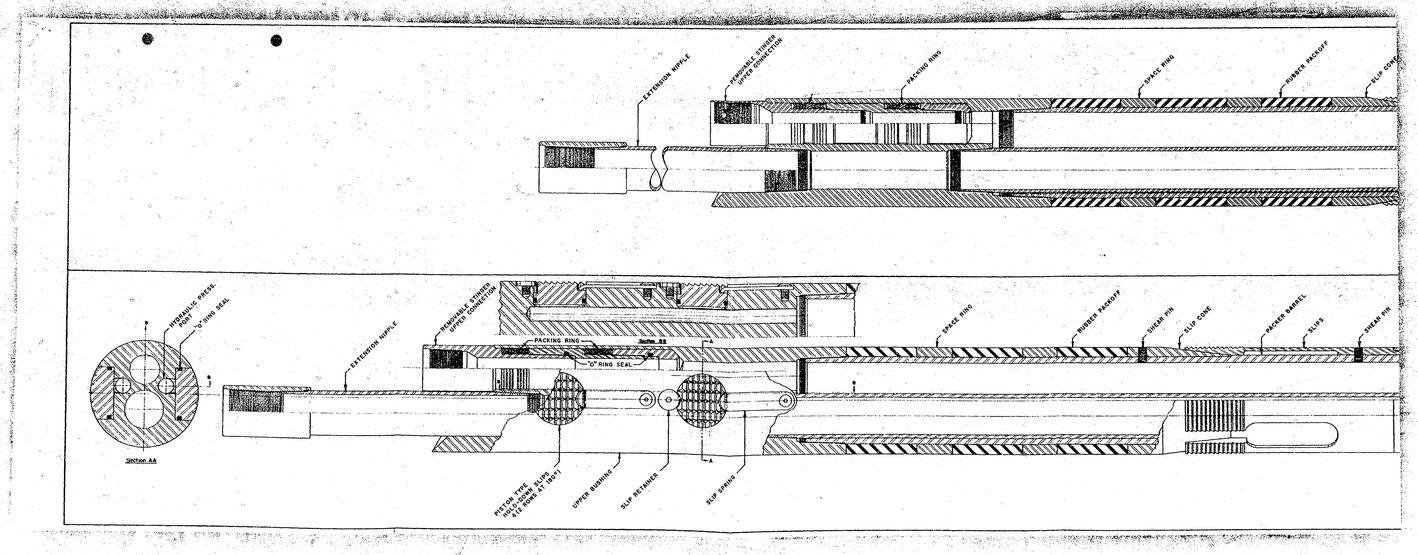
Case No.

