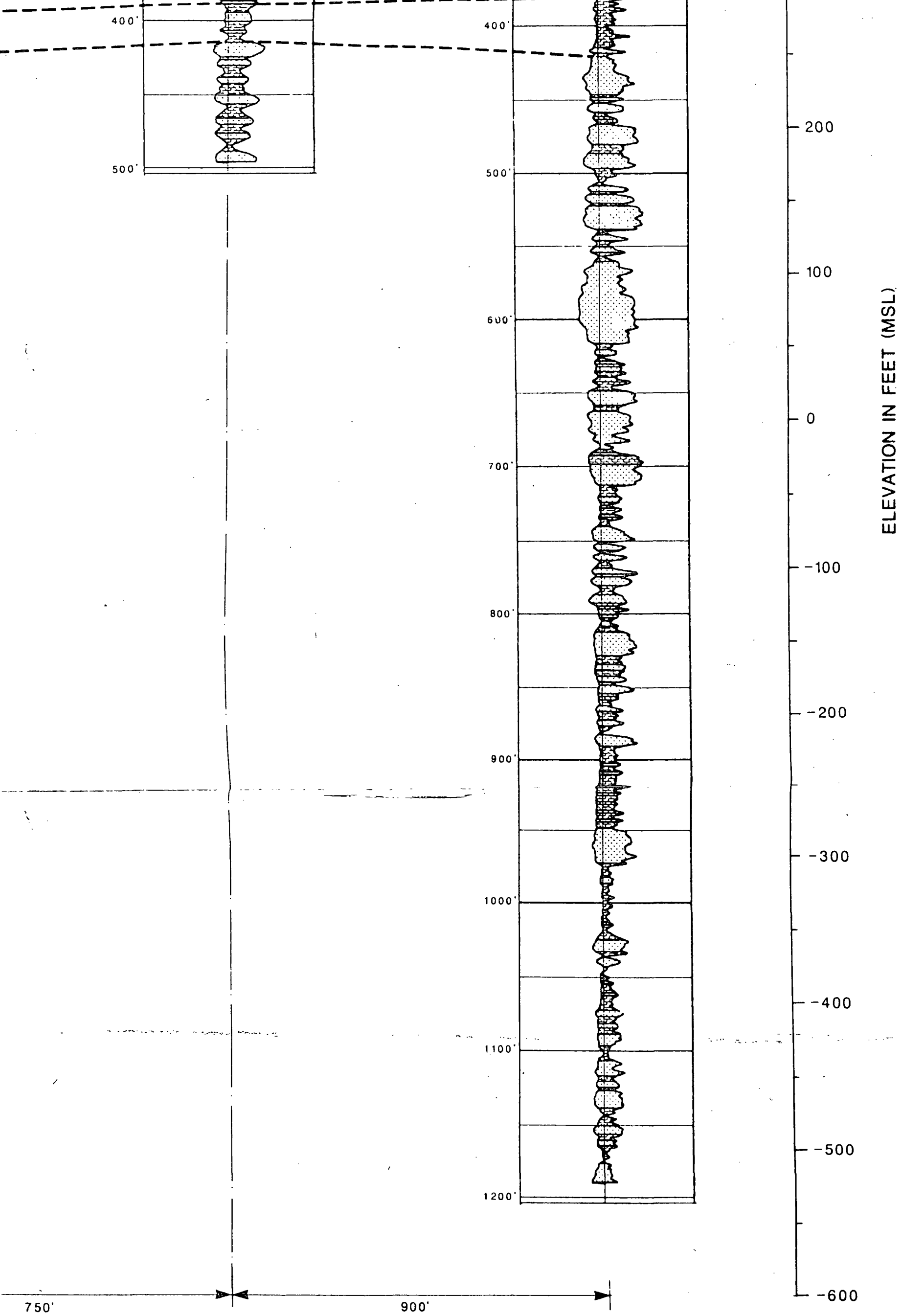
PARTIALLY SCANNED
OVERSIZE ITEM(S)

To use the paper copy of oversize document # 2203109
contact the Region IX Superfund Records Center



1 of 29

SFUND RECORDS CTR
2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

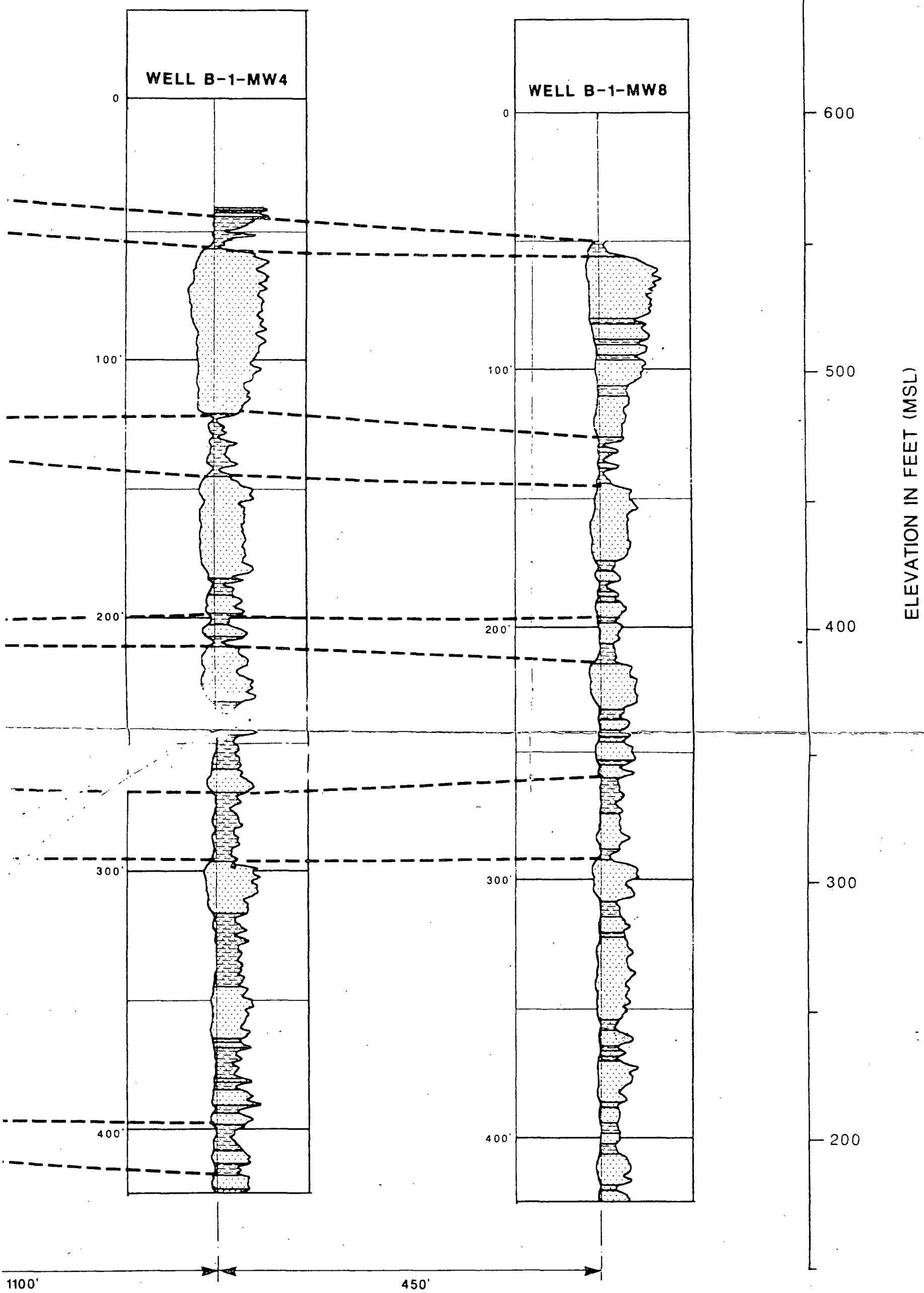
NORTH - SOUTH

LITHOLOGIC CROSS SECTION

4/87

PLATE 1

Attachment I #1



2 of 29

SDMS# 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

EAST - WEST
LITHOLOGIC CROSS SECTION

4/87

PLATE 2

0833 attachment I #2

2" AND 5" DUAL INDUCTION/SFL

CSU

COMPANY: LOCKHEED CALIFORNIA COMPANY

WELL: A-1-HW1

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 9 TWP: 1N RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 676.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB: 683.3 F
DF: 681.8 F
GL: 676.0 F

PROGRAM
TAPE NO:
28.4A
SERVICE
ORDER NO:
488768

DATE: 30 JUN 86
RUN NO: 1

DEPTH-DRILLER: 500.0 F
DEPTH-LOGGER: 504.0 F
BTM. LOG INTERVAL: 498.0 F
TOP LOG INTERVAL: 20.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 20.0 F
CASING: 20
WEIGHT:
BIT SIZE: 12
DEPTH: 500.0 F

TYPE FLUID IN HOLE: GEL/WATER
DENSITY: 9.50 LB/G
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 10.35 OHMM AT 87.0 DEGF
RMF: 5.647 OHMM AT 86.0 DEGF
RMC: 6.825 OHMM AT 86.0 DEGF
SOURCE RMF/RMC: FILTER/PRESS
RM AT BHT: 9.928 OHMM AT 91.0 DEGF
RMF AT BHT: 5.359 OHMM AT 91.0 DEGF
RMC AT BHT: 6.477 OHMM AT 91.0 DEGF

TIME CIRC. STOPPED: 15:30
TIME LOGGER ON BTM.: 17:00

MAX. REC. TEMP: 91.0 DEGF

LOGGING UNIT NO: 8240
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: MARK MACGLASHAN
WITNESSED BY: STUESSE/KEATING

REMARKS:

DUAL INDUCTION TOOL CENTRALIZED WITH CALIPER DEVICE

WATER TABLE AT 168'
TRANSITION ZONE BETWEEN 168' AND 115'
DUE TO MUD FILTRATE INVASION

EQUIPMENT NUMBERS-

DIS 1274 DIC 1340 SGC JC 3214 IEM 618
MLN 609

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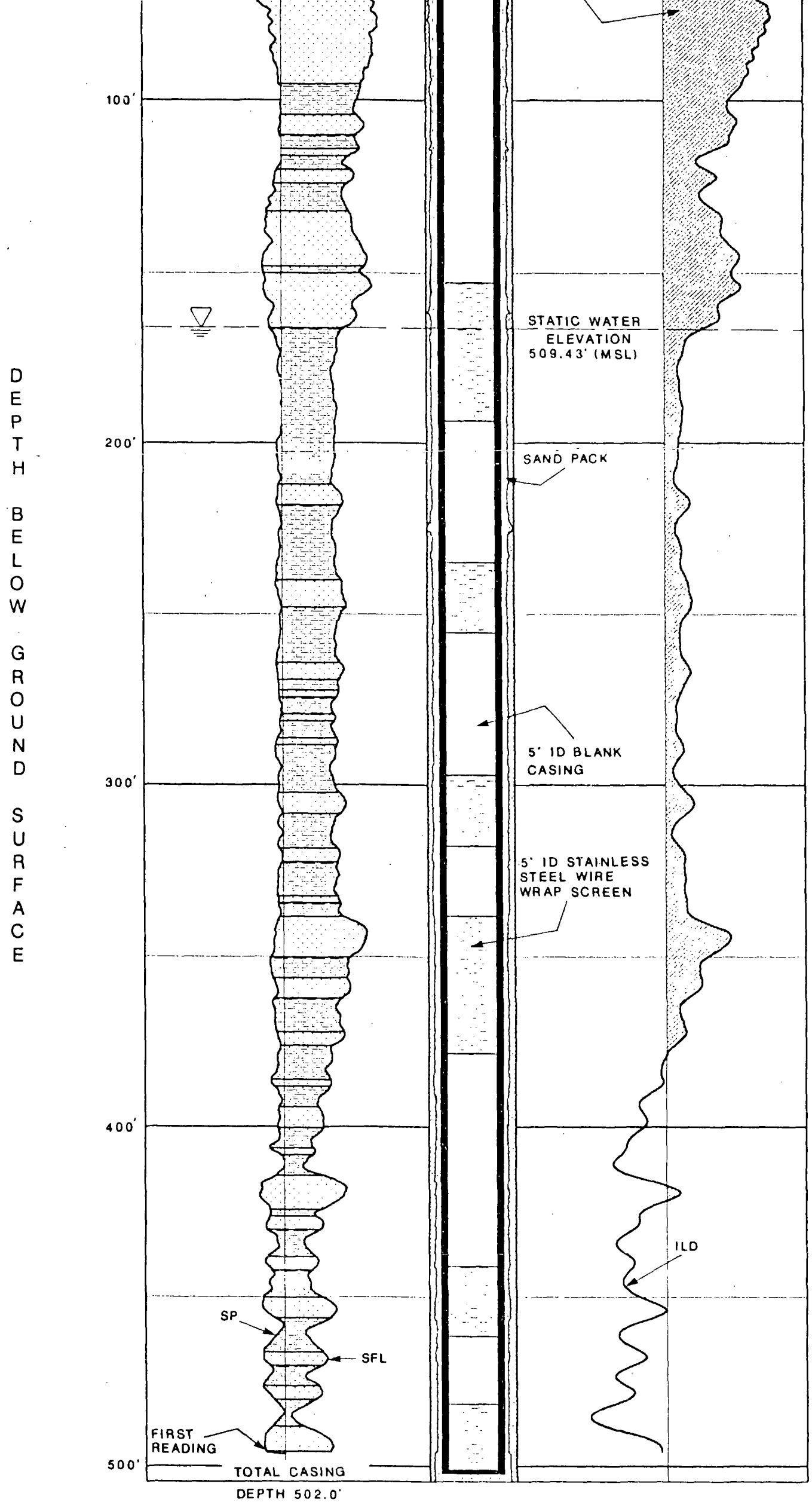

WELL A-1-MW1

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

4 of 29

SDMS # 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833

Schlumberger

2" & 5" DUAL INDUCTION/SFL

GSI

COMPANY: LOCKHEED CALIFORNIA COMPANY

WELL: A-1-MW4

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION:

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 663.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB: 6.0 F
DF: 4.5 F
GL: 663.0 F

PROGRAM
TAPE NO:
28.4
SERVICE
ORDER NO:
48825

DATE: 24 NOV 86
RUN NO: 1

DEPTH-DRILLER: 1200.0 F
DEPTH-LOGGER: 1200.0 F
BTM. LOG INTERVAL: 1194.0 F
TOP LOG INTERVAL: 20.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER:
CASING: 14
WEIGHT:
BIT SIZE: 12
DEPTH: 1202.0 F

TYPE FLUID IN HOLE:
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 12.50 OHMM AT 70.0 DEGF
RMF: 7.500 OHMM AT 70.0 DEGF
RMC: 8.000 OHMM AT 68.0 DEGF
SOURCE RMF/RMC: FILTER/PRESS
RM AT BHT: 11.60 OHMM AT 76.0 DEGF
RMF AT BHT: 6.958 OHMM AT 76.0 DEGF
RMC AT BHT: 7.229 OHMM AT 76.0 DEGF

TIME CIRC. STOPPED: 15:30
TIME LOGGER ON BTM.: 17:23

MAX. REC. TEMP: 76.0 DEGF

LOGGING UNIT NO: 8297
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: MARK MACGLASHAN
WITNESSED BY: EDWARD FURU

REMARKS:

SP DRIFT SET TO .06 MV PER FOOT ABOVE 700 FEET
MCD CALIPER USED FOR DI/SFL CENTRALIZATION
FORMATION FLUID LEVEL AT 160 FEET

EQUIPMENT NUMBERS-

DIC1298 DIS-1361 SGC-JC-4123 MCD-663
IEM-BD-618 NLM-BC-1256

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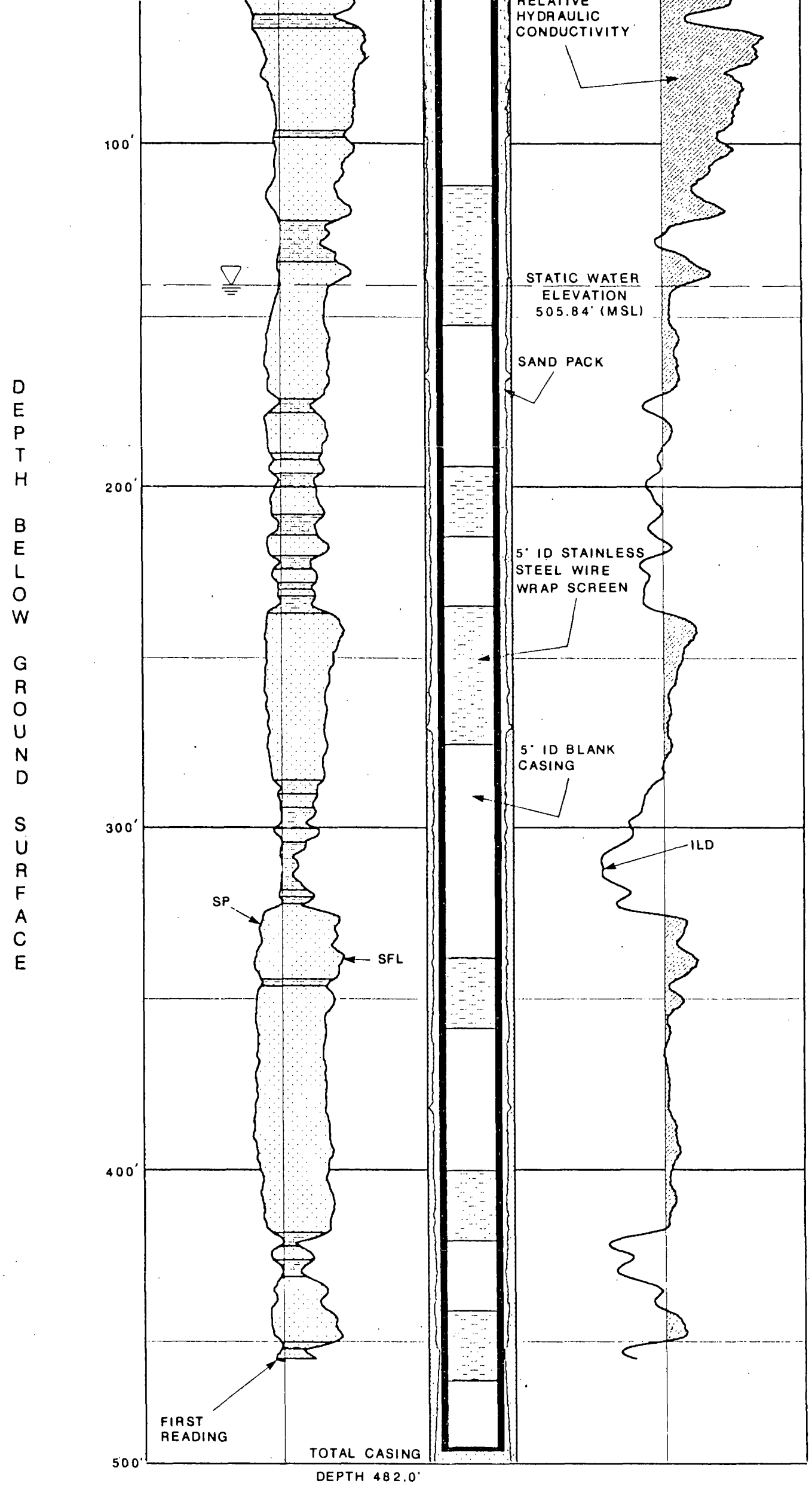
EVENT MARK SUMMARY:

OUTPUT INTERVAL DEPTH TRACK
BETWEEN PIPS EDGE



WELL B-1-MW1

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

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SDMS #2203109

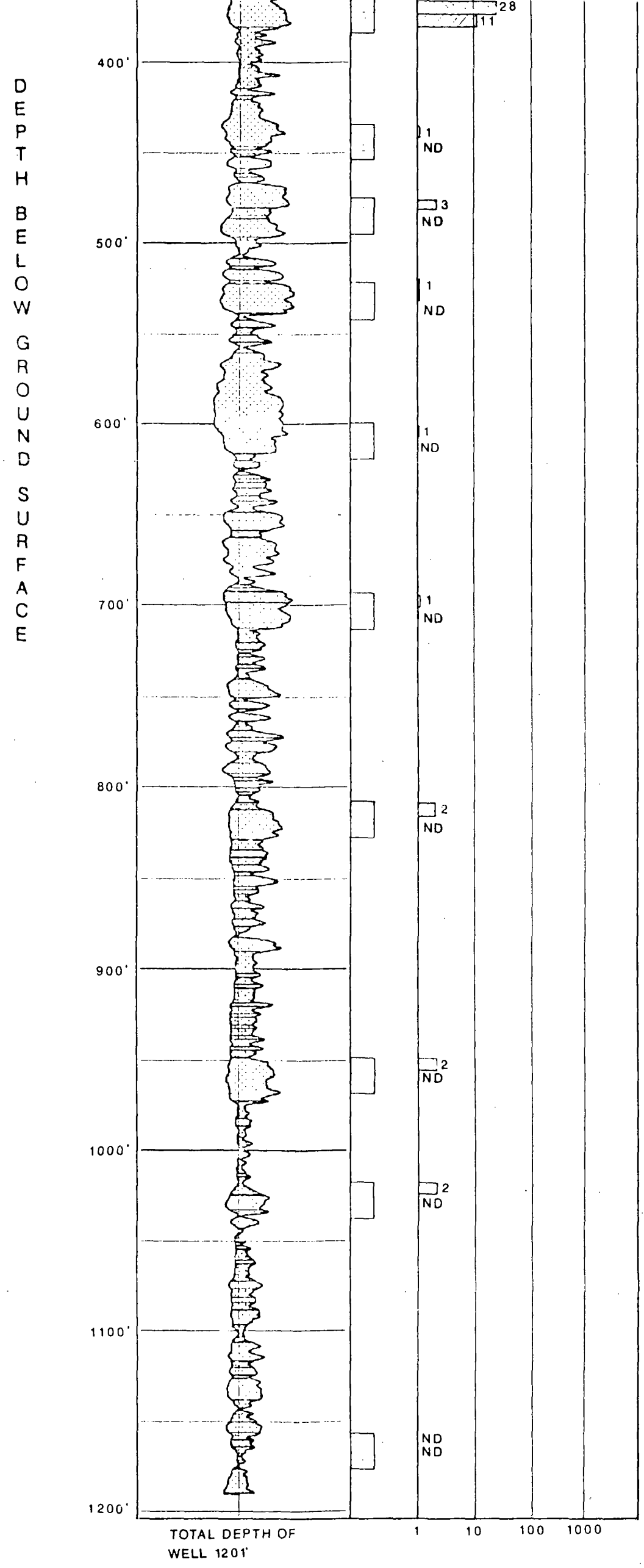
GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833



