

LOG created using Lplot VH Version 3.0, November 23, 2012, Copyright (C) 1999-2009 Pason Systems Corp.

OPERATOR: ENCANA OIL & GAS (USA), INC.
WELL: GURTLER 2B-30H
LOCATION: NWNW S30 T2N R64W
COUNTY: WELD
STATE: COLORADO
SPOT: 210' FNL, 841' FWL
ELEVATION: GL 4928', KB 4941'
FIELD: WATTENBERG
SPUD DATE: 11/08/2012
TD DATE: 11/22/2012
DATES LOGGED: 11/10/2012 - 11/22/2012
DEPTHS LOGGED: 1,150' - 14,103'
LOGGERS: RUSSELL FROMMER, ELIZABETH ERICKSON
DRILLING FLUID: H2O, LSND
DRILLING RIG: ENSIGN 124
API: 05-123-35981
LOG TYPE: VERTICAL
SCALE: 1:240 (5 inches per 100 feet)
REMARKS: ALL DEPTH MEASUREMENTS ARE FROM KELLY BUSHING AND ARE BASED OFF OF THE DRILLER'S PIPE TALLY; ROCK SAMPLES ARE DESCRIBED WHILE WET UNLESS OTHERWISE NOTED; COLORS ARE BASED ON THE GEOLOGICAL ROCK-COLOR CHART (ed. 2009) WITH STANDARDS SET BY GSA, AAPG & SPWLA. <<LOG CONTINUED ON GURTLER 2B-30H HORIZONTAL>> MUD LOGGING SERVICES PROVIDED BY COLUMBINE LOGGING, INC.



Sandstone



Shaly Sandstone



Siltstone



Silty Shale

LITHOLOGIES

Calcareous



Carbonaceous Flakes



Fossils



Glauconite



Micaceous



Pyrite



Sandstone Stringers



Sandy



Shale Laminae



Silt Stringers



Silty

ENGINEERING SYMBOLS

Connection



Gas Show



Midnight Depth

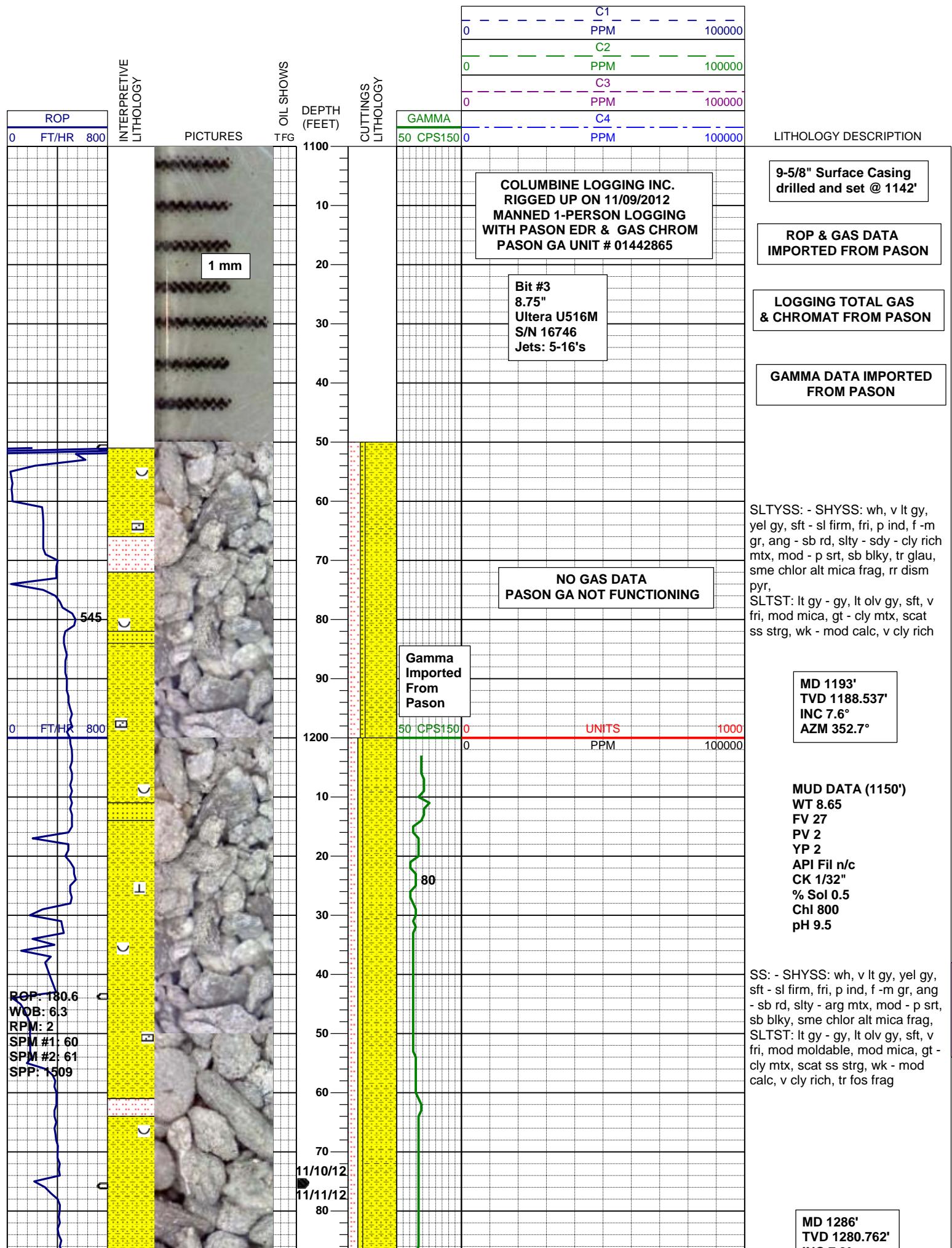
BAR SYMBOLS

Rotating

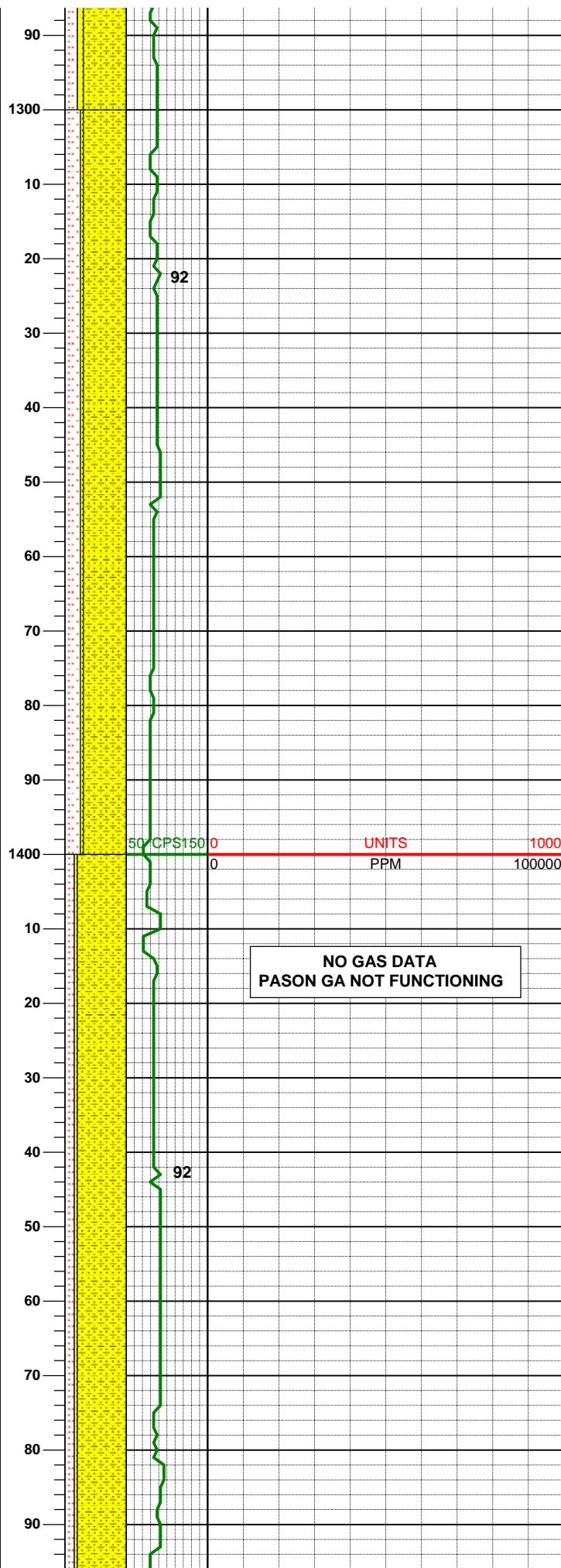
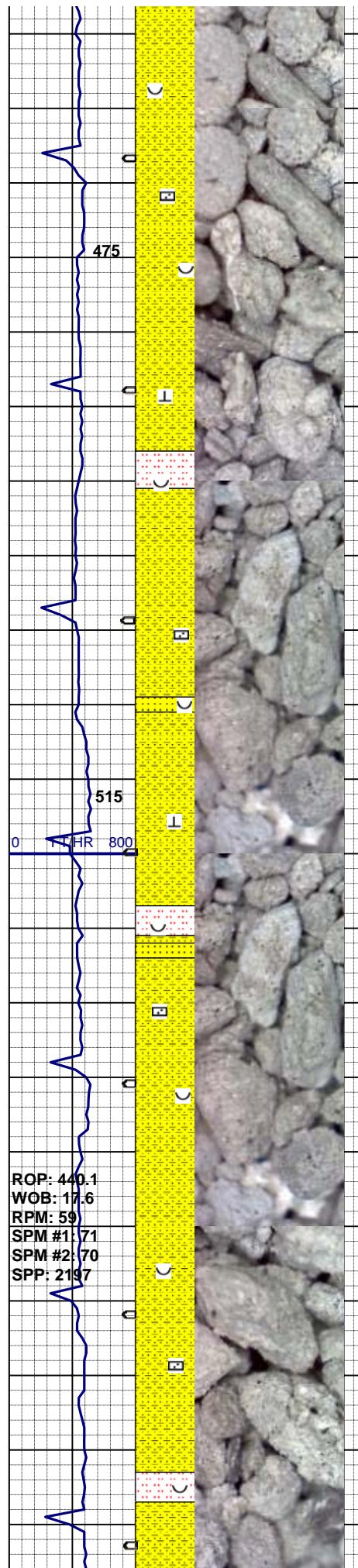


Sliding

GAS		
0	UNITS	1000



INC 7.3°
AZM 8.6°

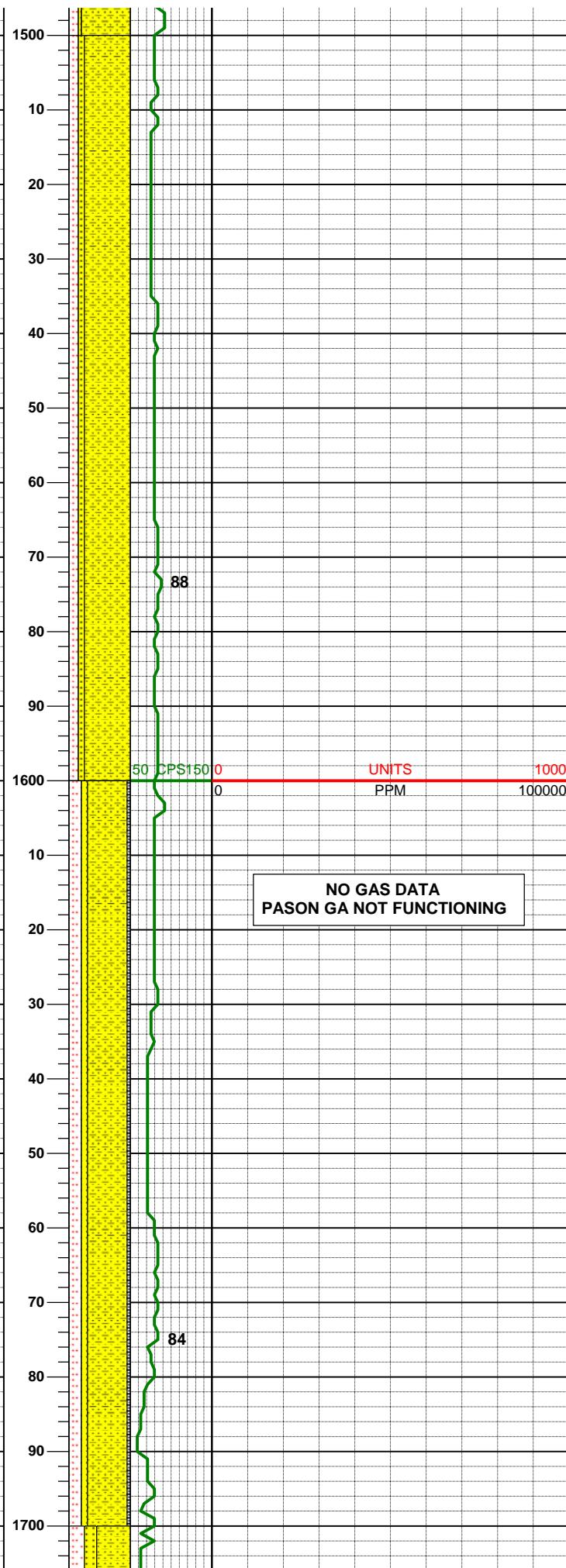
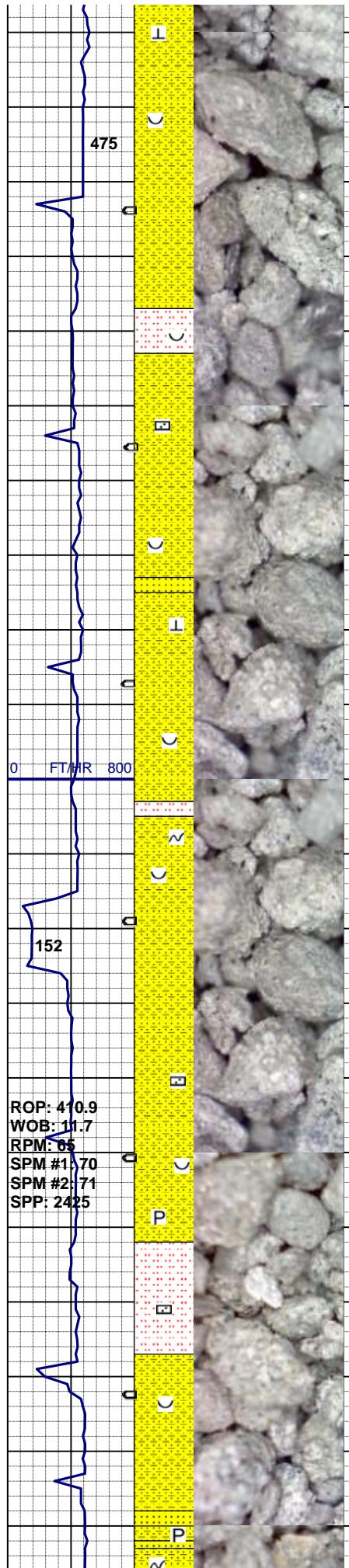


SS: - SHYSS: wh, v lt gy, yel gy,
sft - sl firm, fri, p ind, f - m gr, ang
- sb rd, slyt - arg mtx, mod - p srt,
sb blky, abnt chlor alt mica frag,
SLTST: lt gy - gy, lt brn gy - lt olv
gy, sft, v fri, mod moldable, mod
mica, gt - cly mtx, scat ss strg,
mod calc, v cly rich

MD 1379'
TVD 1372.977'
INC 7.6°
AZM 7.5°

SS: - SHYSS: wh, v lt gy, sft - sl
firm, fri, p ind, f - m gr, ang - sb
rd, slyt - arg mtx, mod - p srt, sb
blky, com chlor alt mica frag,
SLTST: lt gy - gy, lt brn gy - lt olv
gy, sft, v fri, mod moldable, mod
mica, gt - cly mtx, scat ss strg,
mod calc, v cly rich