2302

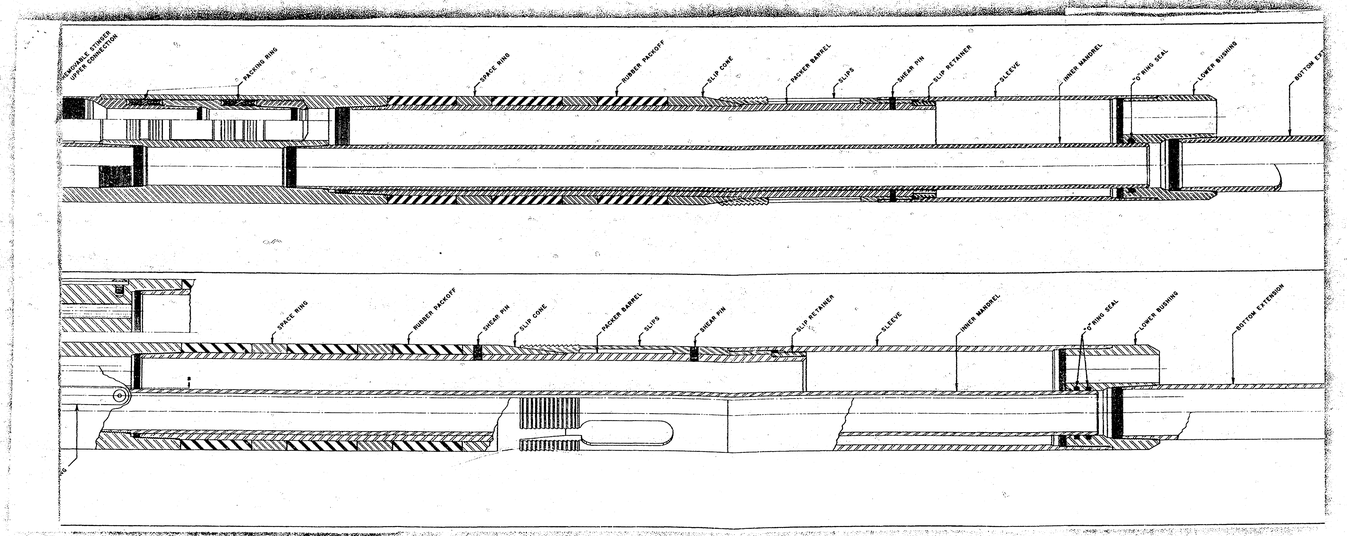
Large Exhibits

V.S.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

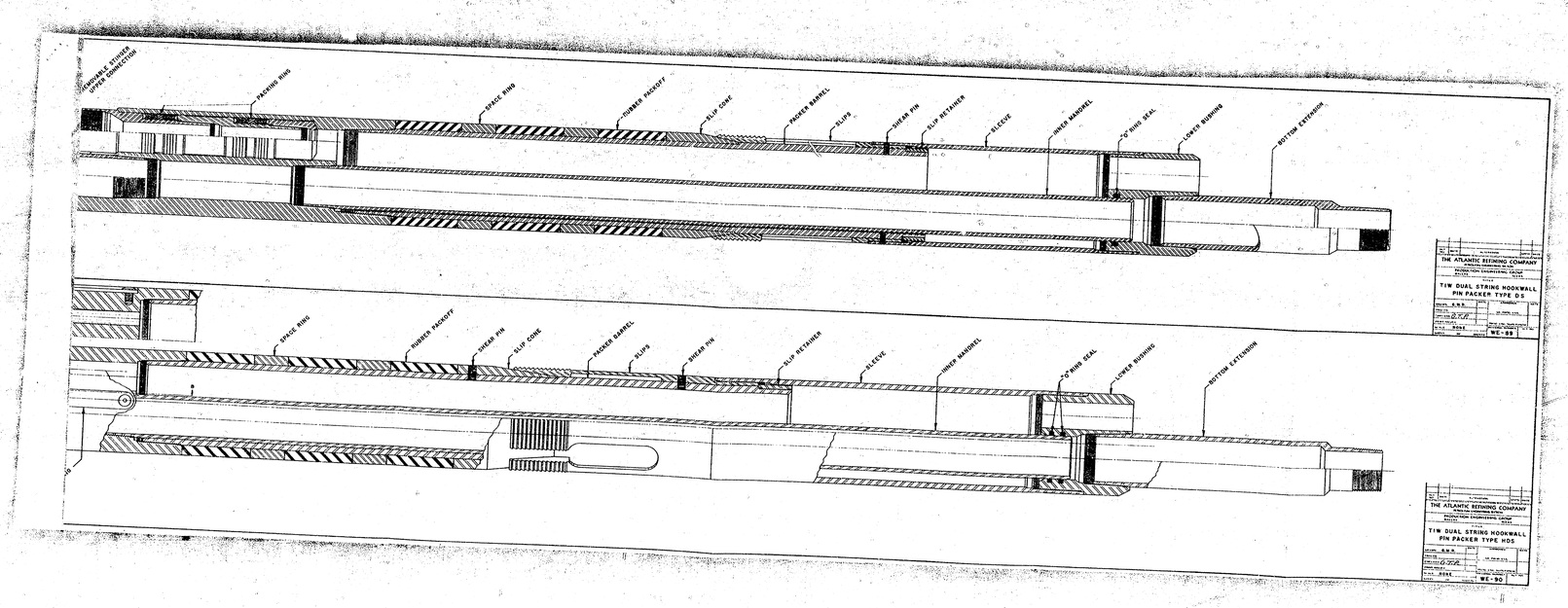


W.N.W.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

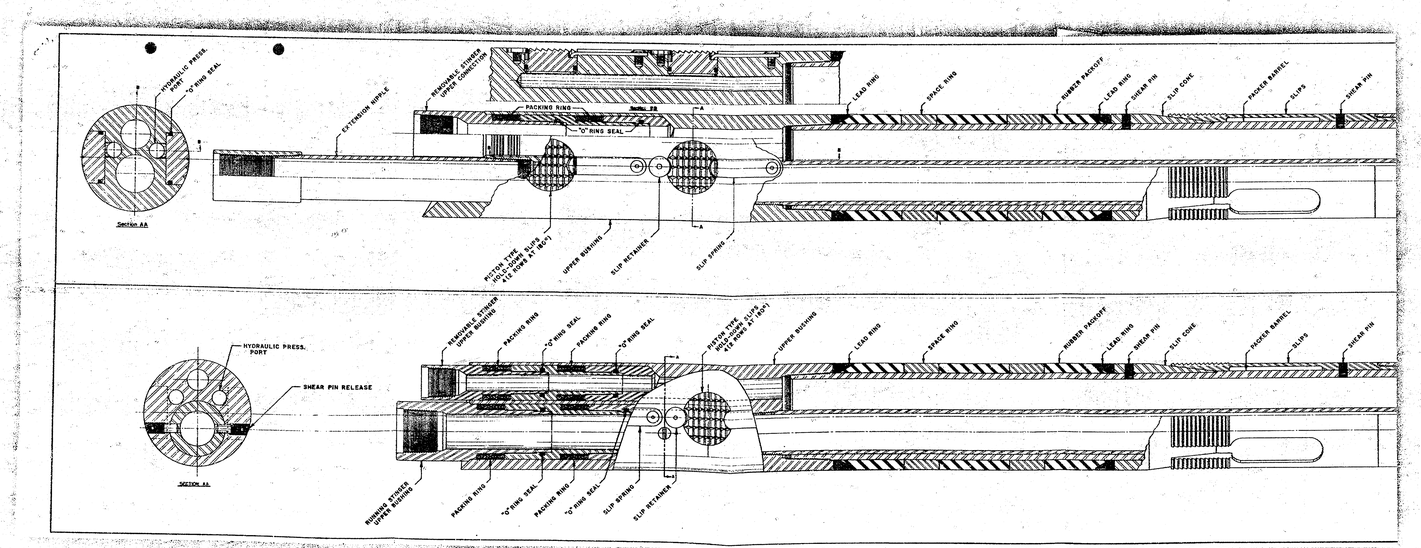


W.N.W.C.F. MICROGRAPHICS

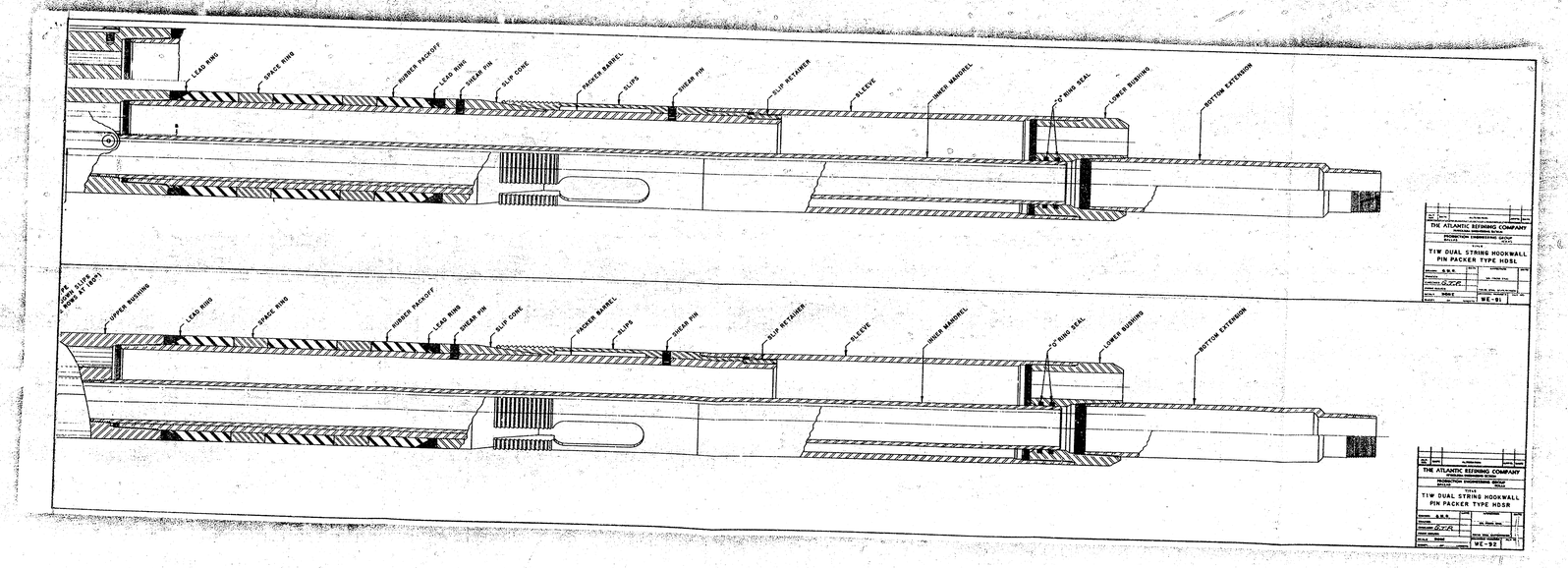
BEST AVAILABLE COPY



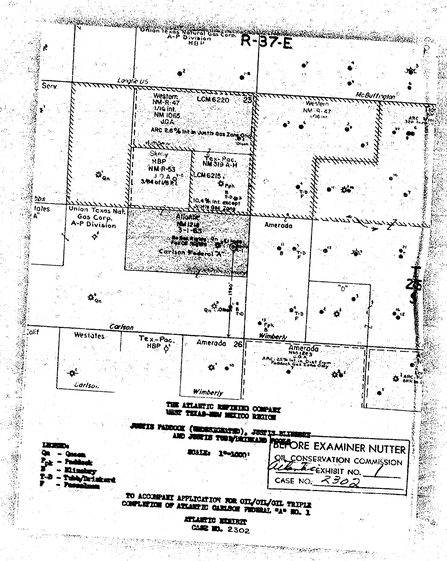
W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



V.K.N.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



U.S.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



N.M.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

SCHLUMBERGER · GAMMA RAY · NEUTRON

COUNTY LEA
FIELD or POOL JUSTIS
WELL CARLSON FED. #1
COMPANY ATLANTIC REF. CO.

COMPANY THE ATLANTIC REFINING CO.

WELL CARLSON FEDERAL "A" #1

FIELD JUSTIS

COUNTY LEA STATE NEW MEXICO

Location: 1980' FSL, 330' FEL — Other Services: CBL

Sec. 23 Twp. 25 S Rge. 37E

Permanent Datum: GROUND LEVEL Elev.: 3079 — Elev.: K.B. 3091, D.F. 3090, G.L. 3079

