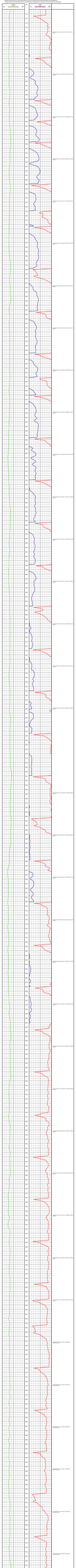

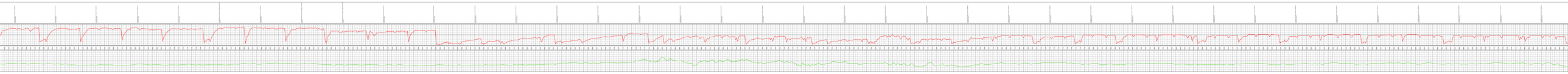

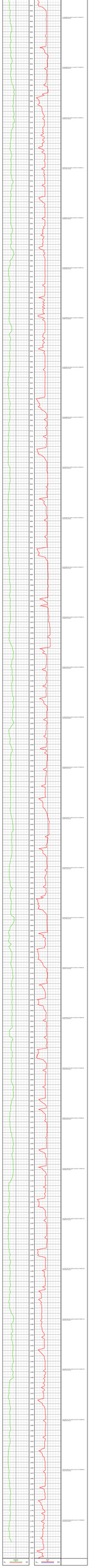

Extraction_WS-Sunrise 1-5-5_Patterson 346

MD
5":100'

Company: Extraction Oil & Gas
Well Name: WS-Sunrise 1-5-5
API: 05-123-46047
County/Parish: Weld
State: Colorado
Country: United States of America
Job number: 18185EX-CO
Field: DJ Basin
Rig Id: Patterson #346
Survey Company: Integrity Directional Services
DAY HAND Ben Kilby
NIGHT HAND Eric Smith

Log measurements: Gamma
Depth measured from: Drill Floor ft
Maximum temperature: 255.5

	Depth	**Date**
Start:	1530 ft	03/15/2018
End:	11830 ft	03/18/2018

Casing	**Depth**	**Size**
Surface:	1575 ft	9.625"
Intermediate:		

Mud Type: Oil Base
Density: 10.0
Viscosity: 38
Rm: N/A **Rmf:** N/A **Rmc:** N/A

Elevations
KB: 25 ft
GL: 4641 ft
DF: 4616 ft

Run	**Bit Size**	**Offsets**		**Depths**		**Dates**	
		Gamma	**Survey**	**Start**	**End**	**Start**	**End**
1	8.5"	30.34 ft	56.00 ft	1530 ft	11830 ft	03/15/2018	03/18/2018
2							
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Integrity 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.

#2 MD(1752.00) Inc(2.5) Azm(231.5) TVD(1751.51) VS(9.87) DLS(0.7)

#3 MD(1846.00) Inc(2.1) Azm(233.0) TVD(1845.43) VS(12.30) DLS(0.4)

#4 MD(1941.00) Inc(1.8) Azm(231.7) TVD(1940.38) VS(14.39) DLS(0.3)

#5 MD(2035.00) Inc(1.9) Azm(233.6) TVD(2034.33) VS(16.33) DLS(0.1)

#6 MD(2129.00) Inc(1.8) Azm(234.7) TVD(2128.28) VS(18.19) DLS(0.1)

#7 MD(2223.00) Inc(1.8) Azm(238.6) TVD(2222.24) VS(19.90) DLS(0.1)

#8 MD(2318.00) Inc(4.2) Azm(237.5) TVD(2317.10) VS(22.74) DLS(2.6)

#9 MD(2412.00) Inc(4.0) Azm(231.8) TVD(2410.86) VS(26.87) DLS(0.5)

#10 MD(2506.00) Inc(3.7) Azm(230.4) TVD(2504.65) VS(31.06) DLS(0.3)

#11 MD(2600.00) Inc(3.5) Azm(228.2) TVD(2598.47) VS(35.11) DLS(0.3)

#12 MD(2694.00) Inc(3.5) Azm(229.0) TVD(2692.30) VS(39.08) DLS(0.1)