NOTE: concentrations of PCE and TCE are in micrograms per liter (ug/l)

PCE
TCE

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

WELL SAMPLED 1/21,22/87

70829

SDMS # 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

VERTICAL DISTRIBUTION OF PCE AND TCE CONCENTRATIONS IN GROUND WATER

4/87 APPENDIX A FIGURE 3

0833

0833

0833

Schlumberger

DUAL INDUCTION W/ LINEAR CORRELATION

COMPANY: GREGG & ASSOCIATES

WELL: A-1 MW3

FIELD: BURBANK
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: PLANT A-1 CALAC FACILITY BURBANK

OTHER SERVICES-
DIL/GR/CAL
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 674.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB:
DF:
GL: 674.0 F

PROGRAM
TAPE NO:
28.4A
SERVICE
ORDER NO:
489114

DATE: 21 AUG 86
RUN NO: ONE

DEPTH-DRILLER: 502.0 F
DEPTH-LOGGER: 503.0 F
BTM. LOG INTERVAL: 497.0 F
TOP LOG INTERVAL: 22.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 22.0 F
CASING: 14
WEIGHT:
BIT SIZE: 12 3/4
DEPTH: 503.0 F

TYPE FLUID IN HOLE: FGM
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: PIT
RM: 95.00 OHMM AT 88.0 DEGF
RMF: 76.00 OHMM AT 90.0 DEGF
RMC: 87.00 OHMM AT 85.0 DEGF
SOURCE RMF/RMC: MEASURED/MEASURED
RM AT BHT: 87.62 OHMM AT 96.0 DEGF
RMF AT BHT: 71.57 OHMM AT 96.0 DEGF
RMC AT BHT: 77.71 OHMM AT 96.0 DEGF

TIME CIRC. STOPPED: 12:30
TIME LOGGER ON BTM.: 17:15 8/21

MAX. REC. TEMP: 96.0 DEGF

LOGGING UNIT NO: 8320
LOGGING UNIT LOC: OILDALE
RECORDED BY: SCANLAN
WITNESSED BY: J. MARTIN

REMARKS:

RIG : DR#3
SWS CREW VANDENHOEK

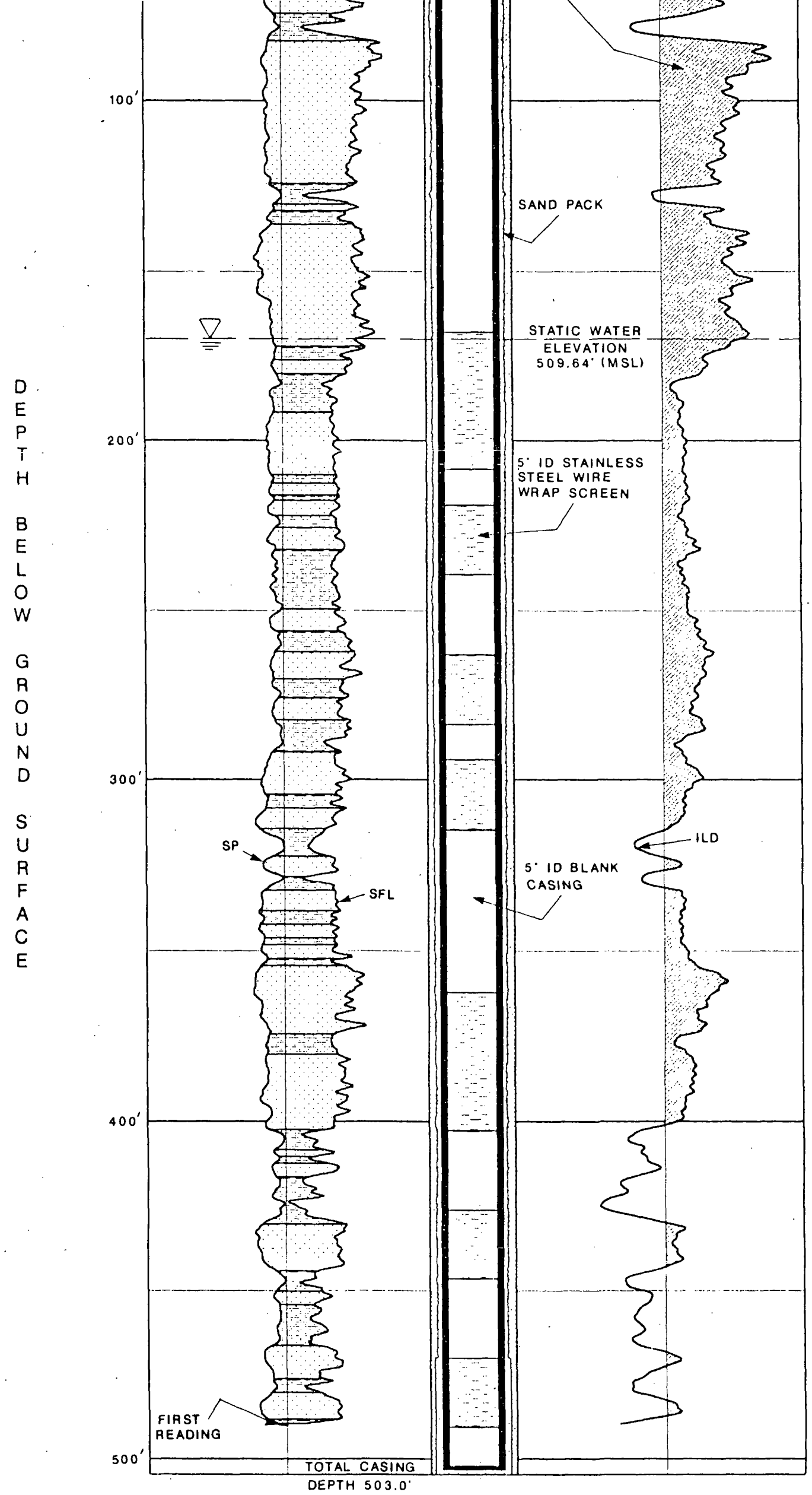
EQUIPMENT NUMBERS-

DIS 2016 DIC 284 SGC 2551 MCD 1003

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.4A FILE 3 21-AUG-86 18:09
DATA ACQUIRED 21-AUG-86 17:29

SOMS# 2203109



WELL A-1MW-3

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

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SOMS # 2203109

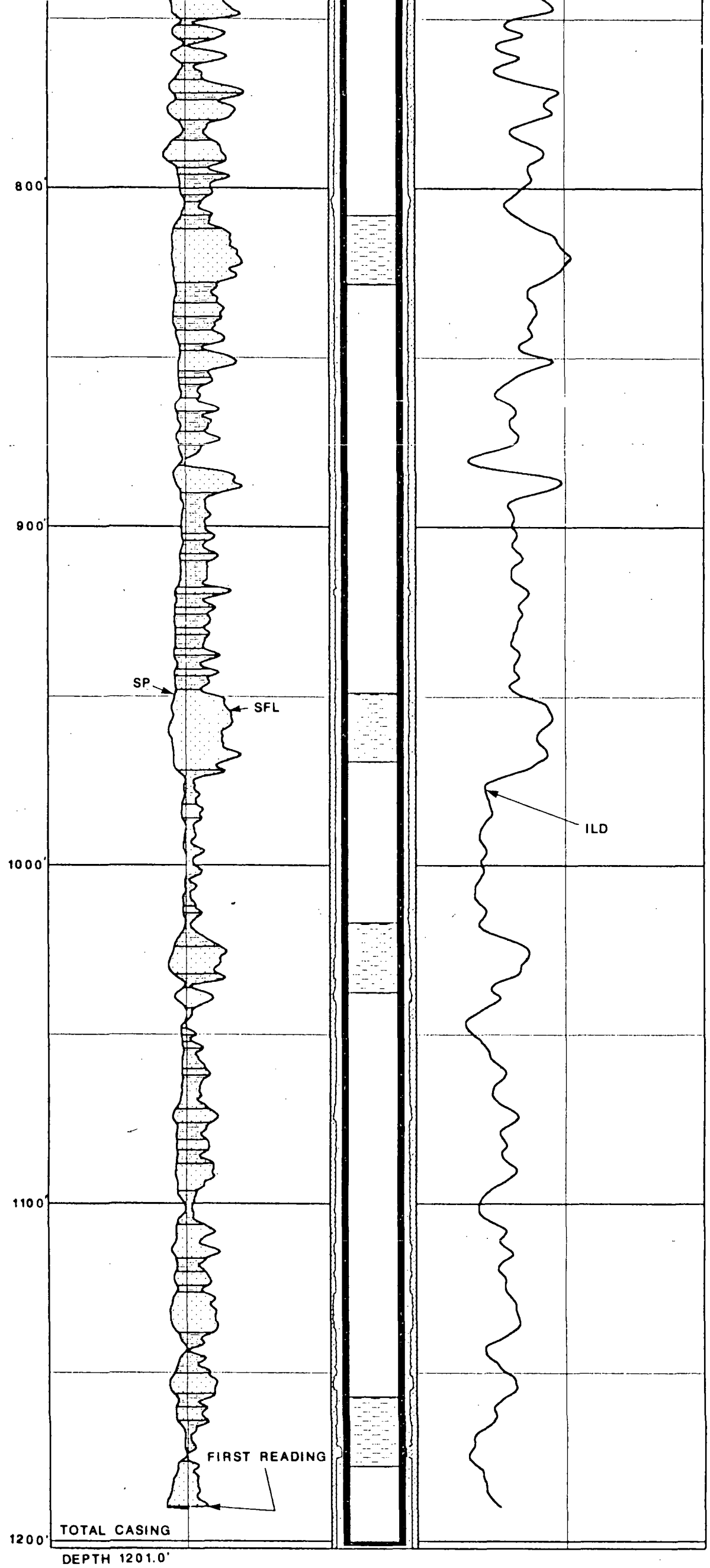
GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0033