Log Measured From KB 11.5Ft. Above Perm. Datum

Drilling Measured From KB

Date	5-15-61	
Run No.	1	
Type Log	GRN	
Depth—Driller	6014	
Depth—Logger	6014	
Bottom logged interval	6013	
Top logged interval	100	
Type fluid in hole	OIL	
Salinity, PPM Cl		
Density		
Level	FLT	
Max rec. temp., deg F.	106	
Operating rig time	4 HRS.	
Recorded by	CUNNINGHAM	
Witnessed by	ALLEN	

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 2302

RUN No.	BIT	BORE-HOLE RECORD From	To	CASING RECORD Size	Wgt.	From	To
1	8 3/4	906	6046	8 5/8	32 #/	SURF	906
				7"	23#	SURF	6046

ATLANTIC EXHIBIT
CASE NO 2302

EQUIPMENT DATA

Gamma Ray
Run No. 1
Tool Model No. GRT-S
Tool Serial No. 5077
Detector Model No. SCINT.
Type —
Length 90"
Dist. to N. Source —

Neutron
Run No. 1
Tool Model No. GNT-S
Tool Serial No. 5077
Detector Model No. N-1-5
Type —
Length 60"
Source Model No. 95-S
Source Serial No. 1-5
Spacing 16.5"
Strength 100 MC Ra-Be

General
Hole Track No. 1240
Logging Truck No. GNT4-58

Centered
Run No. 1
Depth Recorder 100
Depth Logger 6007

LOGGING DATA

Gamma Rays (A1-150')

