



Scale: 5" / 100'
Measured Depth Log

Well Name Janssen #2

Location Sec.8-T06N-R65W

State Colorado

County Weld

Country USA

Rig Number Patterson UTI 346

API Number 05-123-42359-00

AFE # NA

Geographic Region DJ Basin

Field Wattenberg

Spud Date 12/14/2015

Drilling Completed TBD

Surface Coordinates SHL: 2119' FNL, 2397' FWL Sec. 8 T6N R65W

Lat: 40 30' 11.948 N
Long: 104 41' 17.768 W

Bottom Hole Coordinates PBHL:

Lat: 40 35' 35.644 N
Long: 104 42' 20.234 W

Ground Elevation 4,779'

K.B. Elevation 4,803.5

Logged Interval 5,000' **To** 6,860'

Total Depth TBD

Formation Codell

Type of Drilling Fluid Oil Based - invert

Operator

Company Extaction Oil & Gas

Address 1888 Sherman St., Suite 200
Denver, CO 80203

Geologist

Name Vivian Spiess / Jared Rouse

Zone Color Coding

Oil Condensate Gas

Name

Vivian Spencer / Jared Reese

Company

Extraction Oil & Gas

Address

1888 Sherman St., Suite 200
Denver, CO 80203

Note

Error

Core

Water

Pressure

Seal

Other

Equipment

ML-113

Comments

Start: 12-14-15
TD: TBD

Services Provided

2-man Logging
On Site Geosteering

Logger Names

Dominic Pitre / Nicholas Watkiins

Address

Empirica, LLC.
6360 W Sam Houston Pkwy N
Suite 100
Houston, TX 77041

Rock Types

UNKNOWN

ANHYDRITE

GYPSUM

SALT

SIDERITE or LIMONITE

LIMESTONE

DOLOMITE

CHERT

COAL

MARLSTONE

CLAYSTONE

SHALE

SHALE GRAY

SHALE COLORED

SILTSTONE

SANDSTONE

CONGLOMERATE

BRECCIA

TILL

BENTONITE

TUFF

IGNEOUS

METAMORPHIC

CEMENT

Accessories

Fossils

ALGAE

AMPHIPORA

BELEMNITE

BIOCLASTIC

BRACHIOPOD

BRYOZOA

CEPHALOPOD

CORAL

CRINOID

ECHINOID

FISH

FORAMINIFERA

FOSSIL

GASTROPOD

OOLITE

OSTRACOD

PELECYPOD

PELLET

PISOLITE

PLANT REMAINS

PLANT SPORES

SCAPHOPOD

STROMATOPOROID

ANHYDRITIC

ARGILLACEOUS

ARGILLITE GRAIN

BENTONITE

BITUMENOUS SUBSTANCE

BRECCIA FRAGMENTS

CALCAREOUS

CARBONACEOUS FLAKES

CHTDK

CHTLT

COAL - THIN BEDS

DOLOMITIC

FELDSPAR

FERRUGINOUS PELLET

FERRUGINOUS

GLAUCONITE

GYPSIFEROUS

HEAVY MINERAL

KAOLIN

MARLSTONE

MINERAL CRYSTALS

NODULES

PHOSPHATE PELLETS

PYRITE

SALT CAST

SANDY

SILICEOUS

SILTY

TUFFACEOUS

Stringer

ANHYDRITE STRINGER

BENTONITE STRINGER

COAL STRINGER

DOLOMITE STRINGER

GYPSUM STRINGER

LIMESTONE STRINGER

MARLSTONE (CALC) STRG

MARLSTONE (DOL) STRG

SANDSTONE STRINGER

SHALE STRINGER

SILTSTONE STRINGER

Other Symbols

Oil Show

DEAD

EVEN

QUESTIONABLE

SPOTTED STAINING

ORGANIC

PINPOINT

VUGGY

Engineering

BIT

CASING

FORMATION TOP

GAS SHOW

MN DEPTH

NORMAL FAULT

OIL SHOW

OVERTURNED STRATA

REVERSE FAULT

Rounding

ANGULAR

ROUNDED

SUBANG

SUBRND

LITHOGRAPHIC

MICROXLN

MUDSTONE

PACKSTONE

WACKESTONE

Sorting

Porosity

- E EARTHY
- ▣ FENESTRAL
- F FRACTURE
- ✕ INTERCRYSTALLINE
- ⊕ INTEROOLITIC
- ✎ MOLDIC

Core

- ◀ CONNECTION (LEFT)
- ▶ CONNECTION (RIGHT)
- ◀🔥 CONNECTION GAS
- ⬇ CORE - LOST
- CORE - RECOVERED
- ⋮ DST INTERVAL
- ⬇/⬆ FAULT