WELL A-1-MW4

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

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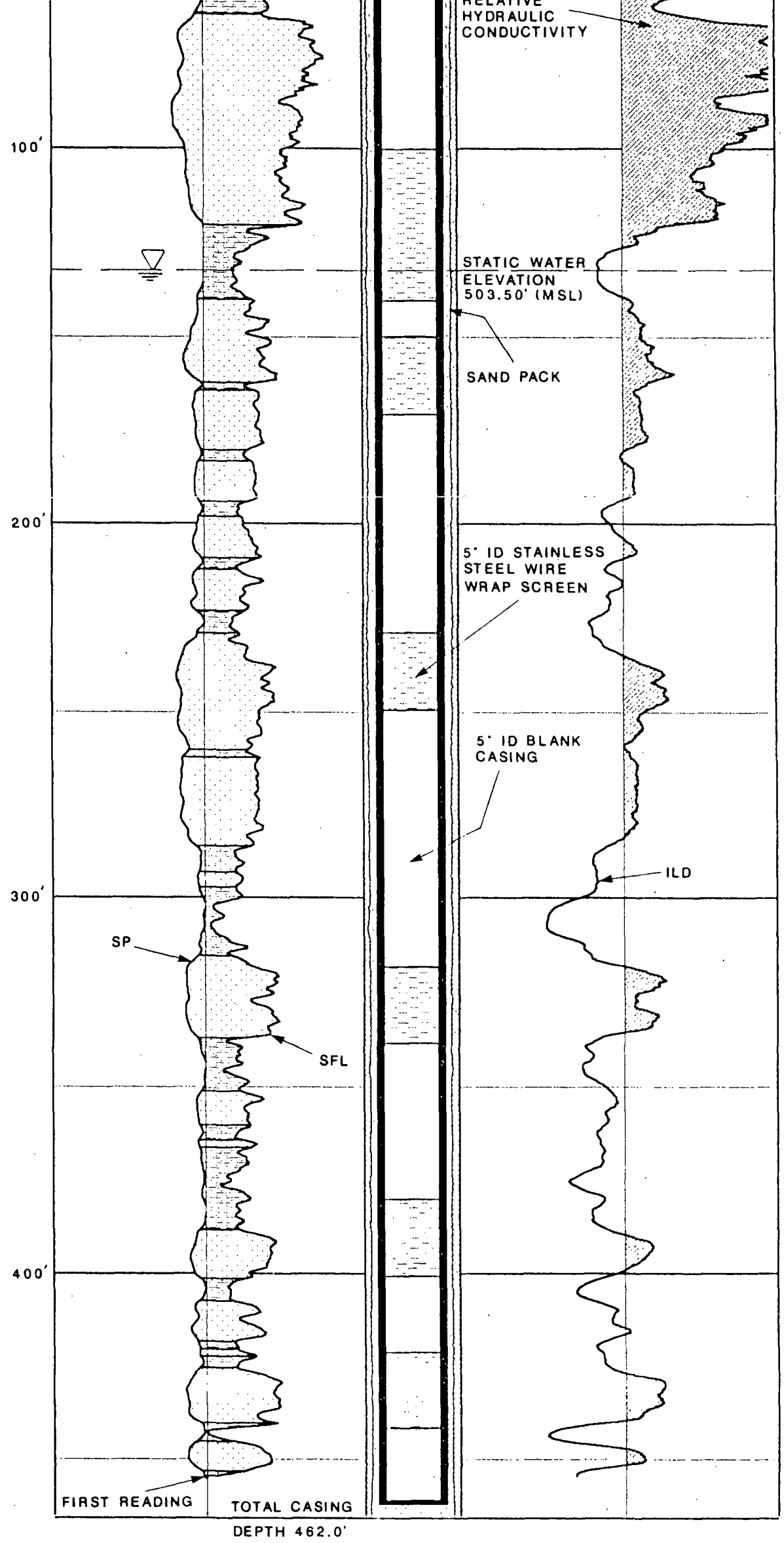
SOMS # 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1



WELL B-1-MW2

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 10/17/86

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

11 of 29

SOMS# 2203109

GREGG

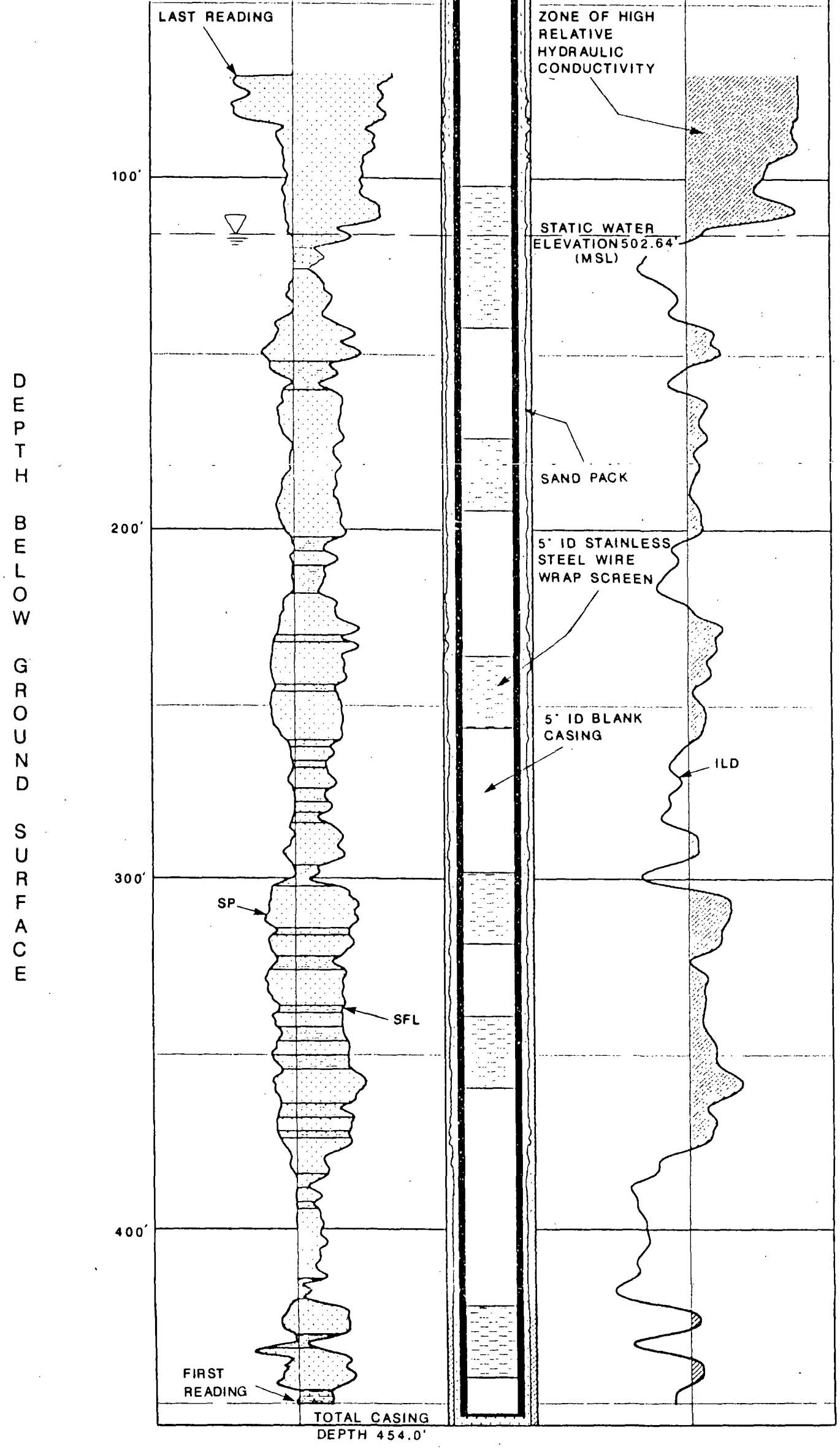
LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833

0833



WELL B-1-MW3

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

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Soms# 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833

0833

0833

Schlumberger

2" AND 5" DUAL INDUCTION/SFL

CSU

COMPANY: LOCKHEED-CALIFORNIA COMPANY

WELL: B-1-MW1

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: IN RGE: 14W

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 638.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB: 645.3 F
DF: 643.8 F
GL: 638.0 F

DATE: 18 JUN 86
RUN NO: 1

OTHER SERVICES-
NONE

PROGRAM
TAPE NO:
28.4A
SERVICE
ORDER NO:
488546

DEPTH-DRILLER: 480.0 F
DEPTH-LOGGER: 484.0 F
BTM. LOG INTERVAL: 478.0 F
TOP LOG INTERVAL:

CASING-DRILLER: 20.0 F
CASING-LOGGER: 20.0 F
CASING: 20
WEIGHT:
BIT SIZE: 12
DEPTH: 480.0 F

TYPE FLUID IN HOLE: GEL/WATER
DENSITY: 9.50 LB/G
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 6.670 OHMM AT 81.0 DEGF
RMF: 4.240 OHMM AT 82.0 DEGF
RMC: 9.900 OHMM AT 86.0 DEGF
SOURCE RMF/RMC: FILTER/PRESS
RM AT BHT: 5.929 OHMM AT 92.0 DEGF
RMF AT BHT: 3.812 OHMM AT 92.0 DEGF
RMC AT BHT: 9.300 OHMM AT 92.0 DEGF

TIME CIRC. STOPPED: 13:00
TIME LOGGER ON BTM.: 15:44

MAX. REC. TEMP: 92.0 DEGF

LOGGING UNIT NO: 8240
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: MARK MACGLASHAN
WITNESSED BY: GENEROUS/KEATING

REMARKS:

TOOL CENTRALIZED WITH MCD CALIPER
WATER TABLE AT 128'

EQUIPMENT NUMBERS-

DIC 1399 DIS 1387 MCD 1542 SGC JC 3214

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EVENT MARK SUMMARY:

SOMS # 2203109

Schlumberger

DUAL INDUCTION W/ 2" LINEAR CORR.

COMPANY: GREGG & ASSOCIATES INC.

WELL: B1 MW-2

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: 1N RGE: 14W SBB&M

OTHER SERVICES-
NONE

PERMANENT DATUM: GL (MAT)
ELEV. OF PERM. DATUM: 630.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB:
DF:
GL: 630.0 F

PROGRAM
TAPE NO:
28.4A
SERVICE
ORDER NO:
468651

DATE: 14 AUG 86
RUN NO: ONE

DEPTH-DRILLER: 460.0 F
DEPTH-LOGGER: 462.0 F
BTM. LOG INTERVAL: 456.0 F
TOP LOG INTERVAL: 20.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 20.0 F
CASING: 14"
WEIGHT:
BIT SIZE: 12 1/4"
DEPTH: 460.0 F

TYPE FLUID IN HOLE: GEL/WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: FLOWLINE
RM: 9.300 OHMM AT 84.0 DEGF
RMF: 6.980 OHMM AT 85.0 DEGF
RMC: 10.40 OHMM AT 82.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 6.612 OHMM AT 121. DEGF
RMF AT BHT: 5.017 OHMM AT 121. DEGF
RMC AT BHT: 7.231 OHMM AT 121. DEGF

TIME CIRC. STOPPED: 14:30 8/14
TIME LOGGER ON BTM.: 15:23 8/14

MAX. REC. TEMP: 121.0 DEGF

LOGGING UNIT NO: 8297
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: CORBETT
WITNESSED BY: STEUSSE

REMARKS:

RIG: HOWARD DRILLING
1 1/2" FIN STANDOFF, & MCD CALIPER USED.

