Reservoirs, Inc. Report

Rhodes B1-1327

RESERVOIRS, INC. CORE ANALYSIS DATA

File No. RMD913/DRC120

Company Gemini Corporation

Date March 8, 1985

Well Rhodes B1-1327

Field

Interval 4267-4297 feet

Location Section 27, T.4N., R.34W.

County Hitchcock

State Nebraska

Sample Number	Sample Depth (ft.)	Porosity* (%)	Fluid Saturations Water (%)	Fluid Saturations Oil (%)	Perm. (md)	Grain Density (gm/cc)	Description
	4267-72						No sample. Shale, red to rust, massive, calcareous trace fossil fragments, slickensides, becomes gray at 4271.
1	4272-73	6.2	14.9	29.8	0.31	2.61	Limestone, white to dark brown where oil stained, microcrystalline, vuggy, stylolitic, shale laminations, fossiliferous, hydrocarbon stain and odor, good moldic porosity.
2	4273-74	15.6	3.2	6.5	59.4	2.62	Limestone as above.
	4274-83						No sample. Limestone, light gray, cryptocrystalline, heavily laminated with red and gray shale.
	4283-87						No sample. Limestone, light gray, stylolitic, shale laminations, trace of vugs.
	4287-91						No sample. Limestone, dark gray, cryptocrystalline, argillaceous to very argillaceous, crinoidal.
	4291-93						No sample. Shale, dark gray, calcareous.
	4293-94						No sample. Limestone, light gray, microcrystalline, crinoidal, anhydritic inclusions.
	4294-97						No sample. Shale, dark gray, calcareous.

PRINTZ TESTING COMPANY

P.O. BOX 596 McCOOK, NEBRASKA 69001 308-345-1862

DRILL-STEM TEST DATA

Company: Gemini Corp
Well Name & Number: Rhodes B1 - 1327
Company Address: Box 309 Mc Cook, NE 69001
Comp. Rep.: Mark Young
Contractor: Murfin Drlg Rig #20
Location: Sec. 27 Twp. 4N Rge. 34W Co. Hitchcock State NE

Test No.: 1
Zone Tested: F LKC
Date: 3-3-85
Tester: Marvin Printz
Elevation: 3005 KB
Est. Feet of Pay:

Recorder No. 13337 Type Kuster Range 3975 PSI
Recorder Depth: 4329
(A) Initial Hydrostatic Mud: 2197 PSI
(B) First Initial Flow Pressure: 104 PSI
(C) First Final Flow Pressure: 104 PSI
(D) Initial Closed-in Pressure: 781 PSI
(E) Second Initial Flow Pressure: 72 PSI
(F) Second Final Flow Pressure: 72 PSI
(G) Final Closed-in Pressure: 640 PSI
(H) Final Hydrostatic Mud: 2177 PSI
Temperature: 114
Mud Weight: 9.3 Viscosity: 50
Fluid Loss: 6.4
Interval Tested: 4223-4337
Anchor Length: 114'
Top Packer Depth: 4218
Bottom Packer Depth: 4223
Total Depth: 4337
Drill Pipe Size: 4½ XH
Wt. Pipe I.D.: 2.7 Ft. Run: 531
Recovery—Total Feet: 15

