Case No.

7658

Large Exhibits

FORM 925296 Rev. (04-81)

OCD Copy

Dresser Atlas

DRESSER

Dual Laterolog
Micro Laterolog
Gamma Ray

R

FILE NO.

API NO.

Marked OCD copy

COMPANY HARVEY E. YATES COMPANY
WELL SEYMOUR STATE COM NO. 1
FIELD WILDCAT
COUNTY CHAVES STATE NEW MEXICO
LOCATION: 1980'FNL & 660'FWL
SEC 18 TWP 9-S RGE 27-E

Other Services: CN/CDL/GR

Permanent Datum GROUND LEVEL Elev. 3811.8
Log Measured from K. B. 10 Ft. Above Permanent Datum
Drilling Measured from K. B.

Elev.: KB 3821.8
DF
GL 3811.8

Date	3-16-82			
Run No.	ONE			
Service Order	06643			
Depth — Driller	6385			
Depth — Logger	6357			
Bottom Logged Interval	6354			
Top Logged Interval	1531			
Casing — Driller	8 5/8 @ 1525			
Casing — Logger	1521			
Bit Size	7 7/8"			
Type Fluid in Hole	SALT GEL			
Density and Viscosity	9.9 | 58			
pH and Fluid Loss	7 | 12 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.067 @ 60 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.059 @ 60 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	MEAS.			
Rm @ BHT	.032 @127 °F	@ °F	@ °F	@ °F
Time Since Circ.	6 HOURS			
Max. Rec. Temp. Deg. F.	127 °F	°F	°F	°F
Equip. No. and Location	6316 ROSWELL			
Recorded By	HERRON			
Witnessed By:	THOMPSON			

BEFORE EXAMINER
OIL CONSERVATION DIVISION
Applicant EXHIBIT NO. 1-h
CASE NO. 7658
SUBMITTED BY HEYCO
HEARING DATE Aug 26, 1982

FOLD HERE

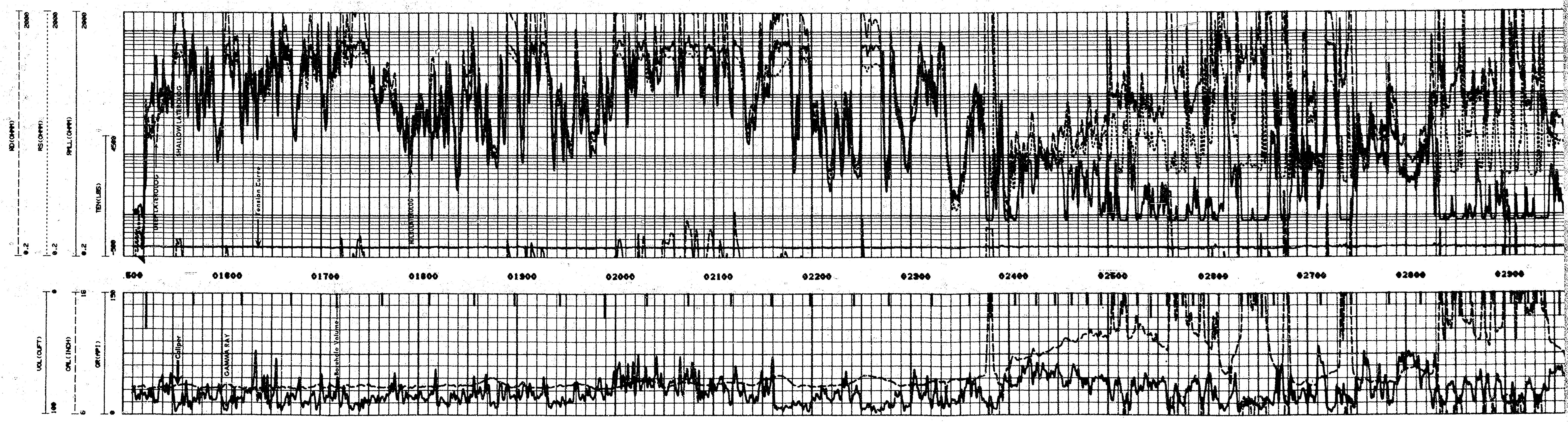
Remarks: BOREHOLE VOLUME RECORDED IN PIP FORM AND CORRECTED FOR 5 1/2" CASING. LARGE PIPS=100 CU FT. SMALL PIPS=10 CU FT.

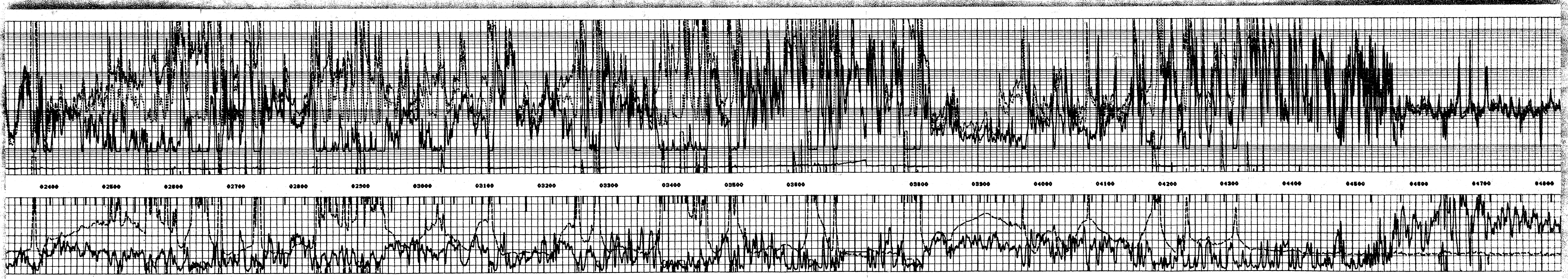
EQUIPMENT DATA

	RUN NO. 1			RUN NO. 2			RUN NO. 3		
	DLL	MLL	GR	DLL	MLL	GR	DLL	MLL	GR
Tool Series No.	1229	2104	1308						
Elec. Serial No.	49177	22690	▨			▨			▨
Man. Serial No.	43991	43991	▨			▨			▨
DTS Series No.	3502	3502	▨			▨			▨
Serial No.	-	-							
Detect. Model No.	▨	▨	D7G3	▨	▨		▨	▨	
Type	▨	▨	SCINT.	▨	▨		▨	▨	
Tool Position	CENT.	OPEN	CENT.						
Panel Series No.	3752	3752	3752						
Serial No.	50530	50530	50530						