MD 1472'
TVD 1465.160'
INC 7.6°
AZM 5.7°

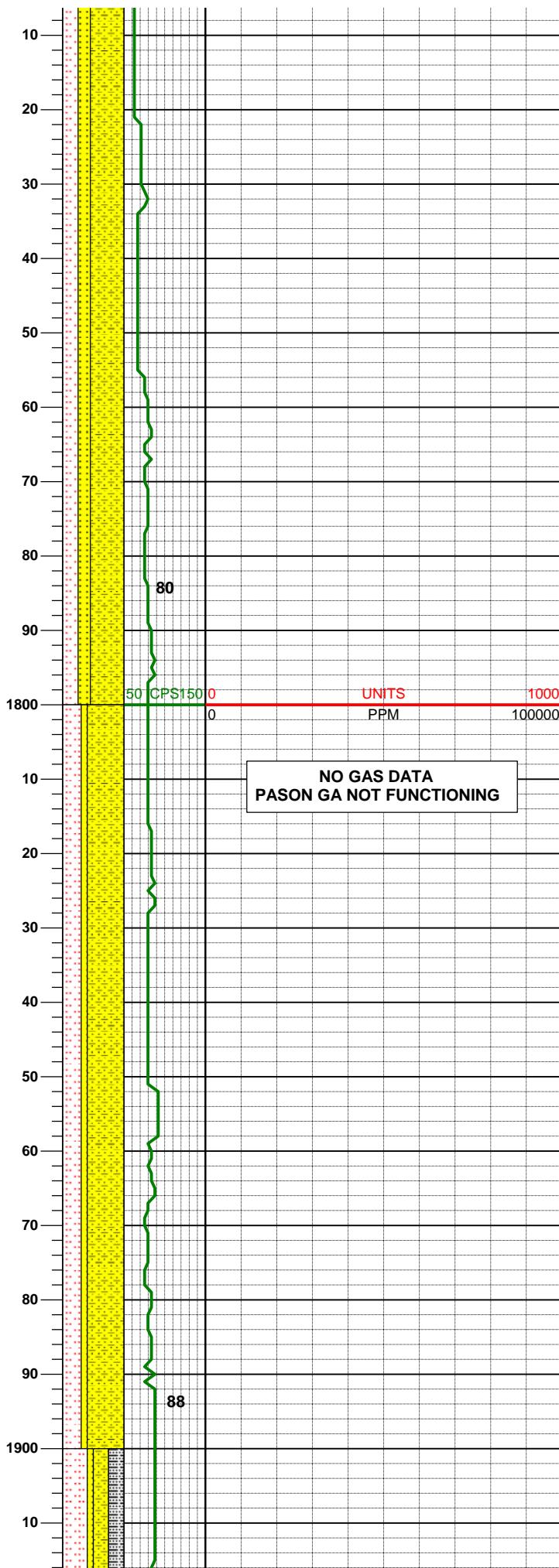
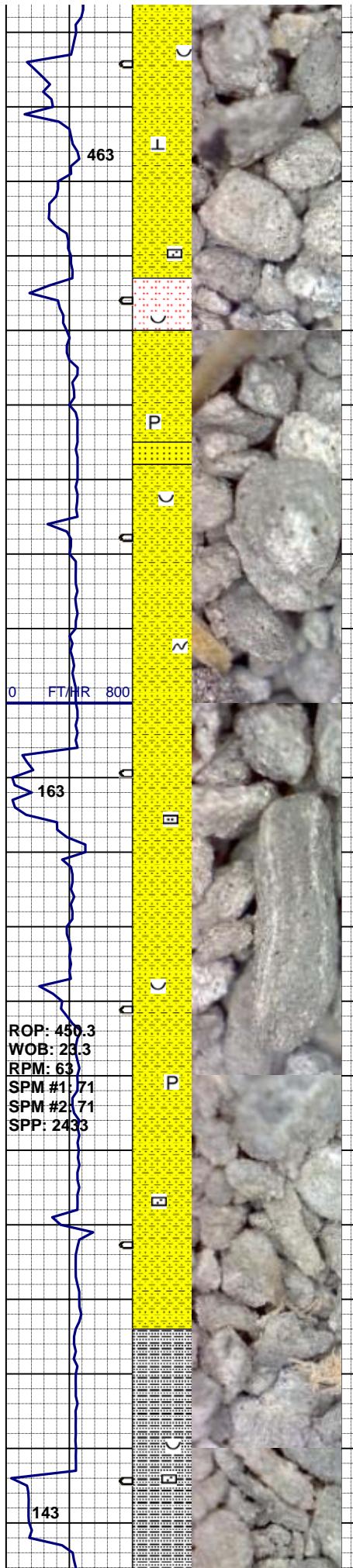


SS: - SHYSS: wh, v lt gy, sft - sl firm, fri, p ind, f - m gr, ang - sb rd, silty - arg mtx, mod - p srt, sb blky, com chlor alt mica frag, SLTST: It gy - gy, It brn gy - lt olv gy, sft, v fri, mod moldable, mod mica, gt - cly mtx, scat ss strg, mod calc, v cly rich

MD 1568'
TVD 1560.225'
INC 8.4°
AZM 3.8°

SHYSS: wh, v lt gy, occ m gy, sft - sl firm, fri, f - m gr, ang - sb rd, silty - arg mtx, mod - p srt, sb blky, sme chlor alt mica frag, SLTST: It gy - gy, It brn gy - lt olv gy, sft, v fri, mod moldable, mod mica, gt - cly mtx, scat ss strg, mod calc,
SS: wh, lt gy, s&p, sb rd, sil cmt, vf gr, mod srt, sl hd, calc ip, tr glau, v cly rich, tr pyr,

MD 1663'
TVD 1654.441'
INC 6.3°
AZM 357.8°



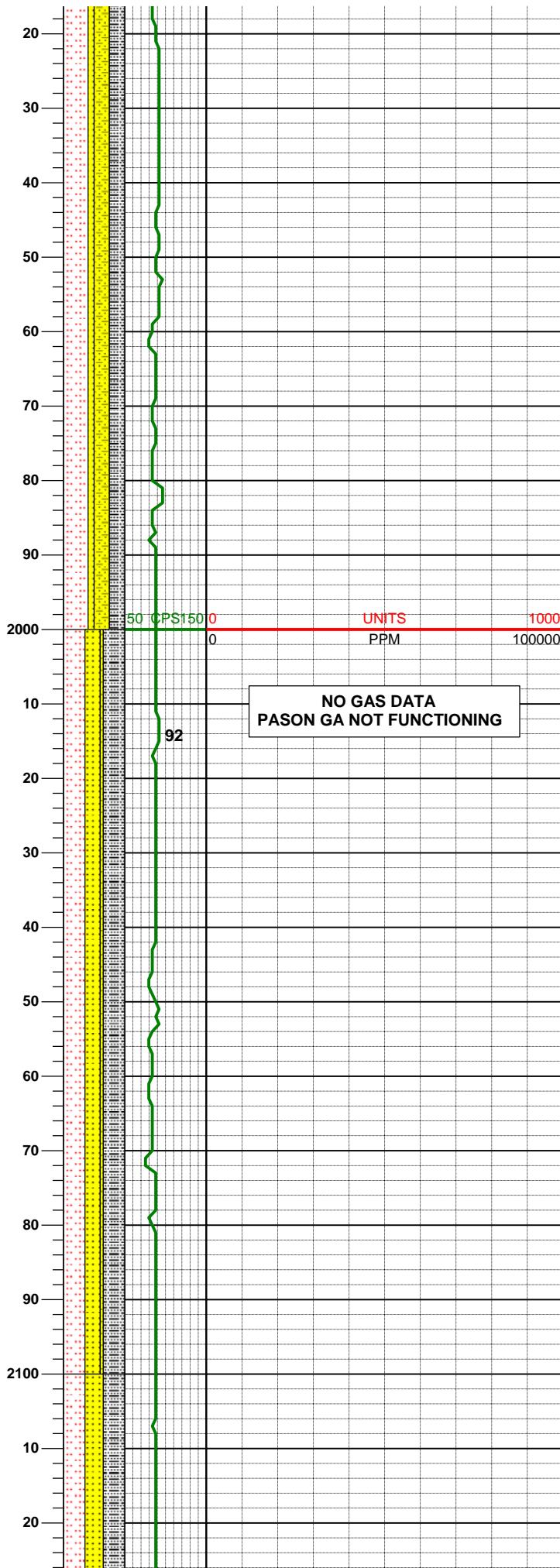
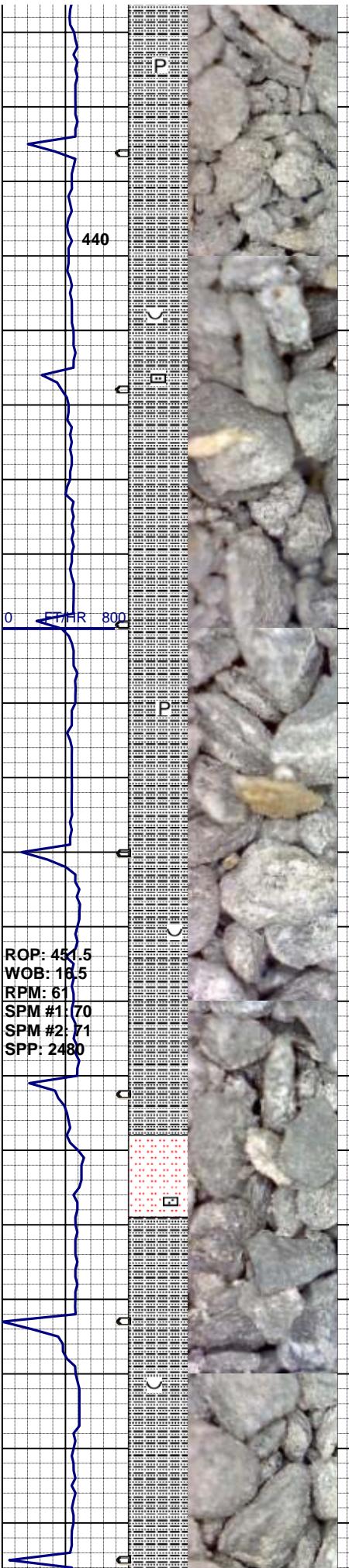
SHYSS: wh, v lt gy, occ m gy, sft - sl firm, fri, f - m gr, ang - sb rd, slty - arg mtx, mod - p srt, sb blky, sme chlor alt mica frag, SLTST: It gy - gy, It brn gy - lt olv gy, sft, v fri, mod moldable, mod mica, gt - cly mtx, scat ss strg, mod calc, SS: wh, lt gy, s&p, sb rd, sil cmt, vf gr, mod srt, sl hd, calc ip, tr glau, v cly rich, tr pyr,

MD 1758'
TVD 1748.948'
INC 5.4°
AZM 347.4°

MD 1853'
TVD 1843.621'
INC 4.1°
AZM 336.9°

SHYSS: wh, v lt gy, occ m gy, sft - sl firm, fri, vf gr, ang - sb rd, slty - arg mtx, mod - p srt, sb blky, sme chlor alt mica frag, SLTST: It gy - gy, It brn gy - lt olv gy, sft, v fri, mod moldable, mod mica, gt - cly mtx, scat ss strg, mod calc, SS: wh, lt gy, s&p, sb rd, sil cmt, vf gr, mod srt, sl hd, calc ip, tr glau, v cly rich, tr pyr,

MW IN 8.7/8.9 OUT
VIS IN 38/39 OUT



SLTST: - SHYSS: wh, lt gy, s&p, vf gr, sbrd - sub ang, sil cmt, mod srt, mod hd - hd, fri - brit, mod calc ip, glau, tr mica, SLTY SH: lt gy - med gy, tr dk gy, sft, fri, sub blky - sub plty, sm tex, scat mica par's, n spl flor, v wk - n cut

MUD DATA (1990')
 WT 8.8
 FV 40
 PV 6
 YP 11
 API Fil n/c
 CK 1/32"
 % Sol 0.5
 Chl 1800
 pH 11

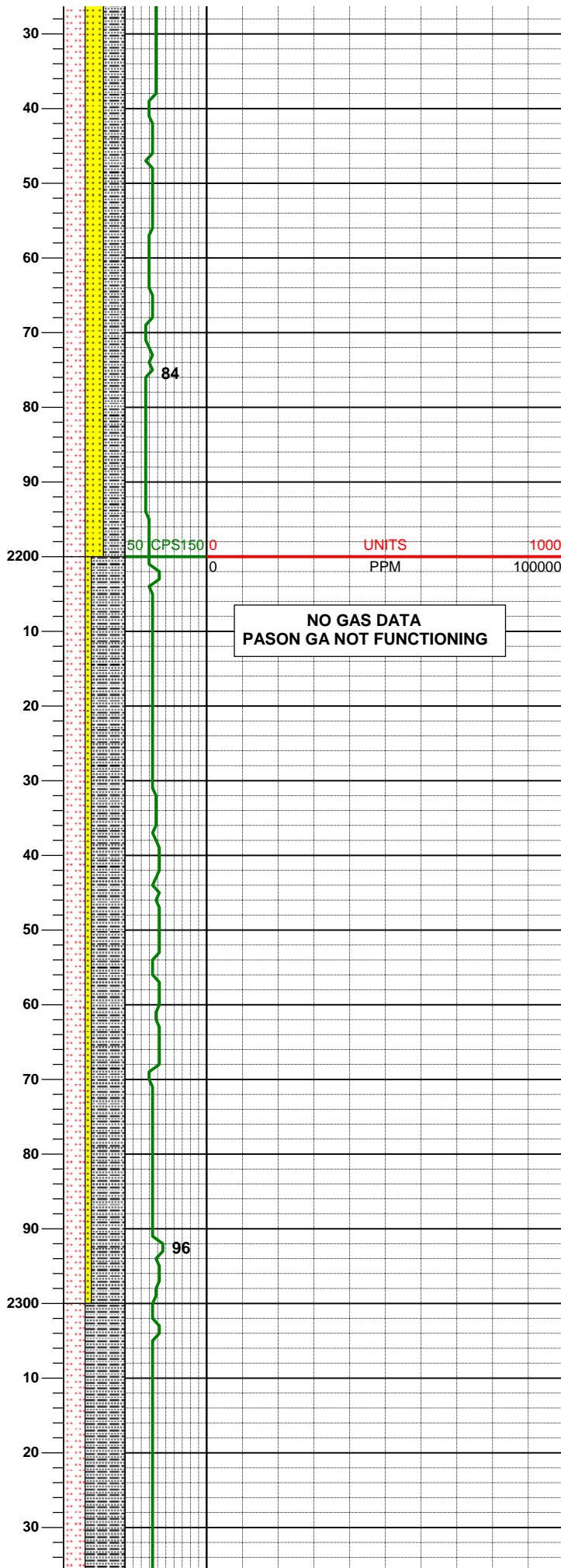
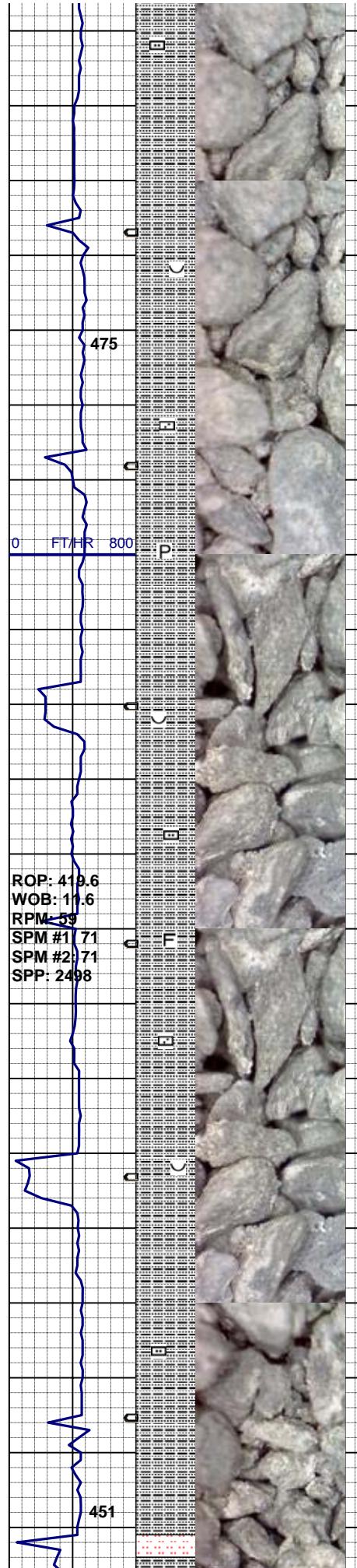
MD 2043'
TVD 2033.44'
INC 1.9°
AZM 5.6°

SLTST: - SS: wh, lt gy, s&p, vf gr, sbrd - sub ang, sil cmt, mod srt, mod hd - hd, fri - brit, smwt shy ip, mod calc ip, glau, tr mica, SLTY SH: lt gy - med gy, tr dk gy, sft, fri, sub blky - sub plty, sm tex, scat mica par's, mod - hi content CLY: lt - m lt gy, sft, mod - low solubility, w hydrated, mod - hi plac 'ity, mod 'ly cohesive, mod 'ly adhesive, silty, n spl flor, v wk - n cut