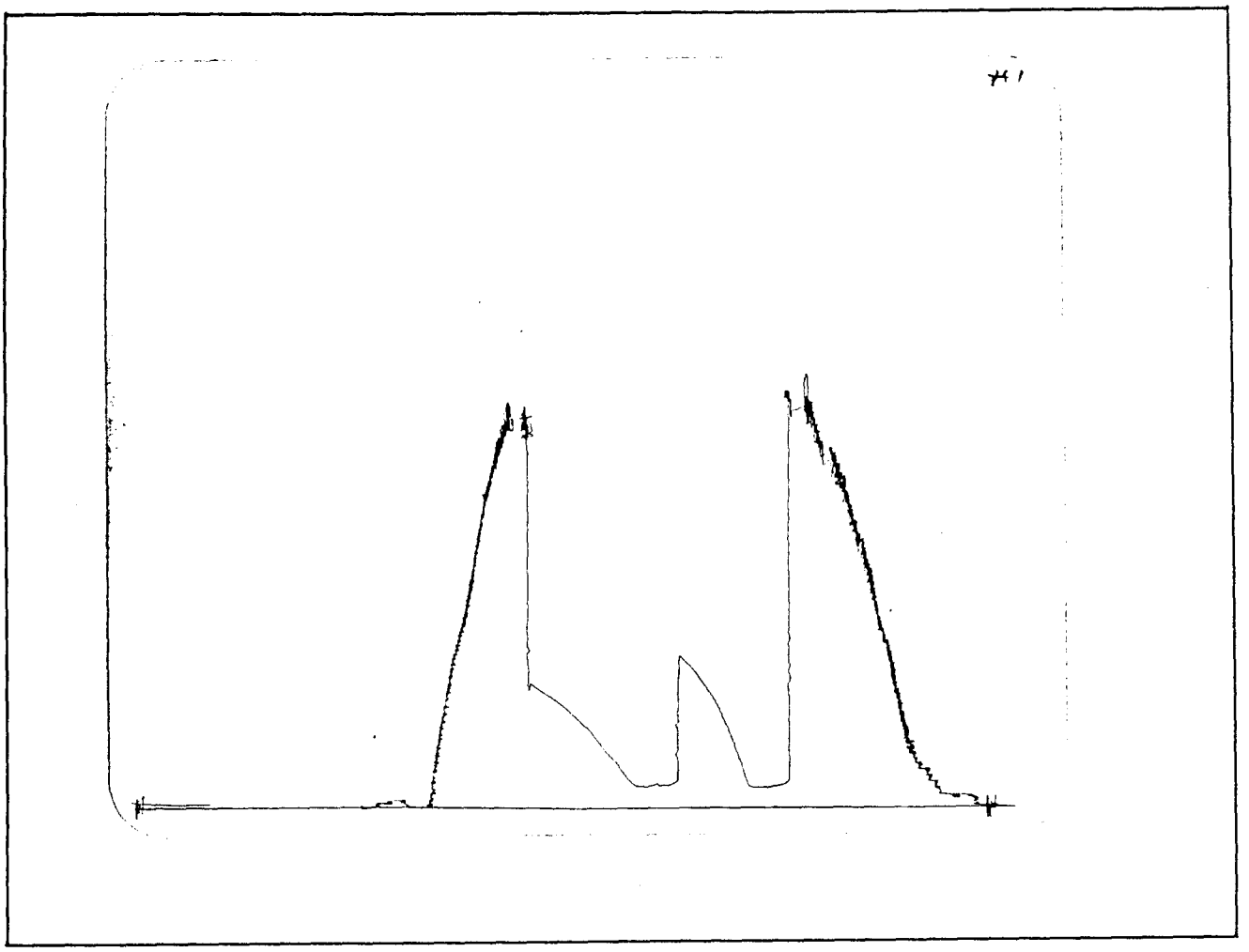
Recorder No. 13339 Type Kuster Range 4025 PSI
Recorder Depth: 4333
Tool Open Before I.S.I.: 30 Mins.
Initial Shut-in: 70 Mins.
Flow Period: 30 Mins.
Final Shut-in: 90 Mins.
Surface Choke Size: 1"
Bottom Choke Size: 3/4"
Main Hole Size: 7 7/8"
Rubber Size: 6 3/4"
Tool Open at: 12:31 A.M.
Blow: ½" Decreasing Blow dead 20 min
Remarks: F.F. - No Blow

Drill Collar I.D.: 2.25 Ft. Run: 244

Recovered: 15 Feet Of: Mud 2/ Few oil Spots on Tool
Recovered: Feet Of:
Recovered: Feet Of:
Recovered: Feet Of:

Extra Equipment: Price of Job:

COMPANY Gemini Corp LEASE AND WELL NO. Rhodes B1-1327 SEC. 27 TWP. 4N RGE. 34W TEST NO. 1 DATE 3-3-85



This is an actual photograph of recorder chart.

