4619.00) Inc(6.9) Azm(332.3) TVD(4583.26)
VS(260.32) NS(479.33) EW(-222.44) TEMP(0.0)

#49 MD(4715.00) Inc(7.4) Azm(337.7) TVD(4678.52)
VS(266.20) NS(490.16) EW(-227.46) TEMP(0.0)

#50 MD(4810.00) Inc(6.7) Azm(337.4) TVD(4772.80)
VS(271.51) NS(500.94) EW(-231.91) TEMP(0.0)

#51 MD(4905.00) Inc(6.5) Azm(334.0) TVD(4867.17)
VS(276.78) NS(510.89) EW(-236.40) TEMP(0.0)

#52 MD(5001.00) Inc(6.4) Azm(334.2) TVD(4962.56)
VS(282.26) NS(520.59) EW(-241.11) TEMP(0.0)

#53 MD(5096.00) Inc(5.6) Azm(328.6) TVD(5057.04)
VS(287.67) NS(529.31) EW(-245.83) TEMP(0.0)

#54 MD(5191.00) Inc(7.0) Azm(323.7) TVD(5151.47)
VS(294.18) NS(537.93) EW(-251.67) TEMP(0.0)

#55 MD(5287.00) Inc(7.6) Azm(326.5) TVD(5246.69)
VS(301.93) NS(547.94) EW(-258.64) TEMP(0.0)

#56 MD(5382.00) Inc(8.1) Azm(326.6) TVD(5340.80)
VS(309.93) NS(558.77) EW(-265.79) TEMP(0.0)

#57 MD(5478.00) Inc(8.1) Azm(336.7) TVD(5435.84)
VS(317.27) NS(570.63) EW(-272.19) TEMP(0.0)

#58 MD(5573.00) Inc(6.9) Azm(338.4) TVD(5530.03)
VS(322.92) NS(582.08) EW(-276.94) TEMP(0.0)

#59 MD(5669.00) Inc(6.2) Azm(343.3) TVD(5625.40)
VS(327.36) NS(592.41) EW(-280.55) TEMP(0.0)

#60 MD(5764.00) Inc(4.9) Azm(342.6) TVD(5719.96)
VS(330.74) NS(601.19) EW(-283.24) TEMP(0.0)

#61 MD(5860.00) Inc(4.5) Azm(334.9) TVD(5815.63)
VS(334.15) NS(608.51) EW(-286.06) TEMP(0.0)

#62 MD(5955.00) Inc(3.1) Azm(334.0) TVD(5910.42)
VS(337.30) NS(614.20) EW(-288.77) TEMP(0.0)

#63 MD(6050.00) Inc(1.5) Azm(354.1) TVD(6005.34)
VS(338.84) NS(617.74) EW(-290.02) TEMP(134.5)

#64 MD(6146.00) Inc(1.8) Azm(272.0) TVD(6101.32)
VS(340.57) NS(619.05) EW(-291.66) TEMP(149.3)

#65 MD(6241.00) Inc(1.2) Azm(323.7) TVD(6196.29)
VS(342.72) NS(619.90) EW(-293.74) TEMP(149.3)

#66 MD(6337.00) Inc(1.0) Azm(301.2) TVD(6292.27)
VS(344.12) NS(621.14) EW(-295.05) TEMP(149.3)

#67 MD(6432.00) Inc(6.2) Azm(291.0) TVD(6387.05)
VS(349.79) NS(623.41) EW(-300.55) TEMP(149.3)

#68 MD(6479.00) Inc(9.3) Azm(283.8) TVD(6433.62)
VS(355.98) NS(625.23) EW(-306.61) TEMP(164.1)

#69 MD(6528.00) Inc(14.2) Azm(279.7) TVD(6481.58)
VS(365.88) NS(627.19) EW(-316.39) TEMP(164.1)

#70 MD(6575.00) Inc(20.0) Azm(276.0) TVD(6526.48)
VS(379.67) NS(629.00) EW(-330.08) TEMP(164.1)

#71 MD(6623.00) Inc(24.8) Azm(272.0) TVD(6570.85)
VS(397.94) NS(630.21) EW(-348.31) TEMP(164.1)

#72 MD(6670.00) Inc(27.3) Azm(270.4) TVD(6613.07)
VS(418.54) NS(630.63) EW(-368.94) TEMP(164.1)

#73 MD(6718.00) Inc(29.5) Azm(269.9) TVD(6655.29)
VS(441.30) NS(630.69) EW(-391.77) TEMP(164.1)

#74 MD(6765.00) Inc(31.0) Azm(266.9) TVD(6695.89)
VS(464.83) NS(630.01) EW(-415.43) TEMP(164.1)

#75 MD(6814.00) Inc(34.2) Azm(265.8) TVD(6737.17)
VS(490.95) NS(628.32) EW(-441.77) TEMP(164.1)

#76 MD(6861.00) Inc(38.3) Azm(266.0) TVD(6775.06)
VS(518.41) NS(626.34) EW(-469.49) TEMP(164.1)

#77 MD(6909.00) Inc(41.2) Azm(268.5) TVD(6811.96)
VS(548.85) NS(624.89) EW(-500.14) TEMP(164.1)

#78 MD(6956.00) Inc(44.5) Azm(268.8) TVD(6846.42)
VS(580.63) NS(624.13) EW(-532.09) TEMP(164.1)

#79 MD(7005.00) Inc(47.1) Azm(271.1) TVD(6880.58)
VS(615.64) NS(624.12) EW(-567.21) TEMP(164.1)

#80 MD(7052.00) Inc(49.9) Azm(270.9) TVD(6911.72)
VS(650.76) NS(624.73) EW(-602.40) TEMP(164.1)

#81 MD(7100.00) Inc(53.5) Azm(271.1) TVD(6941.46)
VS(688.35) NS(625.39) EW(-640.06) TEMP(164.1)

#82 MD(7147.00) Inc(56.6) Azm(270.0) TVD(6968.38)
VS(726.77) NS(625.75) EW(-678.58) TEMP(164.1)

#83 MD(7195.00) Inc(60.8) Azm(268.3) TVD(6993.32)
VS(767.59) NS(625.13) EW(-719.57) TEMP(164.1)

#84 MD(7242.00) Inc(65.5) Azm(267.4) TVD(7014.54)
VS(809.22) NS(623.55) EW(-761.46) TEMP(164.1)

#159 MD(14164.00) Inc(92.2) Azm(267.1) TVD(7036.56)
VS(7697.47) NS(620.20) EW(-7672.45) TEMP(252.9)