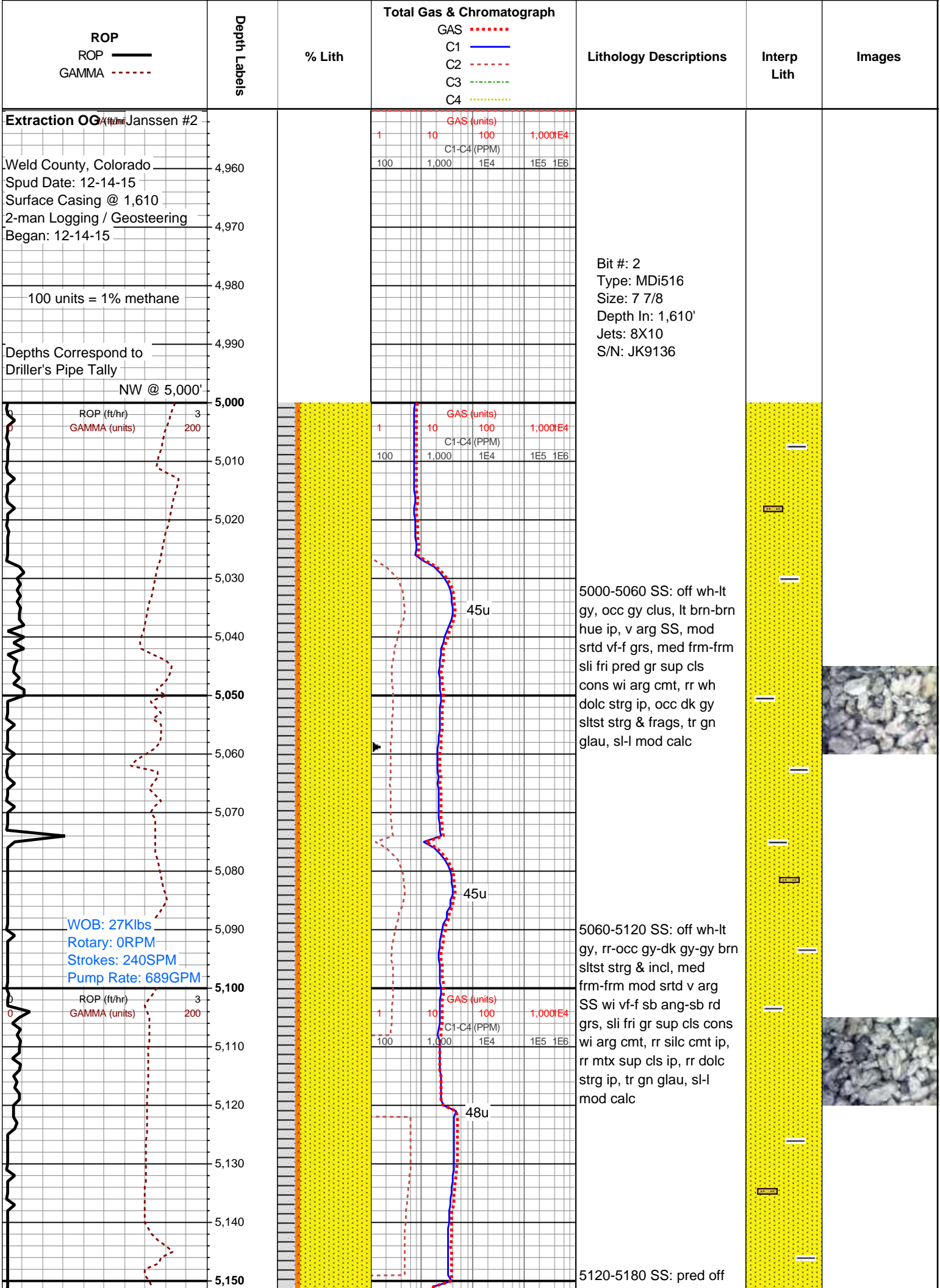
Core

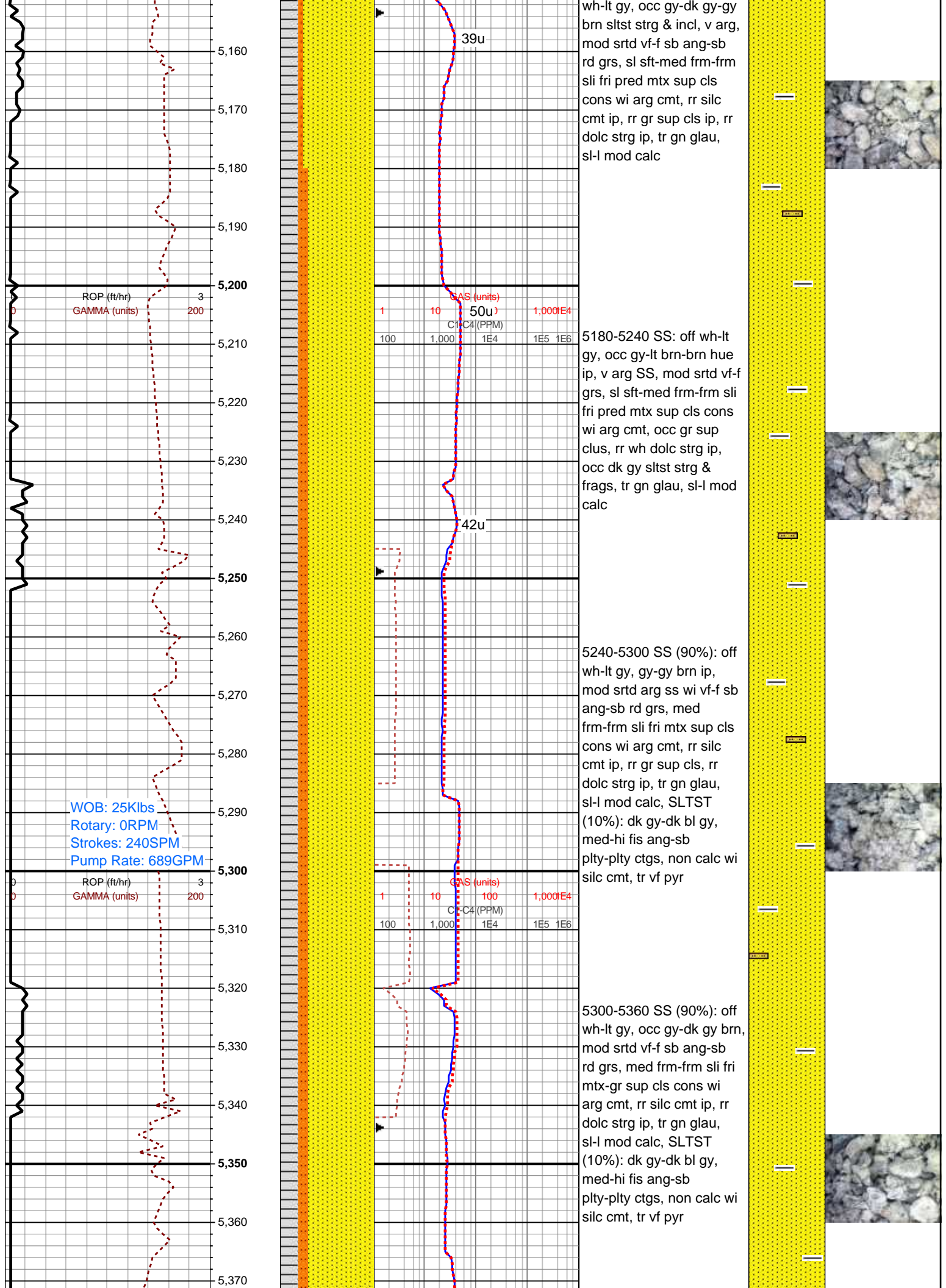
- ◀ SIDEWALL CORE (LEFT)
- ▶ SIDEWALL CORE (RIGHT)
- ▨ SLIDE
- DS SURVEY
- 🔥 TRIP GAS
- ◀ WIRELINE TESTED - LEFT
- ▶ WIRELINE TESTED - RT