LOGGING DATA

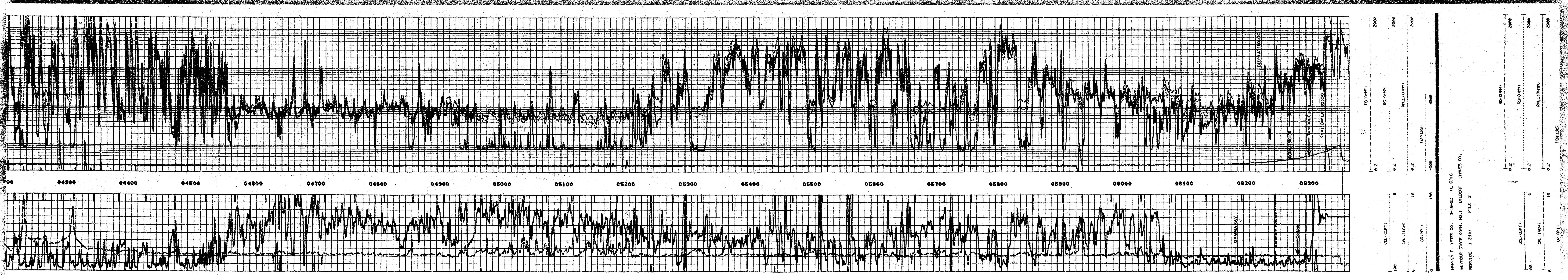
GENERAL				GAMMA RAY				DLL	MLL	CDP			CALIPER
Run No.	Depths From	Depths To	Speed (Ft./Min.)	T.C. (Sec.)	Sens. (Settings)	Zero (Div. L or R)	API (Units/Div)	Scale	Scale	Rw	Rmf	Porosity Scale	Scale
1	6354	1521	REC.	VAR	-	0	15	.2-2K	.2-2K	-	-	-	6-16