MW IN 8.8/8.8 OUT
VIS IN 40/38 OUT

MD 2158'
TVD 2128.39'
INC 1.8°
AZM 20.6°

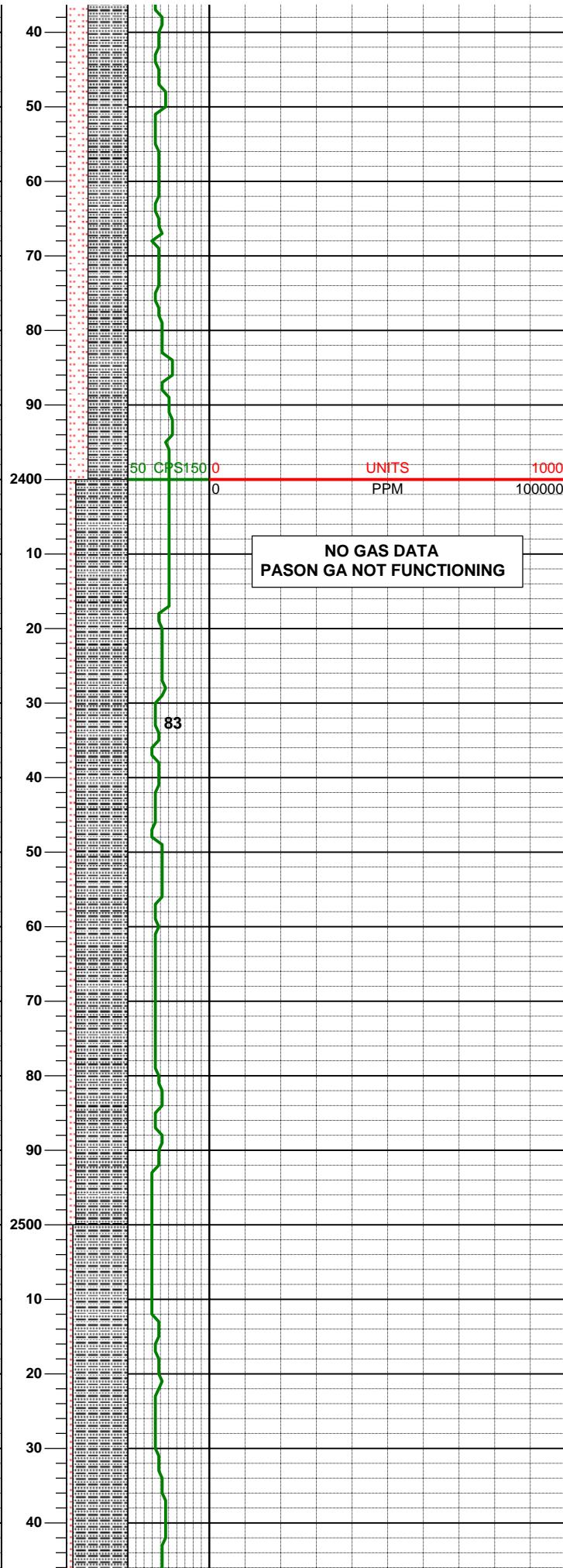
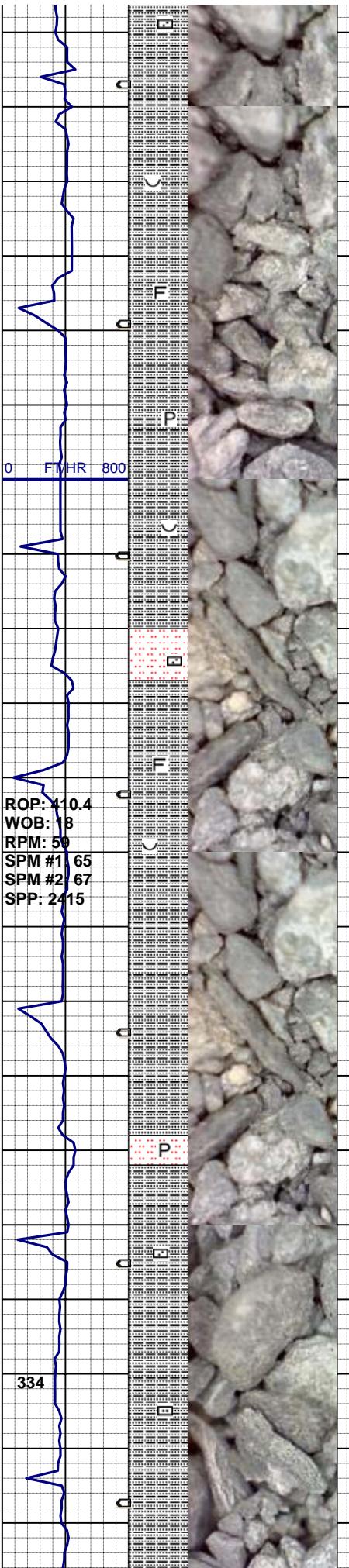
SLTST: - SS: wh, lt gy, s&p, vf gr, sbrd - sub ang, sil cmt, mod srt, mod hd - hd, fri - brit, mod calc ip, glau, tr mica, SLTY SH: lt gy - med gy, tr dk gy, sft, fri, sub bly - sub plty, sm tex, scat mica par's, mod - hi content CLY: lt - m lt gy, sft, low solubility, w hydrated, mod plac 'ity, mod 'ly cohesive, mod 'ly adhesive, silty, n spl flor, v wk cut



MD 2233'
TVD 2223.35'
INC 1.8°
AZM 19.5°

MW IN 8.9/8.9 OUT
VIS IN 41/38 OUT
SLTYSH: lt gy - med gy, tr dk gy, sft, fri, sub bly - sub plty, sm tex, scat mica par's, SLTST: - SS: wh, lt gy, s&p, vf gr, sbrd - sub ang, sil cmt, mod srt, mod hd - hd, fri - brit, mod calc ip, glau, tr mica, com ss strg's, tr dism pyr, rr fos frag's, mod - hi content CLY: lt - m lt gy, sft, low solubility, w hydrated, mod plac 'ity, mod 'ly cohesive, mod 'ly adhesive, silty, n spl flor, v wk cut

MD 2328'
TVD 2318.32'
INC 0.6°
AZM 61.5°



SLTYSH: It gy - med gy, tr dk gy, sft, fri, sub blky - sub pty, sm tex, scat mica par's, SLTST: wh, It gy, s&p, vf gr, sbrd - sub ang, sil cmt, mod srt, mod hd - hd, fri - brit, mod calc ip, glau, tr mica, com ss strg's, tr dism pyr, rr fos frag's, mod content CLY: It - m It gy, sft, mod solubility, w hydrated, mod plac 'ity, mod 'ly cohesive, mod 'ly adhesive, silty, n spl flor, v wk cut

Slight Decrease in Clay Content

MW IN 8.9/9.1 OUT
VIS IN 33/35 OUT

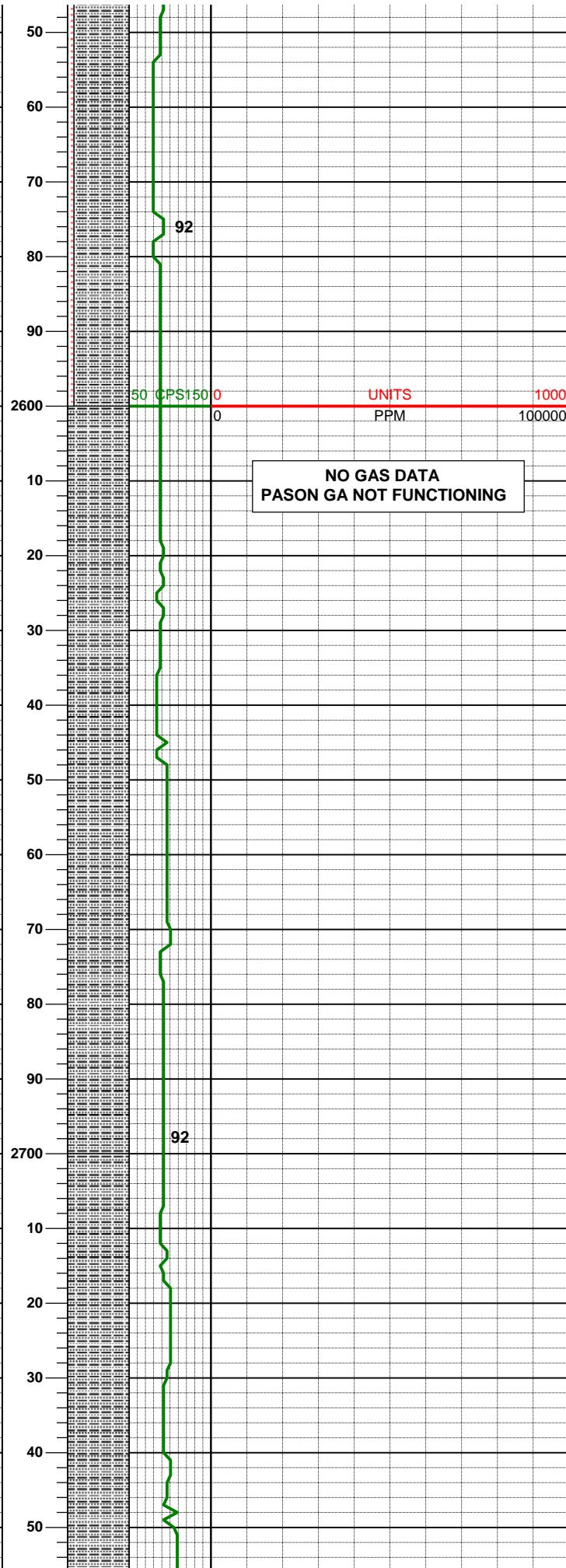
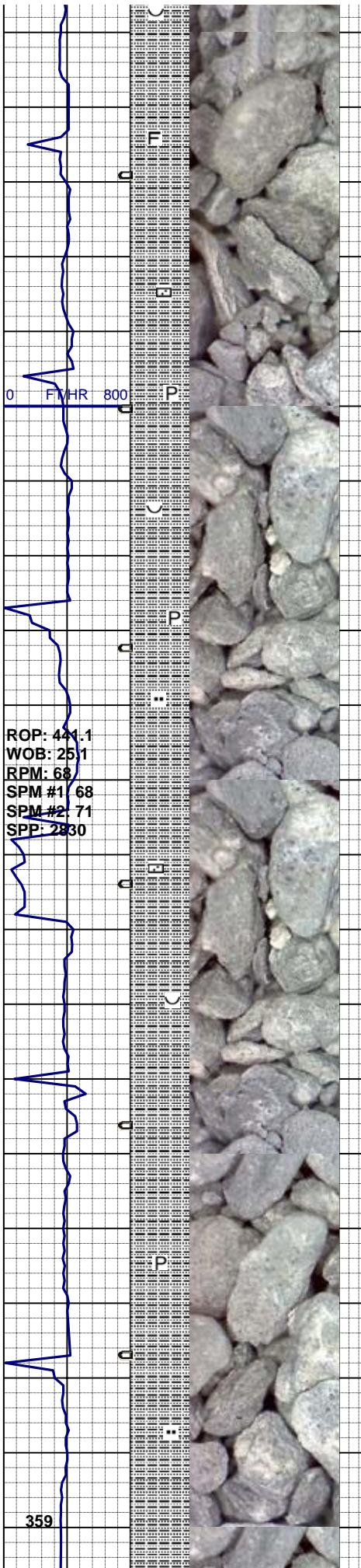
MD 2424'
TVD 2414.32'
INC 1.0°
AZM 117.0°

SLTYSH: gy 'ish brn, It - m It gy, mod firm, fri, sbplty - sbblky, occ bld, arg - sly mtx, pr 'ly fis, v thn 'ly lam, com - abnt slst strg's, SLTST: - SS: It gy - gy, It brn, s&p, mod firm, fri, vf - f gr, w srt, sb rd - sb ang, sbblky, arg - sly mtx, sil cmt, sl calc, tr dism pyr thru, scat mica frag thru, v rr fos frag's, v rr dul gold & dk brn 'ish gn spl flor, v sl stmg, v slow. diffuse dul gn mky cut, n stn or od

Moderate Clay Content

MD 2519'
TVD 2509.30'
INC 0.9°
AZM 119.0°

SLTYSH: gy 'ish brn, It - m It gy, mod firm, fri, sbplty - sbblky, occ bld, arg - sly mtx, pr 'ly fis, v thn 'ly lam, com - abnt slst strg's, SLTST: - SS: It gy - gy, It brn,



s&p, mod firm, fri, vf - f gr, w srt,
sb rd - sb ang, sbblk, arg - slty
mtx, sil cmt, sl calc, tr dism pyr
thru w/ sme v mnrr mic vn 'ing,
scat mica frag thru, v rr fos frag
's, v rr dul gold & dk brn 'ish gn
spl flor, v sl stmg, v slow. diffuse
dul gn mky cut, n stn or od

**MW IN 9.0/9.1 OUT
VIS IN 34/35 OUT**

**MD 2614'
TVD 2604.28'
INC 1.4°
AZM 137.5°**

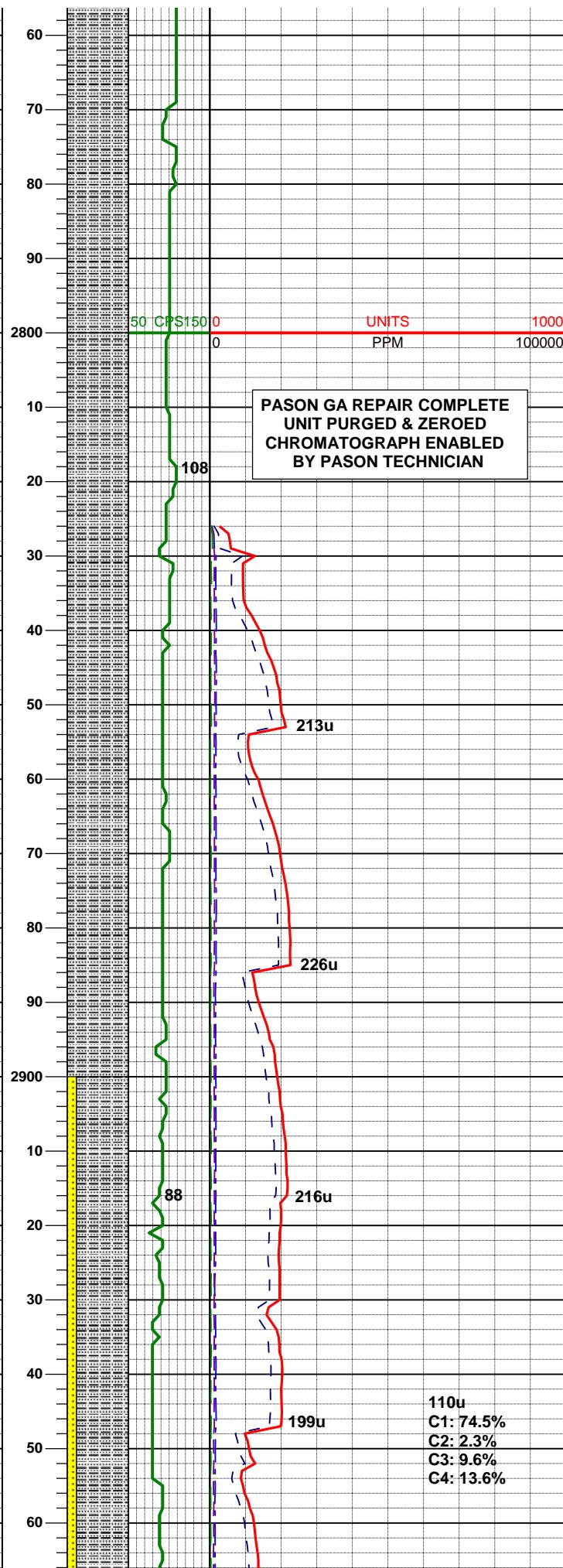
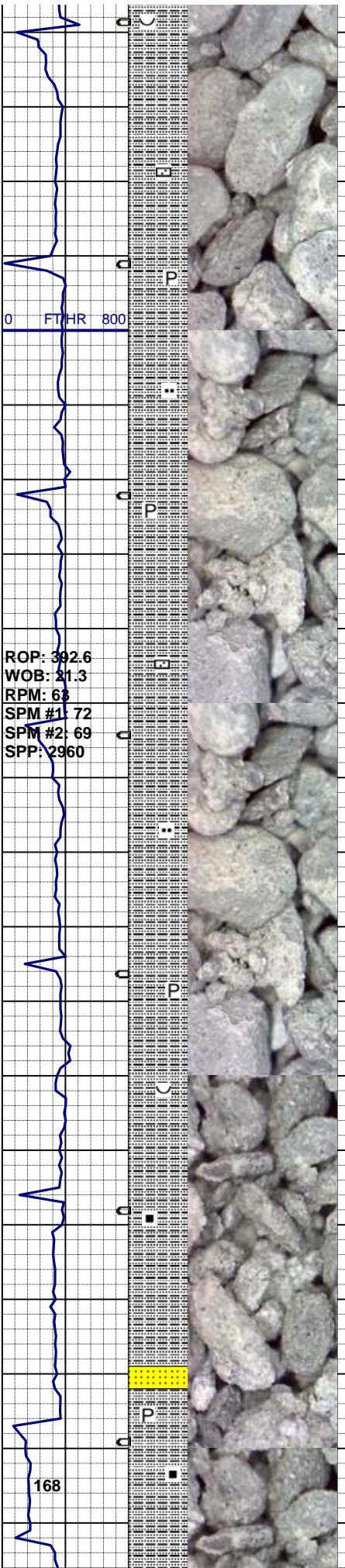
SLTYSH: It - m gy, It brn 'ish gy, sft, brit - fri, p fis, sb blk, arg - silty tex, tr pyr, mod 'ly mica thru, v rr dul gold & dk brn 'ish gn spl flor, v sl strmg, v slow. diffuse dul gn mky cut, n stn or od, mod content **CLY:** It - m It gy, sft, mod solubility, w hydrated, mod plac 'ity, mod 'ly cohesive, mod 'ly adhesive, silty