POINT	PRESSURE Field Reading	PRESSURE Office Reading	
(A) Initial Hydrostatic Mud	2197		PSI
(B) First Initial Flow Pressure	104		PSI
(C) First Final Flow Pressure	104		PSI
(D) Initial Closed-in Pressure	781		PSI
(E) Second Initial Flow Pressure	72		PSI
(F) Second Final Flow Pressure	72		PSI
(G) Final Closed-in Pressure	640		PSI
(H) Final Hydrostatic Mud	2177		PSI

WELL FILE

N INDUSTRIES

McCullough Petro-Log

Compensated Density
Compensated Neutron

Log Tops, DST, D+A

COMPANY GEMINI CORPORATION

WELL RHODES B1-1327

FIELD PALISADE PROJECT

COUNTY HITCHCOCK STATE NEBRASKA

Location C of SW-SW

Sec. 27 Twp. 4N Rge. 34W

Other Services: DIL

Permanent Datum: GROUND LEVEL Elev. 3000

Log Measured From K.B., 5 Ft. Above Perm. Datum

Drilling Measured From KELLY BUSHING

Elev.: K.B. 3005 D.F. G.L. 3000

Date	3-3-85			
Run No.	ONE			
Depth—Driller	4337			
Depth—Logger	4334			
Btm. Log Inter.	4334			
Top Log Inter.	SURF.			
Casing—Driller	8 5/8 @ 340	@	@	@
Casing—Logger	340			
Bit Size	7 7/8			
Type Fluid in Hole	DRISPAC			
Dens. | Visc.	9.3 | 54	|	|	|
pH | Fluid Loss	11.5 | NA ml	| ml	| ml	| ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	1.5 @ 66 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.125 @ 66 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.25 @ 66 °F	@ °F	@ °F	@ °F
Source: R_{mf} R_{mc}	CHARTS	|	|	|
R_m @ BHT	.834 @ 124 °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max Rec. Temp.	124 °F	°F	°F	°F
Equip. | Location	8416½ G.B.	|	|	|
Recorded By	D. EDWARDS			
Witnessed By	MR. MARK YOUNG			

Equipment Data

Run No.	Tool No.	Source No.	Panel No.	Logging Unit	Location
ONE	0301	CSV A61	114	8416½	OAKLEY, KANSAS

Calibration Data

Run No.	Gamma Ray API Scale	Gamma Ray Background CPS	Gamma Ray Std. CPS	Gamma Ray Ds CPS AT	CDT 2.0	CDT 3.0	CDT Dt CPS AT	CDT 2.0	CDT 3.0

Logging Data

Run No.	Depths From	Depths To	Speed Ft/Min	GR TC
ONE	4334	1800	20	3

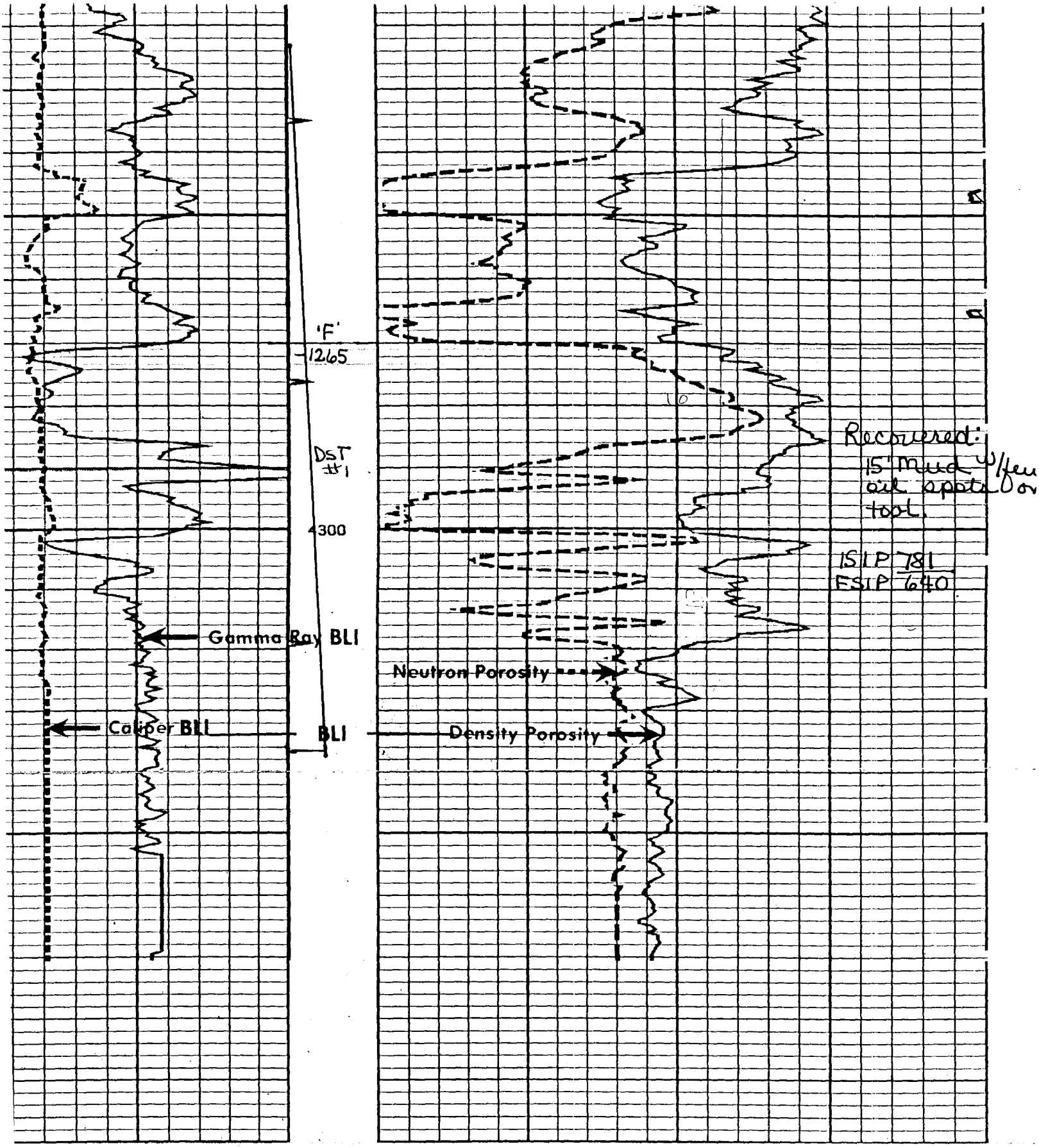
Remarks:

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.

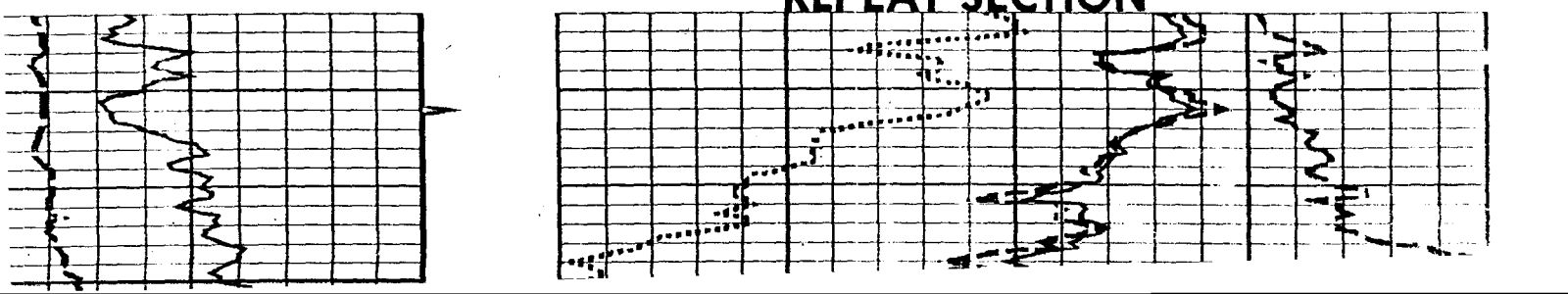
BULK DENSITY GRAMS/CC

DEPTHS

GAMMA RAY API UNITS



REPEAT SECTION



WELL FILE

McCullough Petro-Log

Dual Induction

COMPANY GEMINI CORPORATION

WELL RHODES B1-1327

FIELD PALISADE PROJECT

COUNTY HITCHCOCK STATE NEBRASKA

Location: SE SE of SW-SW Sec. 27 Twp. 4N Rge. 34W

Other Services: CDL/N

Elev.: K.B. 3005 D.F. G.L. 3000

Log Measured From GROUND LEVEL Elev. 3000 Ft. Above Perm. Datum

Drilling Measured From K.B., 5 Ft. Above Perm. Datum KELLY BUSHING

Date	2-85				
Run No.	1				
Depth-Driller	4327				
Depth-Logger	4324				
Bottom Log Interval	4324				
Top Log Interval	4324				
Casing-Driller					
Casing-Logger					
Bit Size	7 7/8				
Type Fluid in Hole	DISPAC				
Dens.	9.5				
Visc.	54				
Max. Rec. Temp.	125 °F	126 °F	126 °F	125 °F	126 °F
Equip.	1169 G.B.				
Location	EDWARDS				
Recorded By	MEEK YOUNG				
Witnessed By					