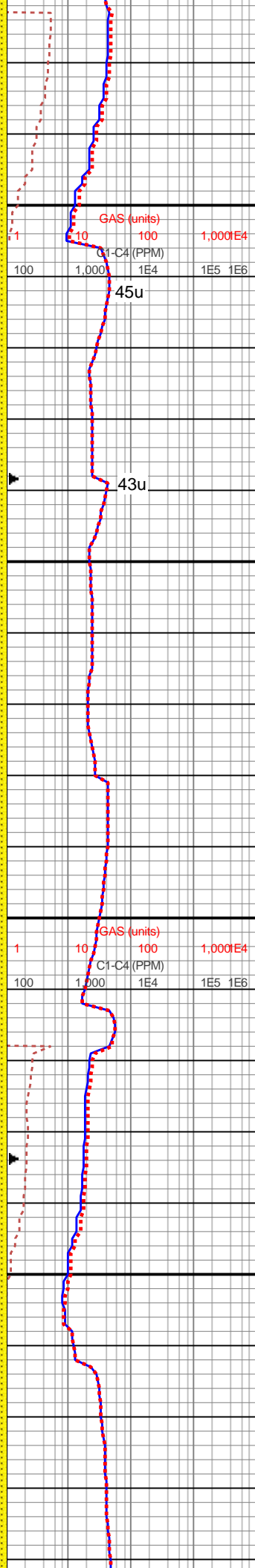
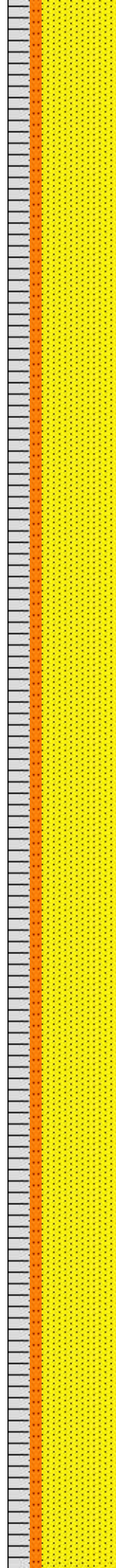
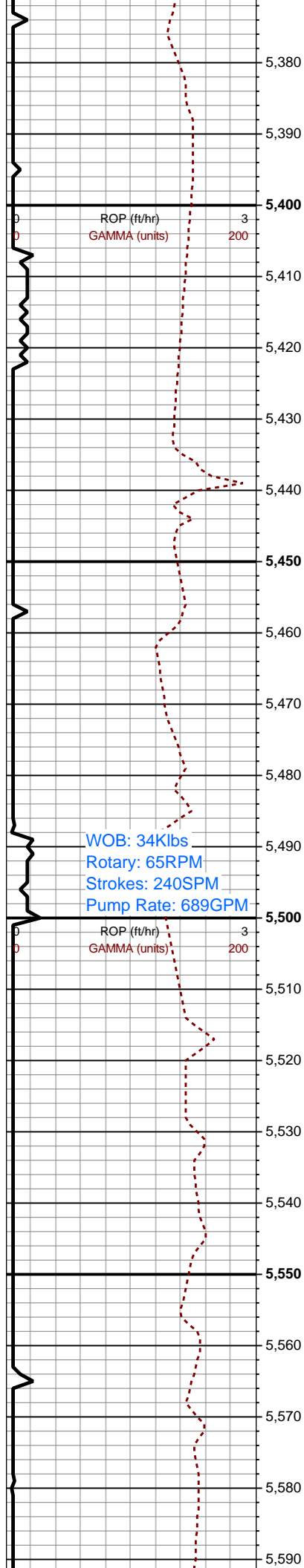
Textures