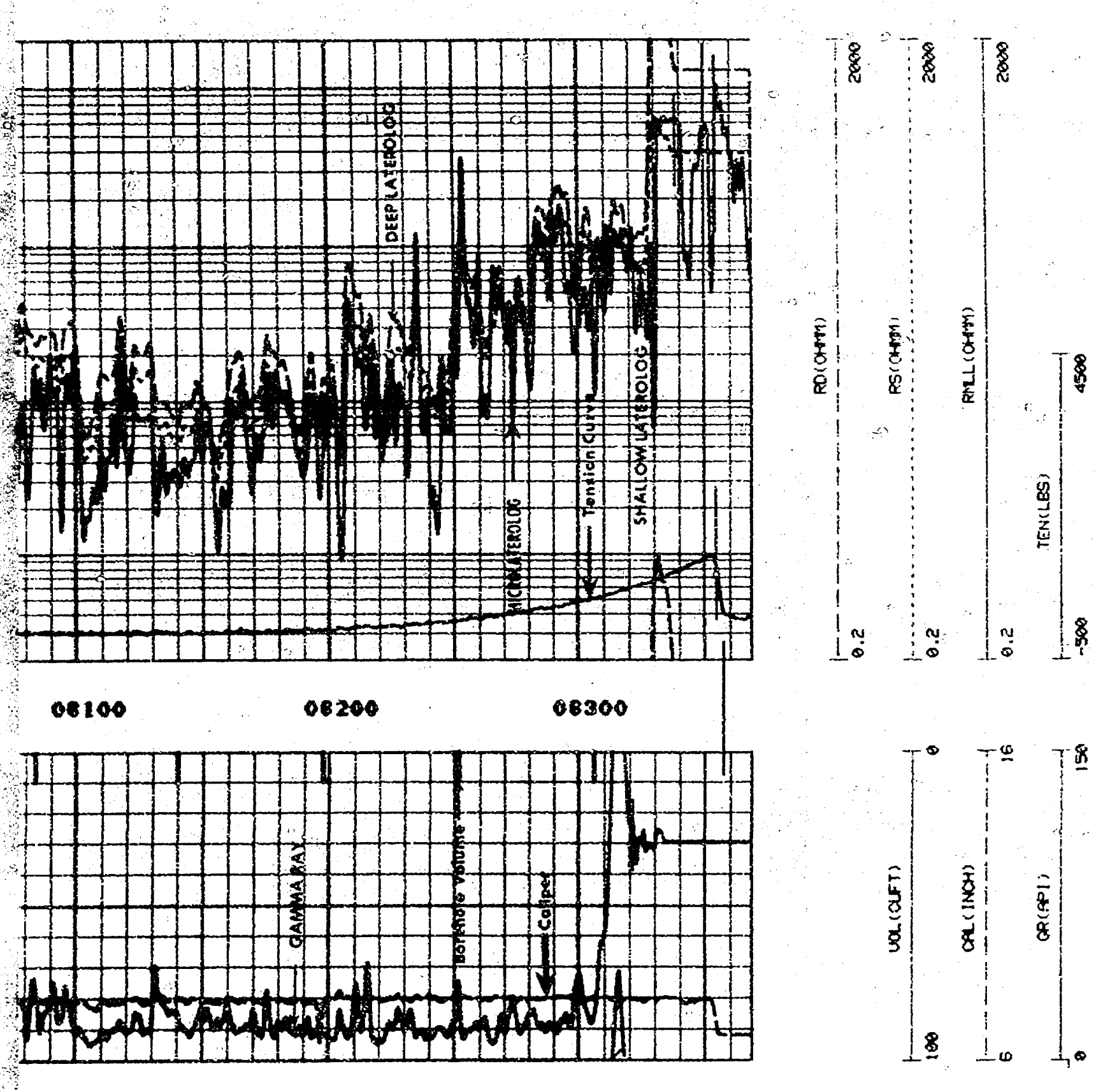


W.M.R.C.F. MICROGRAPHICS

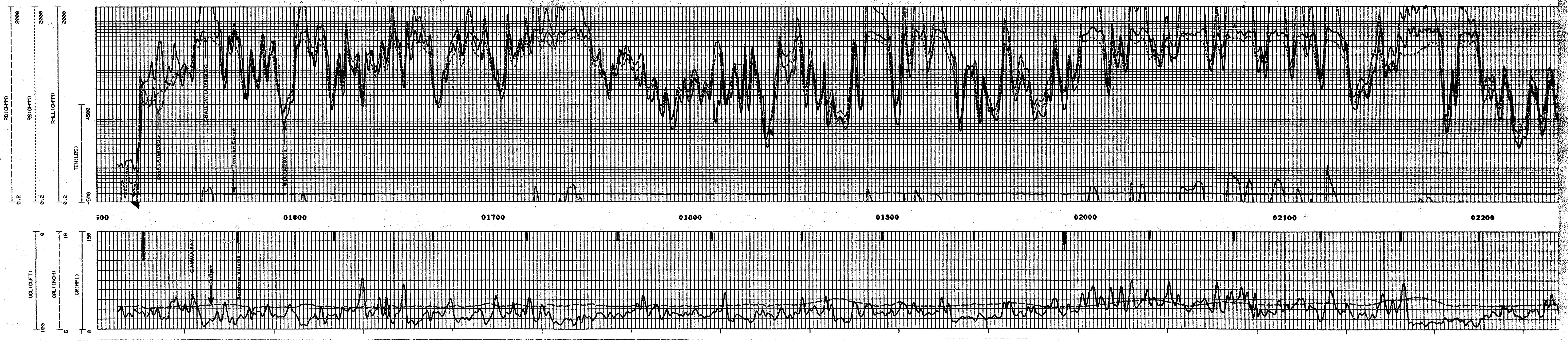
BEST AVAILABLE COPY

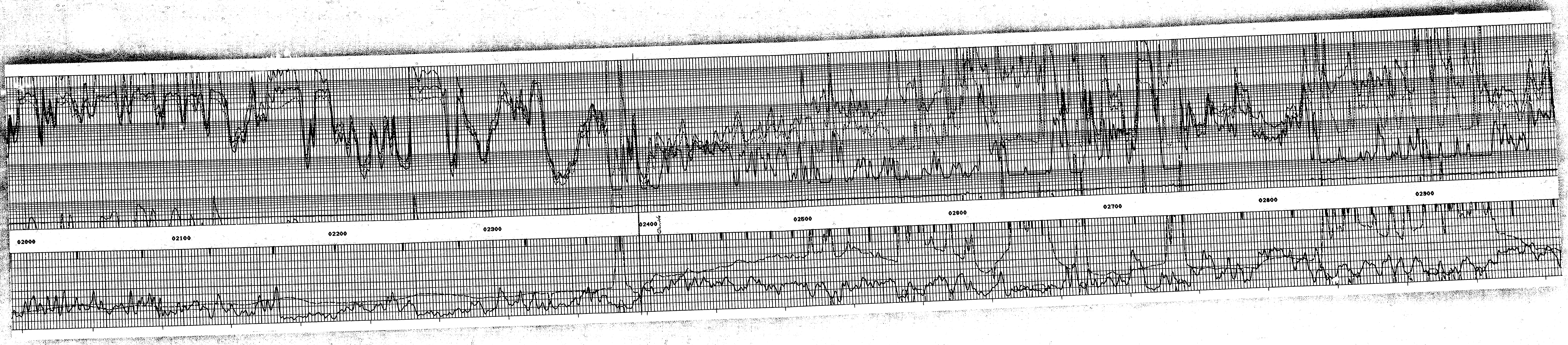


HARVEY E. YATES CO. 3-16-82 HL 6316
SEYMOUR STATE COMM. NO.1 WILDCAT CHAVES CO.
SERVICE J 2310 FILE 3



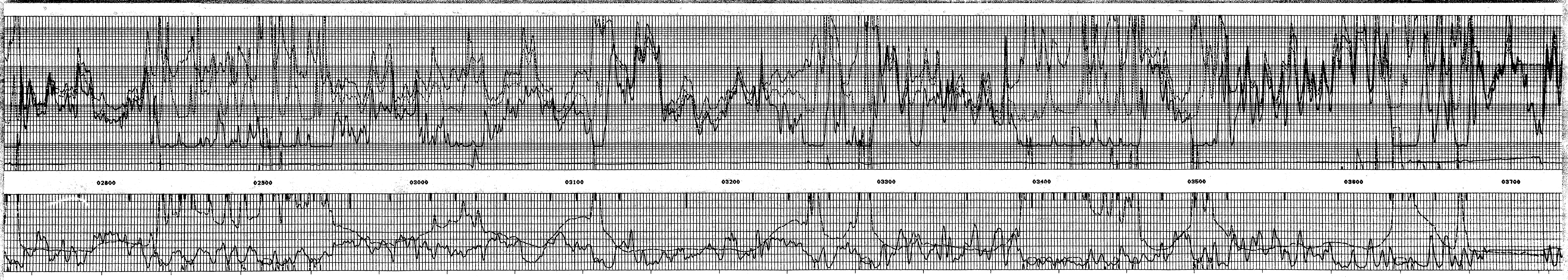
HARVEY E. YATES CO.   3-16-82   HL 6316
SEYMOUR STATE COMM. NO.1   WILDCAT   CHAVES CO.
SERVICE   J 251U   FILE 3





