



### Mass Spec Chemical Profile



Scale 1:480 (2.5"=100') Imperial  
Measured Depth Log

Well Name: Blackstone "Rocking Chair Ranch #2" The Well Watchers  
 API: 02 - 017 - 20,110  
 Location: Section 13 - Township 14 North - Range 19 East  
 License Number: 02 - 017 - 20,110 Region: Navajo County, AZ.  
 Spud Date: Drilling Completed:  
 Surface Coordinates: 1,980' FNL & 1,980' FEL, NE/4 (Approximately C SW NE)  
 Bottom Hole Coordinates:  
 Ground Elevation (ft): K.B. Elevation (ft):  
 Logged Interval (ft): 626' To: 1374' Total Depth (ft): 748'  
 Formation: Supai Formation  
 Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)  
 Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

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**HCTYPE**  
 Weak Dry Gas (pink)  
 Strong Dry Gas (red)  
 Weak WG-GC (orange)  
 Strong WG-GC (yellow)  
 Weak GC-Oil (light green)  
 Strong GC-Oil (dark green)

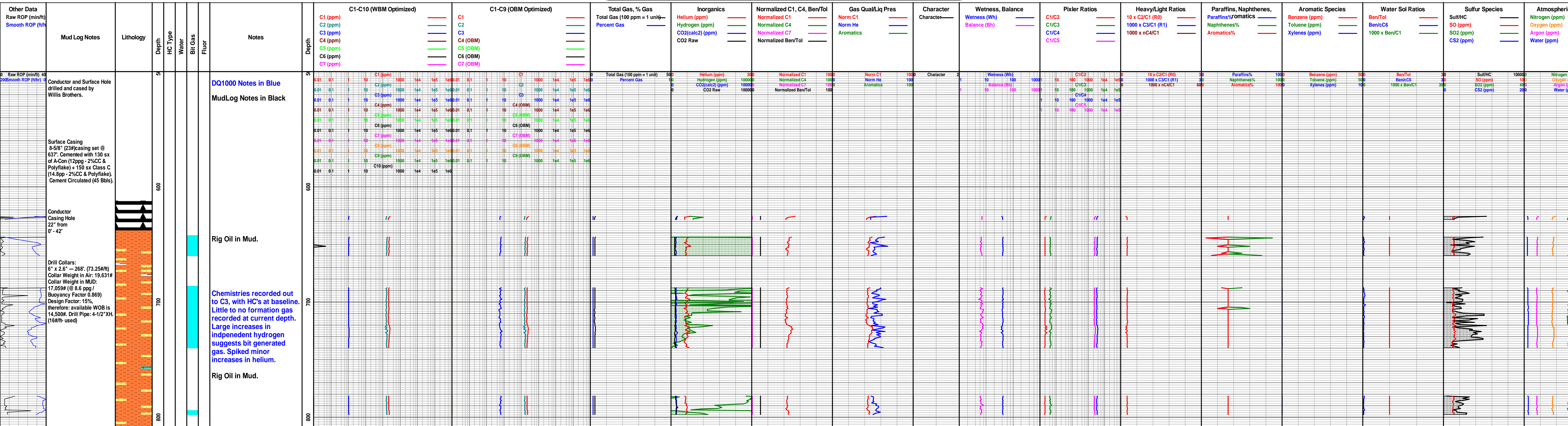
**WATER**  
 Strong Water (blue)  
 Weak Water (purple)

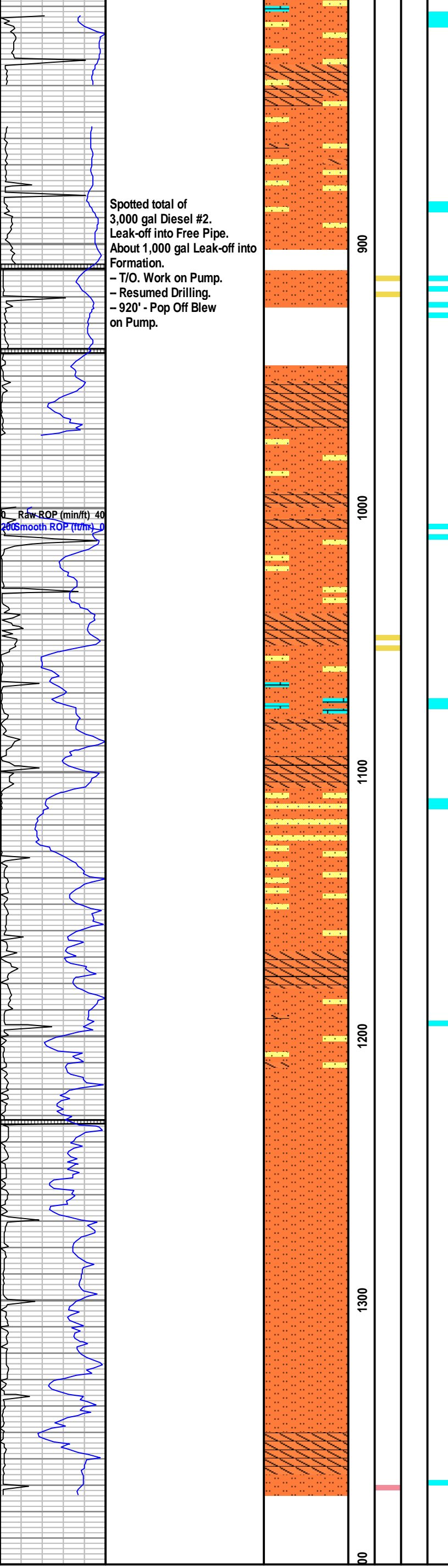
**BIT GAS**  
 Strong Bit Gas (teal)  
 Weak Bit Gas (cyan)

**FLUOR**  
 Weak Fluor (grey)  
 Mod Fluor (dark grey)  
 Strong Fluor (black)

**ROCK TYPES**

Cht	Salt	Carbsh	Siltst
Clyst	Shale	Qtzwash	Shale, sdy
Coal	Shcol	Granite wash	nosmpl
Congl	Shgw	Limeygw	Dolo
Gyp	Silst	Sandygw	Shlygw
Lmst	Ss	Lsdetrst	Csgpt
Mrlst	Till	Lsnew	





Spotted total of 3,000 gal Diesel #2. Leak-off into Free Pipe. About 1,000 gal Leak-off into Formation.  
 - T/O. Work on Pump. Resumed Drilling - 920' Pop Off Blow on Pump.

**Spiked increases in helium at around 6ppm.**  
**Rig Oil in Mud.** Chemistries similar as above, with traces recorded out to C4. Large increase in hydrogen and continue to record spiked increases in helium at 6.43 ppm.  
**STUCK @ 907'**  
 Increase in formation gas with traces out to C7. Max of 0.06% total gas. Spiked increases in helium and hydrogen, appearing to increase partially independent of HC's and not covary.

**PLUG BIT -- T/O.**

Slight increase in heavies, with little to no significant formation gas recorded.

Spiked increases in helium and hydrogen, with helium recorded at 11ppm.

Trip to JET MUD  
 --- Mud clabbered.  
 --- T/O to surface casing.  
 --- Jet-- Resumed Drilling.  
 Large drop in C3+ below 1230ft, with C1-C2 remaining at baseline.

Decline in C3+ below 1290 ft.

Minor increase in gas, with traces out to C4. Max of 0.08% total gas.  
 Reached Final TD @ 1374'

