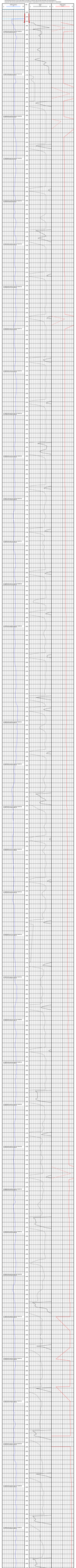

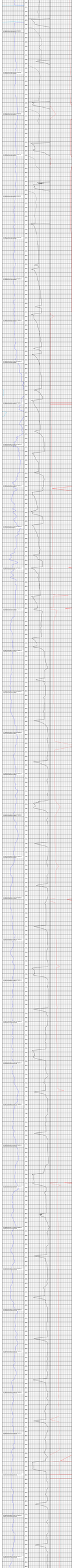

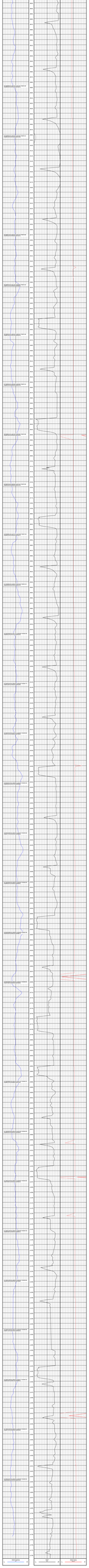

State Antelope 42-12-3HN

MD
5":100'

Total Directional

Company: Bonanza Creek
Well Name: State Antelope 42-12-3HN
API: 05-123-51728
County/Parish: Weld
State/Prov: Colorado
Country: US
Job #: Rm-221557

Company: Bonanza Creek
Well Name: State Antelope 42-12-3HN
API: 05-123-51728
County/Parish: Weld
State or Prov: Colorado
Country: US
Job number: Rm-221557
Field: DJ Basin
Rig Identification: Patterson 345
Survey Company: Total Directional Services
Company Man Josh Johnson
Company Man Josh Kliesen
DD Days Chris Apodaca
DD Nights Juan Chaparro
MWD Days Anthony DiFeo
MWD Nights Blake Stacey
MWD 3
VSD 266.10

Log measurements: 4670
Depth measured from: KB ft
Maximum temperature: 229

	Depth	Date
Start:	1654 ft	11-04-2022
End:	11786 ft	11-06-2022

Casing	Depth	Size
Surface:	1654 ft	9 5/8"
Intermediate:		

Mud type: OBM
Density: 9.5
Viscosity: 50
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4670
DF: 25
GL: 4645

Run	Bit Size	Gamma Factor	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	8.5"	.565	41.00 ft	60.00 ft	1654 ft	11786 ft	11-04-2022	11-06-2022
2								
3								
4								
5								
6								
7								
8								
9								
10								

API# 05-123-51728 WELL: State Antelope 42-12-3HN Type of Log:Gamma Logging started at 23:45 on 11/04/2022 Ending at 02:45 on 11/06/2022 Depth Relative to Rig Floor at 4,670' Ft Elevation
Logging Company: Total Directional Top of log: 1,654' Bottom of Log: 11,786'

Total 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.