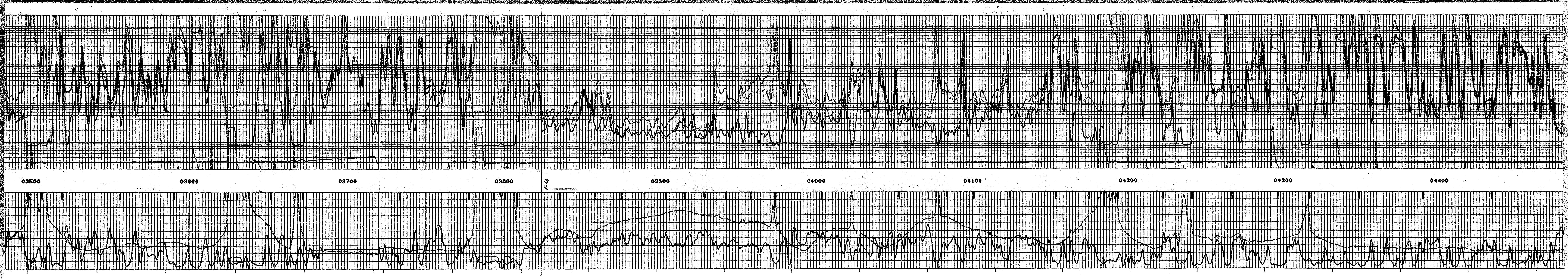
W.E.M.C.F. MICROGRAPHICS

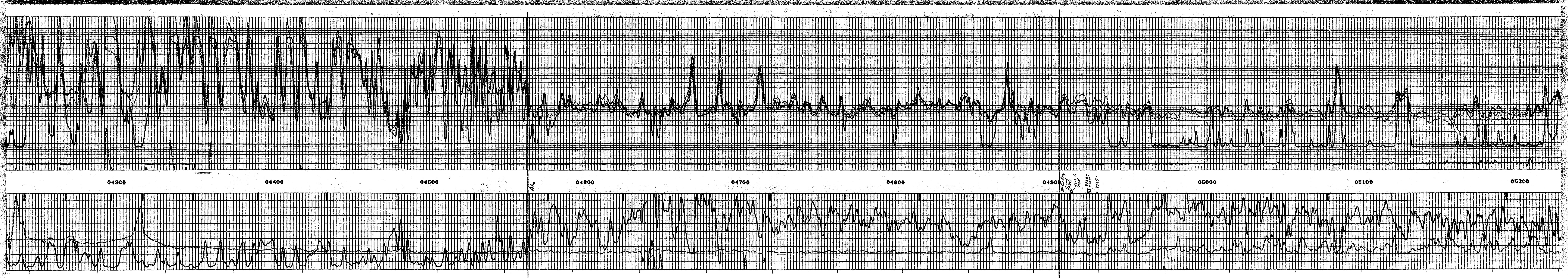
BEST AVAILABLE COPY



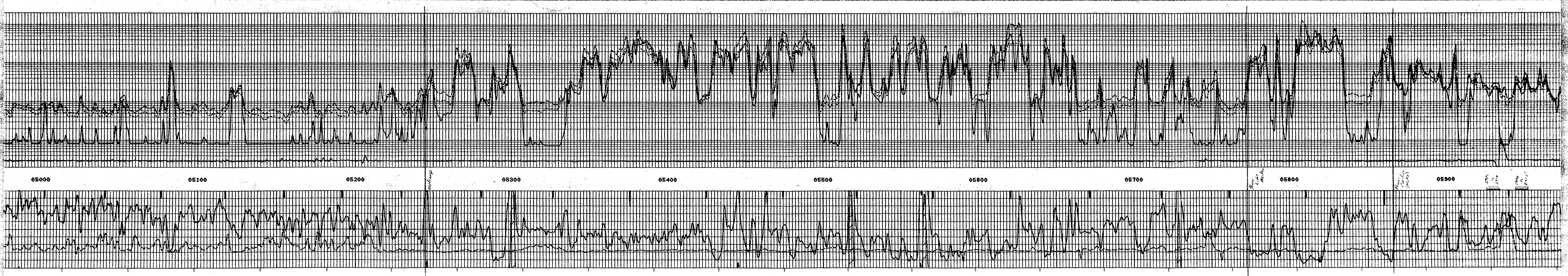
W.M.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY


03500
03600
03700
03800
03900
04000
04100
04200
04300
04400

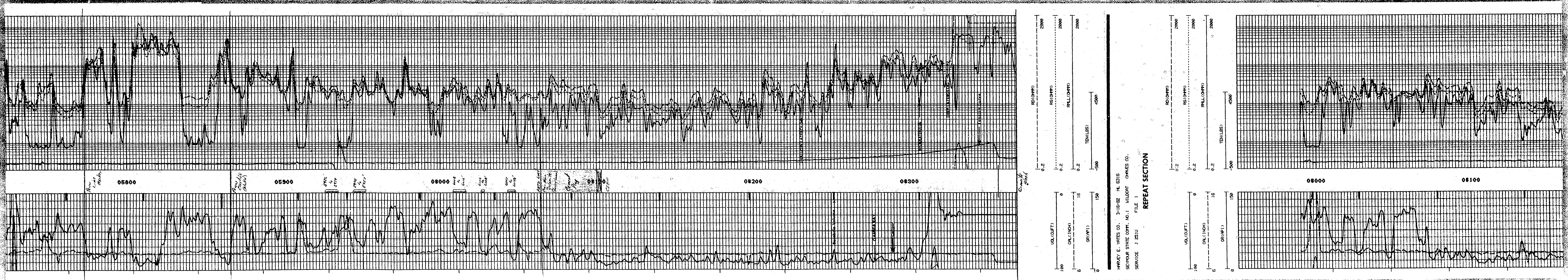


V.R.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



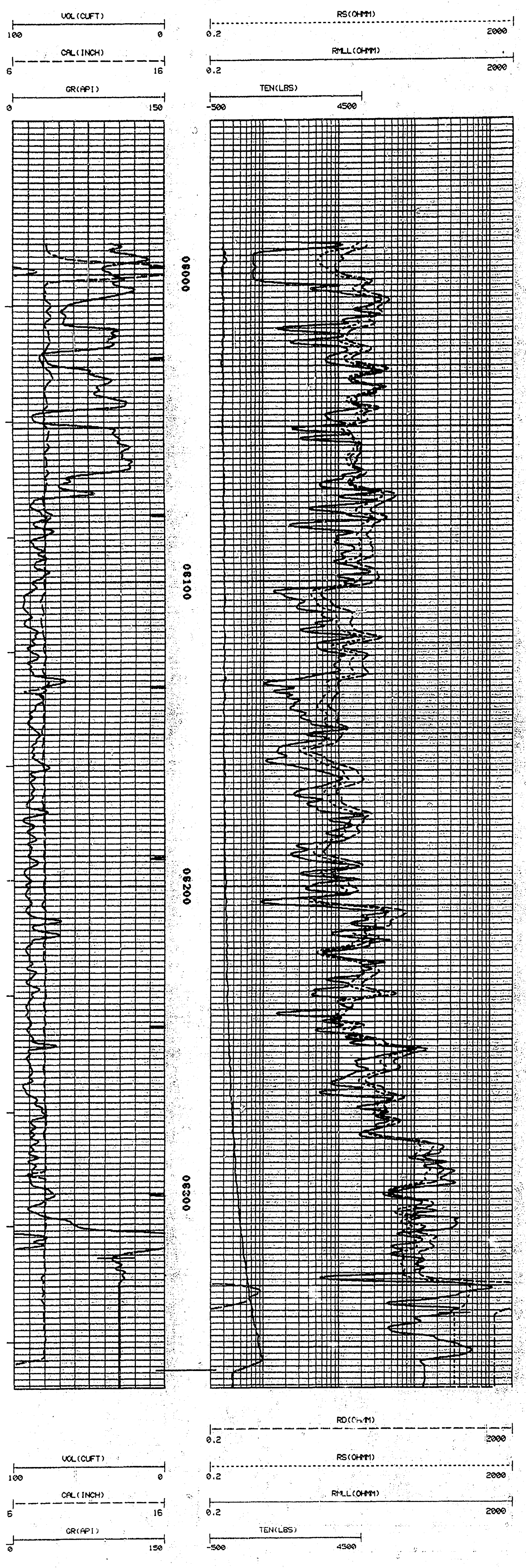
W.N.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