Run No.	Sens. Setting	T.C. Sec.	Speed Ft./Min.	Sec. Log Div.
1	150	2	30	5

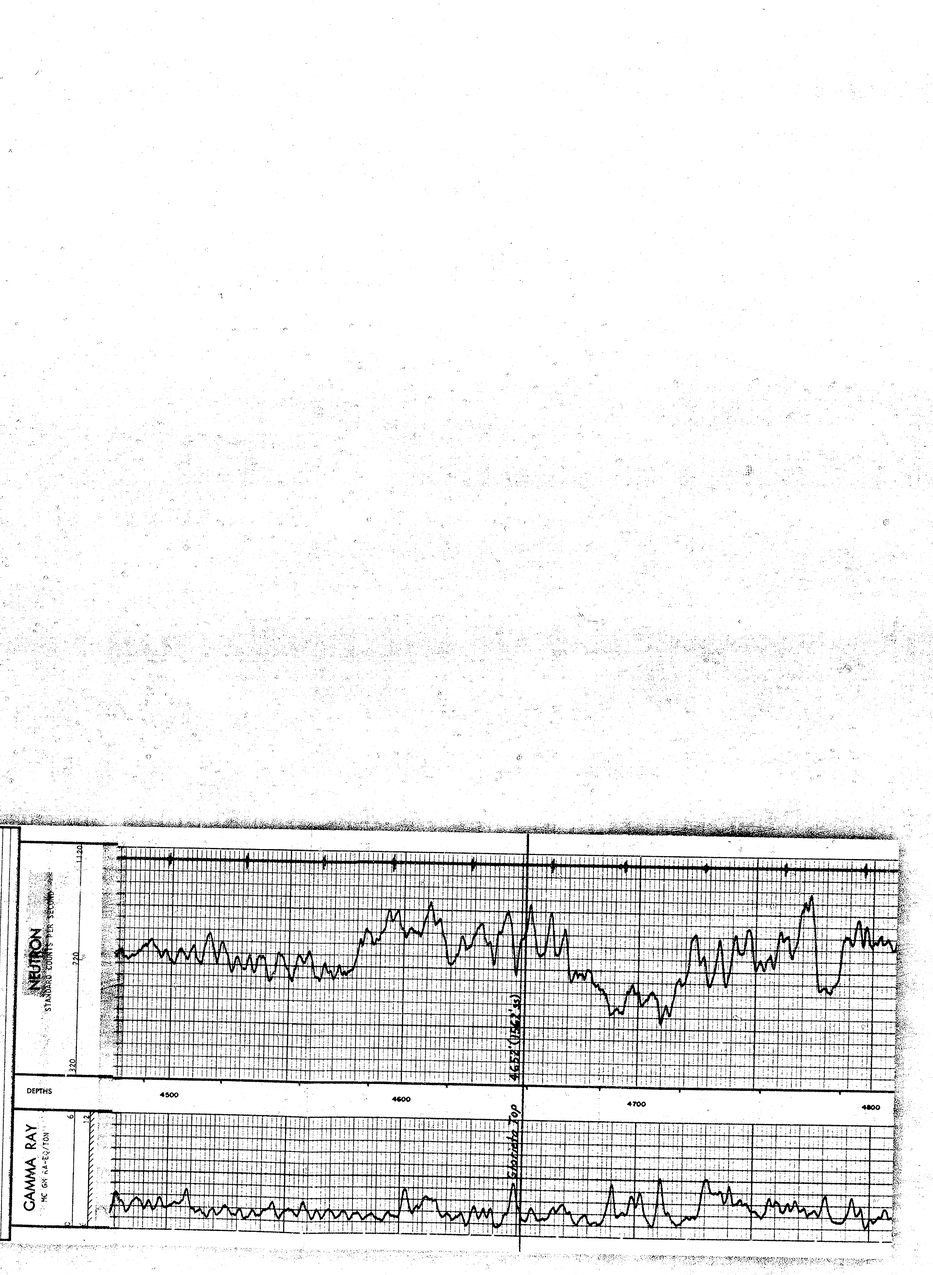
Neutron

Run No.	Sens. Setting	T.C. Sec.	Speed Ft./Min.	Sec. Log Div.
1	200	1	30	5

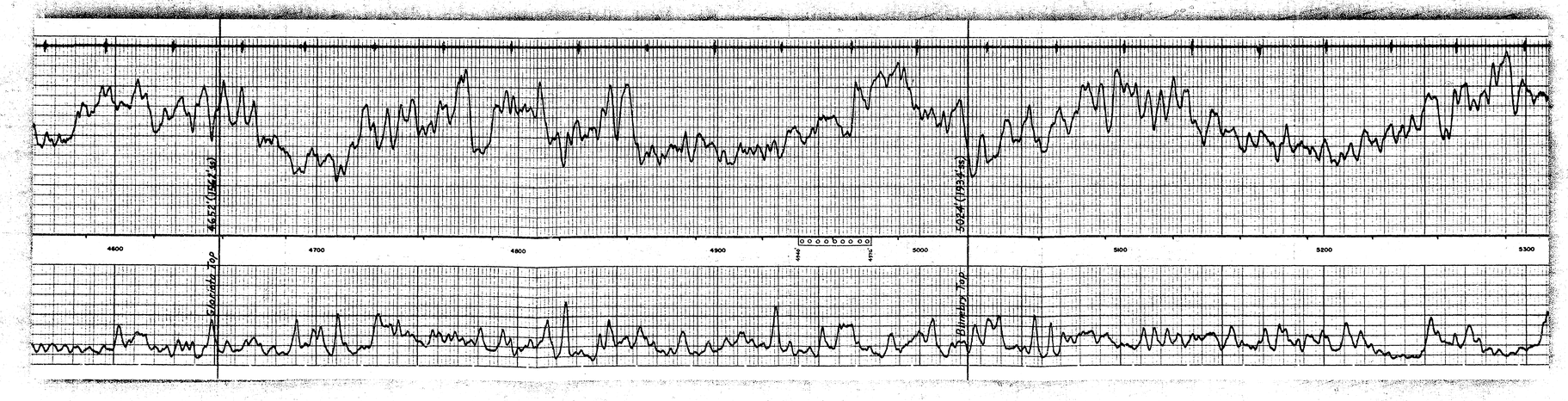
Reference Elevations

Permanent Datum	GL	3079
Log Measured From	KB	11.5 Ft. Above Perm. Datum
Drilling Measured From	KB	