EQUIPMENT NUMBERS-

DIS EC 1361 DIC DA 1298 MCD DA 1472 SGC JC 4123

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EVENT MARK SUMMARY:

OUTPUT INTERVAL DEPTH TRACK
BETWEEN PIPS EDGE

0833

Schlumberger

2" AND 5" DUAL INDUCTION/SFL

CST

COMPANY: GREGG & ASSOCIATES INC.

WELL: B1 MW-3

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: IN RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 620.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB:
DF:
GL: 620.0 F

PROGRAM
TAPE NO:
28.2A
SERVICE
ORDER NO:
482093

DATE: 10 JUL 86
RUN NO: ONE

DEPTH-DRILLER: 453.0 F
DEPTH-LOGGER: 454.0 F
BTM. LOG INTERVAL: 448.0 F
TOP LOG INTERVAL: 22.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 22.0 F
CASING: 16"
WEIGHT:
BIT SIZE: 12.25
DEPTH: 454.0 F

TYPE FLUID IN HOLE: GEL/WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 9.580 OHMM AT 78.0 DEGF
RMF: 6.730 OHMM AT 80.0 DEGF
RMC: 8.900 OHMM AT 80.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 7.610 OHMM AT 100. DEGF
RMF AT BHT: 5.472 OHMM AT 100. DEGF
RMC AT BHT: 7.236 OHMM AT 100. DEGF

TIME CIRC. STOPPED: 12:30 7/10
TIME LOGGER ON BTM.: 14:00 7/10

MAX. REC. TEMP: 100.0 DEGF

LOGGING UNIT NO: 8297
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: CORBETT/MCKINNEY
WITNESSED BY: STUESSE

REMARKS:

THANKS FOR USING SCHLUMBERGER

EQUIPMENT NUMBERS-

SGC 4123 MCD 663 DIC 1298 DIS 1361

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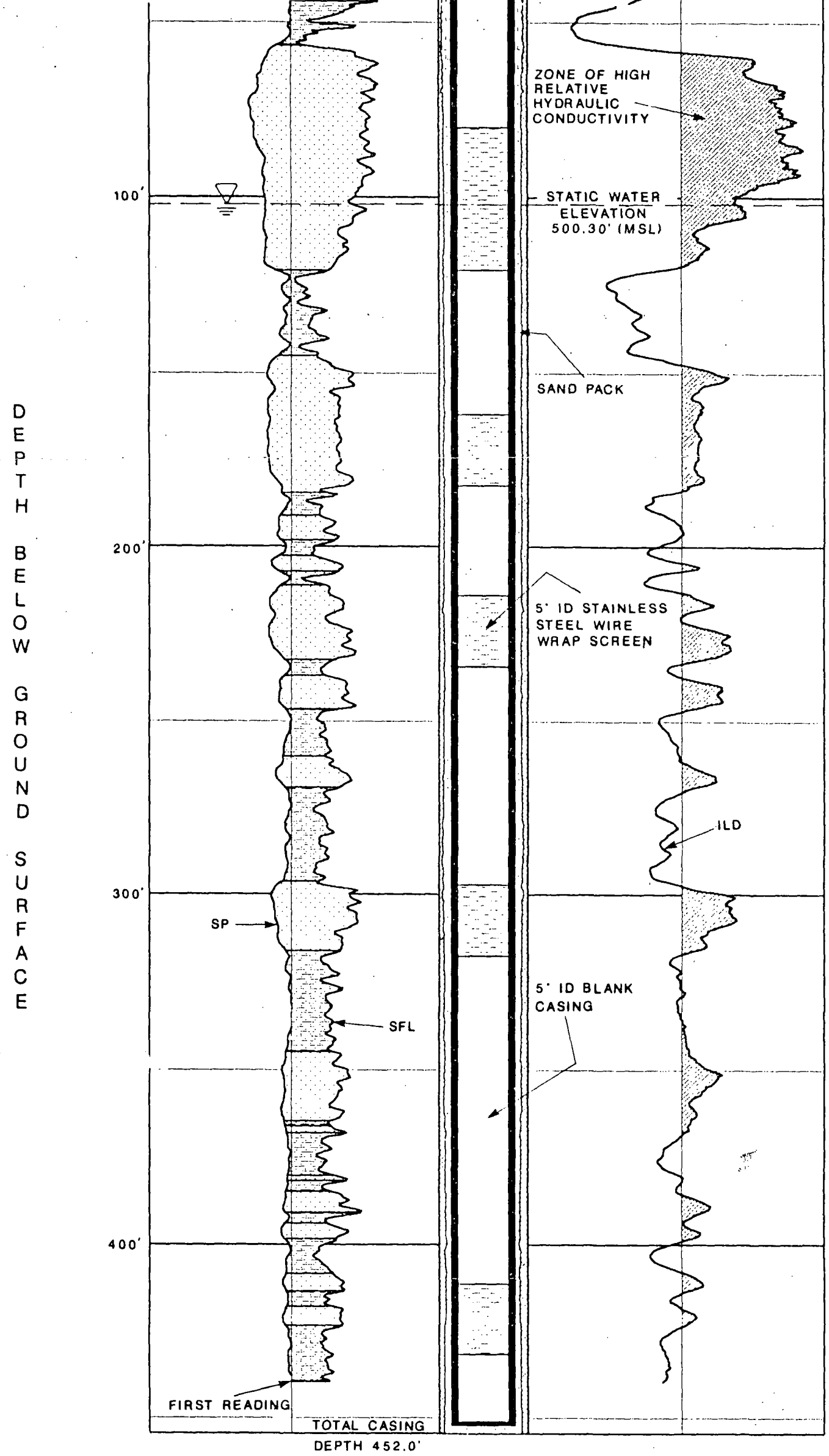
CP 28.2A FILE 3 10-JUL-86 15:40
DATA ACQUIRED 10-JUL-86 14:16

BS <IN> 18.000
8.0000

0833

15 of 29

Soms # 2203109



WELL B-1-MW4

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

16 of 29

Sams # 2203109

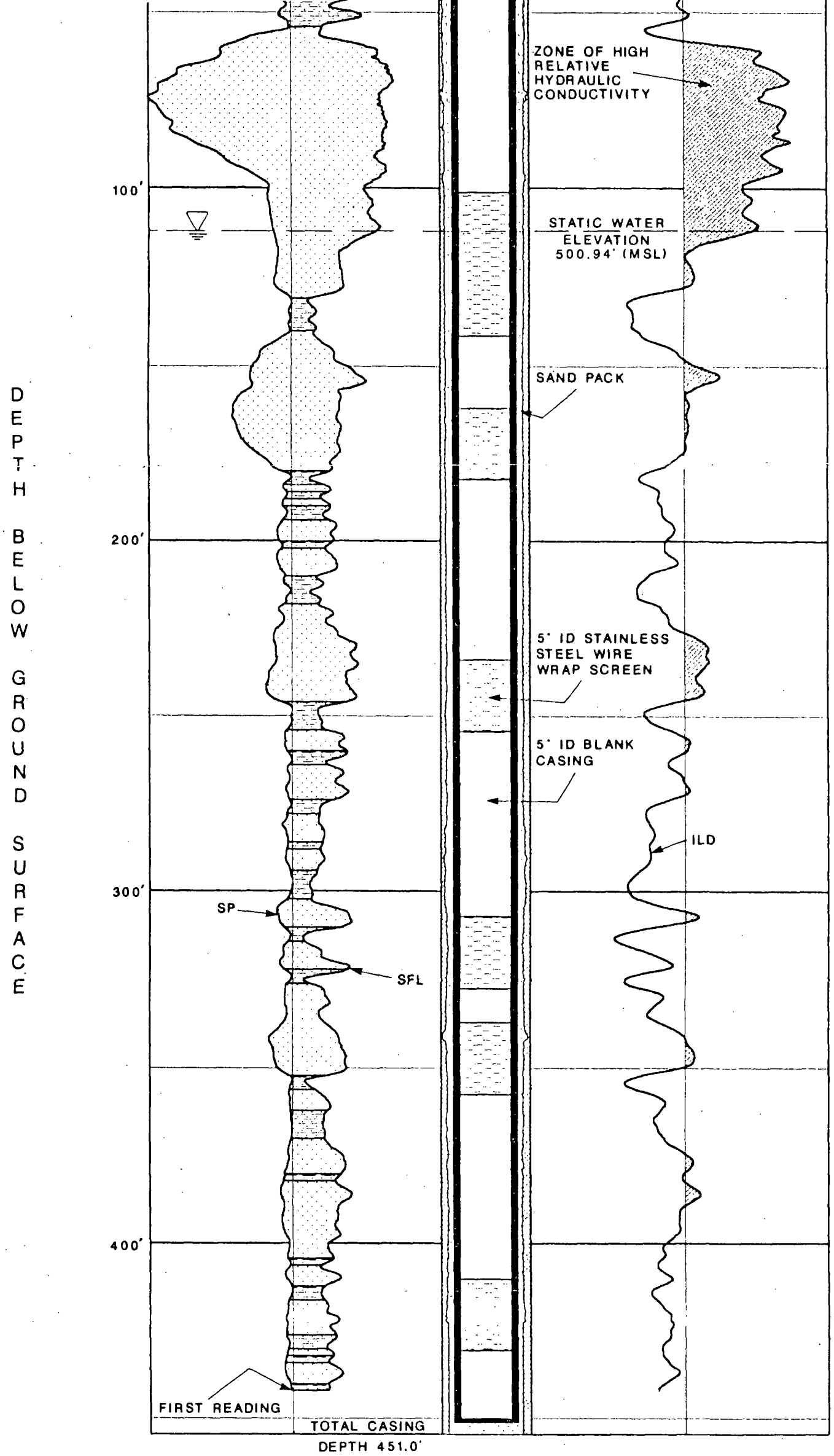
GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833