HARVEY E. YATES CO. 3-16-82 HL 6316
SEYMOUR STATE COMM. NO.1 WILDCAT CHAVES CO.
SERVICE J 231U FILE 1

REPEAT SECTION



BEFORE LOG CALIBRATION SUMMARY

CURVE	MILLIVOLTS		COUNTS/SEC.		SCALING FACTORS		RATIO
	LOW	HIGH	LOW	HIGH	ADD.	MULT.	
ES	533.6	3118.3			0.0	1.000	
IS	1246.7	86.4			0.0	1.000	
ED	546.3	3364.3			0.0	1.000	
ID	847.3	54.7			0.0	1.000	
GR			68.	375.	0.0	0.650	
CMLL	2.7	3743.0			0.3	0.652	
CAL	2116.8	5885.1			0.9	0.018	

AFTER LOG CALIBRATION SUMMARY

CURVE	MILLIVOLTS		COUNTS/SEC.		SCALING FACTORS		RATIO
	LOW	HIGH	LOW	HIGH	ADD.	MULT.	
ES	533.6	3118.3			0.0	1.000	
IS	1246.7	86.4			2.0	1.000	
ED	546.3	3364.3			0.0	1.000	
ID	847.3	54.7			0.0	1.000	
GR			68.	375.	0.0	0.650	
CMLL	2.7	3743.0			0.2	0.587	
CAL	2116.8	5885.1			0.9	0.018	

Dresser Atlas

W.S.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

(OCD Copy)

GEO Vann

Engineered Oil and Gas Well Completions

Gamma-Ray Seismogram CEMENT BOND LOG

FILING NO.

COMPANY HEYCO, INC.

WELL SEYMOUR STATE COM. #1

FIELD WILDCAT

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 660' FWL & 1980' FNL

SEC. 18 TWP 9-S RGE 27-E

OTHER SERVICES:

PERMANENT DATUM: G L ELEV. 3811.8'

LOG MEASURED FROM K B 10 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM K B

ELEV.: K B 3821.8'

D.F. -

G.L. 3811.8'

DATE	4/1/82		
RUN NO.	ONE		
TYPE LOG	GAMMA RAY CORR	-CEMENT BOND W/	SEISMOGRAN
DEPTH—DRILLER	-		
DEPTH—LOGGER	6307'		
BOTTOM LOGGED INTERVAL	6301'		
TOP LOGGED INTERVAL	1500'		
TYPE FLUID IN HOLE	WATER		
SALINITY, PPM CL	-		
DENSITY	-		
LEVEL	FULL		
MAX. REC. TEMP. DEG F.	-		
OPERATING RIG TIME	4 HOURS		
RECORDED BY	B. CARTER		
WITNESSED BY	MR. YOUNG		

RUN	BORE—HOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				5½"	15.5#	SURF.	PBTD

BEFORE EXAMINER

OIL CONSERVATION DIVISION

Applicant's EXHIBIT NO. 1 i

CASE NO. 7658

SUBMITTED BY HEYCO

HEARING DATE Aug 26, 1982

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY		
RUN NO.	ONE	
TOOL MODEL NO.	REMCO	
DIAMETER	1 11/16"	
DETECTOR MODEL NO.	MG70	
TYPE	GEIGER	
LENGTH	18"	
DISTANCE TO N. SOURCE	-	
GENERAL		
HOIST TRUCK NO.	BIG RED	
INSTRUMENT TRUCK NO.	BIG RED	
TOOL SERIAL NO.		

NEUTRON		
RUN NO.		
LOG TYPE		
TOOL MODEL NO.		
DIAMETER		
DETECTOR MODEL NO.		
TYPE		
LENGTH		
SOURCE MODEL NO.		
SERIAL NO.		
SPACING		
TYPE		
STRENGTH		

LOGGING DATA

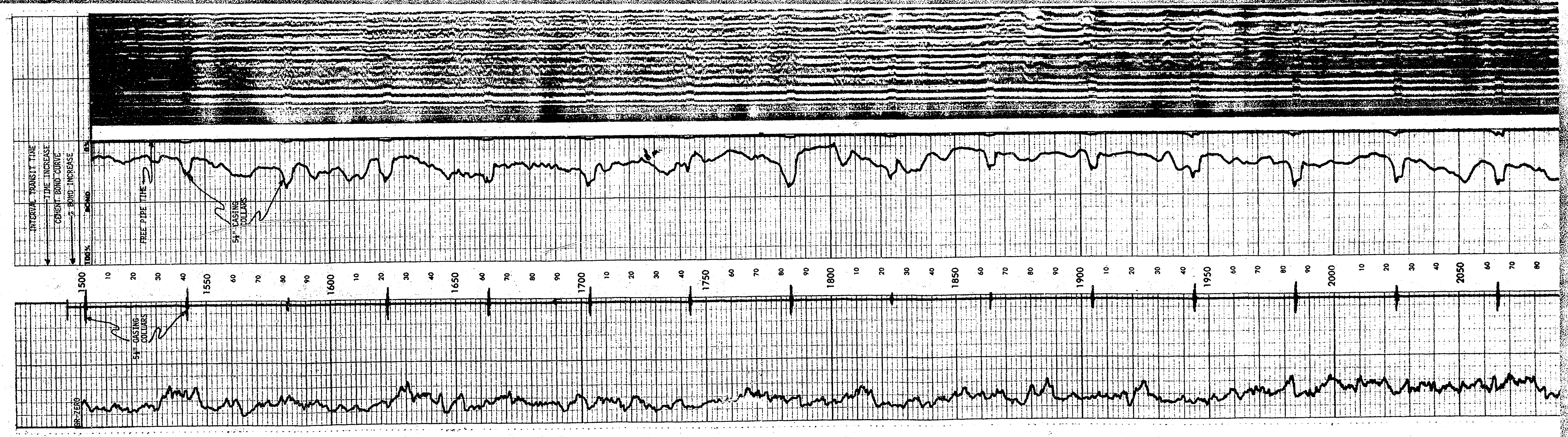
GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS. SETTING	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T.C. SEC	SENS. SETTING	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
ONE	1500'	6301'	30	3	150	0-L	-				