Run No.	1				
Bit Size	7 7/8				
Type Fluid in Hole	NA				
Dens.	9.5				
Visc.	54				
Max. Rec. Temp.	125 °F	126 °F	126 °F	125 °F	126 °F
Source of Sample	FLOWLINE				
Rm @ Meas. Temp.	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F
Rmf @ Meas. Temp.	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F
Rmc @ Meas. Temp.	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F	.5 @ 86 °F
Source Rmf / Rmc	MEASURED				
Rm @ BHT	.5 @ 124 °F	.5 @ 124 °F	.5 @ 124 °F	.5 @ 124 °F	.5 @ 124 °F
Time Since Circ.	12 HOURS				
Time Log Started	1234				
Time Log Finished	1730				
Max. Temp. Recorded	125 °F	126 °F	126 °F	125 °F	126 °F
Equipment Location	1169 G.B.				
Recorded By	EDWARDS				
Witnessed By	MEEK YOUNG				

Run No.	1				
Bit Size	7 7/8				
Type Fluid in Hole	NA				
Dens.	9.5				
Visc.	54				
Max. Rec. Temp.	125 °F	126 °F	126 °F	125 °F	126 °F
Equip.	1169 G.B.				
Location	EDWARDS				
Recorded By	MEEK YOUNG				
Witnessed By					

REMARKS 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 one of our officers, agents or employees.