WELL B-1-MW7

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

17 of 29

SOMS # 2203109

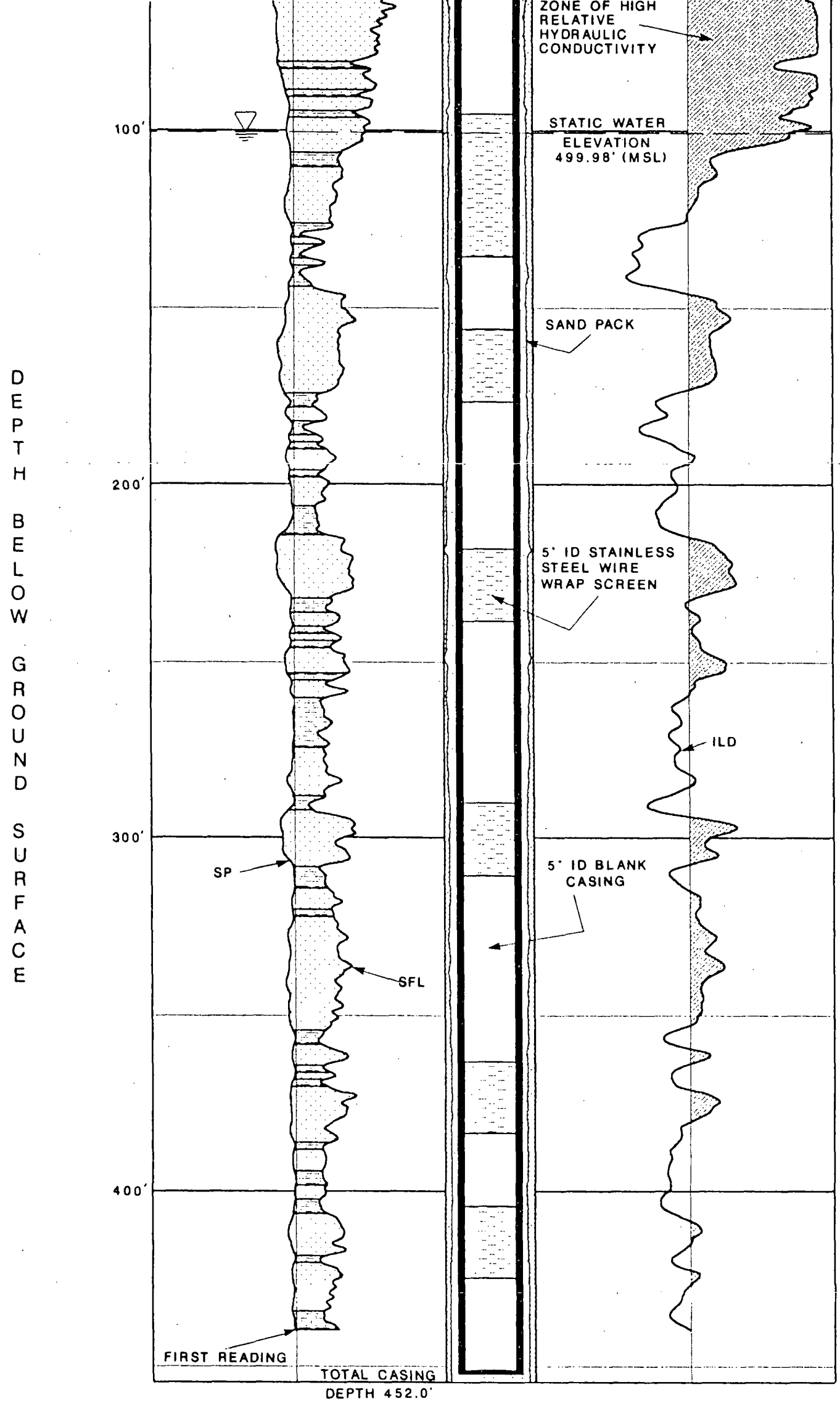
GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0033



WELL B-1-MW8

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

18 of 29

SOMS# 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833

0833

Schlumberger

DUAL INDUCTION W/ 2" LINEAR CORR.

GU

COMPANY: GREGG & ASSOCIATES INC

WELL: B1-MW4

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: 1N RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 604.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB:
DF:
GL: 604.0 F

PROGRAM
TAPE NO:
28.2A
SERVICE
ORDER NO:
468979

DATE: 31 JUL 86
RUN NO: ONE

DEPTH-DRILLER: 450.0 F
DEPTH-LOGGER: 451.0 F
BTM. LOG INTERVAL: 445.0 F
TOP LOG INTERVAL: 22.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 22.0 F
CASING: 14"
WEIGHT:
BIT SIZE: 12.25"
DEPTH: 450.0 F

TYPE FLUID IN HOLE: GELX/WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 11.00 OHMM AT 85.0 DEGF
RMF: 6.810 OHMM AT 83.0 DEGF
RMC: 8.710 OHMM AT 83.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 10.43 OHMM AT 90.0 DEGF
RMF AT BHT: 6.319 OHMM AT 90.0 DEGF
RMC AT BHT: 8.081 OHMM AT 90.0 DEGF

TIME CIRC. STOPPED: 1000
TIME LOGGER ON BTM.: 1200

MAX. REC. TEMP: 90.0 DEGF

LOGGING UNIT NO: 8297
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: C. CORBETT/R. MCKINNEY
WITNESSED BY: MARTIN

REMARKS:

THANKS FOR USING SCHLUMBERGER
YOUR CREW TODAY TOWNER

EQUIPMENT NUMBERS-

DIS 1361 DIC 1298

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.2A

FILE 103 31-JUL-86 12:57
DATA ACQUIRED 31-JUL-86 12:07

BS <IN> 8.000 18.000

0833

Schlumberger

DUAL INDUCTION W/ 2" LINEAR CORR.

CSU

COMPANY: GREGG & ASSOCIATES INC

WELL: B-1 MW-7

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: 1N RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 611.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB:
DF:
GL: 611.0 F

PROGRAM
TAPE NO:
28.4A
SERVICE
ORDER NO:
418780

DATE: 23 JUL 86
RUN NO: ONE

DEPTH-DRILLER: 450.0 F
DEPTH-LOGGER: 451.0 F
BTM. LOG INTERVAL: 445.0 F
TOP LOG INTERVAL: 22.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 22.0 F
CASING: 14"
WEIGHT:
BIT SIZE: 12.25"
DEPTH: 450.0 F

TYPE FLUID IN HOLE: GELX
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 10.70 OHMM AT 82.0 DEGF
RMF: 5.470 OHMM AT 85.0 DEGF
RMC: 9.900 OHMM AT 85.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 9.818 OHMM AT 90.0 DEGF
RMF AT BHT: 5.188 OHMM AT 90.0 DEGF
RMC AT BHT: 9.390 OHMM AT 90.0 DEGF

TIME CIRC. STOPPED: 1415
TIME LOGGER ON BTM.: 1530

MAX. REC. TEMP: 90.0 DEGF

LOGGING UNIT NO: 8240
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: C. CORBETT/R. MCKINNEY
WITNESSED BY: MARTIN

REMARKS:

THANKS FOR USING SCHLUMBERGER
YOUR CREW TODAY KIMBALL

EQUIPMENT NUMBERS-

DIS 1387 DIC 1399

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.4A

FILE 104 23-JUL-86 17:08
DATA ACQUIRED 23-JUL-86 15:36

BS IN 2 8.0000
18.000 CALI(IN) ILD (OHMM)

20 of 29
SOMS # 2203109

Schlumberger

DUAL INDUCTION W/ 2" LINEAR CORR.

CST

COMPANY: GREGG & ASSOCIATES INC.

WELL: B1 MW-8

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: 1N RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 600.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB:
DF:
GL: 600.0 F

PROGRAM
TAPE NO:
28.2A
SERVICE
ORDER NO:

DATE: 16 JUL 86
RUN NO: ONE

DEPTH-DRILLER: 450.0 F
DEPTH-LOGGER: 452.0 F
BTM. LOG INTERVAL: 446.0 F
TOP LOG INTERVAL: 22.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 22.0 F
CASING: 13"
WEIGHT:
BIT SIZE: 12.25"
DEPTH: 450.0 F

TYPE FLUID IN HOLE: BENT/WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: CIRC
RM: 9.700 OHMM AT 85.0 DEGF
RMF: 7.750 OHMM AT 73.0 DEGF
RMC: 9.910 OHMM AT 73.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 9.200 OHMM AT 90.0 DEGF
RMF AT BHT: 6.392 OHMM AT 90.0 DEGF
RMC AT BHT: 8.173 OHMM AT 90.0 DEGF

TIME CIRC. STOPPED: 20 15
TIME LOGGER ON BTM.: 21 45

MAX. REC. TEMP: 90.0 DEGF

LOGGING UNIT NO: 8297
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: CORBETT/MCKINNEY
WITNESSED BY: MARTIN

REMARKS:

THANKS FOR USING SCHLUMBERGER
YOUR CREW TOWNER/WILLIAMS

EQUIPMENT NUMBERS-

DIS 1361 DIC 1298 MCD 668 SGC 4123

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.2A FILE 4 16-JUL-86 22:17
DATA ACQUIRED 16-JUL-86 21:50

BS (IN)	CALI(IN)	ILD (OHMM)
8.0000 18.000	8.0000 18.000	0.0 100.00

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SDMS#2203109

0833

Schlumberger

DUAL INDUCTION W/ 2" LINEAR CORR.

COMPANY: GREGG & ASSOCIATES INC

WELL: B6 MW1

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: 1N RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM:
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: 0

ELEVATIONS-
KB:
DF:
GL:

PROGRAM
TAPE NO:
28.2A
SERVICE
ORDER NO:
482096

DATE: 17 JUL 86
RUN NO: ONE

DEPTH-DRILLER: 923.0 F
DEPTH-LOGGER: 928.0 F
BTM. LOG INTERVAL: 922.0 F
TOP LOG INTERVAL: 34.0 F

CASING-DRILLER: 30.0 F
CASING-LOGGER: 34.0 F
CASING: 14"
WEIGHT:
BIT SIZE: 8.25 7.875
DEPTH: 355.0 F 923.0 F

TYPE FLUID IN HOLE: BENT/WATER
DENSITY: 9.80 LB/G
VISCOSITY: 38.0 S
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 14.20 OHMM AT 84.0 DEGF
RMF: 11.70 OHMM AT 87.0 DEGF
RMC: 7.970 OHMM AT 85.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 13.32 OHMM AT 90.0 DEGF
RMF AT BHT: 11.34 OHMM AT 90.0 DEGF
RMC AT BHT: 7.559 OHMM AT 90.0 DEGF

TIME CIRC. STOPPED: 1300
TIME LOGGER ON BTM.: 1440

MAX. REC. TEMP: 90.0 DEGF

LOGGING UNIT NO: 8297
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: CORBETT/MCKINNEY
WITNESSED BY: FURU

REMARKS:

THANKS FOR USING SCHLUMBERGER
YOUR CREW WILLIAMS/ORTEGA

EQUIPMENT NUMBERS-

DIS 1361 DIC 1298 MCD 668 SGC 4123

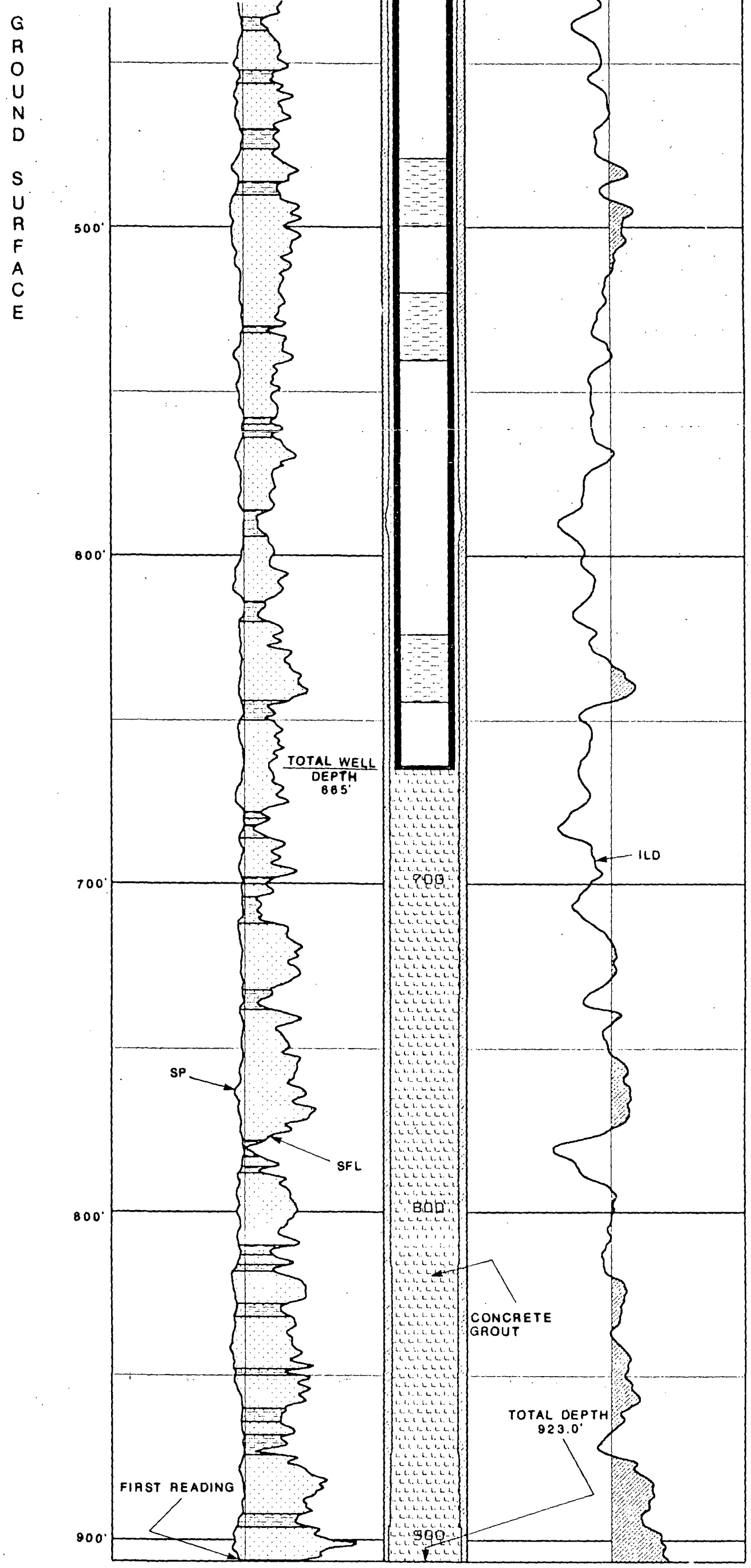
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.2A FILE 0 17-JUL-86 15:19

CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)

22 of 29
SOMS# 2203109



WELL B-6-MW1

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

23 of 29

Soms # 2203/09

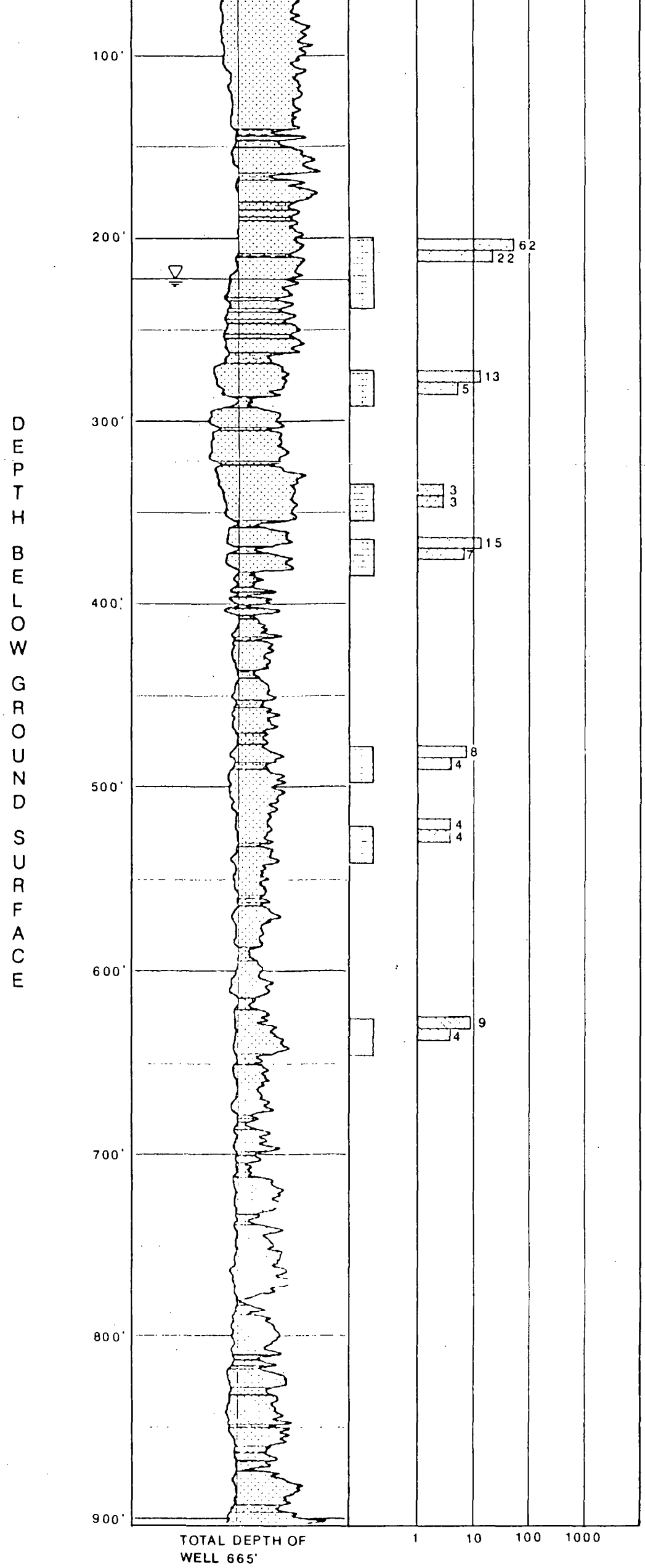
GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0083



NOTE: concentrations of PCE and TCE are in micrograms per liter (ug/l)

PCE
TCE

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

WELL SAMPLED 2/2,3/87

24 of 29

SDMS# 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

VERTICAL DISTRIBUTION OF PCE AND TCE CONCENTRATIONS IN GROUND WATER

4/87 APPENDIX A FIGURE 3

0833

0833

DUAL INDUCTION W/ 2" LINEAR CORR.

CSU

COMPANY: GREGG & ASSOCIATES INC

WELL: B6-HW2

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: 1N RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 700
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB:
DF:
GL: 700

PROGRAM
TAPE NO:
28.4
SERVICE
ORDER NO:
468566

DATE: 8 AUG 86
RUN NO: ONE

DEPTH-DRILLER: 520.0 F
DEPTH-LOGGER: 522.0 F
BTM. LOG INTERVAL: 516.0 F
TOP LOG INTERVAL: 22.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 22.0 F
CASING: 14"
WEIGHT:
BIT SIZE: 12.25"
DEPTH: 520.0 F

TYPE FLUID IN HOLE: GELX/WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 9.690 OHMM AT 83.0 DEGF
RMF: 6.800 OHMM AT 78.0 DEGF
RMC: 10.30 OHMM AT 70.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 8.150 OHMM AT 100. DEGF
RMF AT BHT: 5.402 OHMM AT 100. DEGF
RMC AT BHT: 7.412 OHMM AT 100. DEGF

TIME CIRC. STOPPED: 1015
TIME LOGGER ON BTM.: 1130

MAX. REC. TEMP: 100.0 DEGF

LOGGING UNIT NO: 8240
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: CORBETT/MCKINNEY
WITNESSED BY: MARTIN

REMARKS:

THANKS FOR USING SCHLUMBERGER
YOUR CREW TODAY MASSERY

EQUIPMENT NUMBERS-

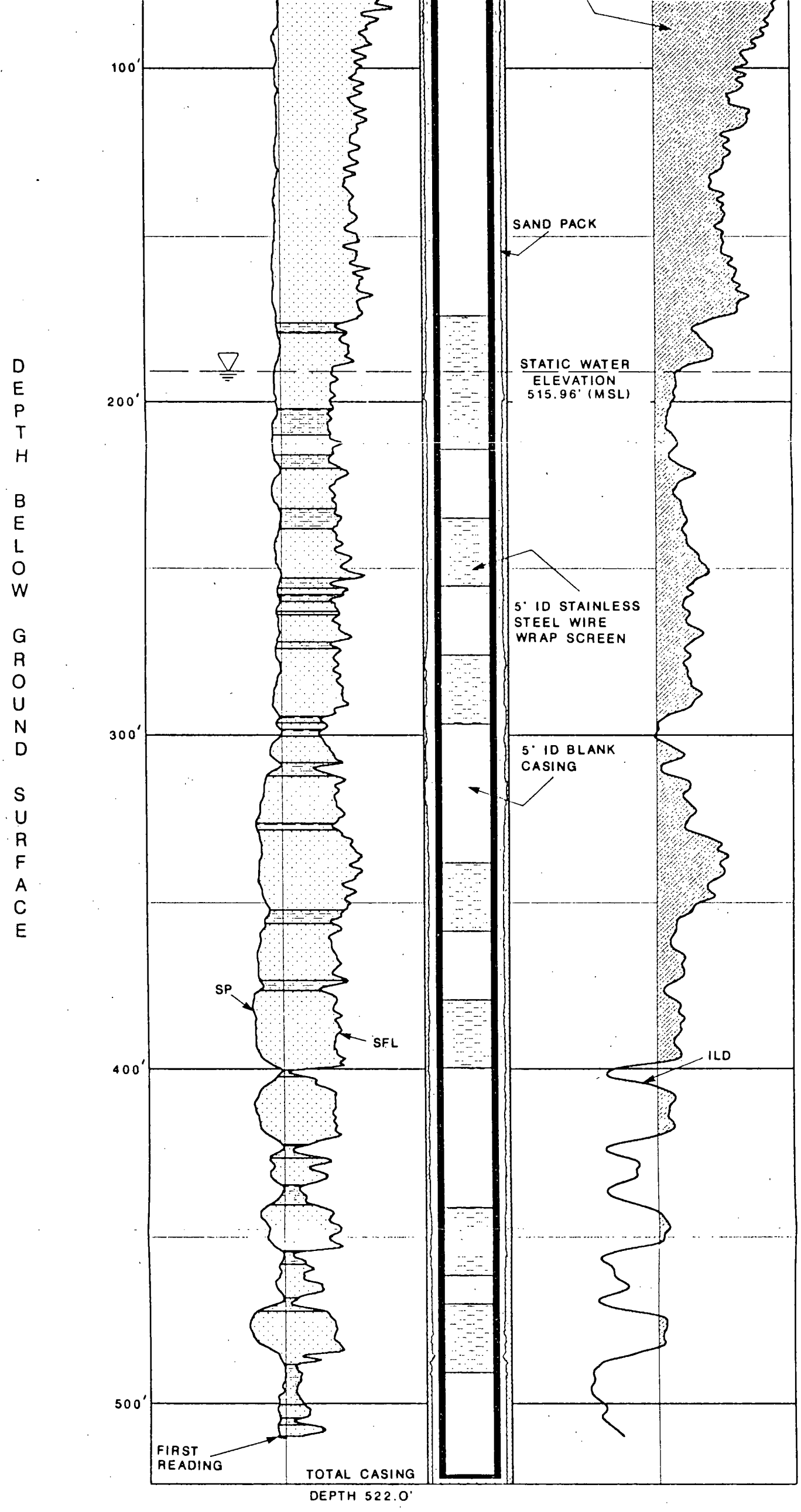
DIC 1399 DIS 1307 MCDB 688 SGTE 3134

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.4 FILE 5 08-AUG-86 12:37
DATA ACQUIRED 08-AUG-86 11:43