PEABODY VANN does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by PEABODY VANN personnel or which may appear on the log in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that PEABODY VANN is not responsible, except where due to gross negligence or willful misconduct, for any loss, damages, or expenses resulting from the use thereof.

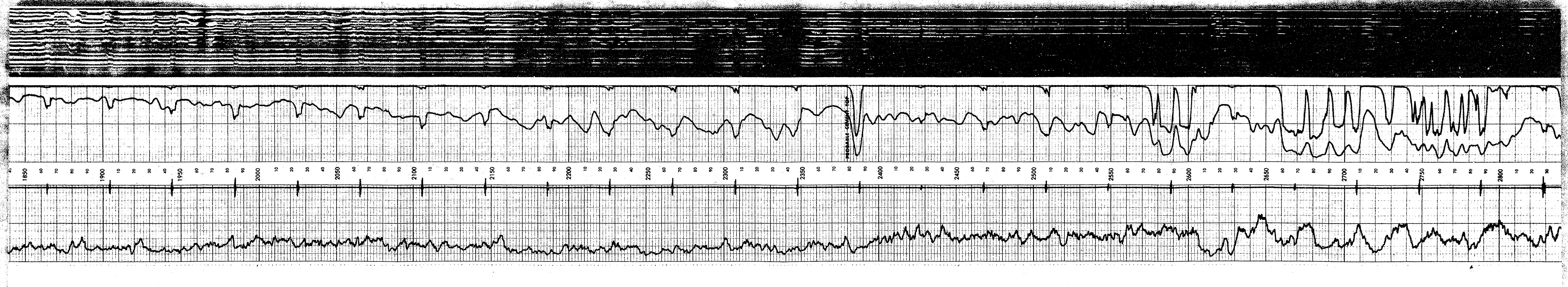
REMARKS

THIS LOG RECORDED ON DEPTH WITH RESPECT TO THE OPEN HOLE LOG.

GAMMA RAY DEPTH

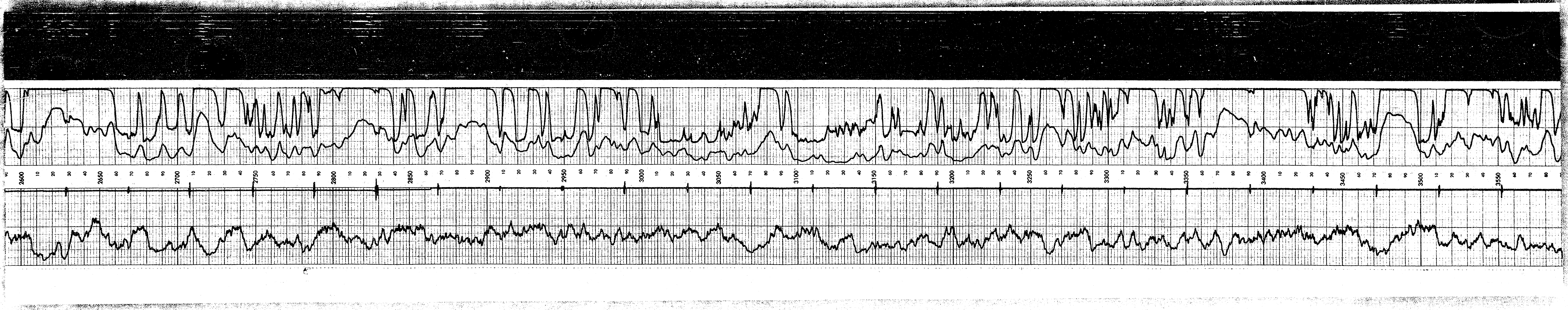


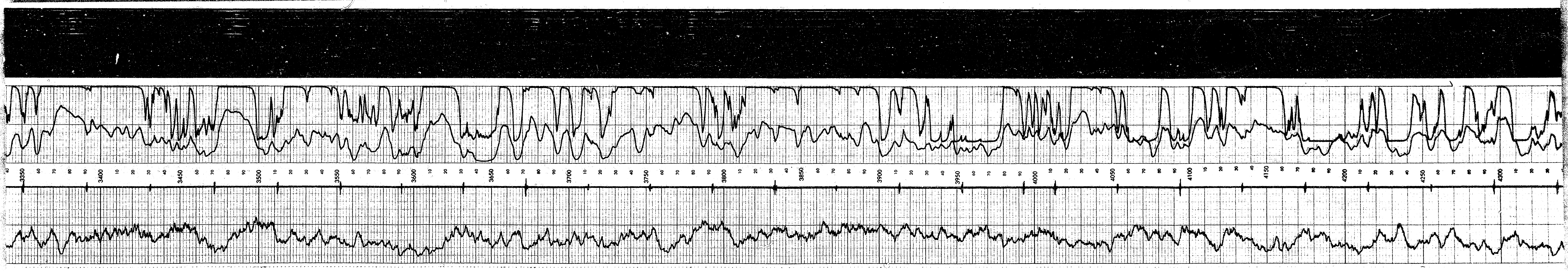
N.M.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