SPONTANEOUS-POTENTIAL
millivolts

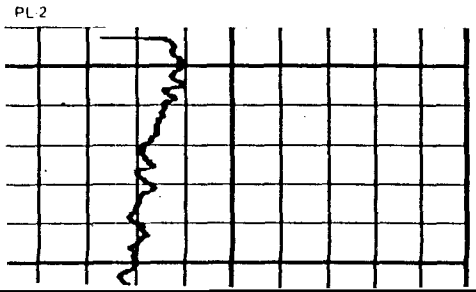
− 15 +

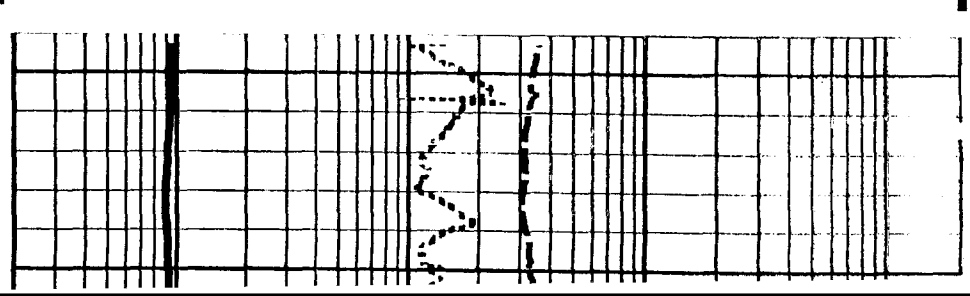
RESISTIVITY — ILD
0.2 2000.0

RESISTIVITY — ILM
0.2 2000.0

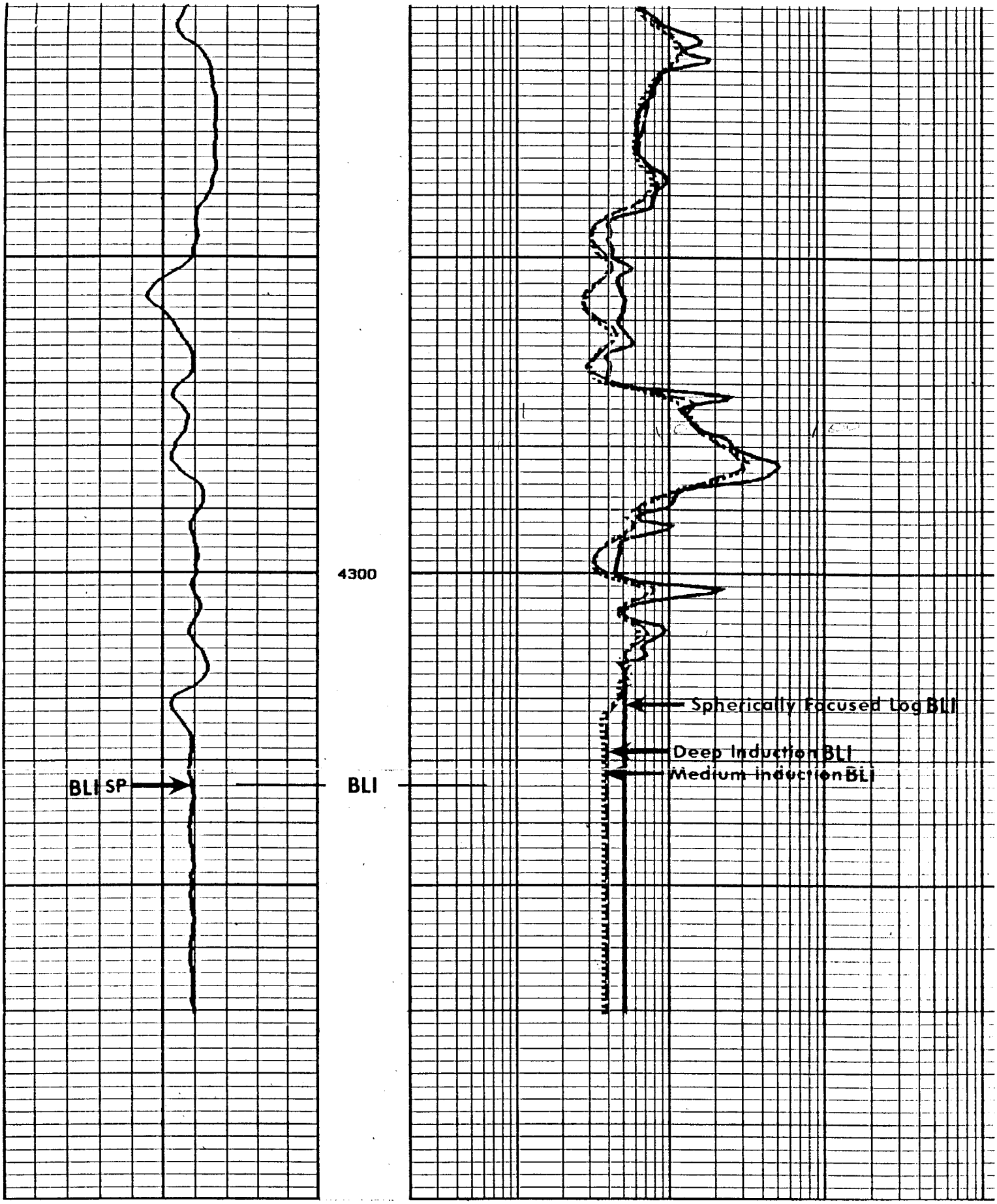
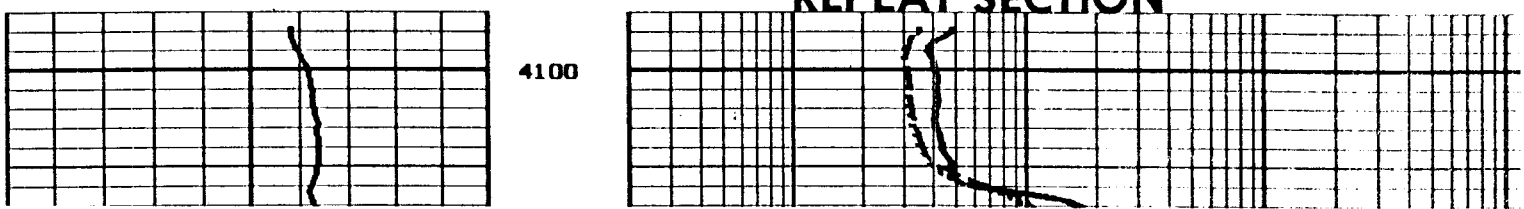
RESISTIVITY — SFL
0.2 2000.0

PL-2





300



REPEAT SECTION