WELL Larkins 23 33

COMPANY American Quasar Petroleum Co.

AREA Mist Nehalem Basin

LOCATION 1500'W 2250'N of SE corner
Sec. 23; T6N; R5W

COUNTY, STATE Columbia, Oregon

- WEGE -
WESTERN GEO-ENGINEERS

"A SERVICE TO THE OIL AND GAS INDUSTRY"

LITHOLOGY SYMBOLS

Sand · Clay and Shale · Siltst. · Sandy Siltst. · Congl-omerate · Lignite or Coal · Vol-canic · Intru-sive · Salt · Limest. · Chert · Tuff · Basalt

REMARKS

WELL ELEV. GL. 687.0'
KB. 707.5'
SALINITY IN PPM CL-
FILTRATE IN CC/ 30 MIN.
GAS TRAP Agitator Type
MUD Gel & Water
Lignosulfonate
Paul Graham Rig-1

LEGEND

MUD DATA
W WEIGHT
V VISCOSITY
F FILTRATE
FC FILTER CAKE
SD SAND IN %

S SALINITY
R RESISTIVITY
RF FILTRATE RESISTIVITY

BIT DATA
NB NEW BIT
RRB RERUN BIT

CB CORE BIT
WLCB WIRE LINE CB

OTHER DATA
TG TRIP GAS
CG CONNECTION GAS
C CARBIDE GAS

CR CIRCULATE RETURNS
NR NO RETURN
DST DRILL STEM TEST
[DST INTERVAL
] CORE INTERVAL

CASING
_____ TO _____
7" TO 506'
_____ TO _____

DATE 8/27/80 TO 8/31/80
DEPTH 27' TO 2940'
ENGINEERS Butler
Thomas

- WEGE -
WESTERN GEO-ENGINEERS

Drilling Rate In
Bit Data

DEPTH

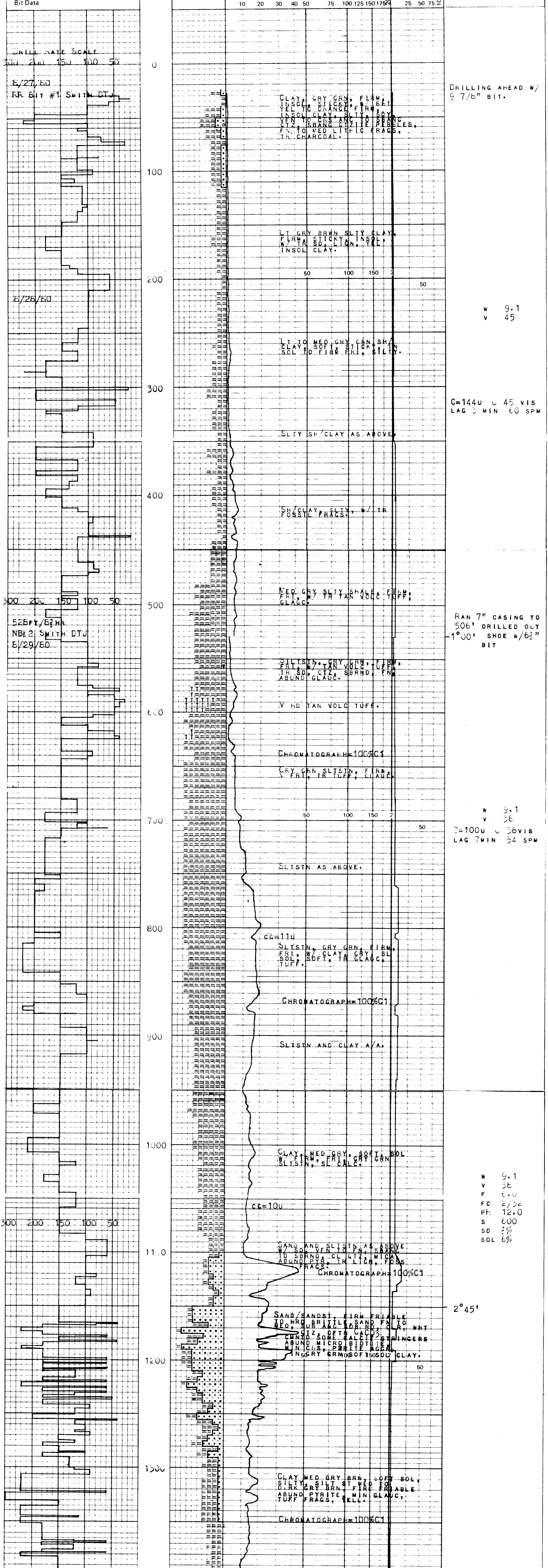
SAMPLE LITHOLOGY

OIL IN MUD or CUTTINGS Tr x Fair xx Good xxx V/Gd xxxx

MUD ANALYSIS
TOTAL DITCH GAS_____
PET. VAP. - - -
BLENDER GAS

CUTTING ANALYSIS
TOTAL GAS_____
PET. VAP. - -

REMARKS
Mud Data
Formation Tests
Core Analysis
Surveys
E Logs



8/27/80
RR Bit #1 Smith DTJ

Clay, gry grn, firm, insol, sticky, w/ brt yel to orange firm, insol clay, slty, sdy vfn to crs ang to sbang qtz, sbang qtzite pebbles, fn to med lithic frags, tr charcoal.