BS <IN >

25 of 29
Soms #2203109



WELL B-6-MW2

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

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SDMS#2207109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833

2" AND 5" DUAL INDUCTION/SFL

CST

COMPANY: LOCKHEED CALIFORNIA COMPANY

WELL: C1-MW1

FIELD: BURBANK DWP/PSD
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION: NOT AVAILABLE

SEC: 10 TWP: 1N RGE: 14W

OTHER SERVICES-
NONE

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 730.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB: 737.5 F
DF: 736.0 F
GL: 730.0 F

PROGRAM
TAPE NO:
20.4
SERVICE
ORDER NO:
400533

DATE: 20 AUG 06
RUN NO: 1

DEPTH-DRILLER: 550.0 F
DEPTH-LOGGER: 534.0 F
BTM. LOG INTERVAL: 540.0 F
TOP LOG INTERVAL: 40.0 F

CASING-DRILLER: 20.0 F
CASING-LOGGER: 20.0 F
CASING: 20
WEIGHT:
BIT SIZE: 12
DEPTH: 550.0 F

TYPE FLUID IN HOLE: GEL/WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE: MUD PIT
RM: 11.70 OHMM AT 66.0 DEGF
RMF: 6.250 OHMM AT 65.0 DEGF
RMC: 9.210 OHMM AT 65.0 DEGF
SOURCE RMF/RMC: FILTER/PRESS
RM AT BHT: 9.300 OHMM AT 110. DEGF
RMF AT BHT: 4.915 OHMM AT 110. DEGF
RMC AT BHT: 7.242 OHMM AT 110. DEGF

TIME CIRC. STOPPED: 15:00
TIME LOGGER ON BTM.: 17:03

MAX. REC. TEMP: 110.0 DEGF

LOGGING UNIT NO: 0297
LOGGING UNIT LOC: LONG BEACH
RECORDED BY: MARK MACGLASHAN
WITNESSED BY: STUESSE

REMARKS:

WATER TABLE AT 100 FEET
DRILLING MUD DATA UNAVAILABLE

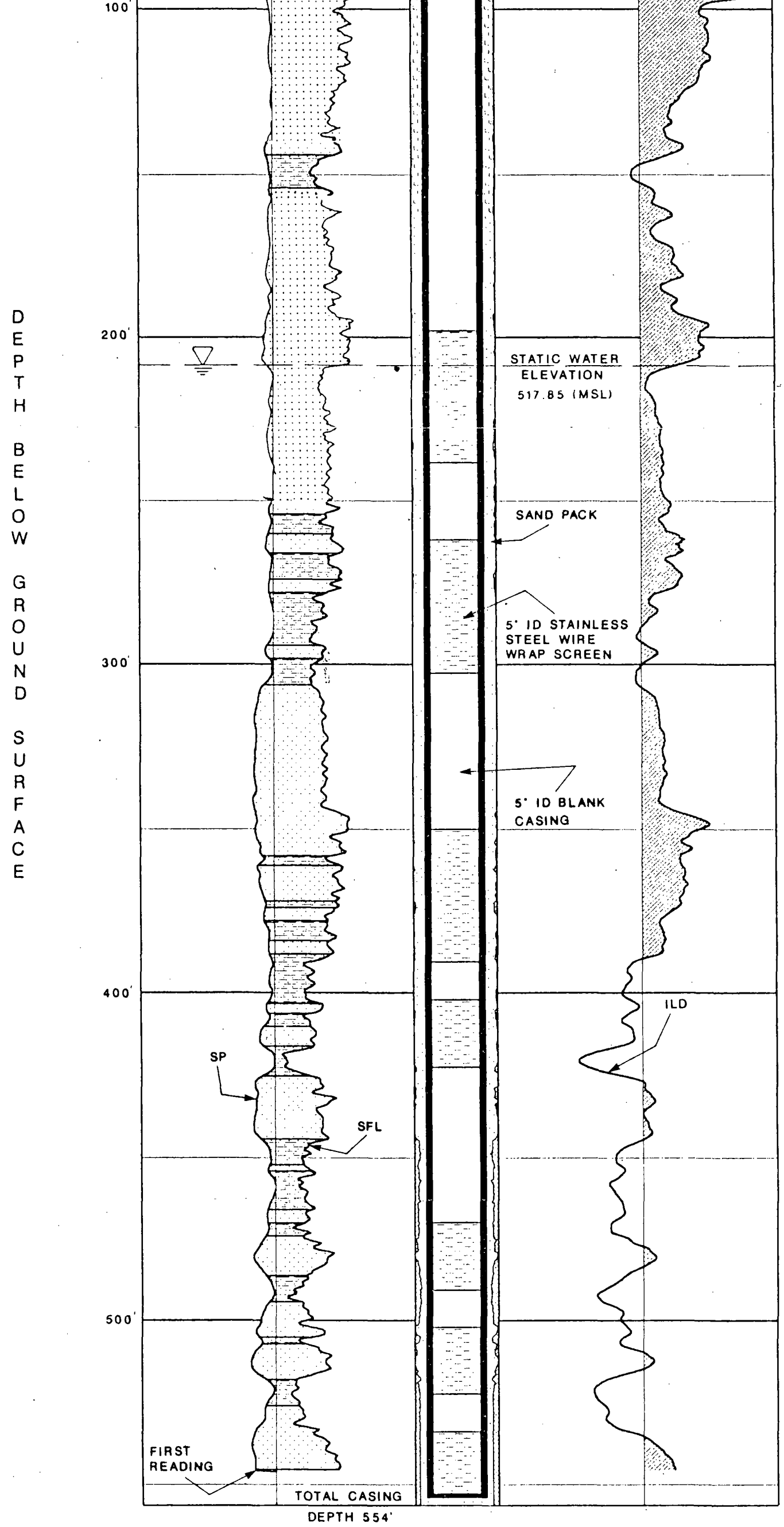
EQUIPMENT NUMBERS-

SGC-JC4183 MCB 663 DIC 1298 DIS 1361
IEM 626 MLM 1083

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

27 of 29

Soms # 2203109



WELL C-1-MW1

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

SP - SPONTANEOUS POTENTIAL

SFL - SPHERICALLY FOCUSED LOG

ILD - INDUCTION LOG DEEP

GROUND-WATER LEVEL MEASURED 3/9/87

THE SP CURVE HAS BEEN NORMALIZED AND ALL LOG CURVES HAVE BEEN ENVIRONMENTALLY CORRECTED.

28 of 29

SOMS# 2203109

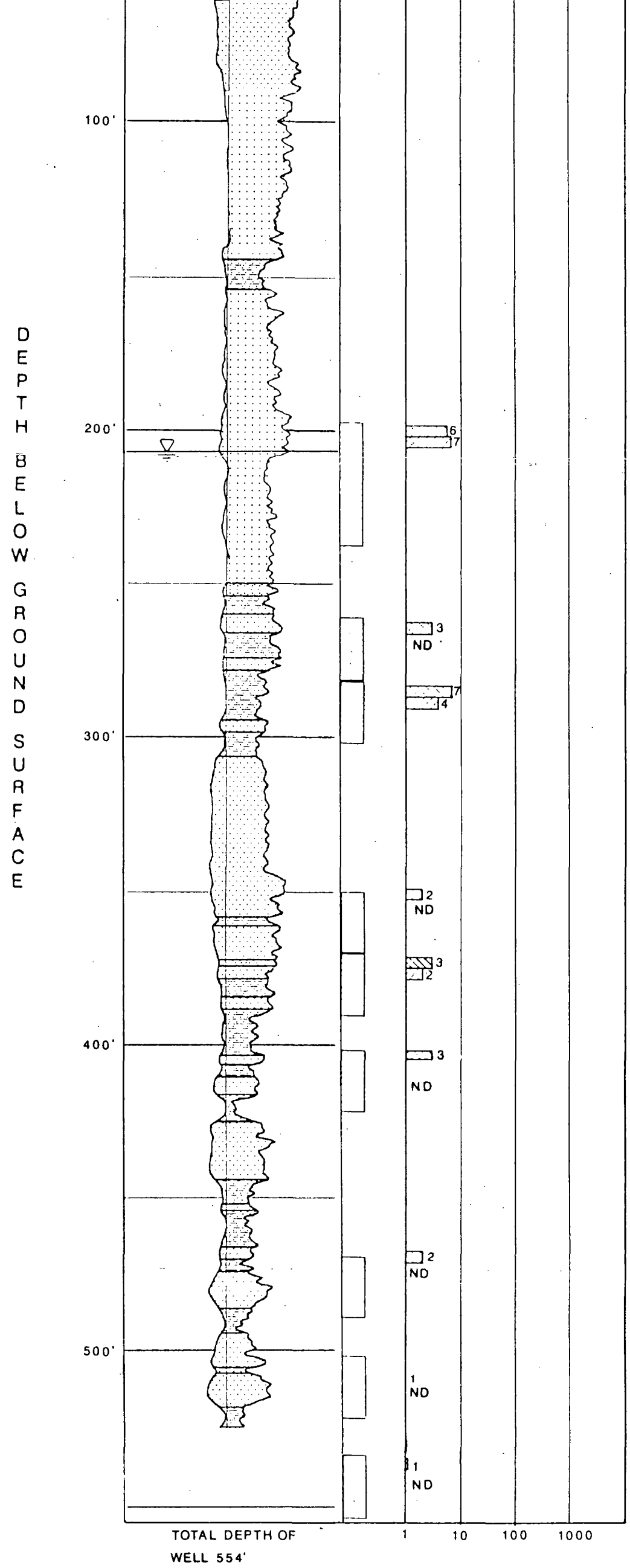
GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

LITHOLOGY AND WELL COMPLETION DIAGRAM

4/87 APPENDIX A FIGURE 1

0833



NOTE: concentrations of PCE and TCE are in micrograms per liter (ug/l)

PCE
TCE

SAND-FINE TO COARSE GRAIN WITH OCCASIONAL GRAVEL & COBBLES

CLAYS, SANDY CLAYS, AND SILTS

WELL SAMPLED 2/4-6/87

29 of 29

SOms# 2203109

GREGG

LOCKHEED-CALIFORNIA COMPANY
PROJECT NO 86-106-022

VERTICAL DISTRIBUTION OF PCE AND TCE CONCENTRATIONS IN GROUND WATER

4/87 APPENDIX A FIGURE 3

0833