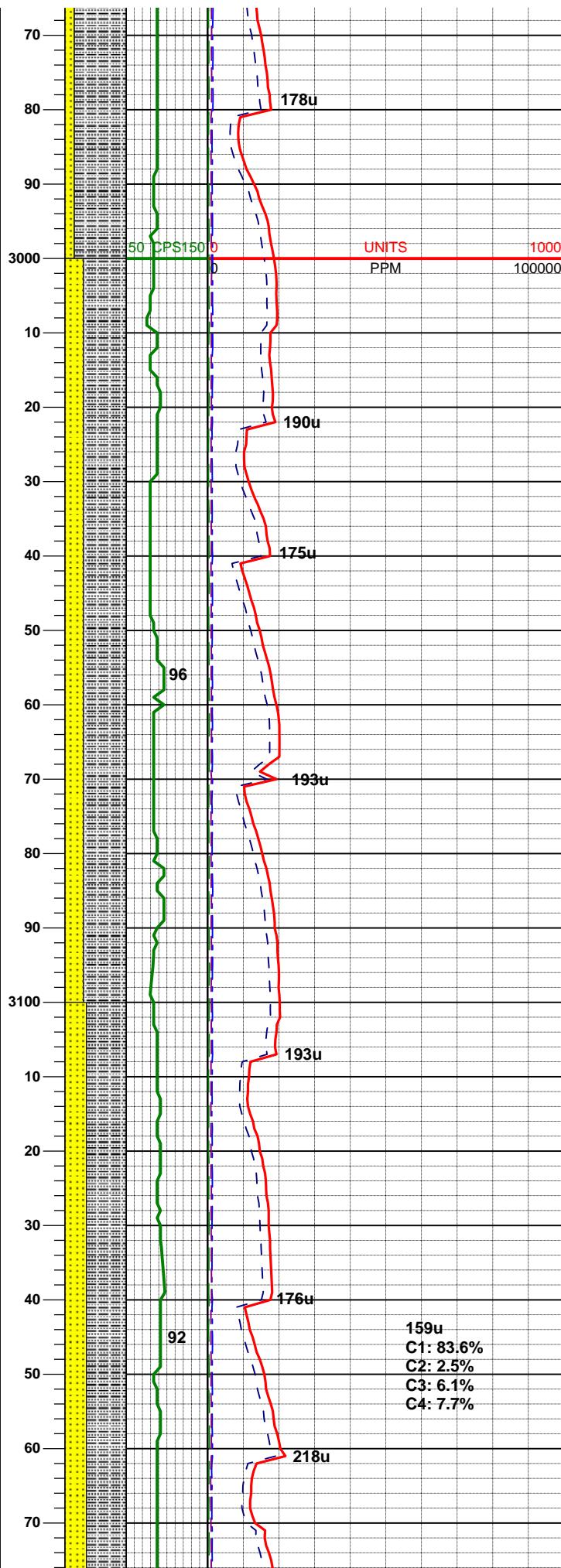
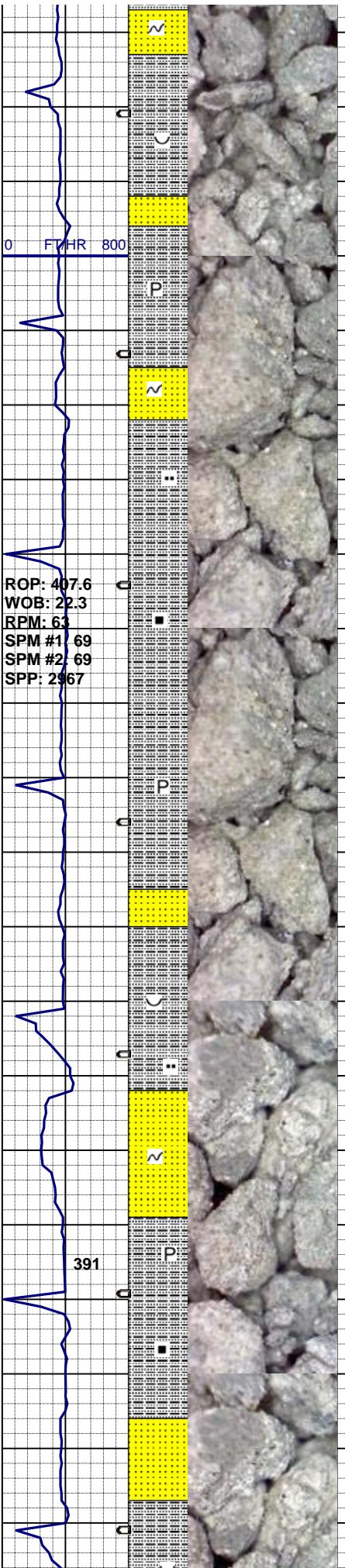
**MW IN 9.1/9.1 OUT
VIS IN 35/35 OUT**

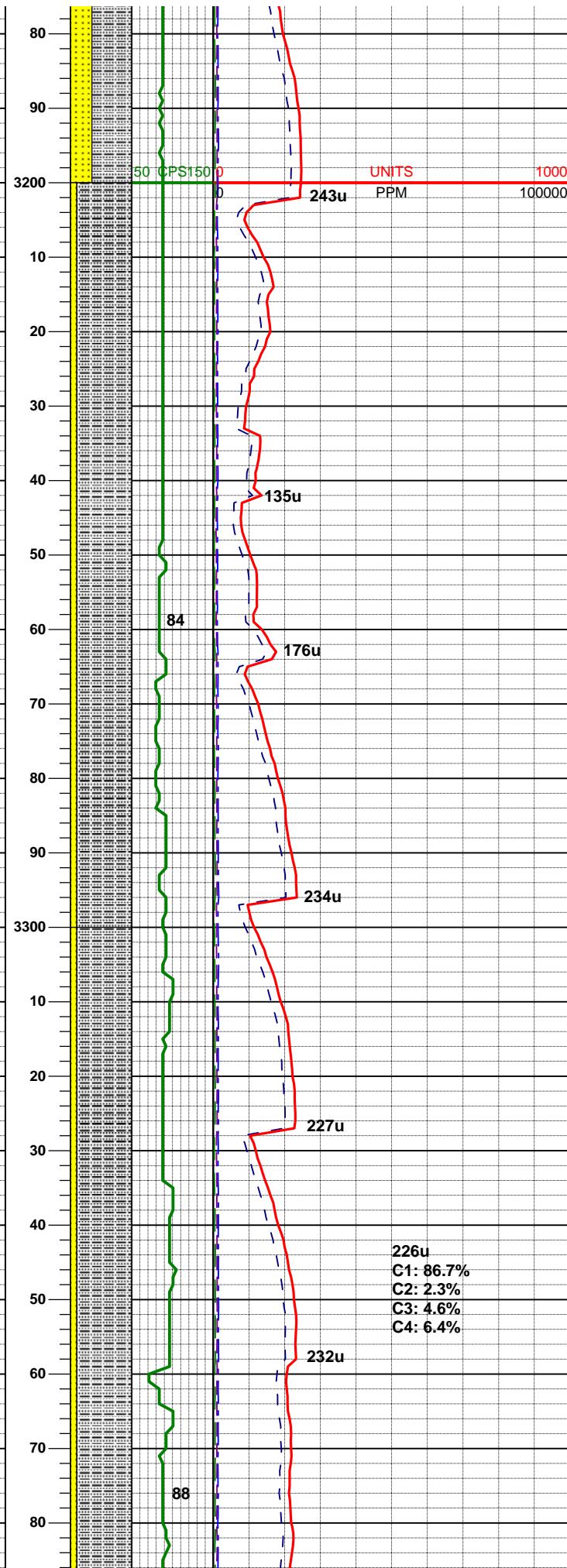
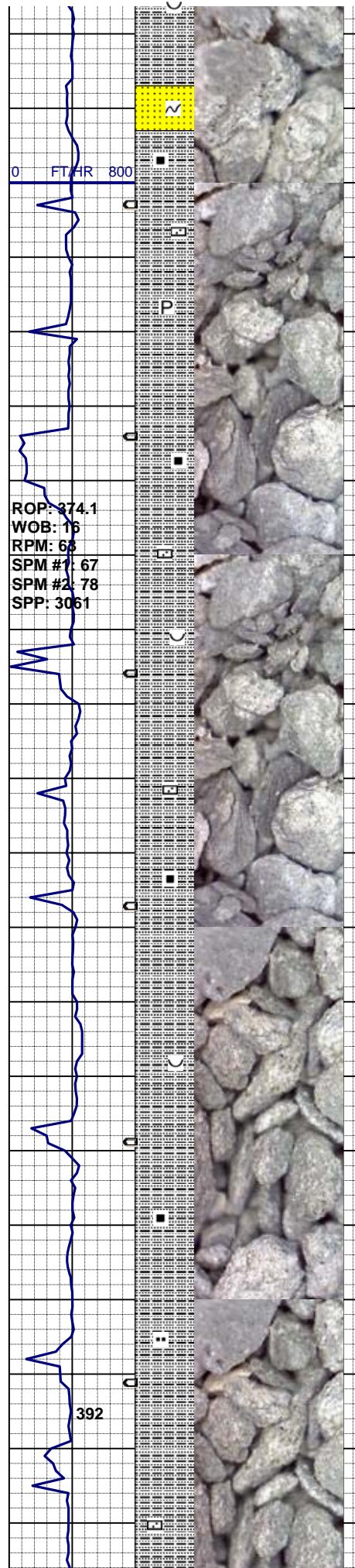
**MD 2709'
TVD 2699.27'
INC 0.9°
AZM 203.6°**

Moderate Clay Content

SLTYSH: It - mod brn 'ish gy, It - m gy, ly olv gy, sft - sb firm, brit - fri, v thn 'ly lam, p 'ly fis, sb blky, arg mtx, sl slty tex, tr pyr, mod 'ly mica thru, v rr dul gold & dk brn 'ish gn spl flor, v sl stmg, v slow. diffuse dul gn mky cut, n stn or cd, mod content CL Y: It - m lt av







MD 3184'
TVD 3174.14'
INC 1.7°
AZM 20.4°

Light Clay Content

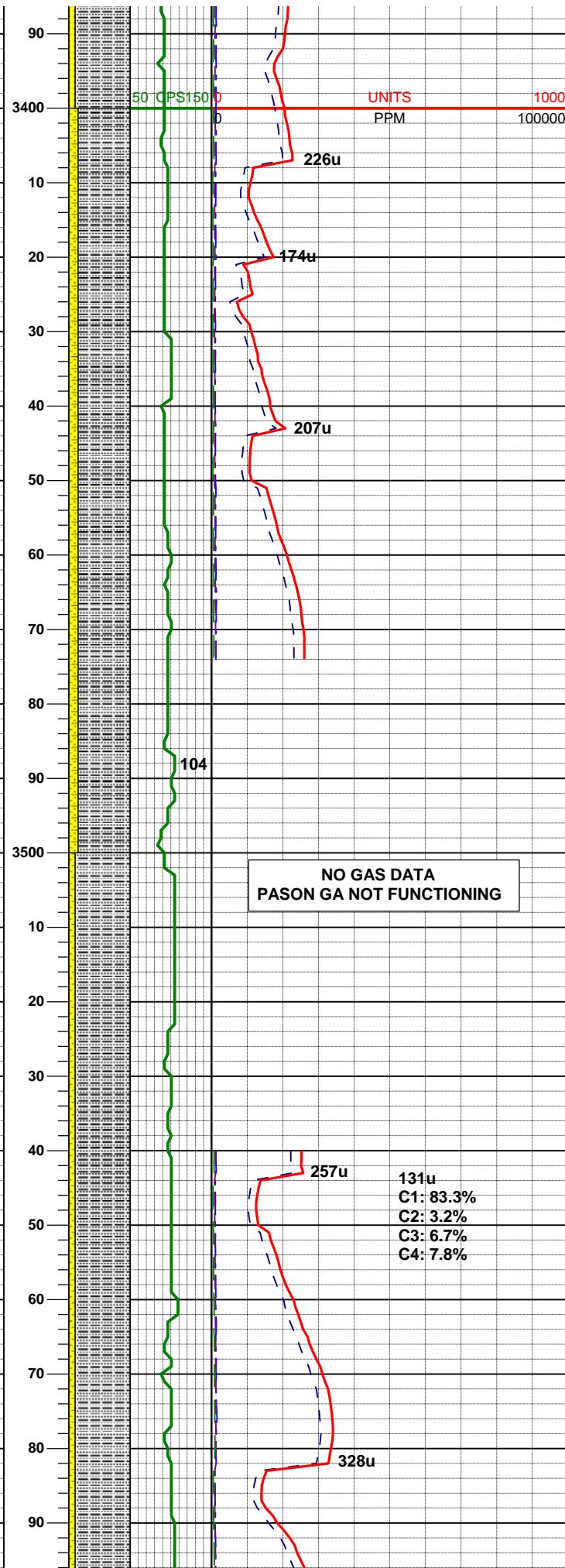
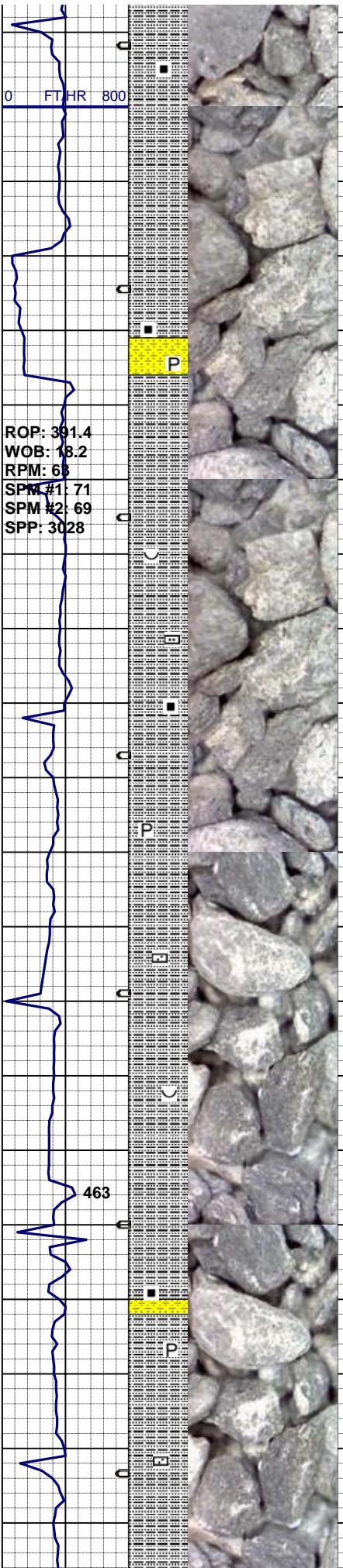
MW IN 9.1/9.2 OUT
VIS IN 36/40 OUT

SLTYSH: mod brn 'ish gy, m lt - m gy, lt olv gy, sb firm - sb hd, fri, sb pfty - sb blky, arg mtx, sly - sdy tex, SS: s&p, wh, lt gy, brn, firm, fri, vf - m l sz gr, sb rd - sb ang, w srt, sb blky, sil mtx, com slst strg's thru, v wk 'ly calc, tr pyr, mica thru sme frag's alt - chlor, rr carb frag's thru, rr siltst, tr dul yel - gold 'ish yel ss spl flor, v wk v pale brn 'ish gn cut, n stn or od, CLY: lt - m lt gy, sft, mod - hi 'ly solubility, v w hydrated, mod - low. plac 'ity, low. - mod 'ly cohesive, low. -mod 'ly adhesive, silty - sdy

MD 3279'
TVD 3269.11'
INC 1.3°
AZM 10.1°

SLTYSH: mod brn 'ish gy, m lt - m gy, lt olv gy, sb firm - sb hd, fri, sb pfty - sb blky, arg mtx, sly - sdy tex, SS: s&p, wh, lt gy, brn, firm, fri, vf - m l sz gr, sb rd - sb ang, w srt, sb blky, sil mtx, com slst strg's thru, v wk 'ly calc, tr pyr, mica thru sme frag's alt - chlor, rr carb frag's thru, rr siltst, mod - low. cly content, rr dul yel - gold 'ish yel ss spl flor, v wk v pale brn 'ish gn cut, n stn or od

MD 3374'
TVD 3364.09'
INC 1.4°
AZM 10.8°



MW IN 9.1/9.1 OUT
VIS IN 37/39 OUT

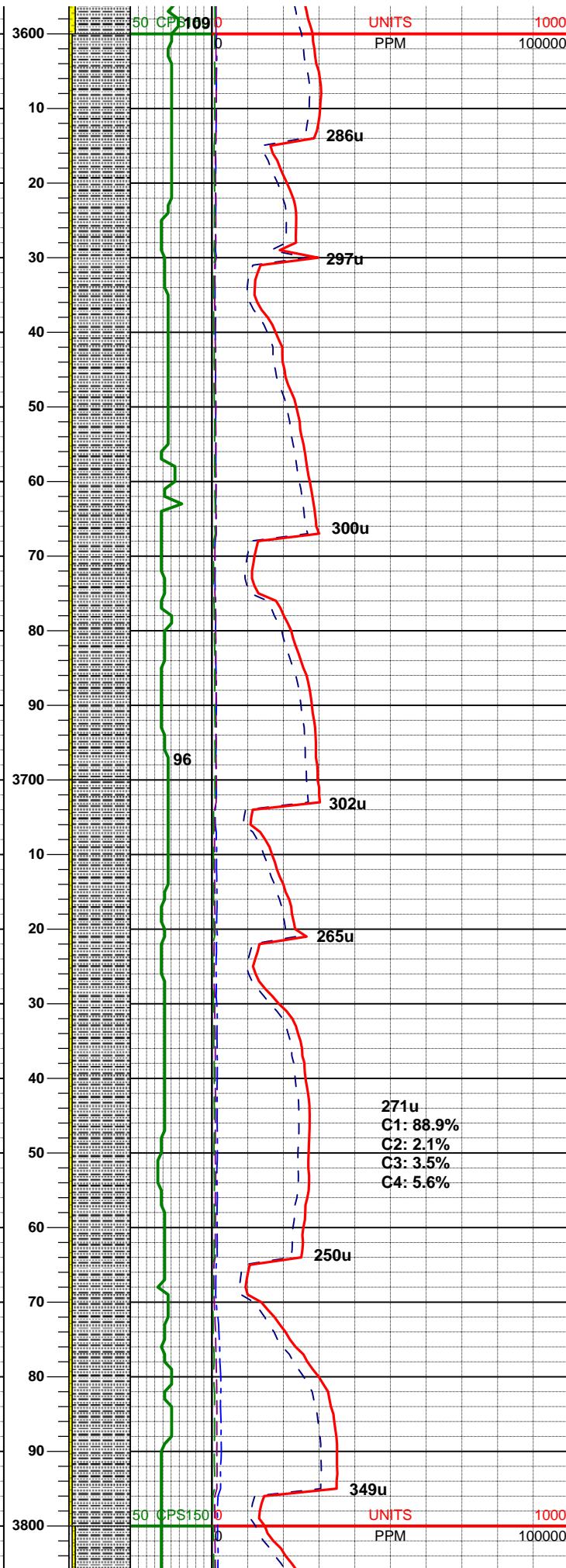
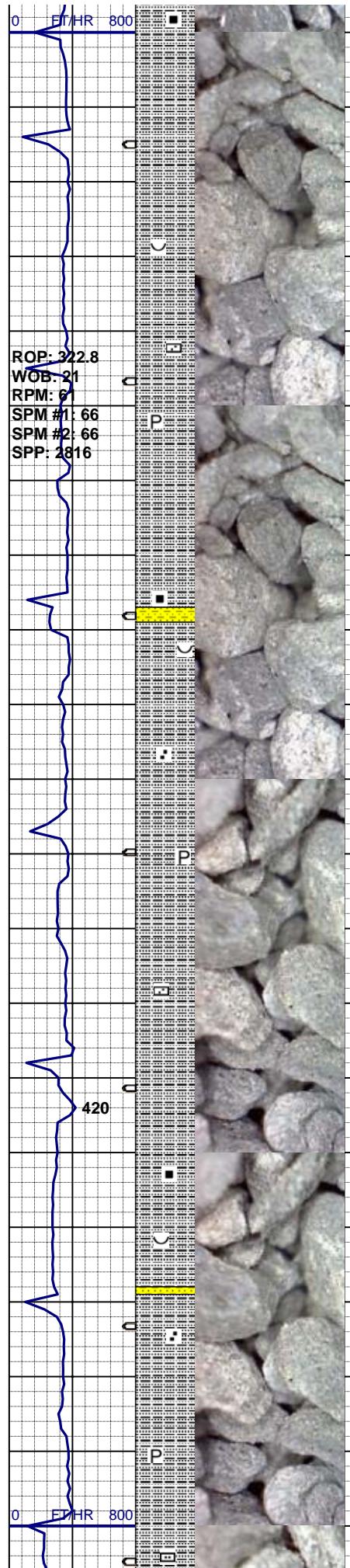
SLTYSH: m brn gy, m lt - m gy, lt olv gy, sb firm - sb hd, fri, sb plty - sb blky, arg mtx, sly - sdy tex, SHYSS: s&p, wh, lt gy, brn, firm, fri, vf - m gr, sb rd - sb ang, w srt, sb blky, sil mtx, com slst strg thru, v wk calc, tr dism pyr, mica thru sme frag alt - chlor, rr carb frag thru, rr slst, mod - ltl cly content, v dul yel spl flor, n cut, n stn, n od