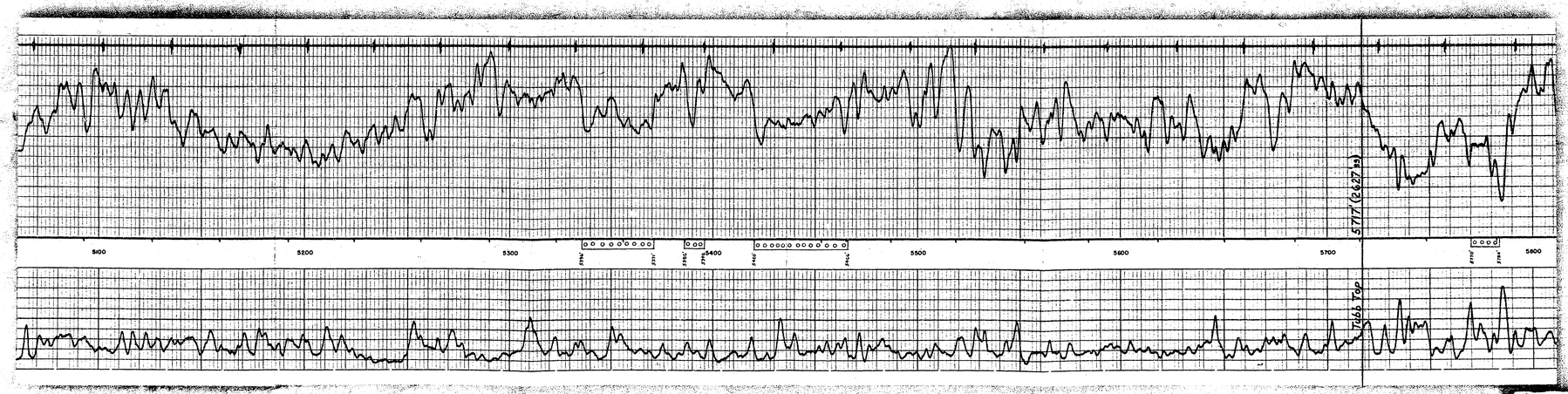
Remarks: RUN 1 — 5½" CSG @ 6046 W/ 150 SXS. 2ND STAGE W/ 350 SXS. 7" CSG @ 5985' W/ 175 SXS.



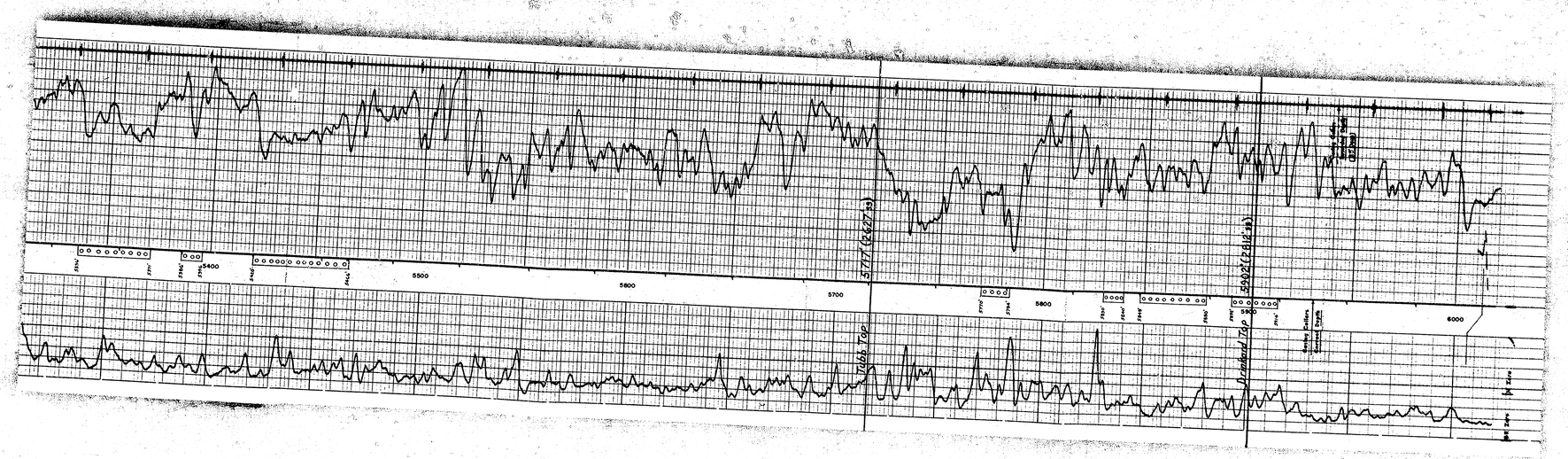
V.S.H.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



N.M.H.G.F. MICROGRAPHICS
BEST AVAILABLE COPY

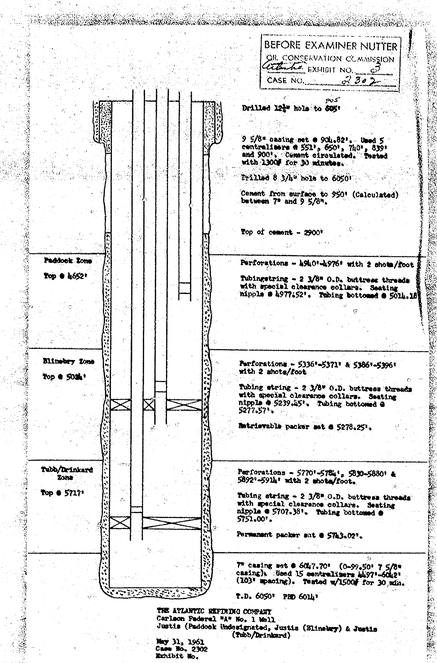


U.S.N.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



U.S.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
CASE NO. 2302



Drilled 12¼" hole to 605'

9 5/8" casing set @ 903.82'. Used 5 centralizers @ 553', 660', 715', 839' and 900'. Cement circulated. Tested with 1300# for 30 minutes.