- BS BOUNDSTONE
- ⊙ CHALKY
- ⊗ CRYPTOXLN
- E EARTHY
- F✕ FINELYXLN
- GS GRAINSTONE

- M MODERATE
- P POOR
- W WELL





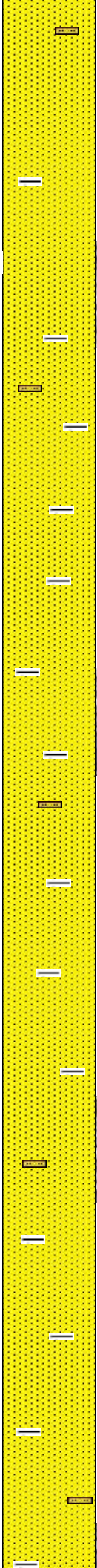


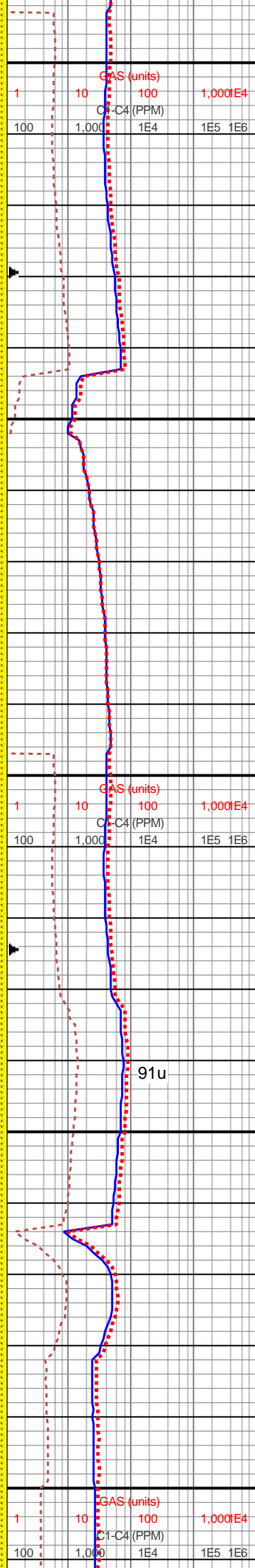
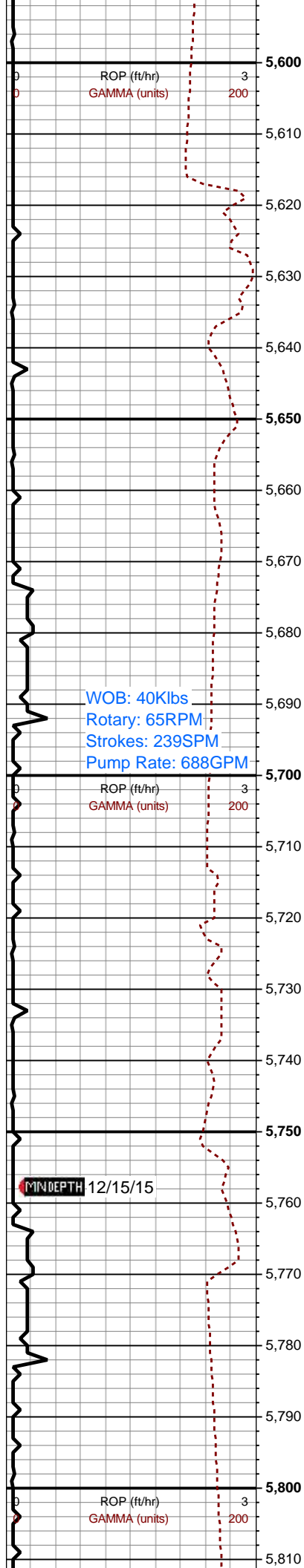
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wh-lt gy, pred vf-f mod
srted sb rd grs, med
frm-frm sli fri gr-mtx sup
cls cons wi arg cmt, rr
silc ip, tr vf pyr, sl-l mod
calc, wi 15% SLTST: pred
gy-dk gy ang-plty ctgs, wi
tr-rr vf pyr strg ip, silc &
non calc

5420-5480 SS (85%): off
wh-lt gy, pred vf-f sb
ang-sb rd mod srted grs,
med frm-frm sli fri incr
mtx sup cls cons wi arg
cmt,
mtx sup cls ip, occ gr
sup, rr silc cmt, tr vf pyr,
sl-l mod calc, wi occ
intbdd SLTST (15%):
pred gy-dk gy wi bl hue
ip, ang-plty ctgs, silc, non
calc, wi tr-rr vf pyr strg ip

5480-5540 SS (80%): off
wh-lt gy, pred vf-f sb
ang-sb rd mod srted grs,
med frm-frm sli fri incr
mtx sup cls cons wi arg
cmt,
mtx sup cls ip, occ gr
sup, rr silc cmt, tr vf pyr,
sl-l mod calc, wi 20%
SLTST: pred gy-dk gy
ang-plty ctgs, silc, non
calc, wi tr-rr vf pyr strg ip

5540-5600 SS (85%): off
wh-lt gy, pred vf-f gr mod
srted sb rd grs, med
frm-frm sli fri mtx sup cls
cons wi arg cmt, gr sup
ip wi occ silc cmt, tr vf pyr,
sl-l mod calc, wi 15%
SLTST





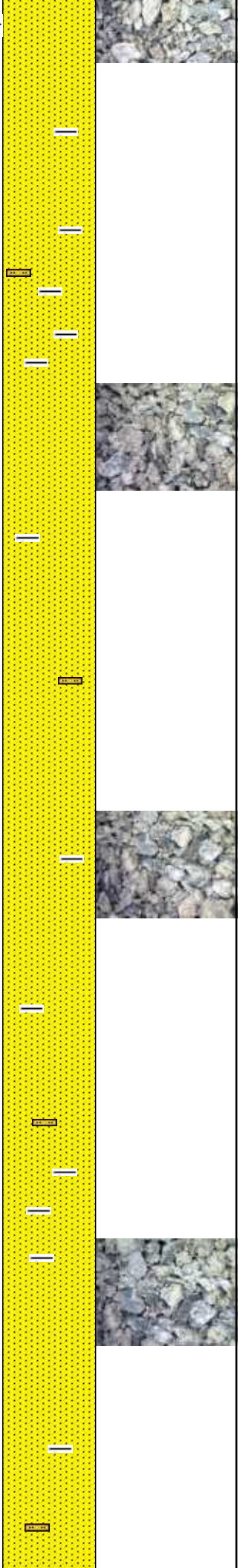
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ang-pty ctgs, wi tr-rr vf pyr
strg ip, silc & non calc