MD 3469'
TVD 3459.08'
INC 0.4°
AZM 186.3°

MD 3564'
TVD 3554.075'
INC 0.6°
AZM 261.4°

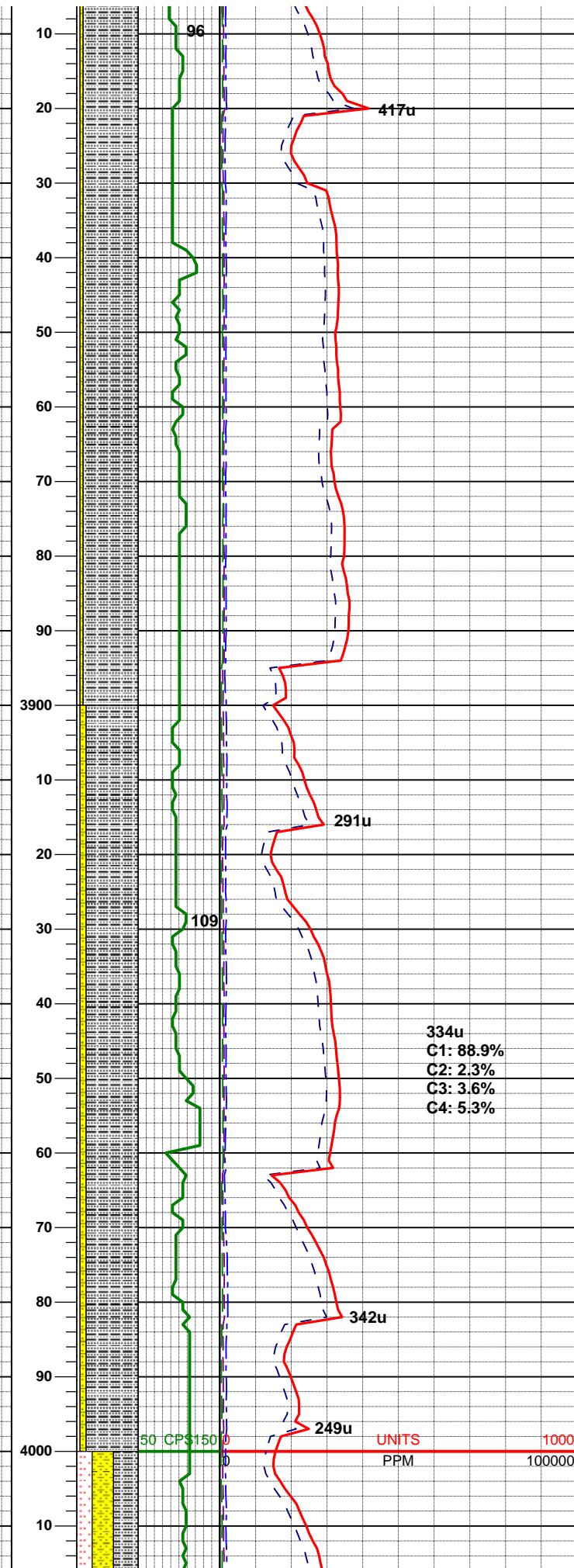
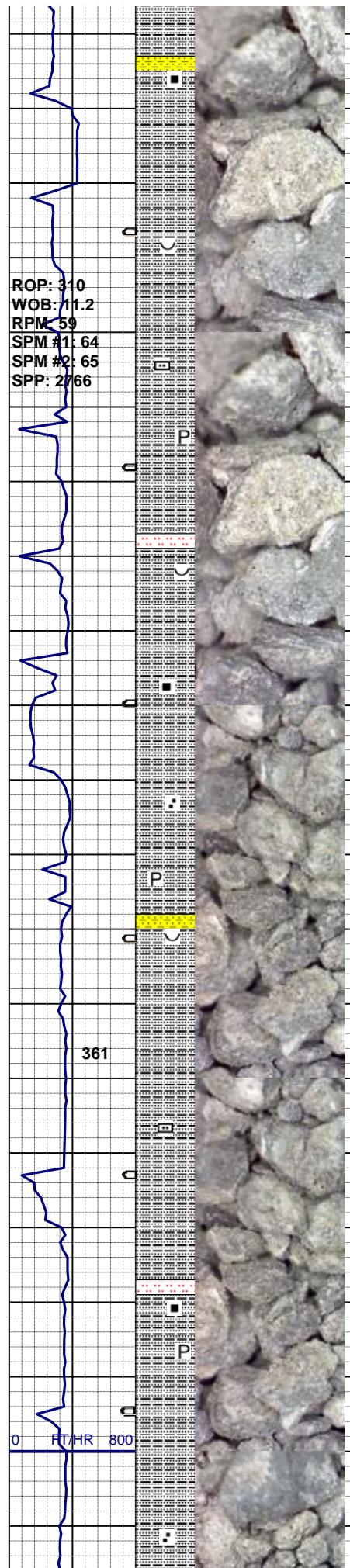
SLTYSH: m brn gy, m lt - m gy, lt olv gy, occ lt brn wh, sb firm - sb hd, fri, sb plty - sb blky, arg mtx, sly - sdy tex, SHYSS: s&p, wh, lt gy, brn, firm, fri, vf - m gr, sb rd - sb ang, w srt, sb blky, sil mtx, com slst strg thru, v wk calc, tr dism pyr, mica thru sme frag alt - chlor, rr carb frag thru, rr slst, mod - ltl cly content, v dul yel spl flor, n cut, n stn, n od

MUD DATA (3549')
WT 9.1
FV 35
PV 6
YP 11
API Fil 16.4
CK 1/32"
% Sol 3.0



Chl 1800
pH 8.9

SLTYSH: m brn gy, m lt - m gy, lt olv gy, occ lt brn wh, sb firm - sb hd, fri, sb plty - sb blky, arg mtx, slty - sdy tex,
SHYSS: s&p, wh, lt gy, brn, firm, fri, vf - m gr, sb rd - sb ang, w srt, sb blky, sil mtx, com slst strg thru, v wk calc, tr dism pyr, mica thru sme frag alt - chlor, rr carb frag thru, rr slst, mod - ltl cly content, v dul yel spl flor, n cut, n stn, n od



MD 3848'
TVD 3838.026'
INC 1.8°
AZM 279°

SLTYSH: m brn gy, m lt - m gy, lt olv gy, occ lt brn wh, sb firm - sb hd, fri, sb plty - sb blky, arg mtx, slty - sdy tex,
SHYSS: s&p, wh, lt gy, brn, firm, fri, vf - m gr, sb rd - sb ang, w srt, sb blky, sil mtx, comslt strg thru,

SLTST: lt - m gy, occ wh, occ lt olv gn, sft, fri, sb blky, gt txt, occ sm, mod srt, sub ang, vf gr, v wk calc, tr dism pyr, mica thru sme frag alt - chlor, rr carb frag thru, rr sltst, mod - ltl cly content, v dul yel spl flor, n cut, n stn, n od

MW IN 9/9 OUT
VIS IN 35/36 OUT

MD 3943
TVD 3932.993'
INC 1.3°
AZM 247.2°

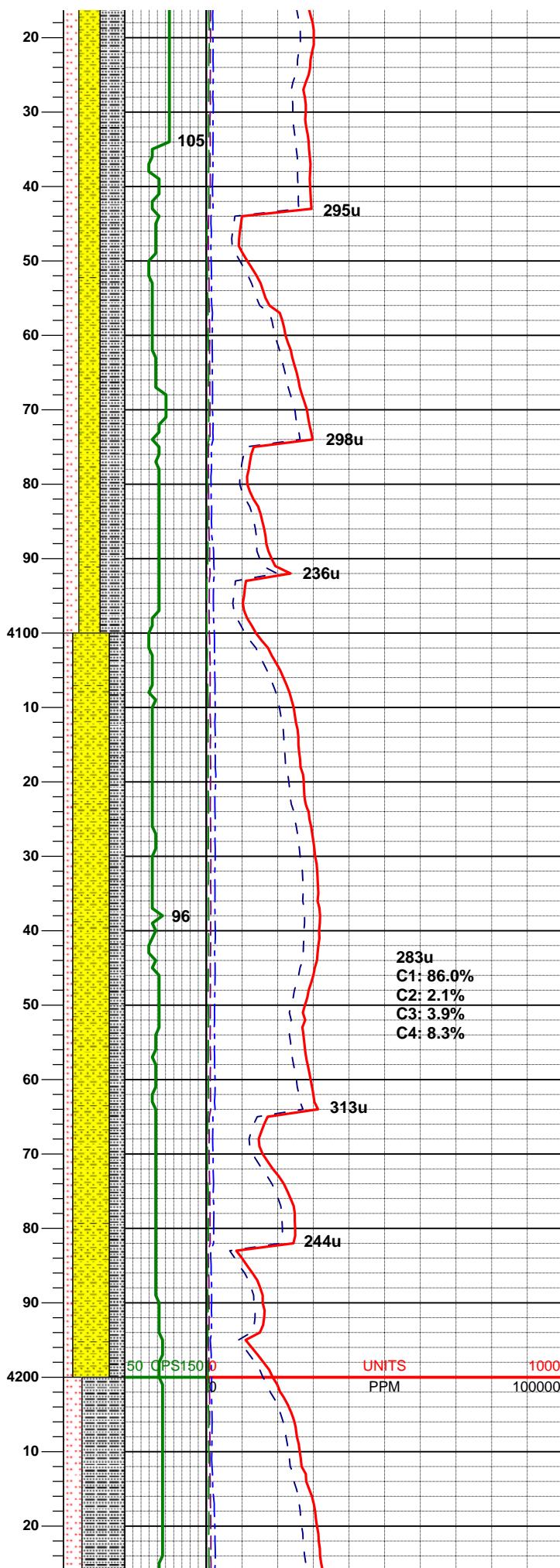
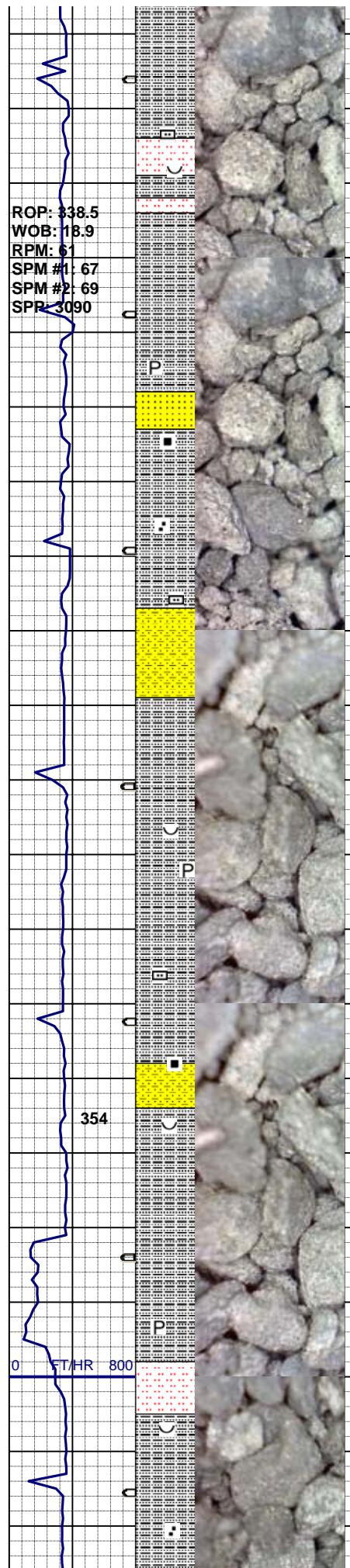
SLTYSH: m brn gy, m lt - m gy, lt olv gy, occ lt brn wh, sb firm - sb hd, fri, sb plty - sb blky, arg mtx, slty - sdy tex,

334u
C1: 88.9%
C2: 2.3%
C3: 3.6%
C4: 5.3%

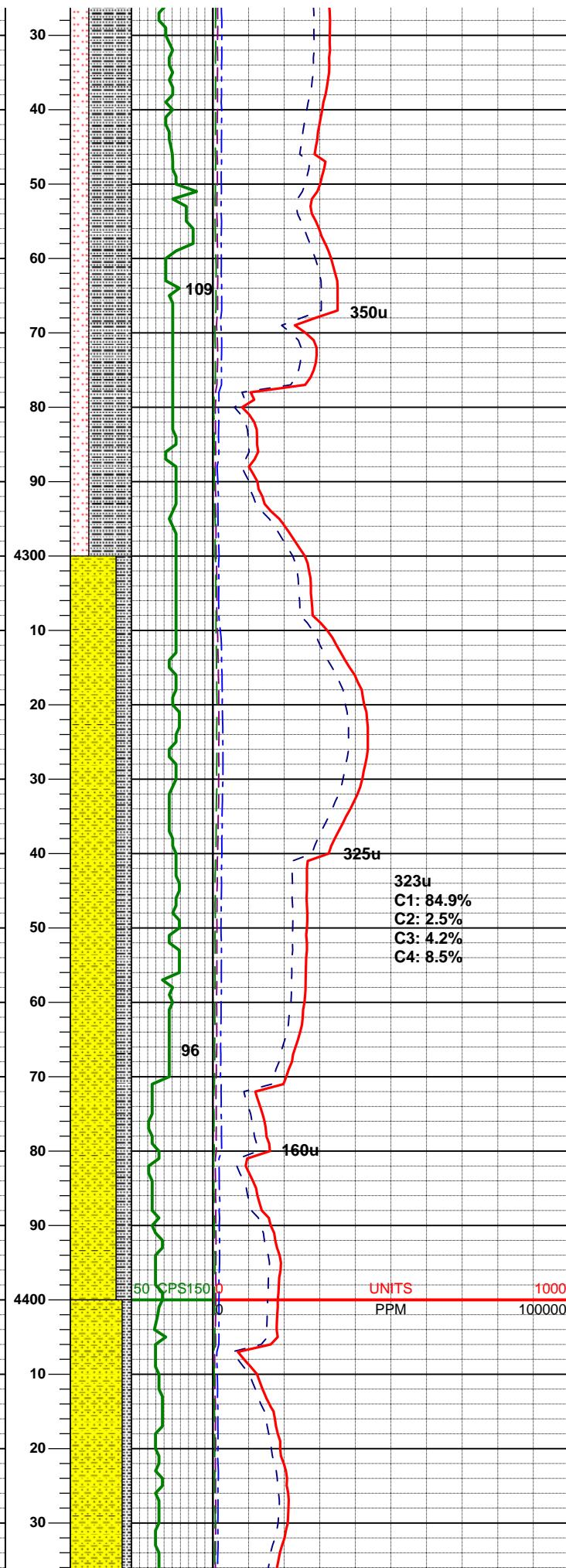
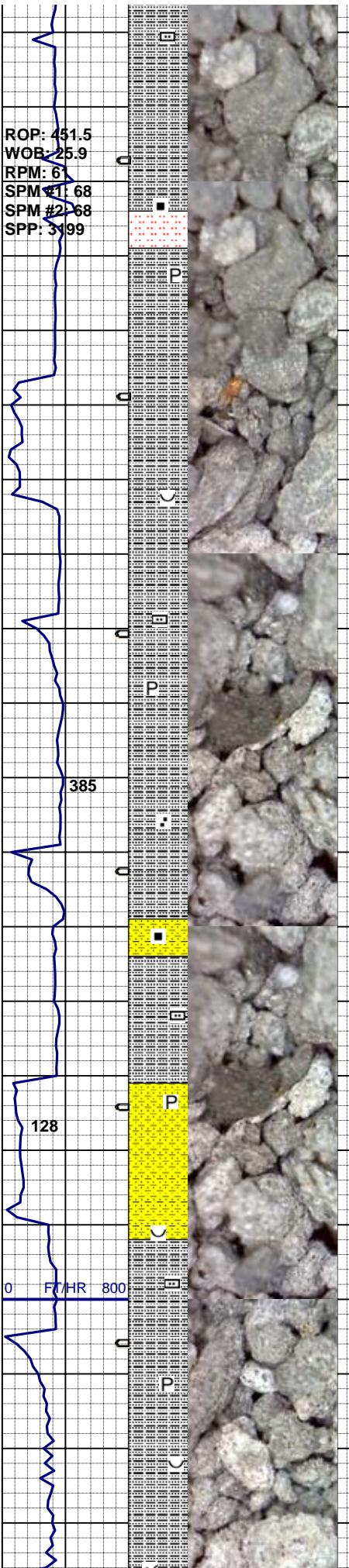
SHYSS: s&p, wh, lt gy, brn, firm, fri, vf - m gr, sb rd - sb ang, w srt, sb blky, sil mtx, comslt strg thru,