XEM Gamma
API
0
200
200
400
MD
ROP
ft/hr
0
800
800
1600
XEM Temp
degrees
0
135
135
270
#18 MD(1675.00) Inc(5.03) Azm(124.80) TVD(1666.61) VS(-117.58) N/-S(-85.92) E/-W(123.71)
#19 MD(1770.00) Inc(4.21) Azm(120.34) TVD(1761.30) VS(-123.71) N/-S(-90.06) E/-W(130.13)
#20 MD(1864.00) Inc(3.95) Azm(115.92) TVD(1855.06) VS(-129.37) N/-S(-93.21) E/-W(136.02)
#21 MD(1958.00) Inc(3.79) Azm(112.89) TVD(1948.85) VS(-134.95) N/-S(-95.84) E/-W(141.80)
#22 MD(2053.00) Inc(3.80) Azm(109.73) TVD(2043.64) VS(-140.64) N/-S(-98.12) E/-W(147.65)
#23 MD(2149.00) Inc(5.94) Azm(127.04) TVD(2139.29) VS(-147.31) N/-S(-102.19) E/-W(154.61)
#24 MD(2244.00) Inc(5.81) Azm(122.40) TVD(2233.79) VS(-154.89) N/-S(-107.73) E/-W(162.60)
#25 MD(2338.00) Inc(5.57) Azm(120.89) TVD(2327.33) VS(-162.48) N/-S(-112.62) E/-W(170.53)
#26 MD(2432.00) Inc(5.15) Azm(120.05) TVD(2420.92) VS(-169.72) N/-S(-117.07) E/-W(178.10)
#27 MD(2527.00) Inc(4.97) Azm(114.10) TVD(2515.55) VS(-176.89) N/-S(-120.89) E/-W(185.54)
#28 MD(2622.00) Inc(7.01) Azm(131.58) TVD(2610.03) VS(-184.59) N/-S(-126.42) E/-W(193.64)
#29 MD(2717.00) Inc(6.70) Azm(130.28) TVD(2704.35) VS(-192.63) N/-S(-133.85) E/-W(202.20)
#30 MD(2812.00) Inc(6.71) Azm(127.13) TVD(2798.71) VS(-200.79) N/-S(-140.78) E/-W(210.86)
#31 MD(2907.00) Inc(6.47) Azm(123.94) TVD(2893.08) VS(-209.21) N/-S(-147.12) E/-W(219.72)
#32 MD(3001.00) Inc(6.38) Azm(119.96) TVD(2986.49) VS(-217.73) N/-S(-152.68) E/-W(228.64)
#33 MD(3215.00) Inc(5.09) Azm(119.35) TVD(3199.41) VS(-235.54) N/-S(-163.27) E/-W(247.22)
#34 MD(3309.00) Inc(4.63) Azm(120.05) TVD(3293.07) VS(-242.17) N/-S(-167.22) E/-W(254.13)
#35 MD(3404.00) Inc(7.01) Azm(139.98) TVD(3387.59) VS(-248.77) N/-S(-173.58) E/-W(261.18)
#36 MD(3499.00) Inc(7.42) Azm(139.73) TVD(3481.83) VS(-255.83) N/-S(-182.70) E/-W(268.88)
#37 MD(3594.00) Inc(7.55) Azm(138.18) TVD(3576.03) VS(-263.30) N/-S(-192.03) E/-W(277.00)
#38 MD(3689.00) Inc(7.27) Azm(138.56) TVD(3670.23) VS(-270.80) N/-S(-201.19) E/-W(285.14)
#39 MD(3784.00) Inc(6.91) Azm(138.62) TVD(3764.51) VS(-277.94) N/-S(-209.98) E/-W(292.90)
#40 MD(3879.00) Inc(6.16) Azm(137.48) TVD(3858.89) VS(-284.60) N/-S(-218.03) E/-W(300.12)
#41 MD(3974.00) Inc(5.18) Azm(133.63) TVD(3953.42) VS(-290.67) N/-S(-224.74) E/-W(306.67)
#42 MD(4068.00) Inc(6.61) Azm(138.59) TVD(4046.92) VS(-296.83) N/-S(-231.73) E/-W(313.32)
#43 MD(4162.00) Inc(6.54) Azm(137.39) TVD(4140.30) VS(-303.48) N/-S(-239.73) E/-W(320.52)
#44 MD(4257.00) Inc(5.69) Azm(139.11) TVD(4234.76) VS(-309.69) N/-S(-247.27) E/-W(327.27)
#45 MD(4352.00) Inc(6.98) Azm(132.87) TVD(4329.18) VS(-316.48) N/-S(-254.76) E/-W(334.58)
#46 MD(4447.00) Inc(5.76) Azm(127.58) TVD(4423.60) VS(-324.01) N/-S(-261.59) E/-W(342.59)
#47 MD(4541.00) Inc(6.84) Azm(123.05) TVD(4517.03) VS(-332.01) N/-S(-267.52) E/-W(351.02)
#48 MD(4635.00) Inc(6.03) Azm(119.97) TVD(4610.43) VS(-340.59) N/-S(-273.04) E/-W(359.99)
#49 MD(4730.00) Inc(5.30) Azm(118.07) TVD(4704.97) VS(-348.45) N/-S(-277.60) E/-W(368.19)
#50 MD(4825.00) Inc(6.52) Azm(126.38) TVD(4799.46) VS(-356.29) N/-S(-282.86) E/-W(376.40)
#51 MD(4919.00) Inc(5.48) Azm(121.32) TVD(4892.95) VS(-364.03) N/-S(-288.36) E/-W(384.53)
#52 MD(5012.00) Inc(5.47) Azm(122.61) TVD(4985.52) VS(-371.22) N/-S(-293.06) E/-W(392.06)
#53 MD(5107.00) Inc(6.24) Azm(126.75) TVD(5080.03) VS(-378.77) N/-S(-298.59) E/-W(400.01)