W.R.R.C.F. MICROGRAPHICS

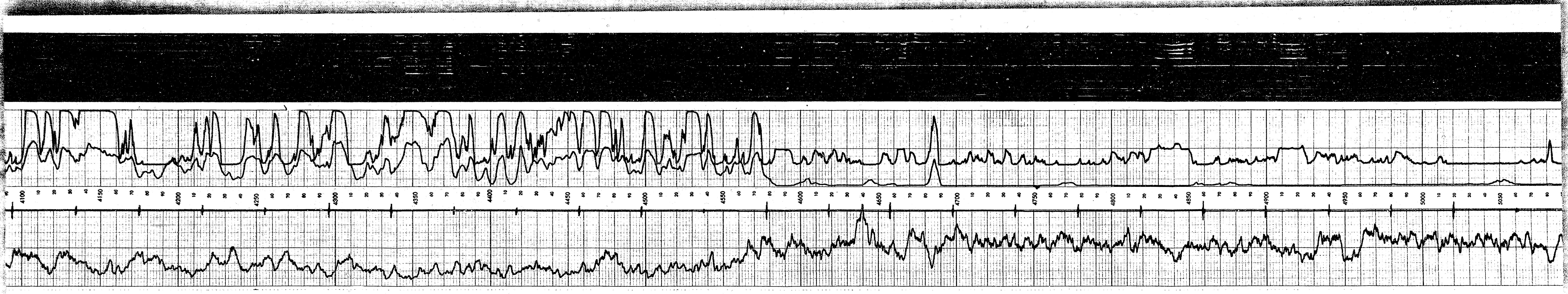
BEST AVAILABLE COPY

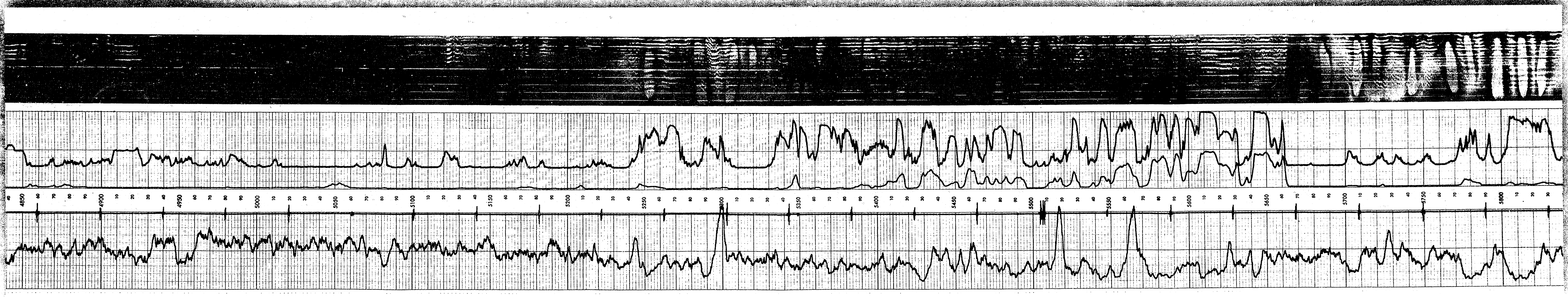

2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550



W.N.N.C.F. MICROGRAPHICS

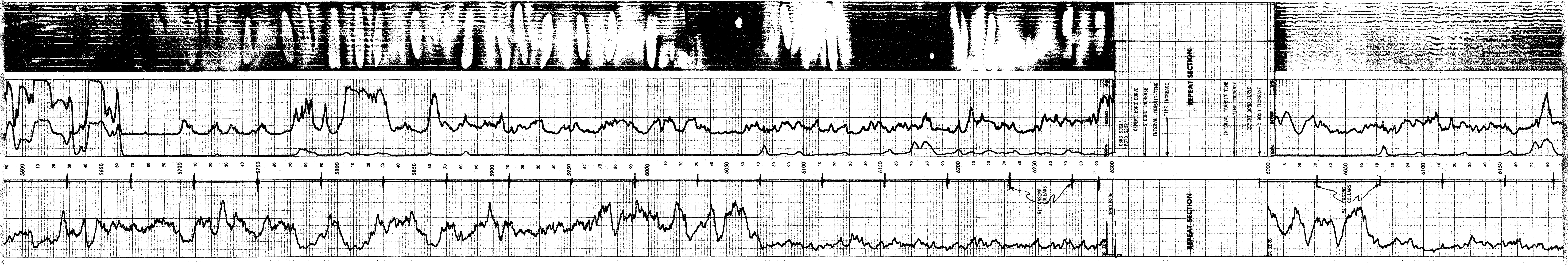
BEST AVAILABLE COPY


4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000
5050



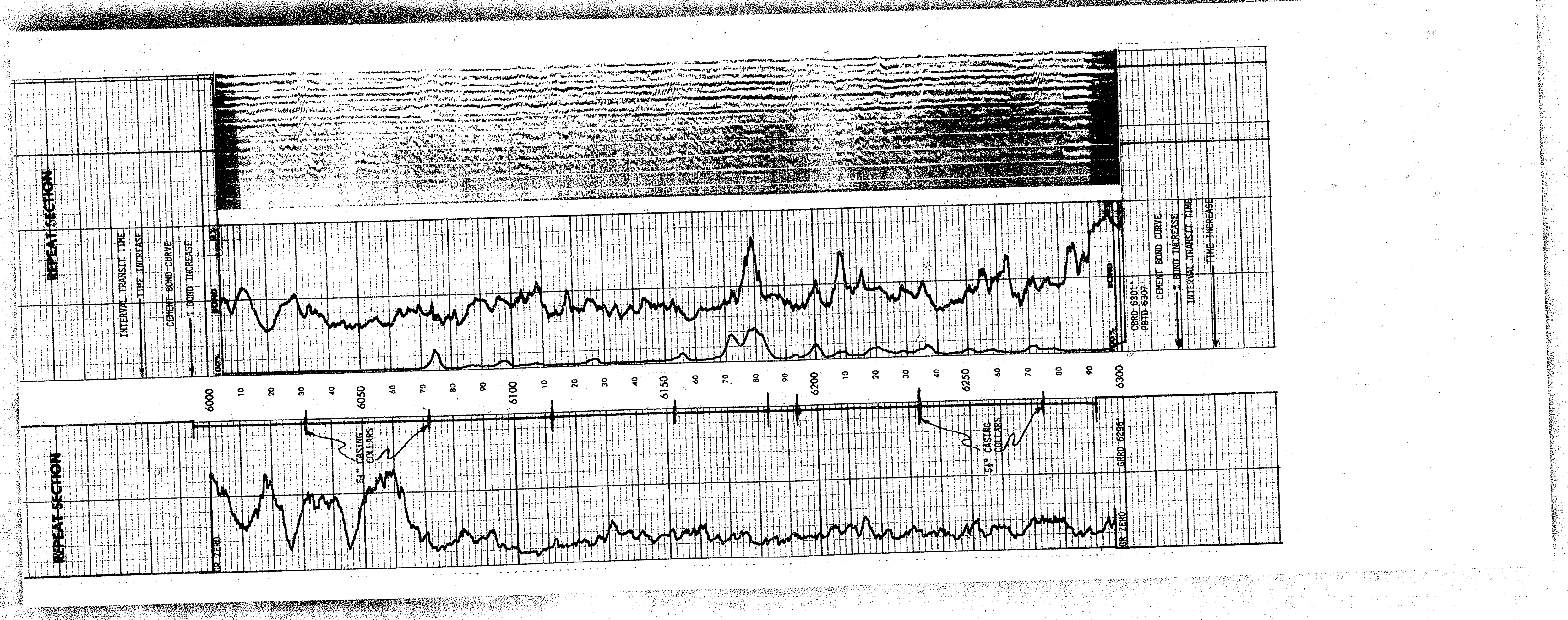
W.A.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