#13 MD(2789.00) Inc(3.7) Azm(231.7) TVD(2787.11) VS(43.06) DLS(0.3)

#14 MD(2883.00) Inc(3.5) Azm(232.7) TVD(2880.93) VS(46.88) DLS(0.2)

#15 MD(2977.00) Inc(3.3) Azm(232.1) TVD(2974.76) VS(50.47) DLS(0.2)

#16 MD(3072.00) Inc(3.1) Azm(231.2) TVD(3069.62) VS(53.96) DLS(0.1)

#17 MD(3166.00) Inc(3.2) Azm(231.2) TVD(3163.47) VS(57.43) DLS(0.1)

#18 MD(3260.00) Inc(2.7) Azm(228.0) TVD(3257.34) VS(60.75) DLS(0.6)

#19 MD(3449.00) Inc(1.7) Azm(229.5) TVD(3446.20) VS(65.78) DLS(0.5)

#20 MD(3543.00) Inc(3.8) Azm(247.9) TVD(3540.09) VS(68.02) DLS(2.4)

#21 MD(3637.00) Inc(3.8) Azm(243.4) TVD(3633.89) VS(70.85) DLS(0.3)

#22 MD(3732.00) Inc(4.0) Azm(245.3) TVD(3728.67) VS(73.92) DLS(0.2)

#23 MD(3825.00) Inc(3.6) Azm(242.3) TVD(3821.47) VS(76.89) DLS(0.4)

#24 MD(3920.00) Inc(3.6) Azm(241.3) TVD(3916.28) VS(79.98) DLS(0.1)

#25 MD(4014.00) Inc(2.8) Azm(232.9) TVD(4010.13) VS(82.99) DLS(1.0)

#26 MD(4109.00) Inc(2.3) Azm(228.4) TVD(4105.04) VS(85.83) DLS(0.5)

#27 MD(4203.00) Inc(1.9) Azm(226.0) TVD(4198.97) VS(88.33) DLS(0.4)

#28 MD(4297.00) Inc(1.9) Azm(223.9) TVD(4292.92) VS(90.66) DLS(0.1)

#29 MD(4391.00) Inc(1.9) Azm(224.2) TVD(4386.87) VS(93.01) DLS(0.0)

#30 MD(4486.00) Inc(1.9) Azm(227.0) TVD(4481.81) VS(95.34) DLS(0.1)

#31 MD(4580.00) Inc(2.0) Azm(230.2) TVD(4575.76) VS(97.58) DLS(0.1)

#32 MD(4674.00) Inc(3.9) Azm(242.5) TVD(4669.63) VS(100.31) DLS(2.2)

#33 MD(4769.00) Inc(3.2) Azm(244.6) TVD(4764.44) VS(103.20) DLS(0.8)

#34 MD(4863.00) Inc(2.6) Azm(240.6) TVD(4858.33) VS(105.55) DLS(0.7)

#35 MD(4957.00) Inc(2.2) Azm(241.1) TVD(4952.25) VS(107.60) DLS(0.4)

#36 MD(5052.00) Inc(4.4) Azm(232.3) TVD(5047.09) VS(110.90) DLS(2.4)

#37 MD(5146.00) Inc(3.5) Azm(233.8) TVD(5140.87) VS(115.00) DLS(1.0)

#38 MD(5240.00) Inc(2.3) Azm(238.8) TVD(5234.75) VS(117.85) DLS(1.2)