5230
5240
5250
5260
5270
5280
5290
#54 MD(5297.00) Inc(7.24) Azm(127.31) TVD(5268.71)
VS(-395.62) N/-S(-312.02) E/-W(417.81)
5300
5310
5320
5330
5340
5350
5360
5370
5380
5390
#55 MD(5392.00) Inc(5.88) Azm(117.05) TVD(5363.09)
VS(-404.29) N/-S(-317.86) E/-W(426.90)
5400
5410
5420
5430
5440
5450
5460
5470
5480
#56 MD(5487.00) Inc(5.31) Azm(103.77) TVD(5457.64)
VS(-412.66) N/-S(-321.12) E/-W(435.51)
5490
5500
5510
5520
5530
5540
5550
5560
5570
5580
#57 MD(5581.00) Inc(2.44) Azm(95.41) TVD(5551.42)
VS(-418.78) N/-S(-322.35) E/-W(441.72)
5590
5600
5610
5620
5630
5640
5650
5660
5670
#58 MD(5676.00) Inc(1.02) Azm(80.37) TVD(5646.37)
VS(-421.61) N/-S(-322.40) E/-W(444.57)
5680
5690
5700
5710
5720
5730
5740
5750
5760
5770
#59 MD(5771.00) Inc(4.33) Azm(286.29) TVD(5741.30)
VS(-419.09) N/-S(-321.25) E/-W(441.96)
5780
5790
5800
5810
5820
5830
5840
5850
5860
#60 MD(5866.00) Inc(15.22) Azm(284.32) TVD(5834.78)
VS(-403.83) N/-S(-317.15) E/-W(426.39)
5870
5880
5890
5900
5910
5920
5930
5940
5950
5960
#61 MD(5961.00) Inc(23.66) Azm(276.67) TVD(5924.29)
VS(-373.19) N/-S(-311.84) E/-W(395.31)
5970
5980
5990
6000
6010
6020
6030
6040
6050
#62 MD(6056.00) Inc(33.54) Azm(272.96) TVD(6007.61)
VS(-328.28) N/-S(-308.26) E/-W(350.05)
6060
6070
6080
6090
6100
6110
6120
6130
6140
6150
#63 MD(6151.00) Inc(42.99) Azm(270.63) TVD(6082.12)
VS(-269.80) N/-S(-306.54) E/-W(291.32)
6160
6170
6180
6190
6200
6210
6220
6230
6240
#64 MD(6246.00) Inc(50.75) Azm(267.87) TVD(6147.02)
VS(-200.63) N/-S(-307.56) E/-W(222.06)
6250
6260
6270
6280
6290
6300
6310
6320
6330
6340
#65 MD(6341.00) Inc(56.38) Azm(268.05) TVD(6203.42)
VS(-124.27) N/-S(-310.27) E/-W(145.71)
6350
6360
6370
6380
6390
6400
6410
6420
6430
#66 MD(6435.00) Inc(64.24) Azm(266.99) TVD(6249.94)
VS(-42.70) N/-S(-313.83) E/-W(64.19)
6440
6450
6460
6470
6480
6490
6500
6510
6520
6530
#67 MD(6530.00) Inc(73.59) Azm(271.58) TVD(6284.10)
VS(45.67) N/-S(-314.82) E/-W(-24.31)
6540
6550
6560
6570
6580
6590
6600
6610
6620
#68 MD(6624.00) Inc(85.67) Azm(269.31) TVD(6300.99)
VS(137.69) N/-S(-314.14) E/-W(-116.60)
6630
6640
6650
6660
6670
6680
6690
6700
6710
#69 MD(6719.00) Inc(89.75) Azm(269.27) TVD(6304.78)
VS(232.45) N/-S(-315.32) E/-W(-211.49)
6720
6730
6740
6750
6760
6770
6780
6790
6800
6810
#70 MD(6814.00) Inc(90.22) Azm(269.25) TVD(6304.81)
VS(327.30) N/-S(-316.55) E/-W(-306.48)
6820
6830
6840
6850
6860
6870
6880
6890
6900
#71 MD(6908.00) Inc(90.84) Azm(268.90) TVD(6303.94)
VS(421.17) N/-S(-318.06) E/-W(-400.47)
6910
6920
6930
6940
6950
6960
6970
6980
6990
7000
#72 MD(7002.00) Inc(91.72) Azm(268.70) TVD(6301.84)
VS(515.04) N/-S(-320.03) E/-W(-494.42)
7010
7020
7030
7040
7050
7060