Drilled 8 3/4" hole to 6050'

Cement from surface to 950' (Calculated) between 7" and 9 5/8".

Top of cement - 2900'

Paddock Zone
Top @ 4652'

Perforations - 4940'-4976' with 2 shots/foot

Tubingstring - 2 3/8" O.D. buttress threads with special clearance collars. Seating nipple @ 4977.52'. Tubing bottomed @ 5011.18'

Blinebry Zone
Top @ 5048'

Perforations - 5336'-5371' & 5386'-5396' with 2 shots/foot

Tubing string - 2 3/8" O.D. buttress threads with special clearance collars. Seating nipple @ 5239.45'. Tubing bottomed @ 5277.57'.

Retrievable packer set @ 5278.25'.

Tubb/Drinkard Zone
Top @ 5717'

Perforations - 5770'-5784', 5830-5880' & 5892'-5914' with 2 shots/foot.

Tubing string - 2 3/8" O.D. buttress threads with special clearance collars. Seating nipple @ 5707.38'. Tubing bottomed @ 5751.00'.

Permanent packer set @ 5743.02'.

7" casing set @ 6047.70' (0-3945' 7 5/8" casing). Used 15 centralizers 4977-6047' (103' spacing). Tested w/1500# for 30 min.

T.D. 6050' PBD 6014'

THE ATLANTIC REFINING COMPANY
Carlson Federal "A" No. 1 Well
Justis (Paddock Undesignated, Justis (Blinebry) & Justis (Tubb/Drinkard)

May 31, 1961
Case No. 2302
Exhibit No.

N.M.O.C.C. MICROGRAPHICS
BEST AVAILABLE COPY

SCHLUMBERGER

CEMENT BOND LOG

COMPANY THE ATLANTIC REFINING CO.

WELL CARLSON FEDERAL "A" #1

FIELD JUSTIS

COUNTY LEA STATE NEW MEXICO

LOCATION 1980' FSL, 330' FEL

Sec. 23 Twp. 25S Rge. 37E

Other Services: GRN

Permanent Datum: GROUND LEVEL Elev. 3079 — Elev.: K.B. 3091

Log Measured From KB 12.0 Ft. Above Perm. Datum — D.F. 3090

Drilling Measured From KB — G.L. 3079

Date	5-15-61	Type Fluid in Hole	OIL
Run No.	ONE	Dens. | Visc.	
Depth—Driller	6014	Max. Rec. Temp.	105 °F
Depth—Logger	6013	Est. Cement Top	2500
Btm. Log Interval	6006	Equip. Location	1560 | KERMIT
Top Log Interval	2500	Recorded By	CUNNINGHAM
Open Hole Size	8 3/4"	Witnessed By	EVANS

CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String	13 3/8	32.3	H-40		SURF.	906
Prod. String	7"	23	J-55	SHORT & LONG	SURF.	6046
Liner						

PRIMARY CEMENTING DATA

STRING	Production			
Vol. of cement	3006 FT³			
Type of cement	INCOR WITH 40% DIACEL D			
Additives	CACL			
Additive by %	2			
Retarder				
Retarder by %				
Wt. of slurry	11.0			
Water loss				
Drill. mud type	SALT GEL, OIL EMULSION			
Drilling mud wt.	10.0			

ATLANTIC EXHIBIT
CASE NO 2302

LINER NUTTER
Run 1 Carlson Fed. "A" #1
5-15-61

Time Elapsed: 24 Hrs. / 48 Hrs.

COMPRESSIVE STRENGTH (psi) (Lining Tests): Liner / Production / Protective / Surface

PRIMARY CEMENTING PROCEDURE

	Hours from start of operation	Volume	Rate
Started pumping cement	2000 5-12-61		
Finished pumping cement	2100 5-12-61	1000	7
Plug on bottom	1401 5-15-61		
Start Cement Bond Log	1600 5-15-61		60
Preceding fluid	2000 5-15-61	500	3 bbls.
Returns: Yes X Partial No			

Pipe reciprocated during Pumping: Yes X No
Pipe reciprocated after plug down: Yes No X

SQUEEZE JOB DETAIL

Squeeze number	1	2	3	4
Depth interval				
Volume of cement				
Additive by %				
Retarder by %				
Weight of slurry				
Vol. preceding fluid				
Max. pressure used				
Time cement pressured				
Time cement released				
Pumping stopped				
Time pressure bled off				
Start Circ.				
Finish Circ.				

Pressure held at: Surface ____ Bottom Hole ____

Equipment Data

Type standoff CENTRALIZER — Centralizer Placement: ON BOTTOM JT. FOR 1ST, FOR 10 CENTRALIZER

Basic Mat. No. 35-7000 — Scratcher Placement: 1 CENT/4 JOINTS FROM THERE UP.

Spacing 5'CT-2300

Centralizer Depths: 6006 TO TD

Scratcher Depths: NONE

SEQUENCE OF CEMENT BOND LOG — AVERAGE WELL DRIFT

Log run following: CSG. RUN:

Surface casing cement	ONE	2	from 0	to 4300
Intermediate casing cement		4	from 4300	to 4600
Production casing cement		3	from 4600	to T.D.
Liner cement				
1st	2			
2nd	2			

REMARKS: 1160 FT. LEFT IN PIPE, DRILLED OUT FROM 906-CEMT. PRIOR TO CBL RUN #1. *FILL RETURNS TILL 600 SACKS HAD BEEN MIXED. ALL TIMES ARE EST.