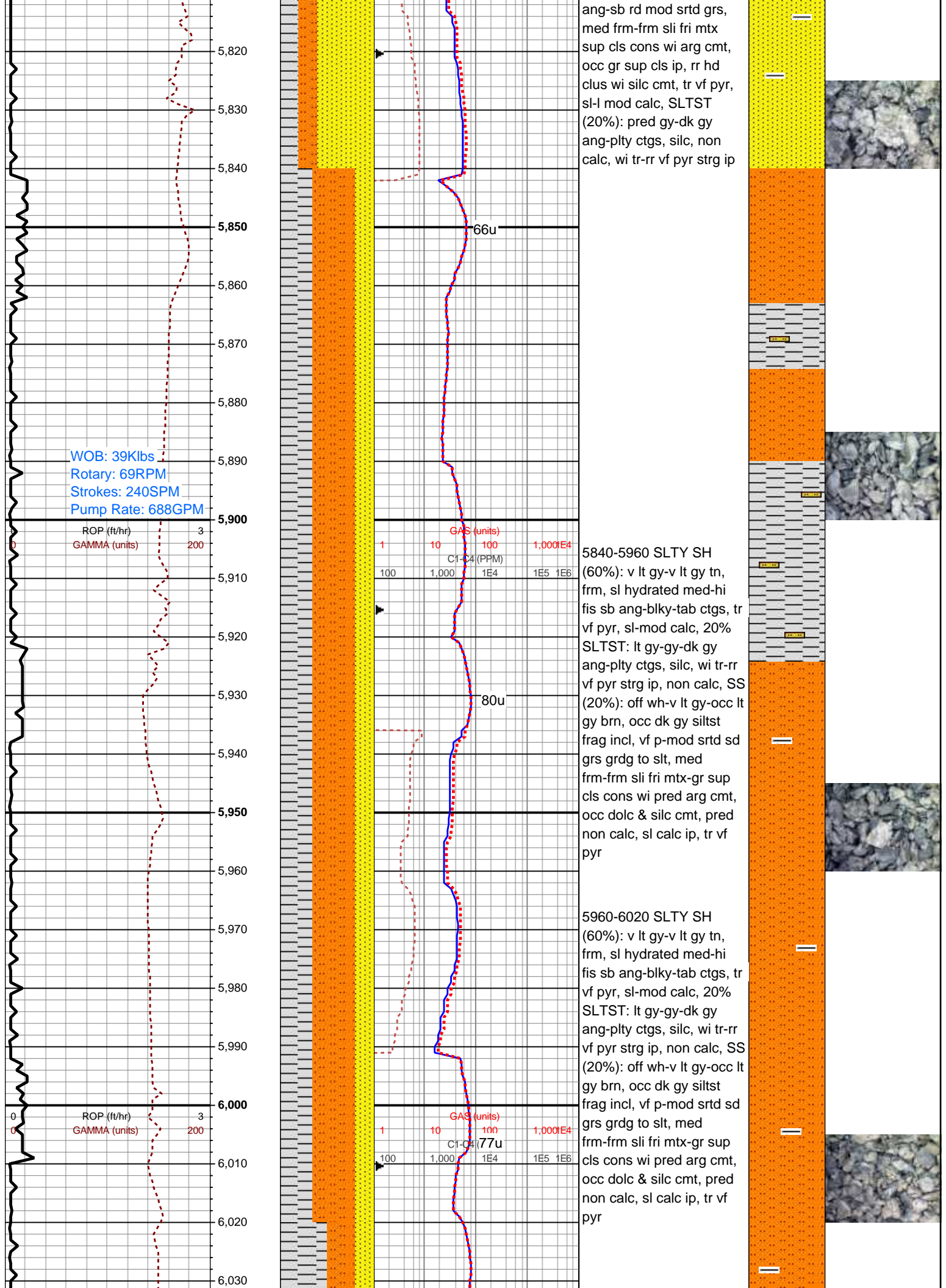
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incl & frags, pred vf-f sb
ang-sb rd mod srted grs,
med frm-frm sli fri mtx-gr
sup cls cons wi arg cmt,
rr hd clus wi silc cmt, tr vf
pyr, sl-l mod calc, SLTST
(15%): pred gy-dk gy
ang-pty ctgs, silc, non
calc, wi tr-rr vf pyr strg ip