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#39 MD(5335.00) Inc(1.7) Azm(245.6) TVD(5329.69) VS(119.57) DLS(0.7)
#40 MD(5428.00) Inc(3.3) Azm(212.3) TVD(5422.60) VS(122.50) DLS(2.2)
#41 MD(5522.00) Inc(2.8) Azm(207.7) TVD(5516.47) VS(126.90) DLS(0.6)
#42 MD(5617.00) Inc(2.7) Azm(206.5) TVD(5611.36) VS(131.00) DLS(0.1)
#43 MD(5711.00) Inc(2.1) Azm(202.1) TVD(5705.28) VS(134.60) DLS(0.6)
#44 MD(5805.00) Inc(0.1) Azm(11.4) TVD(5799.26) VS(136.11) DLS(2.3)
#45 MD(5899.00) Inc(0.3) Azm(176.7) TVD(5893.26) VS(136.29) DLS(0.5)
#46 MD(5994.00) Inc(0.3) Azm(0.9) TVD(5988.26) VS(136.32) DLS(0.7)
#47 MD(6088.00) Inc(0.2) Azm(30.5) TVD(6082.26) VS(135.90) DLS(0.2)
#48 MD(6182.00) Inc(0.3) Azm(303.9) TVD(6176.26) VS(135.60) DLS(0.4)
#49 MD(6297.00) Inc(0.3) Azm(242.8) TVD(6291.26) VS(135.59) DLS(0.3)
#50 MD(6392.00) Inc(13.1) Azm(188.2) TVD(6385.42) VS(146.52) DLS(13.6)
#51 MD(6486.00) Inc(23.8) Azm(180.8) TVD(6474.47) VS(176.16) DLS(11.6)
#52 MD(6580.00) Inc(29.0) Azm(180.1) TVD(6558.65) VS(217.87) DLS(5.6)
#53 MD(6674.00) Inc(40.3) Azm(184.0) TVD(6635.85) VS(271.23) DLS(12.3)
#54 MD(6769.00) Inc(44.7) Azm(185.3) TVD(6705.84) VS(335.39) DLS(4.7)
#55 MD(6863.00) Inc(54.0) Azm(180.7) TVD(6767.02) VS(406.61) DLS(10.5)
#56 MD(6957.00) Inc(59.5) Azm(178.4) TVD(6818.53) VS(485.06) DLS(6.2)
#57 MD(7052.00) Inc(65.1) Azm(176.2) TVD(6862.63) VS(568.77) DLS(6.3)
#58 MD(7146.00) Inc(68.0) Azm(174.0) TVD(6901.50) VS(653.59) DLS(2.3)
#59 MD(7240.00) Inc(78.9) Azm(179.6) TVD(6931.37) VS(742.06) DLS(12.9)
#60 MD(7334.00) Inc(83.6) Azm(180.2) TVD(6947.28) VS(834.54) DLS(7.2)
#61 MD(7429.00) Inc(85.5) Azm(179.9) TVD(6956.29) VS(929.00) DLS(2.0)
#62 MD(7523.00) Inc(90.2) Azm(181.1) TVD(6959.81) VS(1022.83) DLS(5.1)
#63 MD(7617.00) Inc(89.4) Azm(180.2) TVD(6960.19) VS(1116.76) DLS(1.3)
#64 MD(7712.00) Inc(90.8) Azm(179.9) TVD(6960.06) VS(1211.65) DLS(1.6)
#65 MD(7806.00) Inc(89.9) Azm(180.3) TVD(6959.45) VS(1305.55) DLS(1.0)
#66 MD(7900.00) Inc(90.1) Azm(181.4) TVD(6959.42) VS(1399.50) DLS(1.1)
#67 MD(7994.00) Inc(89.6) Azm(180.1) TVD(6959.65) VS(1493.43) DLS(1.5)
#68 MD(8088.00) Inc(90.4) Azm(181.8) TVD(6959.63) VS(1587.38) DLS(2.0)
#69 MD(8182.00) Inc(90.9) Azm(180.3) TVD(6958.55) VS(1681.32) DLS(1.6)
#70 MD(8276.00) Inc(90.4) Azm(182.0) TVD(6957.48) VS(1775.28) DLS(1.9)
#71 MD(8370.00) Inc(90.5) Azm(180.9) TVD(6956.77) VS(1869.25) DLS(1.2)
#72 MD(8464.00) Inc(89.2) Azm(181.1) TVD(6957.07) VS(1963.20) DLS(1.4)
#73 MD(8558.00) Inc(89.5) Azm(179.8) TVD(6958.18) VS(2057.11) DLS(1.4)
#74 MD(8651.00) Inc(90.2) Azm(182.2) TVD(6958.48) VS(2150.06) DLS(2.7)
#75 MD(8746.00) Inc(90.5) Azm(181.9) TVD(6957.94) VS(2245.05) DLS(0.5)
#76 MD(8840.00) Inc(91.2) Azm(181.0) TVD(6956.54) VS(2339.01) DLS(1.2)