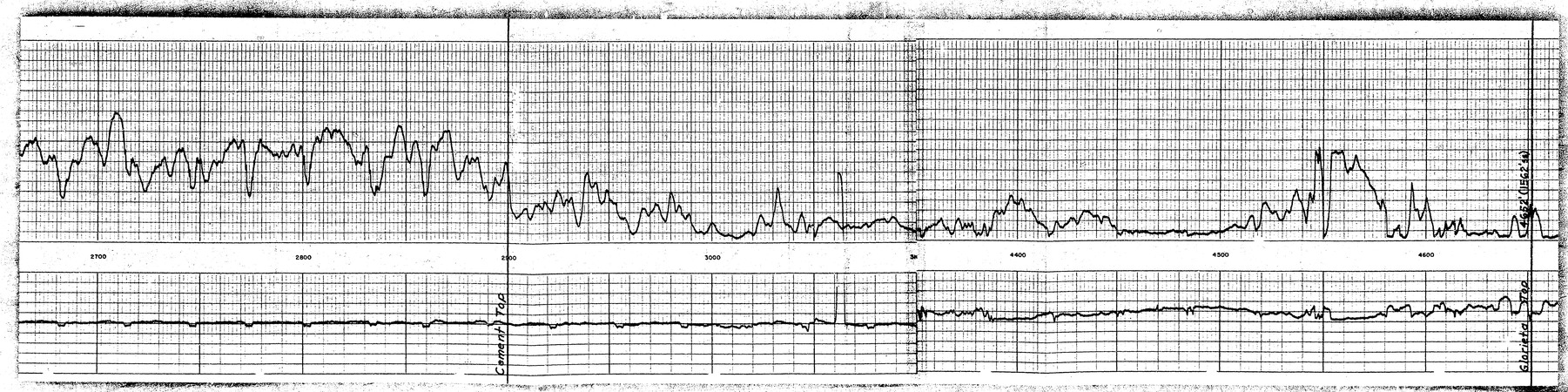
BOND LOG
millivolts
BONDING INCREASES
0 40

DEPTHS
2700 2800 2900

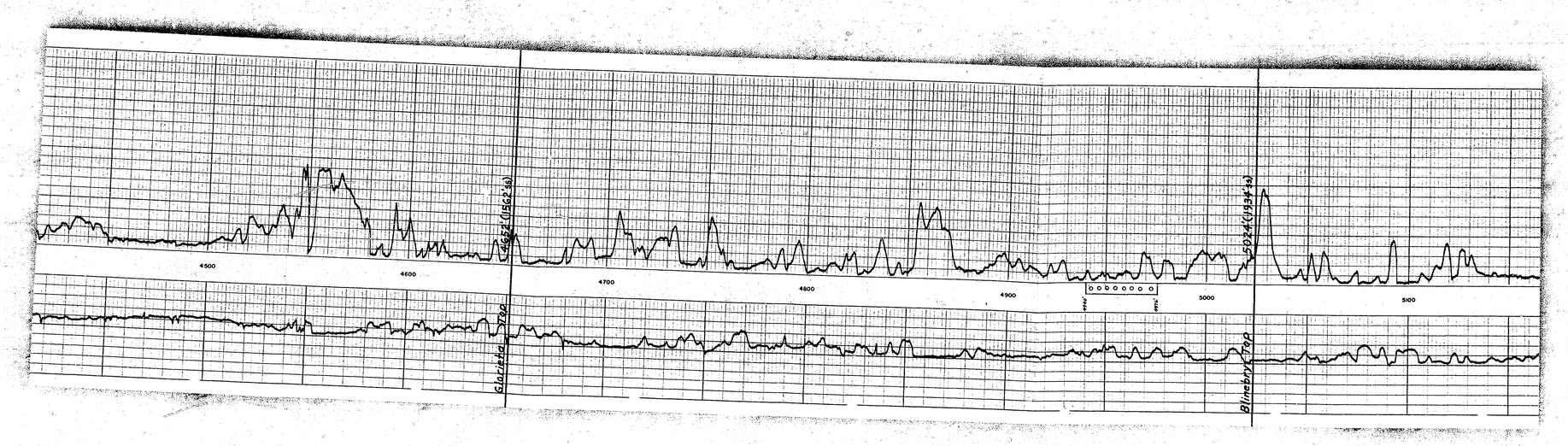
SINGLE RECEIVER
Δt in microseconds
400 200