7070
7080
7090
#73 MD(7097.00) Inc(89.66) Azm(268.27) TVD(6300.69)
VS(609.95) N/-S(-322.54) E/-W(-589.38)
7100
7110
7120
7130
7140
7150
7160
7170
7180
7190
#74 MD(7192.00) Inc(89.95) Azm(268.11) TVD(6301.02)
VS(704.89) N/-S(-325.54) E/-W(-684.33)
7200
7210
7220
7230
7240
7250
7260
7270
7280
#75 MD(7287.00) Inc(90.55) Azm(267.68) TVD(6300.60)
VS(799.84) N/-S(-329.03) E/-W(-779.26)
7290
7300
7310
7320
7330
7340
7350
7360
7370
7380
#76 MD(7382.00) Inc(91.81) Azm(267.65) TVD(6298.65)
VS(894.78) N/-S(-332.90) E/-W(-874.16)
7390
7400
7410
7420
7430
7440
7450
7460
7470
#77 MD(7476.00) Inc(90.02) Azm(268.75) TVD(6297.15)
VS(988.70) N/-S(-335.85) E/-W(-968.10)
7480
7490
7500
7510
7520
7530
7540
7550
7560
7570
#78 MD(7571.00) Inc(90.65) Azm(267.33) TVD(6296.59)
VS(1083.64) N/-S(-339.10) E/-W(-1063.04)
7580
7590
7600
7610
7620
7630
7640
7650
7660
#79 MD(7666.00) Inc(88.73) Azm(267.88) TVD(6297.10)
VS(1178.60) N/-S(-343.07) E/-W(-1157.95)
7670
7680
7690
7700
7710
7720
7730
7740
7750
7760
#80 MD(7761.00) Inc(89.45) Azm(267.73) TVD(6298.61)
VS(1273.55) N/-S(-346.71) E/-W(-1252.87)
7770
7780
7790
7800
7810
7820
7830
7840
7850
#81 MD(7855.00) Inc(91.73) Azm(269.13) TVD(6297.65)
VS(1367.46) N/-S(-349.29) E/-W(-1346.82)
7860
7870
7880
7890
7900
7910
7920
7930
7940
#82 MD(7949.00) Inc(87.47) Azm(268.14) TVD(6298.30)
VS(1461.34) N/-S(-351.52) E/-W(-1440.77)
7950
7960
7970
7980
7990
8000
8010
8020
8030
8040
#83 MD(8044.00) Inc(87.72) Azm(268.67) TVD(6302.29)
VS(1556.18) N/-S(-354.17) E/-W(-1535.65)
8050
8060
8070
8080
8090
8100
8110
8120
8130
#84 MD(8139.00) Inc(88.30) Azm(269.02) TVD(6305.59)
VS(1651.01) N/-S(-356.08) E/-W(-1630.57)
8140
8150
8160
8170
8180
8190
8200
8210
8220
8230
#85 MD(8233.00) Inc(88.85) Azm(269.06) TVD(6307.92)
VS(1744.86) N/-S(-357.65) E/-W(-1724.53)
8240
8250
8260
8270
8280
8290
8300
8310
8320
#86 MD(8328.00) Inc(89.24) Azm(268.70) TVD(6309.51)
VS(1839.73) N/-S(-359.51) E/-W(-1819.49)
8330
8340
8350
8360
8370
8380
8390
8400
8410
8420
#87 MD(8422.00) Inc(90.28) Azm(269.33) TVD(6309.90)
VS(1933.61) N/-S(-361.13) E/-W(-1913.48)
8430
8440
8450
8460
8470
8480
8490
8500
8510
#88 MD(8516.00) Inc(91.08) Azm(269.96) TVD(6308.79)
VS(2027.42) N/-S(-361.71) E/-W(-2007.47)
8520
8530
8540
8550
8560
8570
8580
8590
8600
8610
#89 MD(8610.00) Inc(89.08) Azm(270.97) TVD(6308.65)
VS(2121.14) N/-S(-360.95) E/-W(-2101.46)
8620
8630
8640
8650
8660
8670
8680
8690
8700
#90 MD(8705.00) Inc(88.65) Azm(271.11) TVD(6310.54)
VS(2215.77) N/-S(-359.22) E/-W(-2196.42)
8710
8720
8730
8740
8750
8760
8770
8780
8790
#91 MD(8799.00) Inc(88.63) Azm(270.48) TVD(6312.77)
VS(2309.43) N/-S(-357.92) E/-W(-2290.39)
8800
8810
8820