Drilling ahead w/ 9 7/8" bit.

Lt gry brwn slty clay, firm, sticky, insol, w/ tr sd, lign, yel insol clay.

8/28/80

W 9.1
V 45

Lt to med gry grn sh/clay, soft, sticky, in sol to firm fri, silty.

C=144u @ 45 vis
LAG 3 min 60 SPM

Slty sh/clay as above.

Sh/clay, slty, w/ tr fossil frags.

Med gry slty shale, firm, fri, w/ tr tan volc tuff; glauc.

528ft/8½hr
NB#2 Smith DTJ
8/29/80

Ran 7" casing to 506' drilled out shoe w/6½" bit

1°00'

Sltstn, gry grn, firm, fri, w/ tan volc tuff, tr sd, qtz, sbrnd, fn abund glauc.

V hd tan volc tuff.

Chromatograph=100%C1

Gry grn sltstn, firm, v fri, tr tuff, glauc.

W 9.1
V 38
C=100u @ 38vis
LAG 7min 54 SPM

Sltstn as above.

CG=11u

Sltstn, gry grn, firm, fri, w/ clay, gry, sl sol, soft, tr glauc, tuff.

Chromatograph=100%C1

Sltstn and clay a/a.

Clay, med gry, soft, sol w/ firm, fri, gry grn sltstn, sl calc.

W 9.1
V 38
F 6.0
FC 2/32
pH 12.0
S 600
SD ½%
SOL 6%

CG=10u

Sand and sltstn as above w/ sd, vfn to fn, sbang to sbrnd, cl qtz, mica, abund pyr, tr lign, foss frags.

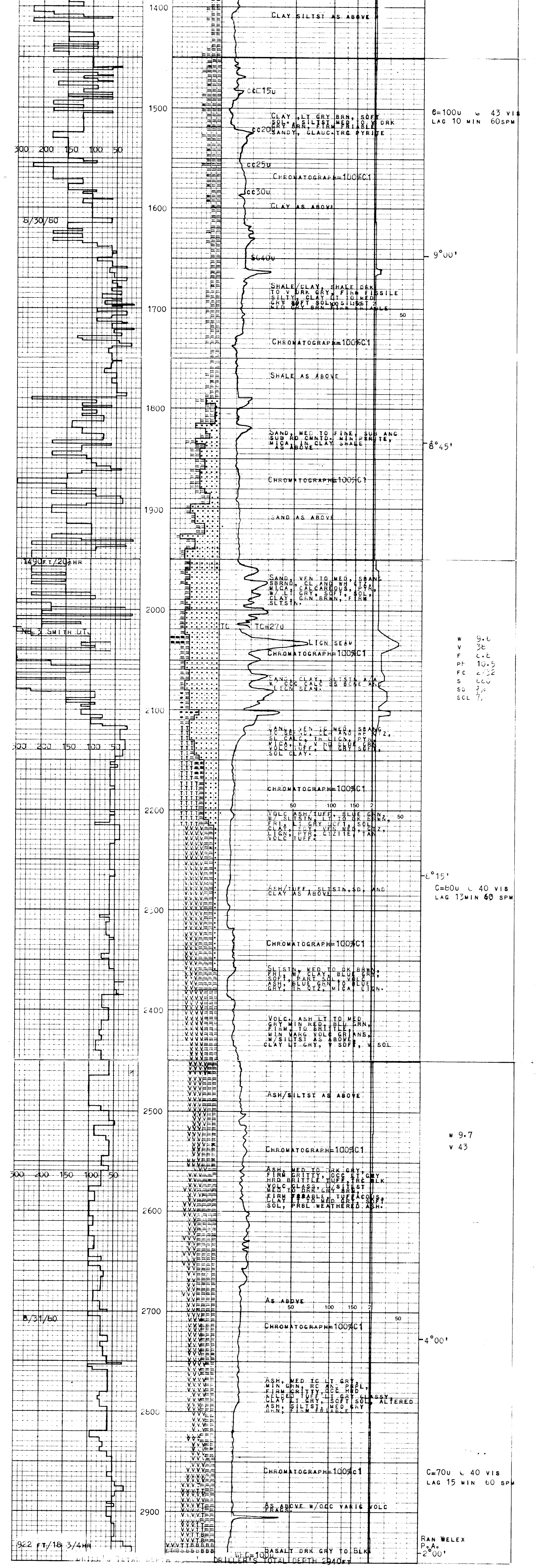
Chromatograph=100%C1

2°45'

Sand/sandst, firm friable to hrd brittle, sand fn to med, sub ang sub rd, clr, wht qtz, oftn CaCO3 cmntd some calcite stringers abund micro biotite, min chs, pyrite aggr.
In gry grn soft sol clay.

Clay med gry brn, soft sol, silty, silt st med to dark gry brn, firm friable abund pyrite, min glauc, tuff frags, yell.

Chromatograph=100%C1



American Quasar Petroleum Co, Larkins 23 33, Sec 23; T6N; R5W; W.B&M, Mist Nehalem Basin, Columbia, Ore.