SLTST: lt - m gy, occ wh, occ lt olv gn, sft, fri, sb blky, gt txt, occ sm, mod srt, sub ang, vf gr, v wk calc, tr dism pyr, mica thru sme frag alt - chlor, rr carb frag thru, rr sltst, mod - ltl cly content, v dul yel spl flor, n cut, n stn, n od

Significant Decrease
in Clay Content

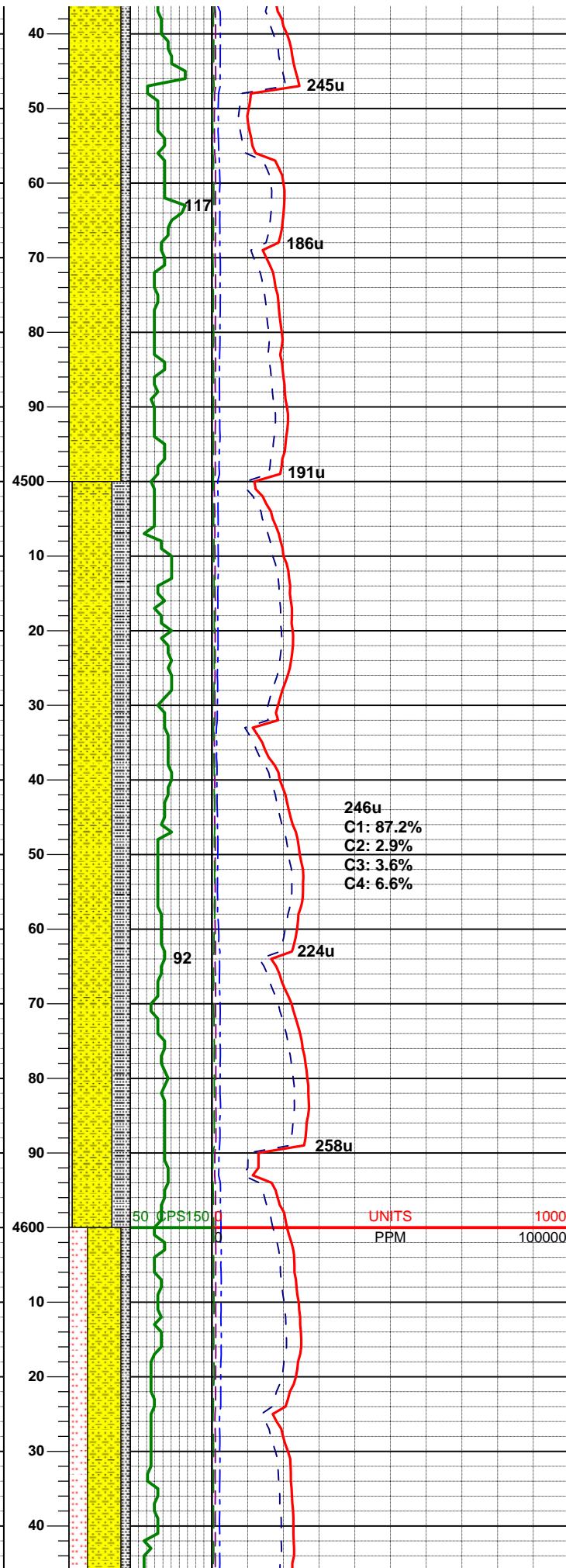
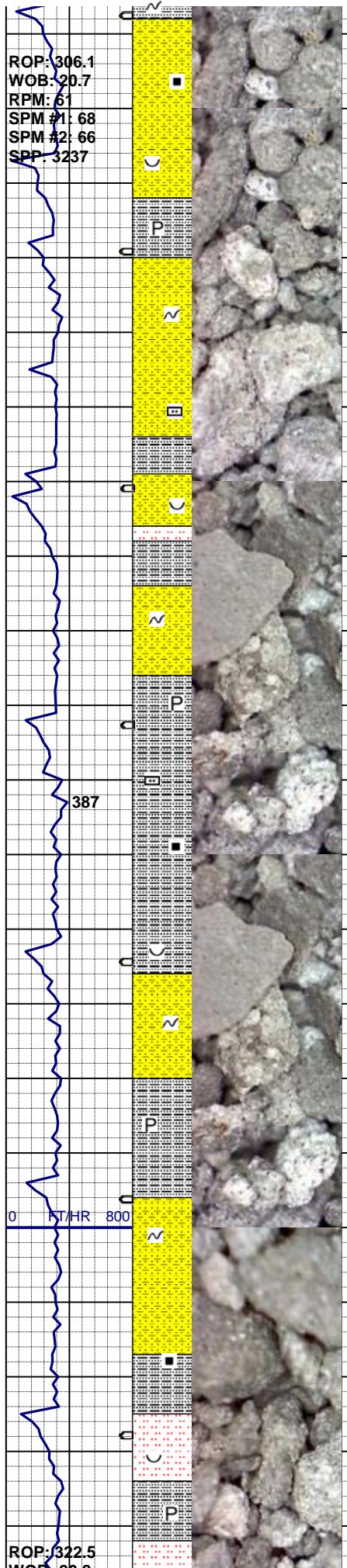


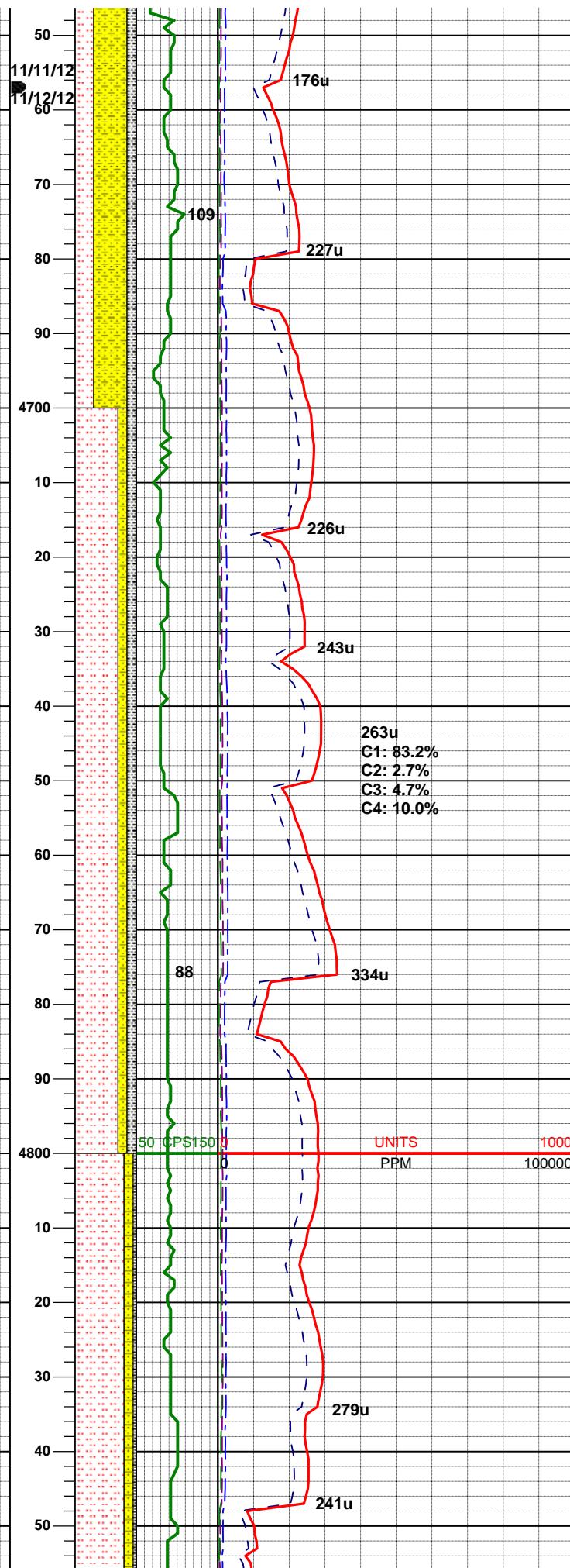
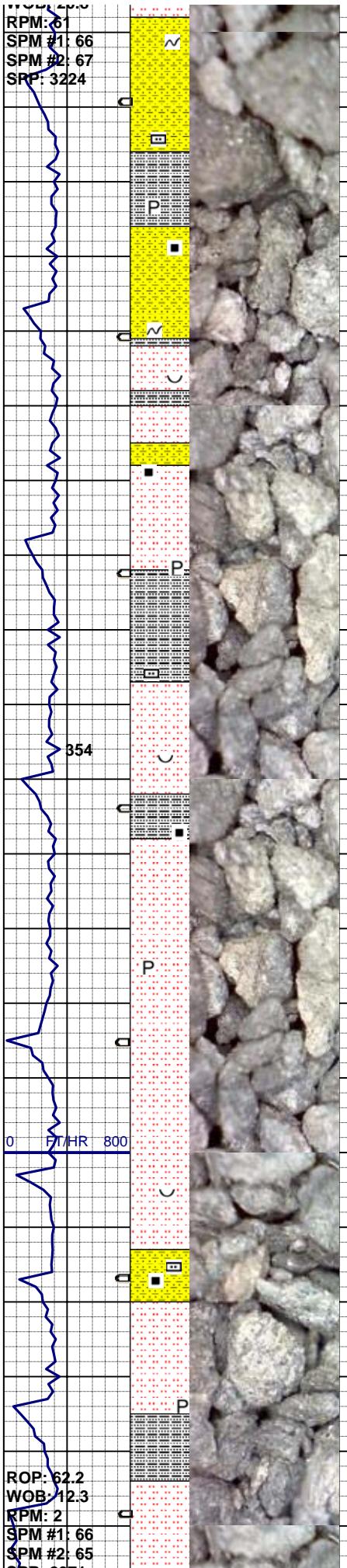
MD 4228'
 TVD 4217.908'
 INC 0.9°

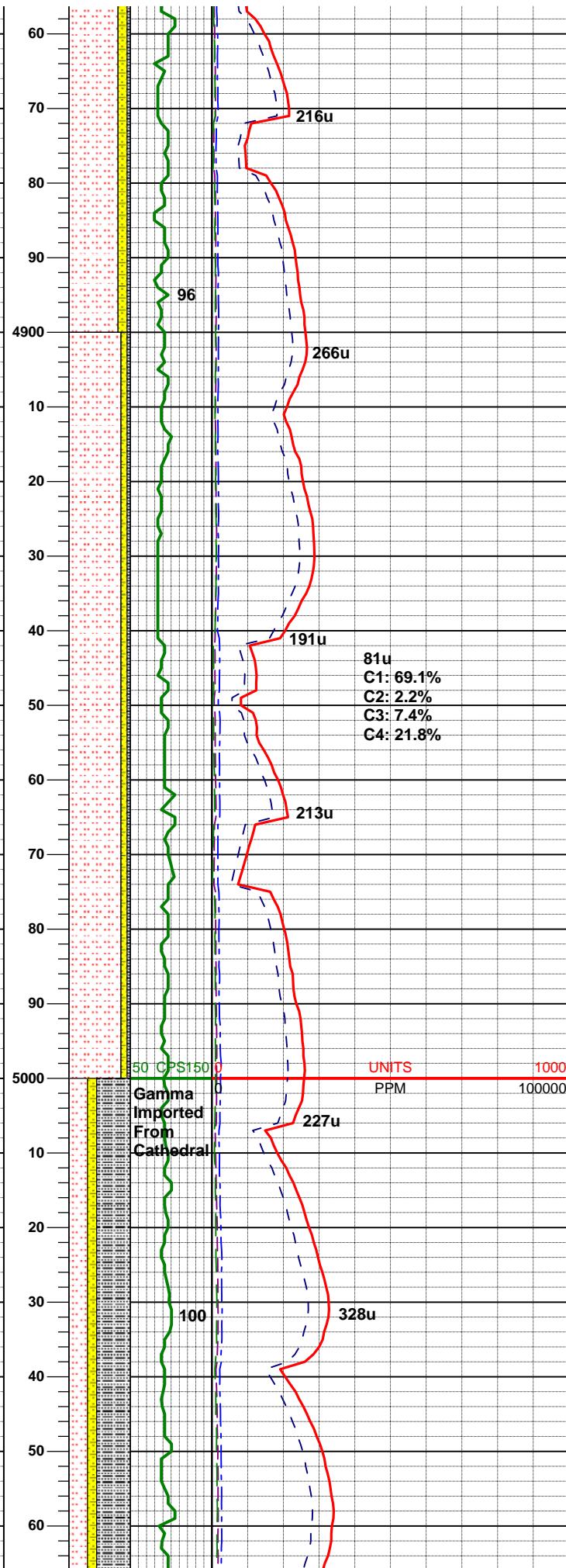
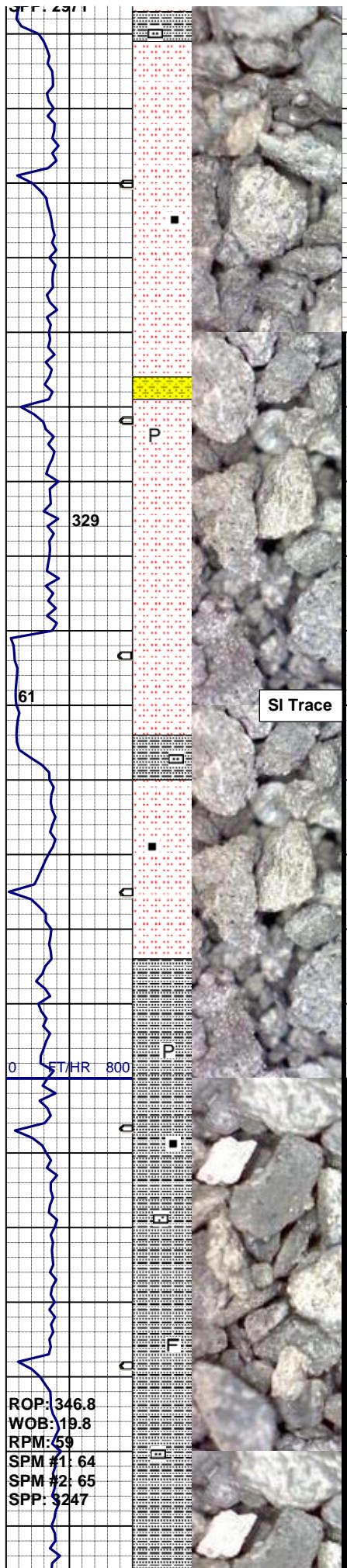