#92 MD(8989.00) Inc(89.73) Azm(272.03) TVD(6315.49) VS(2498.63) N/-S(-353.76) E/-W(-2480.31)
#93 MD(9084.00) Inc(89.52) Azm(270.66) TVD(6316.11) VS(2593.23) N/-S(-351.53) E/-W(-2575.28)
#94 MD(9272.00) Inc(90.63) Azm(270.70) TVD(6315.86) VS(2780.63) N/-S(-349.30) E/-W(-2763.27)
#95 MD(9367.00) Inc(91.35) Azm(269.66) TVD(6314.22) VS(2875.37) N/-S(-349.00) E/-W(-2858.25)
#96 MD(9461.00) Inc(89.55) Azm(269.42) TVD(6313.48) VS(2969.19) N/-S(-349.75) E/-W(-2952.24)
#97 MD(9556.00) Inc(90.89) Azm(269.89) TVD(6313.12) VS(3064.01) N/-S(-350.32) E/-W(-3047.24)
#98 MD(9651.00) Inc(88.18) Azm(269.98) TVD(6313.89) VS(3158.78) N/-S(-350.43) E/-W(-3142.22)
#99 MD(9746.00) Inc(89.66) Azm(270.19) TVD(6315.68) VS(3253.53) N/-S(-350.29) E/-W(-3237.20)
#100 MD(9841.00) Inc(87.73) Azm(270.98) TVD(6317.84) VS(3348.21) N/-S(-349.32) E/-W(-3332.17)
#101 MD(9936.00) Inc(88.23) Azm(270.85) TVD(6321.19) VS(3442.82) N/-S(-347.81) E/-W(-3427.10)
#102 MD(10030.00) Inc(87.75) Azm(269.68) TVD(6324.49) VS(3536.51) N/-S(-347.37) E/-W(-3521.04)
#103 MD(10125.00) Inc(88.29) Azm(269.35) TVD(6327.77) VS(3631.28) N/-S(-348.18) E/-W(-3615.98)
#104 MD(10219.00) Inc(87.94) Azm(268.62) TVD(6330.86) VS(3725.11) N/-S(-349.84) E/-W(-3709.91)
#105 MD(10314.00) Inc(88.98) Azm(269.41) TVD(6333.42) VS(3819.95) N/-S(-351.47) E/-W(-3804.86)
#106 MD(10409.00) Inc(89.49) Azm(269.76) TVD(6334.68) VS(3914.77) N/-S(-352.16) E/-W(-3899.85)
#107 MD(10503.00) Inc(88.55) Azm(268.06) TVD(6336.29) VS(4008.64) N/-S(-353.95) E/-W(-3993.81)
#108 MD(10598.00) Inc(89.88) Azm(269.09) TVD(6337.59) VS(4103.54) N/-S(-356.31) E/-W(-4088.77)
#109 MD(10692.00) Inc(88.48) Azm(266.01) TVD(6338.94) VS(4197.48) N/-S(-360.33) E/-W(-4182.66)
#110 MD(10881.00) Inc(91.65) Azm(271.23) TVD(6338.72) VS(4386.21) N/-S(-364.88) E/-W(-4371.52)
#111 MD(10976.00) Inc(92.18) Azm(270.30) TVD(6335.55) VS(4480.84) N/-S(-363.61) E/-W(-4466.46)
#112 MD(11070.00) Inc(88.67) Azm(269.94) TVD(6334.85) VS(4574.59) N/-S(-363.41) E/-W(-4560.44)
#113 MD(11165.00) Inc(88.50) Azm(269.39) TVD(6337.20) VS(4669.38) N/-S(-363.97) E/-W(-4655.41)
#114 MD(11259.00) Inc(88.60) Azm(268.40) TVD(6339.58) VS(4763.24) N/-S(-365.78) E/-W(-4749.36)