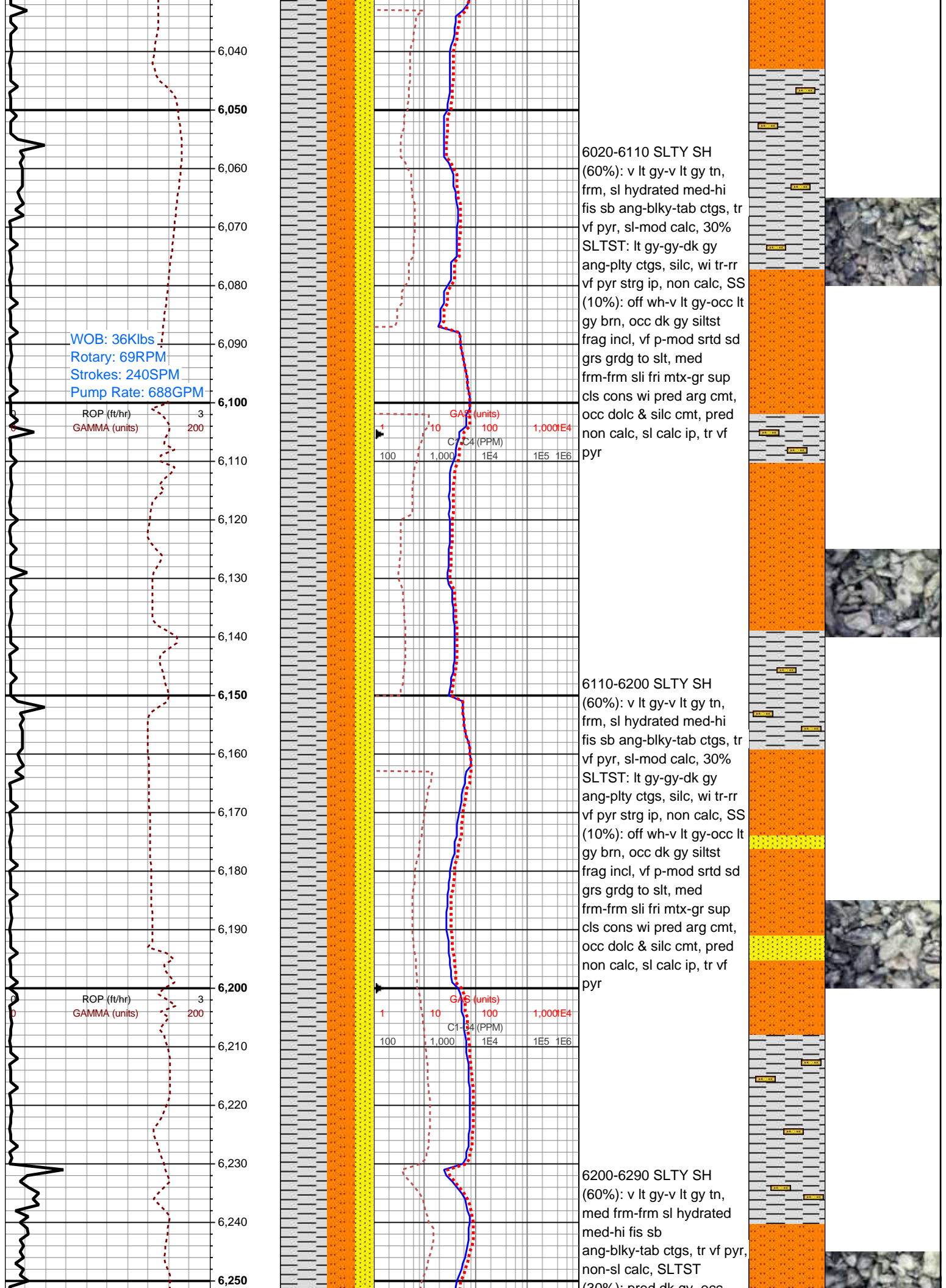
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ang-sb rd mod srted grs,
med frm-frm sli fri mtx
sup cls cons wi arg cmt,
occ gr sup cls ip, rr hd
clus wi silc cmt, tr vf pyr,
sl-l mod calc, SLTST
(15%): pred gy-dk gy
ang-pty ctgs, silc, non
calc, wi tr-rr vf pyr strg ip

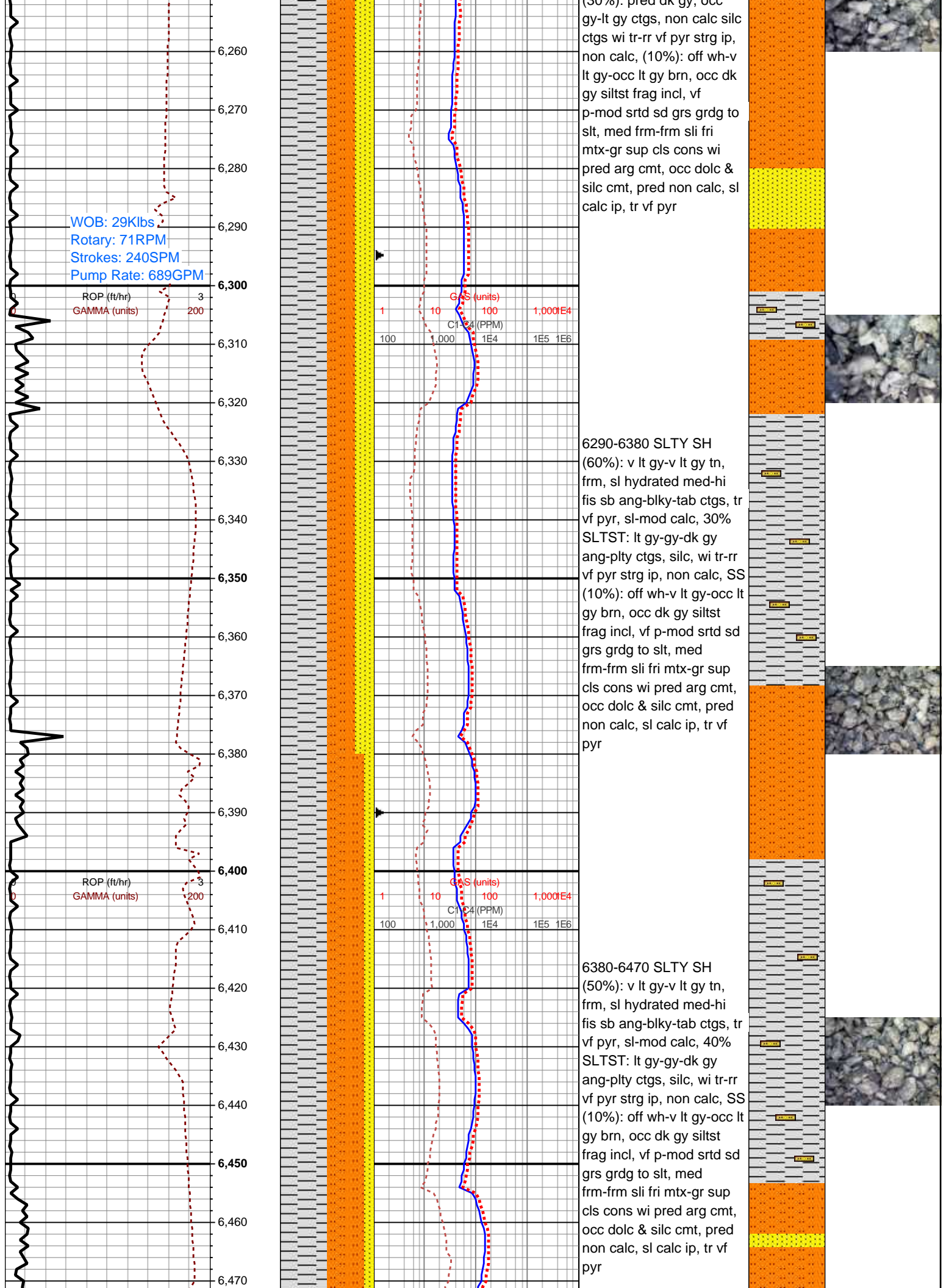
5720-5780 SS (80%): off
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incl & frags, pred vf-f sb
ang-sb rd mod srted grs,
med frm-frm sli fri mtx-gr
sup cls cons wi arg cmt,
rr hd clus wi silc cmt, tr vf
pyr, sl-l mod calc, wi 20%
SLTST: pred gy-dk gy
ang-pty ctgs, brit silc
ctgs, wi tr-rr vf pyr strg ip,
non calc