MD 4418'
TVD 4407.873'
INC 0.70°
AZM 100.10°

Sussex Logger
Top ~4438' MD

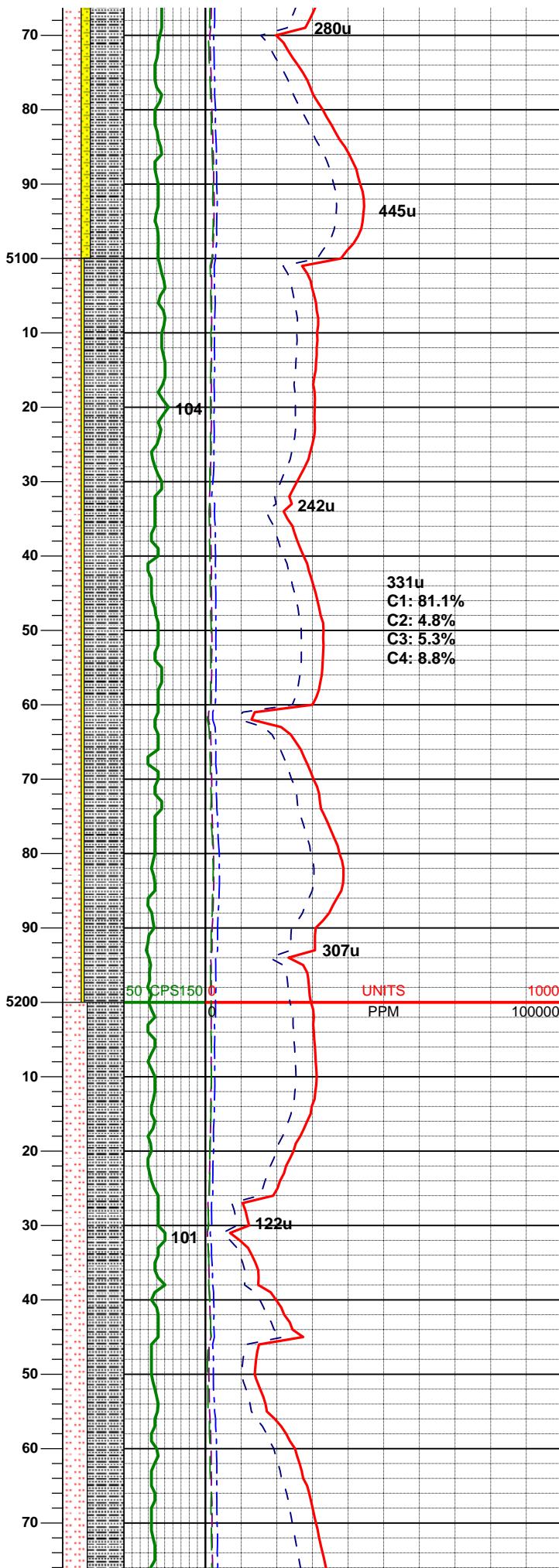
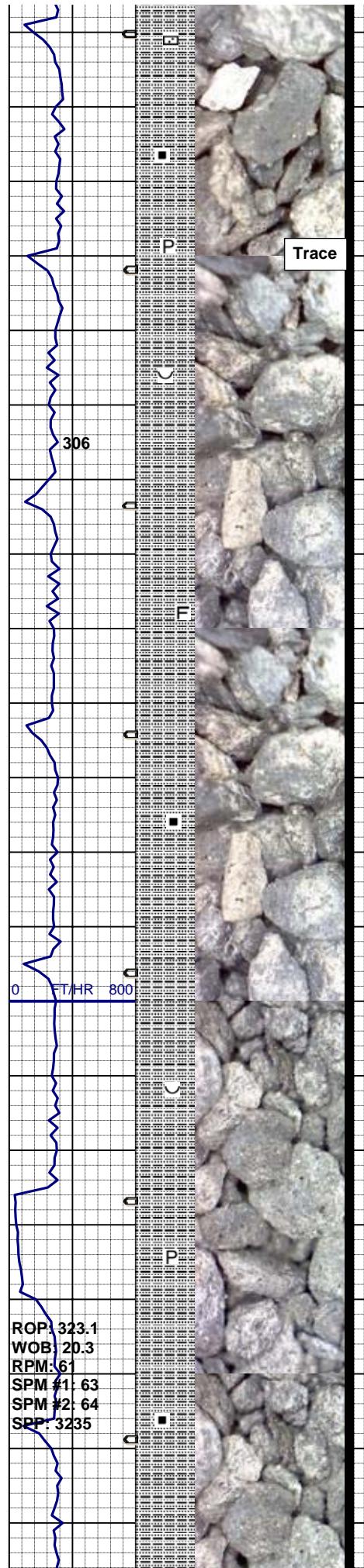






rr, m, sd plty - sd blky, arg mix, slty - sdy tex, mod wk calc, rr dism pyr, rr carb frag thru, lt cly content, v fnt yel spl flor, n cut, n stn, n od

SLTYSH: m - lt gy, lt olv gy, mod firm - smwt hd, sb blky - sb plty, occ 'ly bld, sm tex, mod calc, scat mica frag's w/sme alt - chlor, mn carb mat, SLTST: It - med gy, gy 'ish - dusky yel gn, tr wh, mod hd - firm, sl fri, vf gr, w srt, sb blky, occ sb plty, arg - slty mtx, sl calc, com mica par's, v rr fos frag's, v rr pale - dul gn spl flor, n stn, n od



MW IN 9.2+/9.2 OUT
VIS IN 36/42 OUT

MD 5082'
TVD 5071.76'
INC 1.3°
AZM 317.0°

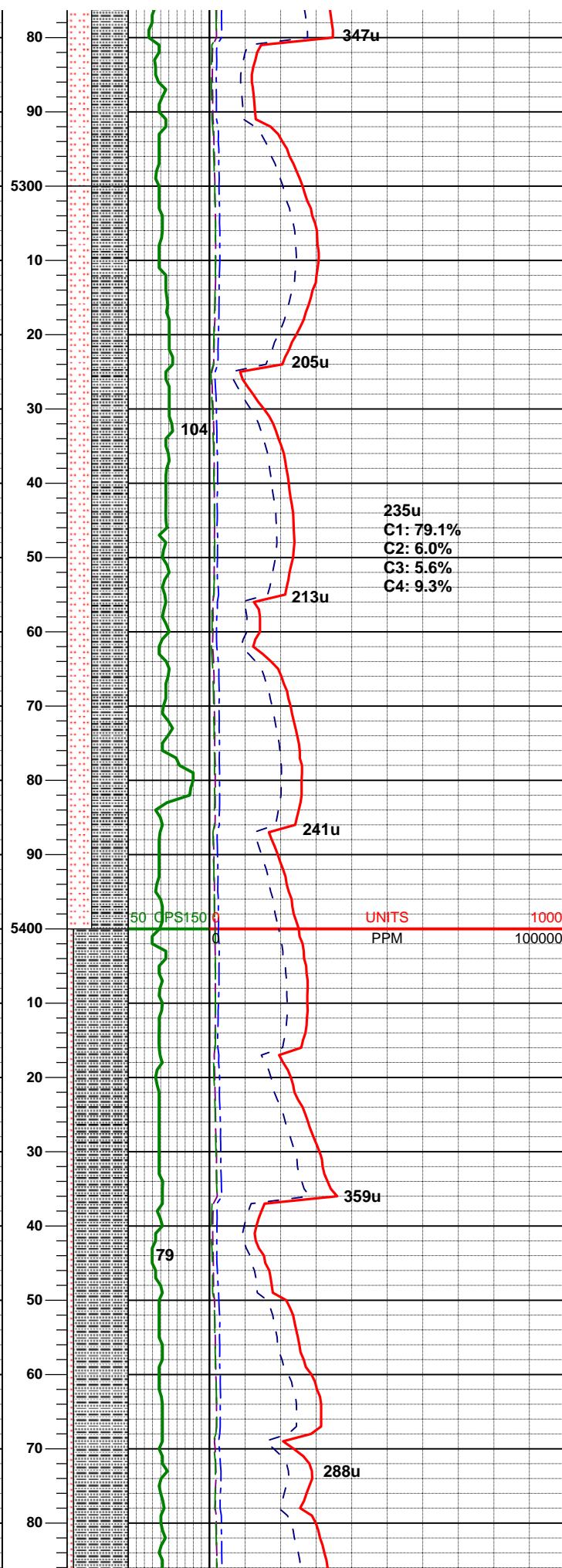
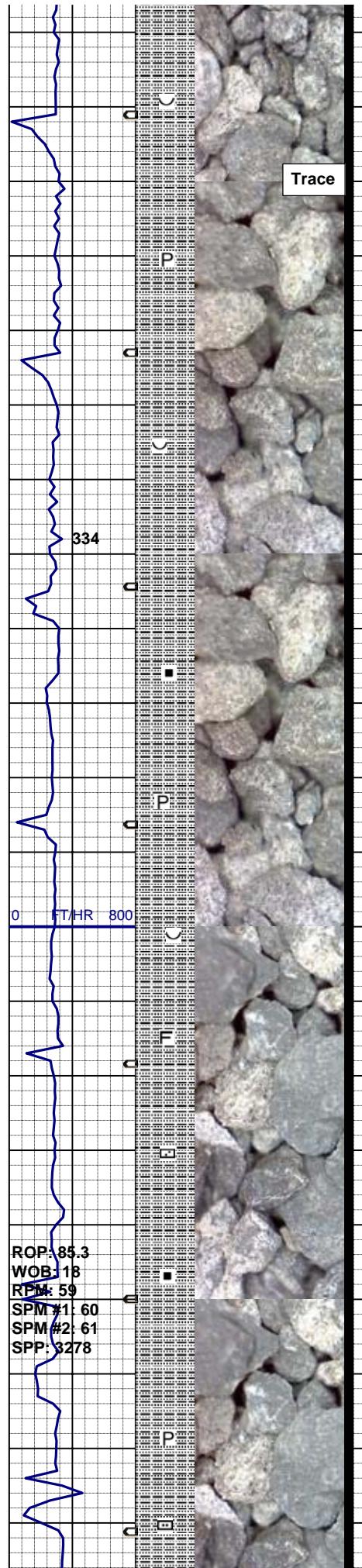
MUD DATA (5130')
WT 9.3
FV 35
PV 8
YP 10
API Fil 16.4
CK 1/32"
% Sol 5.0
Chl 1600
pH 9.1

SLTYSH: It - mod brn 'ish gy, It gy-m gy, It olv gy, firm, sbplty - sbblk, gt tex, slyt - arg mtx, mica, SLTST: It gy-gy, sdy ip, hd, bri-smwt fri, vf gr, mod srt, sbblk, arg mtx, tr intbd ss, occ pyr, mica, sl calc ip, v rr fos frag's, v rr dul gn spl flor, slow. diffuse v dul bl mky cut, n stn or od

MD 5177'
TVD 5166.72'
INC 2.0°
AZM 322.1°

MW IN 9.2/9.2 OUT
VIS IN 35/44 OUT

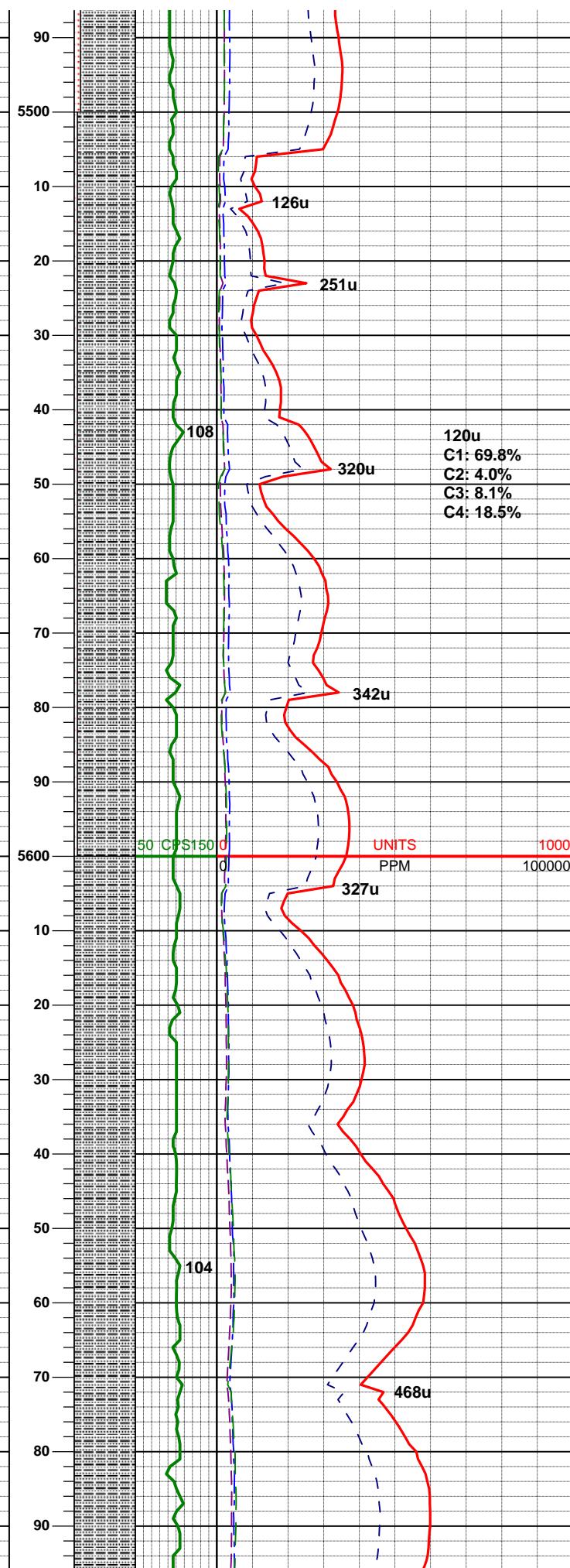
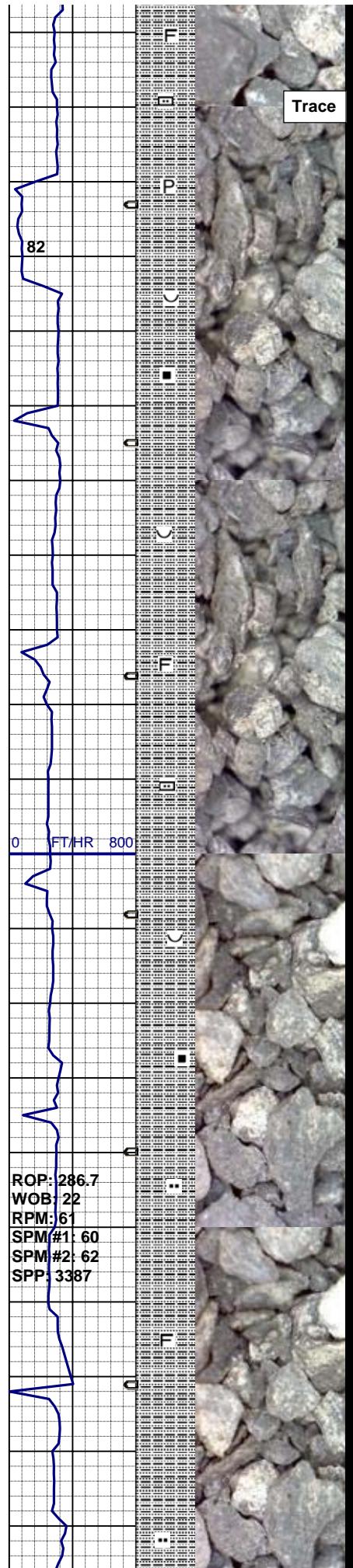
SLTYSH: It - mod brn 'ish gy, It gy-m gy, It olv gy, firm, sbplty - sbblk, gt tex, slyt - arg mtx, mica, SLTST: It gy-gy, sdy ip, hd, bri-smwt fri, vf gr, mod srt, sbblk, arg mtx, tr intbd ss, rr dism pyr, mica, sl calc ip, n flor, slow. diffuse v dul bl mky cut, n stn or od

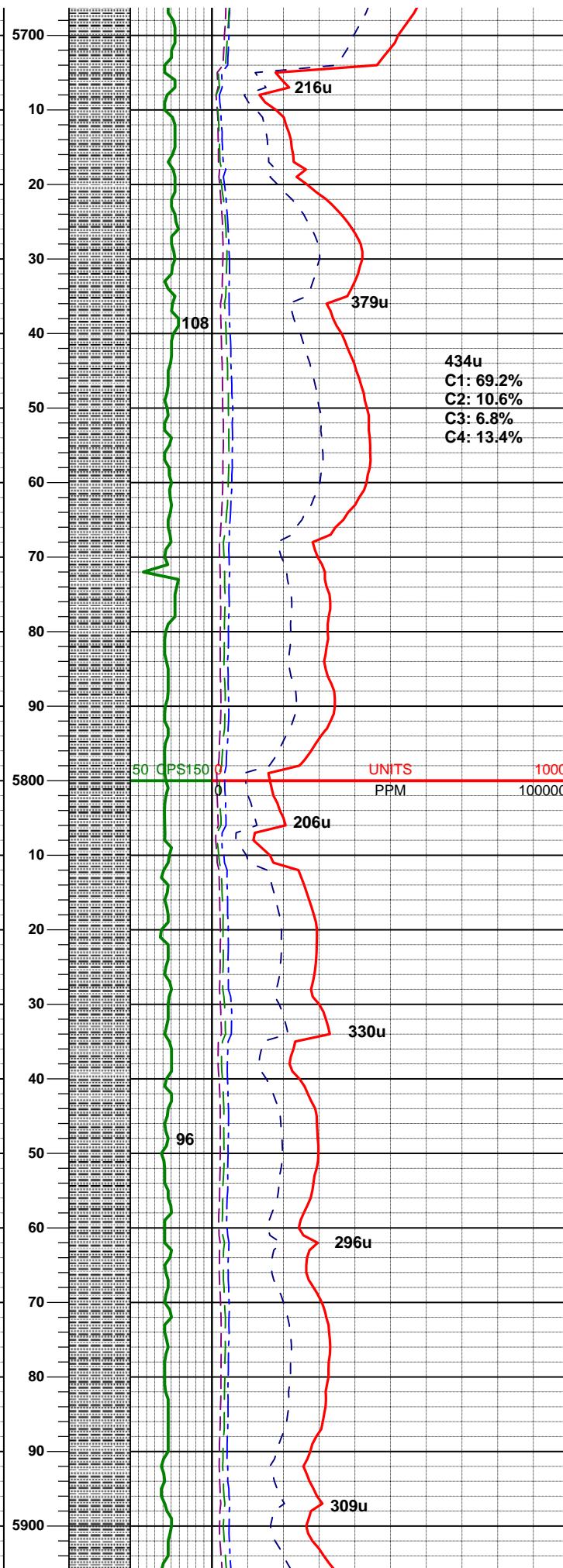
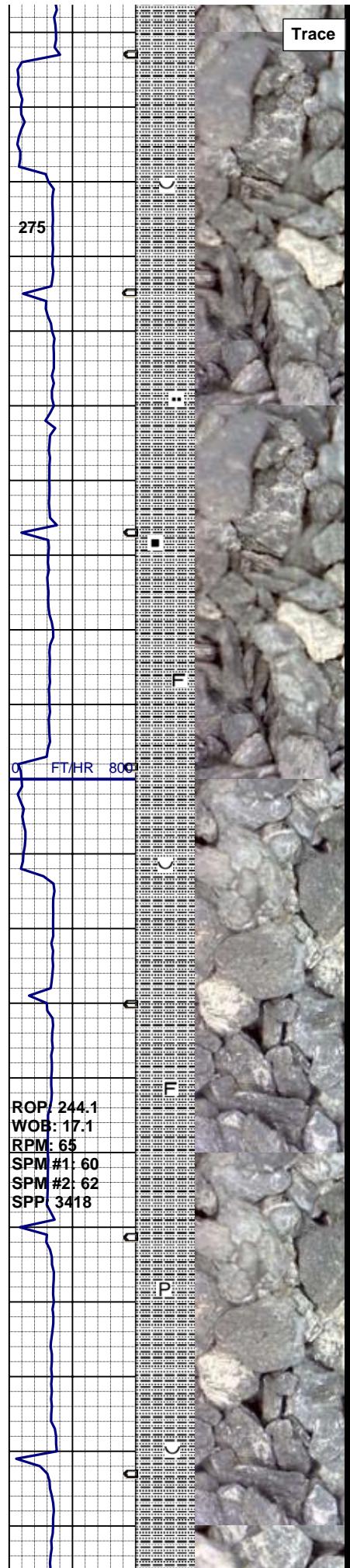