Cement Top

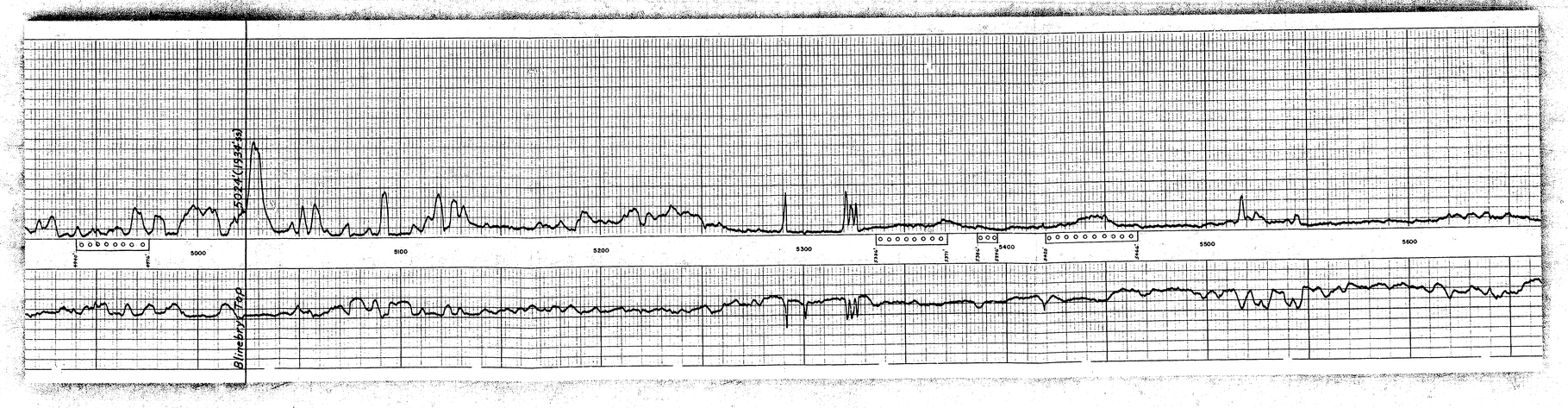
N.M.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



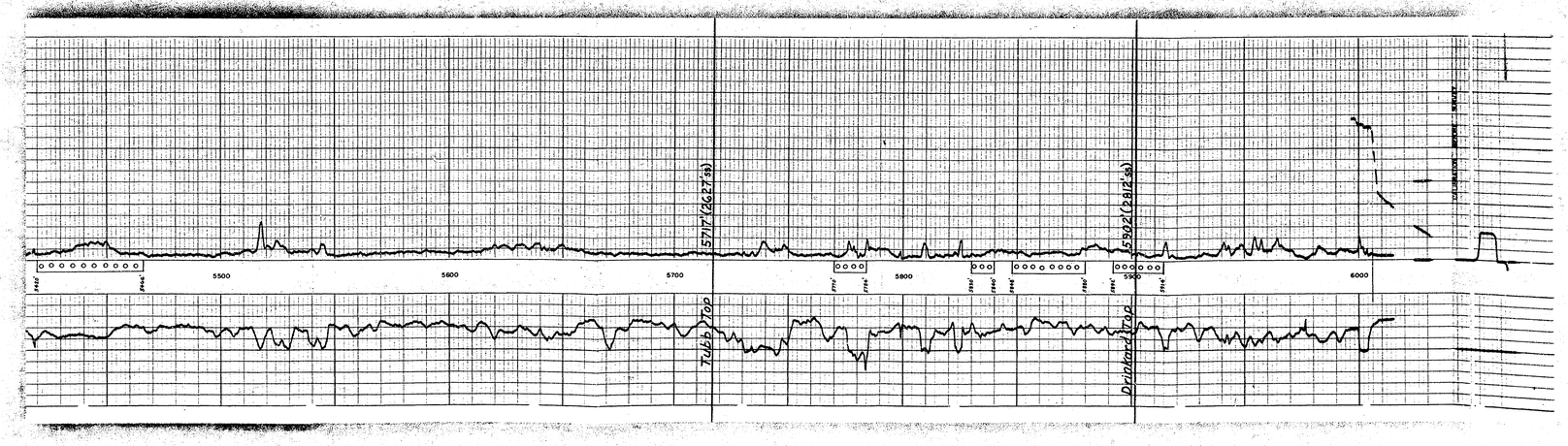
W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



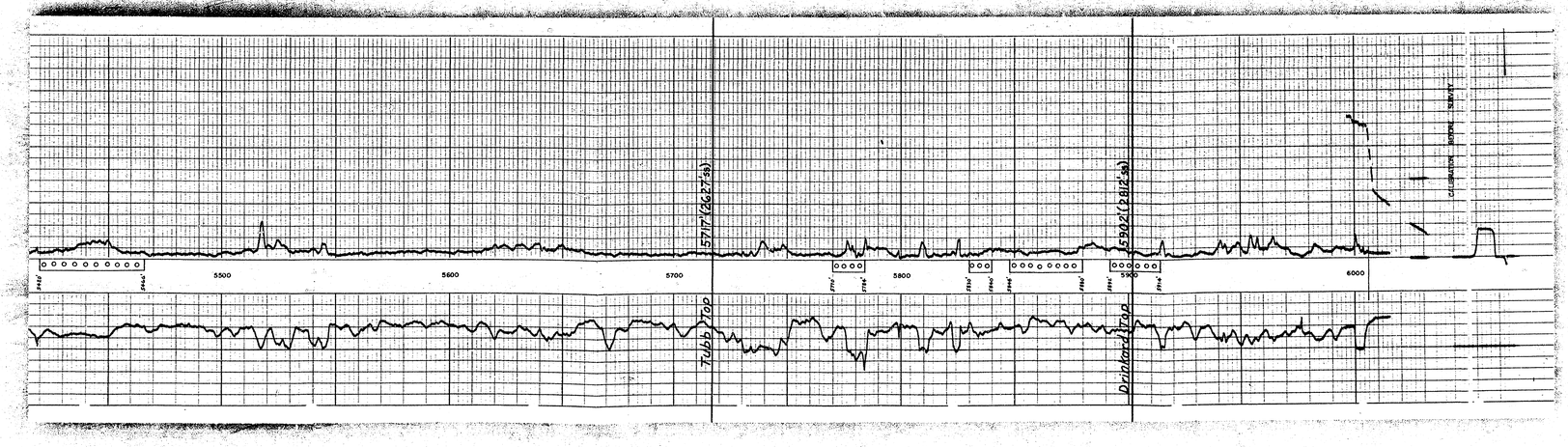
V.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



W.V.N.G.F. MICROGRAPHICS
BEST AVAILABLE COPY



W.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

T.I.W. TYPE [redacted] DUAL STRING
PIN PACKER