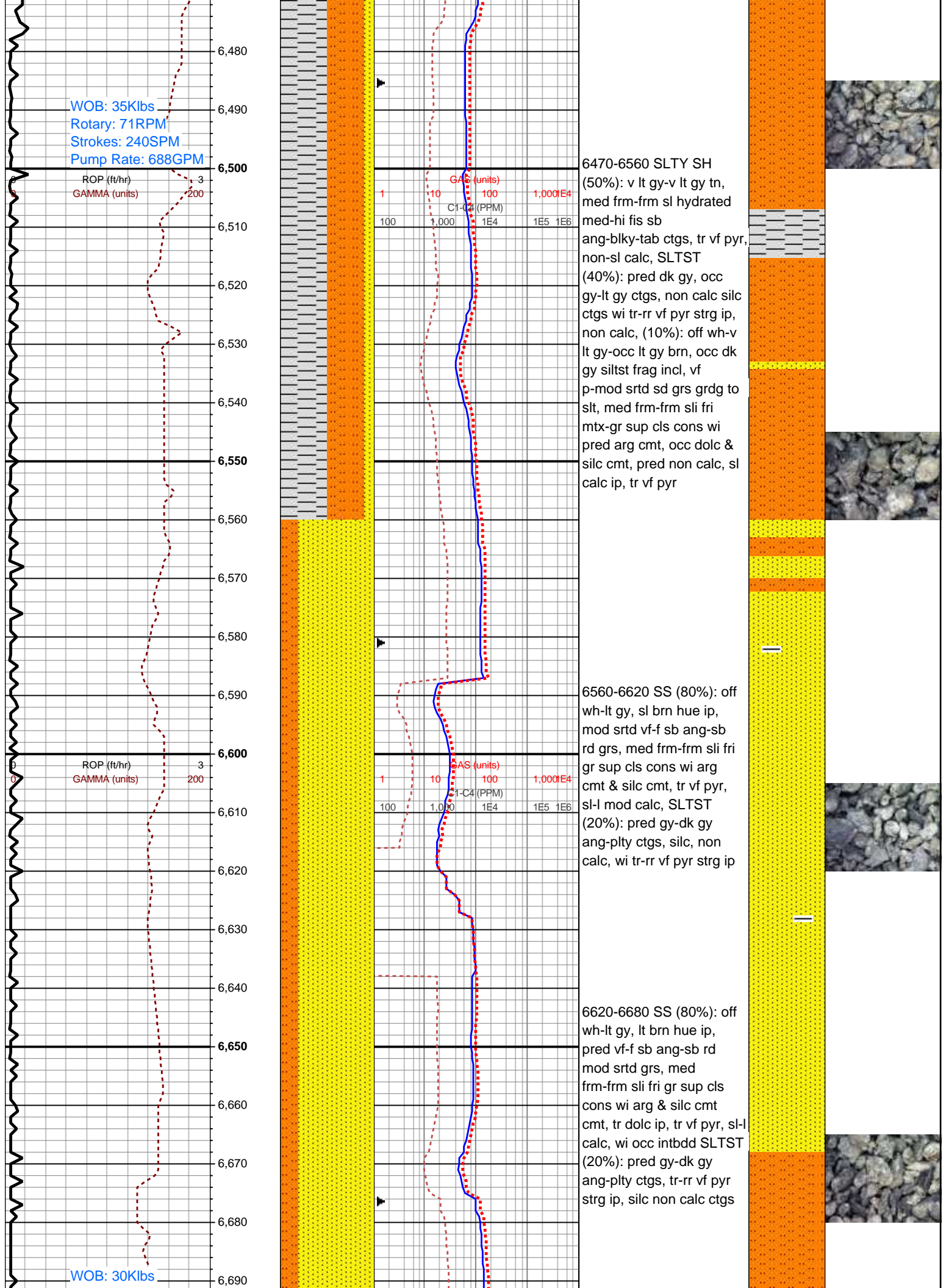
5780-5840 SS (80%): off
wh-lt gy, pred vf-f sb