MD 5368'
TVD 5357.69'
INC 0.9°
AZM 57.3°

SLTYSH: It - mod brn 'ish gy, It - m gn 'ish gy, gy brn, m lt - m gy, firm, brit - fri, sb plty, arg mtx, slty - sl sdy tex, scat mica frag thru, occ slst & ss strg 's, tr fos frag 's, tr dism pyr thru, sl calc, n spl flor, n cut, n stn or od

MD 5463'
TVD 5462.67'
INC 1.3°
AZM 55.4°





SLTYSH: It brn 'ish gy, m lt - m gy, It olv gy, firm, brit - fri, sb blky - sb plty, gt - sly tex, rthy, sm, arg mtx, rr v f mica par 's, rr slst strg 's, sme v thn lam bdg, p fis, v loc sacc tex, tr dism pyr w/ sme mnr vn 'ing, v sl calc, v rr fos frag, rr lt gn spl flor, v sl stmg slow. brn 'ish - gn 'ish mky wh cut, n stn n od

MD 5748'
TVD 5737.59'
INC 1.7°
AZM 97.8°

Minor Clay Content
Highly Soluble

MW IN 9.4/9.3 OUT
VIS IN 44/46 OUT

MD 5843'
TVD 5832.56'
INC 1.1°
AZM 148.3°

SLTYSH: mod brn 'ish gy, m lt - m gy, olv gy, sb firm - firm, brit - fri, sb blky - sb plty, gt - sly tex, rthy, sm, arg mtx, rr v f mica par 's, v rr slst strg 's, scat dism pyr w/ sme mnr vn 'ing, v wk 'ly - non calc, v rr fos frag, n spl flor, v sl stmg v slow. brn 'ish - gn 'ish mky wh cut, n stn n od

MW IN 9.3+/9.3 OUT
VIS IN 40/45 OUT

Very Slight Clay Content

Highly Soluble

MD 5938'
TVD 5927.55'
INC 1.1°
AZM 139.0°

SLTYSH: mod brn 'ish gy, m lt - m gy, olv gy, sb firm - firm, brit - fri, sb blky - sb plty, gt - sly tex, rthy, sm, arg mtx, rr v f mica par 's, v rr slst strg 's, scat dism pyr w/ sme mnr vn 'ing, v wk 'ly - non calc, v rr fos frag, n spl flor, v sl stmg v slow. brn 'ish - gn 'ish mky wh cut, n stn n od

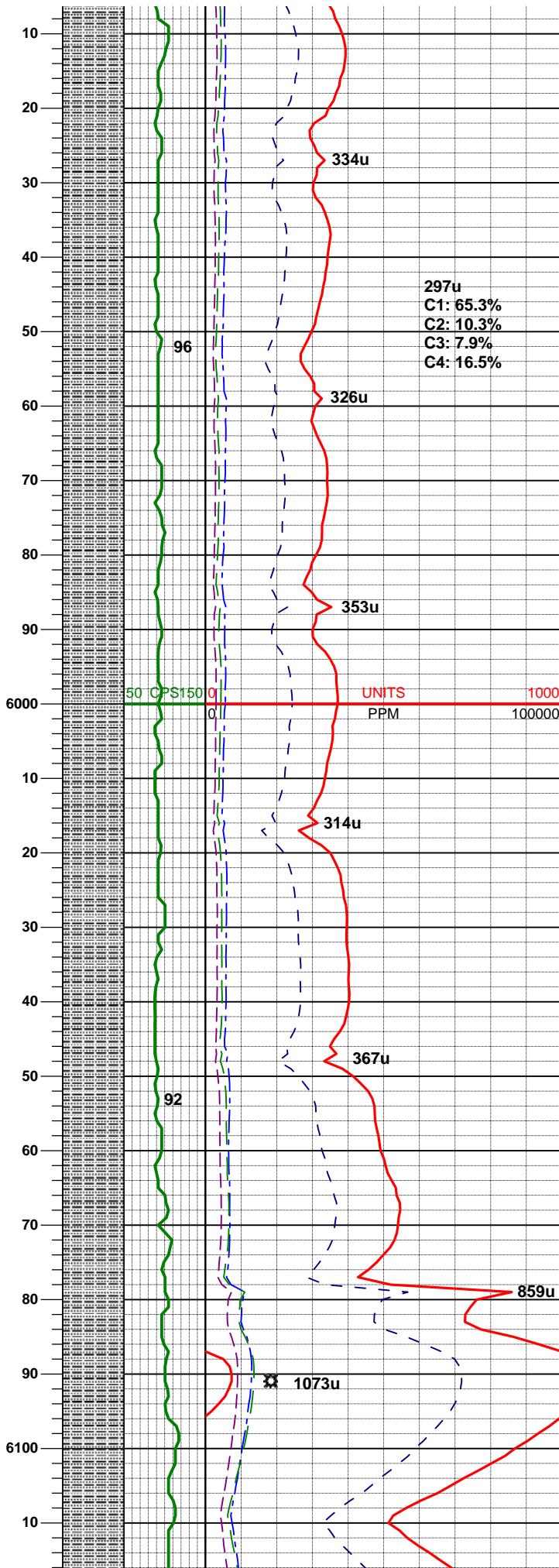
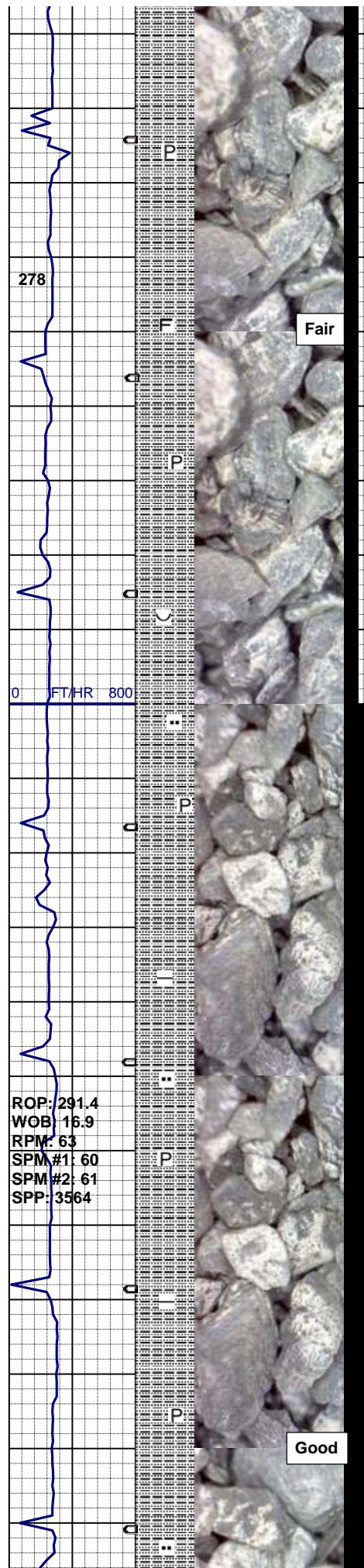
MW IN 9.4/9.4 OUT
VIS IN 40/47 OUT

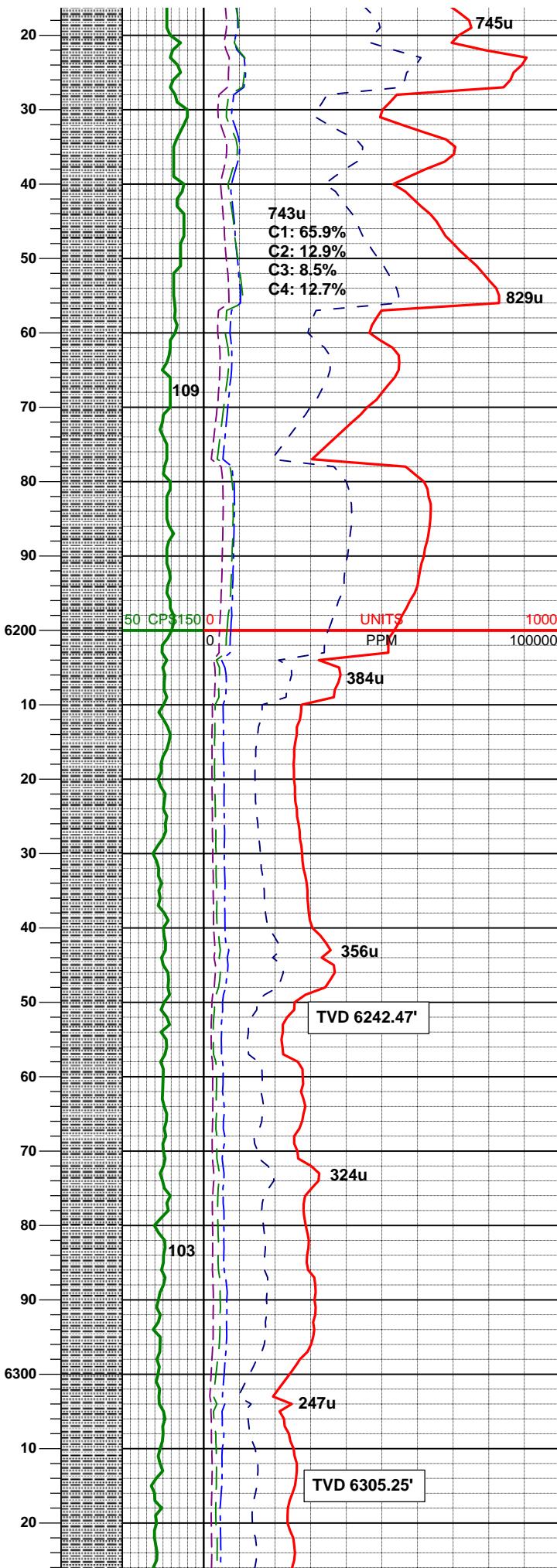
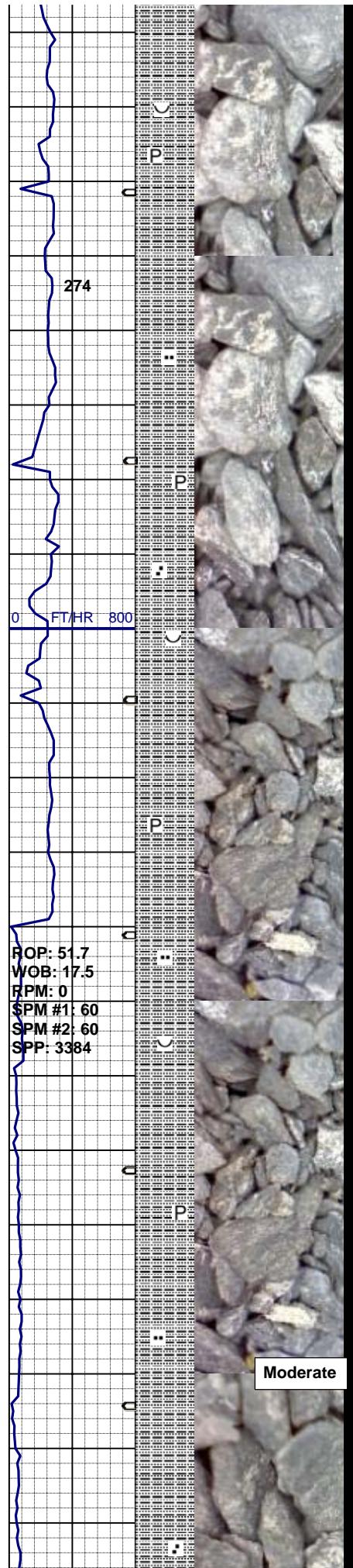
MD 6032'
TVD 6021.53'
INC 1.1°
AZM 149.0°

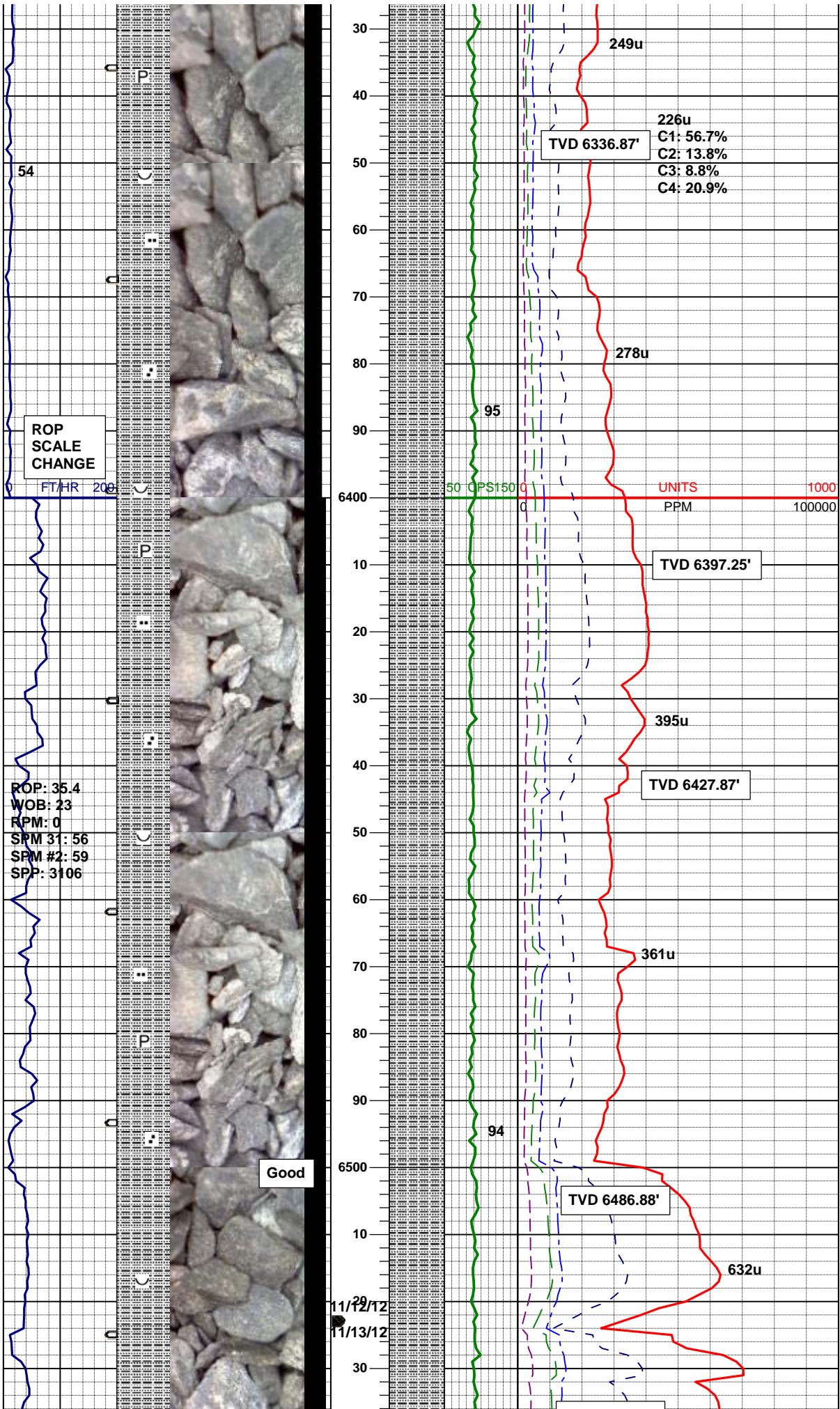
SLTYSH: mod brn 'ish gy, olv gy, lt - m gn 'ish gy, m lt - m gy, sb firm - firm, brit - fri, sb blky - sb plty, occ 'ly bld, sly tex, rthy, sm, arg mtx, hom overall, v thn 'ly lam ip, p 'ly fis, rr v f mica par 's, scat dism pyr w/ sme mnr vn 'ing, v wk 'ly - non calc, n spl flor, sl stmg fast mod mky wh cut, n stn n od

MW IN 9.5+/9.4 OUT
VIS IN 39/50 OUT

Teepee Buttes Logger Top
-6116' MD / ~6079.52' TVD







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SLTYSH: m brn gy, mlt - m gy,
mlt olv gy, sb firm - firm, occ mod
sft, brit - fri, sb blky - sb pty, mod
sly tex, rthy, sl arg mtx, hom -
occ thn lam ip, p fis, rr scat slst
& vf gr ss strg, rr vf mica par,
scat dism pyr, vwk calc, fnt yel
gn spl flor, sl stmg fast, mod mky
wh cut, n str, n od

**MD 6379'
TVD 6367.22'
INC 12.9°
AZM 178.7°**

**MW IN 9.9/9.7 OUT
VIS IN 40/46 OUT**

SLTYSH: m brn gy, mlt - m gy,
mlt olv gy, sb firm - firm, occ mod
sft, brit - fri, sb blky - sb plty, slyt
tex, rthy, sl arg mtx, hom - occ
thn lam ip, p fis, sme scat slst &
fgr ss strg, rr vf mica par, scat
dism pyr, wvk - non calc, fnt yel
gn spl flor, sl stmg fast, mod mky
wh cut, n strn, n od

**MD 6474'
TVD 6458.08'
INC 20.40°
AZM 185.00°**

**MW IN 9.8/9.8 OUT
VIS IN 40/46 OUT**