#77 MD(8934.00) Inc(90.6) Azm(183.1) TVD(6955.03)
VS(2432.99) DLS(2.4)

#78 MD(9028.00) Inc(91.1) Azm(182.7) TVD(6953.63)
VS(2526.98) DLS(0.7)

#79 MD(9123.00) Inc(89.0) Azm(182.4) TVD(6953.57)
VS(2621.97) DLS(2.2)

#80 MD(9217.00) Inc(89.1) Azm(181.6) TVD(6955.14)
VS(2715.95) DLS(0.8)

#81 MD(9311.00) Inc(89.3) Azm(181.2) TVD(6956.45)
VS(2809.91) DLS(0.4)

#82 MD(9405.00) Inc(89.3) Azm(180.9) TVD(6957.63)
VS(2903.86) DLS(0.3)

#83 MD(9499.00) Inc(89.1) Azm(180.4) TVD(6958.98)
VS(2997.79) DLS(0.6)

#84 MD(9592.00) Inc(88.6) Azm(179.8) TVD(6960.89)
VS(3090.66) DLS(0.8)

#85 MD(9686.00) Inc(89.1) Azm(181.9) TVD(6962.78)
VS(3184.58) DLS(2.3)

#86 MD(9780.00) Inc(89.0) Azm(182.9) TVD(6964.32)
VS(3278.57) DLS(1.1)

#87 MD(9875.00) Inc(88.7) Azm(182.9) TVD(6966.20)
VS(3373.55) DLS(0.3)

#88 MD(9968.00) Inc(90.5) Azm(183.3) TVD(6966.79)
VS(3466.54) DLS(2.0)

#89 MD(10062.00) Inc(90.3) Azm(183.0) TVD(6966.12)
VS(3560.54) DLS(0.4)

#90 MD(10156.00) Inc(90.3) Azm(182.8) TVD(6965.62)
VS(3654.54) DLS(0.2)

#91 MD(10250.00) Inc(90.5) Azm(182.0) TVD(6964.98)
VS(3748.53) DLS(0.9)

#92 MD(10344.00) Inc(90.1) Azm(180.7) TVD(6964.56)
VS(3842.50) DLS(1.5)

#93 MD(10439.00) Inc(90.0) Azm(179.3) TVD(6964.50)
VS(3937.38) DLS(1.4)

#94 MD(10533.00) Inc(89.3) Azm(178.1) TVD(6965.10)
VS(4031.14) DLS(1.5)

#95 MD(10627.00) Inc(91.8) Azm(179.2) TVD(6964.25)
VS(4124.88) DLS(2.9)

#96 MD(10721.00) Inc(90.2) Azm(181.3) TVD(6962.66)
VS(4218.77) DLS(2.8)

#97 MD(10815.00) Inc(88.1) Azm(181.6) TVD(6964.09)
VS(4312.73) DLS(2.2)

#98 MD(10910.00) Inc(89.1) Azm(184.3) TVD(6966.38)
VS(4407.69) DLS(3.1)

#99 MD(11004.00) Inc(88.9) Azm(182.4) TVD(6968.03)
VS(4501.66) DLS(2.0)

#100 MD(11099.00) Inc(88.7) Azm(180.7) TVD(6970.03)
VS(4596.62) DLS(1.8)

#101 MD(11193.00) Inc(89.2) Azm(182.0) TVD(6971.75)
VS(4690.57) DLS(1.4)

#102 MD(11287.00) Inc(90.4) Azm(181.5) TVD(6972.09)
VS(4784.55) DLS(1.4)

#103 MD(11382.00) Inc(90.6) Azm(180.9) TVD(6971.23)
VS(4879.51) DLS(0.7)

#104 MD(11476.00) Inc(90.6) Azm(179.5) TVD(6970.20)
VS(4973.41) DLS(1.4)

#105 MD(11571.00) Inc(90.4) Azm(178.2) TVD(6969.33)
VS(5068.18) DLS(1.4)

#106 MD(11665.00) Inc(90.1) Azm(177.5) TVD(6968.92)
VS(5161.83) DLS(0.8)

#107 MD(11760.00) Inc(90.0) Azm(176.7) TVD(6968.86)
VS(5256.36) DLS(0.9)