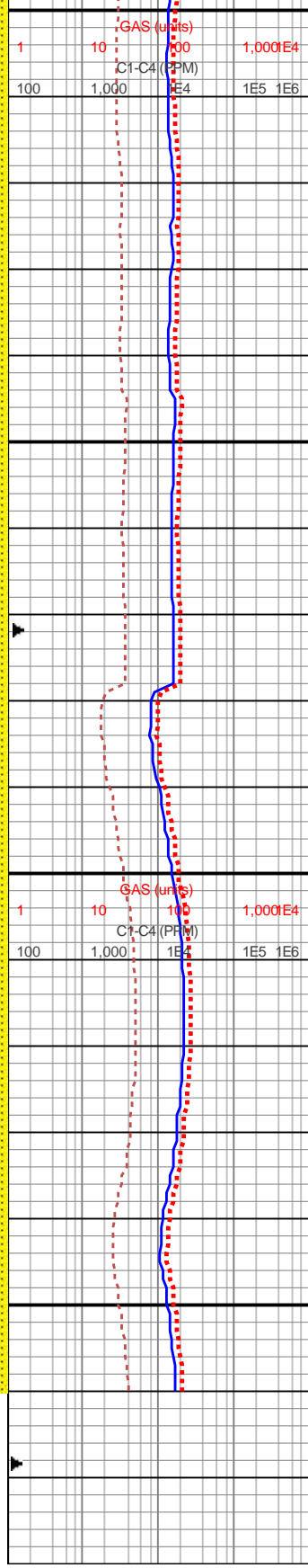
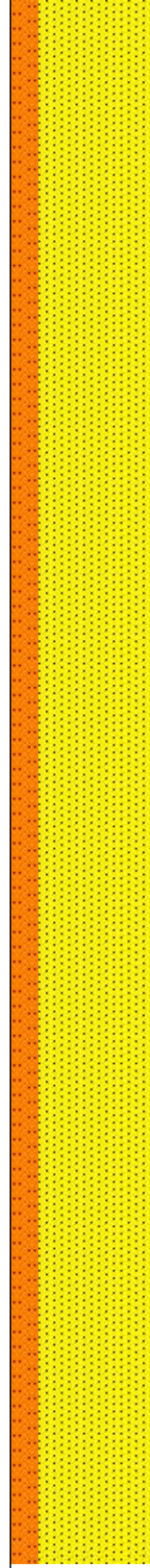
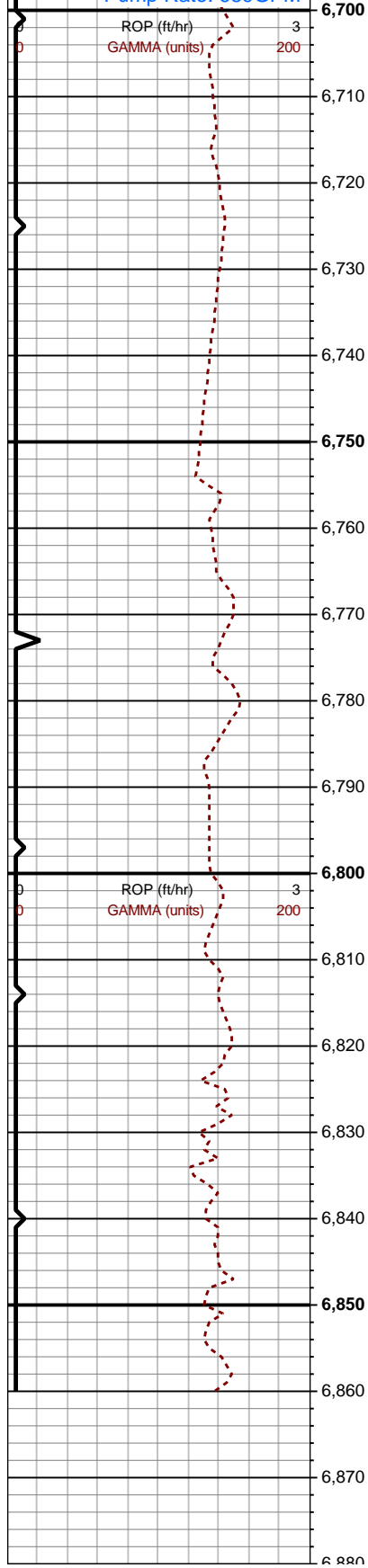








Rotary: 71RPM
Strokes: 240SPM
Pump Rate: 689GPM



6680-6740 SS (80%): off
wh-lt gy, sl brn hue ip,
mod srted vf-f sb ang-sb
rd grs, med frm-frm sli fri
gr sup cls cons wi arg
cmt & silc cmt, tr vf pyr,
sl-l mod calc, SLTST
(20%): pred gy-dk gy
ang-plty ctgs, silc, non
calc, wi tr-rr vf pyr strg ip

6740-6800 SS (80%): off
wh-lt gy, lt brn hue ip,
pred vf-f sb ang-sb rd
mod srted grs, med
frm-frm sli fri gr sup cls
cons wi arg & silc cmt
cmt, tr dolc ip, tr vf pyr, sl-l
calc, wi occ intbdd SLTST
(20%): pred gy-dk gy
ang-plty ctgs, tr-rr vf pyr
strg ip, silc non calc ctgs

6800-6860 SS (80%): off
wh-lt gy, lt brn hue ip,
pred vf-f sb ang-sb rd
mod srted grs, med
frm-frm sli fri gr sup cls
cons wi arg & silc cmt
cmt, tr dolc ip, tr vf pyr, sl-l
calc, wi occ intbdd SLTST
(20%): pred gy-dk gy
ang-plty ctgs, tr-rr vf pyr
strg ip, silc non calc ctgs

Log Continued in
Horizontal Format