#115 MD(11353.00) Inc(90.16) Azm(269.46) TVD(6340.59) VS(4857.11) N/-S(-367.53) E/-W(-4843.33)
#116 MD(11448.00) Inc(88.03) Azm(269.77) TVD(6342.10) VS(4951.92) N/-S(-368.17) E/-W(-4938.31)
#117 MD(11542.00) Inc(88.46) Azm(269.18) TVD(6344.97) VS(5045.71) N/-S(-369.03) E/-W(-5032.26)
#118 MD(11637.00) Inc(89.64) Azm(269.09) TVD(6346.55) VS(5140.56) N/-S(-370.47) E/-W(-5127.24)
8830
8840
8850
8860
8870
8880
8890
8900
8910
8920
8930
8940
8950
8960
8970
8980
8990
9000
9010
9020
9030
9040
9050
9060
9070
9080
9090
9100
9110
9120
9130
9140
9150
9160
9170
9180
9190
9200
9210
9220
9230
9240
9250
9260
9270
9280
9290
9300
9310
9320
9330
9340
9350
9360
9370
9380
9390
9400
9410
9420
9430
9440
9450
9460
9470
9480
9490
9500
9510
9520
9530
9540
9550
9560
9570
9580
9590
9600
9610
9620
9630
9640
9650
9660
9670
9680
9690
9700
9710
9720
9730
9740
9750
9760
9770
9780
9790
9800
9810
9820
9830
9840
9850
9860
9870
9880
9890
9900
9910
9920
9930
9940
9950
9960
9970
9980
9990
10000
10010
10020
10030
10040
10050
10060
10070
10080
10090
10100
10110
10120
10130
10140
10150
10160
10170
10180
10190
10200
10210
10220
10230
10240
10250
10260
10270
10280
10290
10300
10310
10320
10330
10340
10350
10360
10370
10380
10390
10400
10410
10420
10430
10440
10450
10460
10470
10480
10490
10500
10510
10520
10530
10540
10550
10560
10570
10580
10590
10600
10610
10620
10630
10640
10650
10660
10670
10680
10690
10700
10710
10720
10730
10740
10750
10760
10770
10780
10790
10800
10810
10820
10830
10840
10850
10860
10870
10880
10890
10900
10910
10920
10930
10940
10950
10960
10970
10980
10990
11000
11010
11020
11030
11040
11050
11060
11070
11080
11090
11100
11110
11120
11130
11140
11150
11160
11170
11180
11190
11200
11210
11220
11230
11240
11250
11260
11270
11280
11290
11300
11310
11320
11330
11340
11350
11360
11370
11380
11390
11400
11410
11420
11430
11440
11450
11460
11470
11480
11490
11500
11510
11520
11530
11540
11550
11560
11570
11580
11590
11600
11610
11620
11630
11640
11650
11660
11670
11680
11690
11700
11710
11720
11730
11740
11750
11760
11770
11780
XEM Gamma
API
0
200
200
400
ROP
ft/hr
XEM Temp
degrees