N.M.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY


REPEAT SECTION
INTERVAL TRANSIT TIME
TIME INCREASE
CEMENT BOND CURVE
% BOND INCREASE
BOND
100%
6000
10
20
30
40
6050
60
70
80
90
6100
10
20
30
40
6150
60
70
80
90
6200
10
20
30
40
6250
60
70
80
90
6300
5½" CASING COLLARS
GR ZERO
REPEAT SECTION
CBRD 6301'
PBTD 6307'
CEMENT BOND CURVE
% BOND INCREASE
INTERVAL TRANSIT TIME
TIME INCREASE
GRRD 6296'
5½" CASING COLLARS
GR ZERO

(OCD Copy)

WIRELINE SERVICES

TEMPERATURE
TRACER SURVEY

FILING NO. 582101 P

COMPANY HEYCO

WELL Seymoure State Com. #1

FIELD Wildcat

COUNTY Chaves STATE New Mexico

JOB NO. 68099

LOCATION 660' FWL & 1980' FNL

SEC 18 TWP 9-S RGE 27-E

OTHER SERVICES

PERMANENT DATUM Ground Level, ELEV 3811.8

LOG MEASURED FROM K.B. 10 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM Kelly Bushing

ELEV: K.B. 3821.8

D.F.

G.L. 3811.3

DATE	5-11-82	5-11-82		
RUN NO.	One	One		
TYPE LOG	Tracer	Temperature		
DEPTH—DRILLER	6307	6307		
DEPTH—LOGGER	6051	6051		
BOTTOM LOGGED INTERVAL	6048.5	6051		
TOP LOGGED INTERVAL	5700	5700		
TYPE FLUID IN HOLE	Water	Water		
SALINITY, PPM CL.				
DENSITY				
LEVEL	Full	Full		
MAX. REC. TEMP., DEG F.		113.4		
OPERATING RIG TIME	4½ Hours	4½ Hours		
RECORDED BY	Martin			
WITNESSED BY	Mr. Young			

BORE-HOLE RECORD

RUN	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
5½		Surf.	T.D.

BEFORE EXAMINER

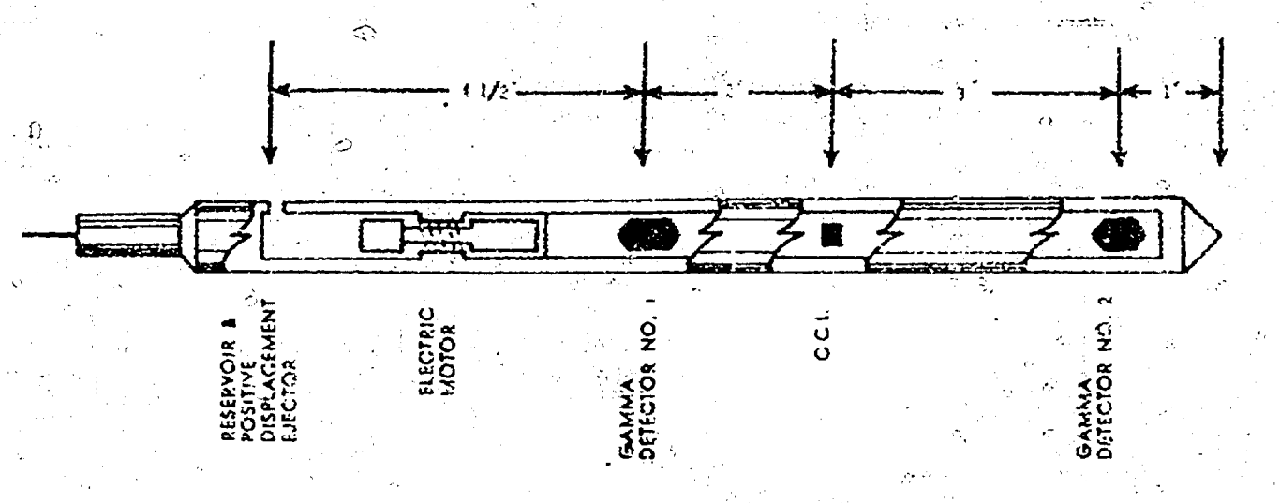
OIL CONSERVATION DIVISION

Applicant's EXHIBIT NO. 1-j

CASE NO. 7658

SUBMITTED BY HEYCO

HEARING DATE Aug 26, 1982



CRC 712 545 · GRAPHIC CONTROLS CORPORATION · BUFFALO NEW YORK · PRINTED IN U.S.A.

Date Injection Started

Cumulative Injection ______ BW to ______ seconds per Log Division

Time Drive

Customer pressure ______ CRC pressure

Customer Flow Rate ______ BPD CRC Rate ______ BPD

Perforations

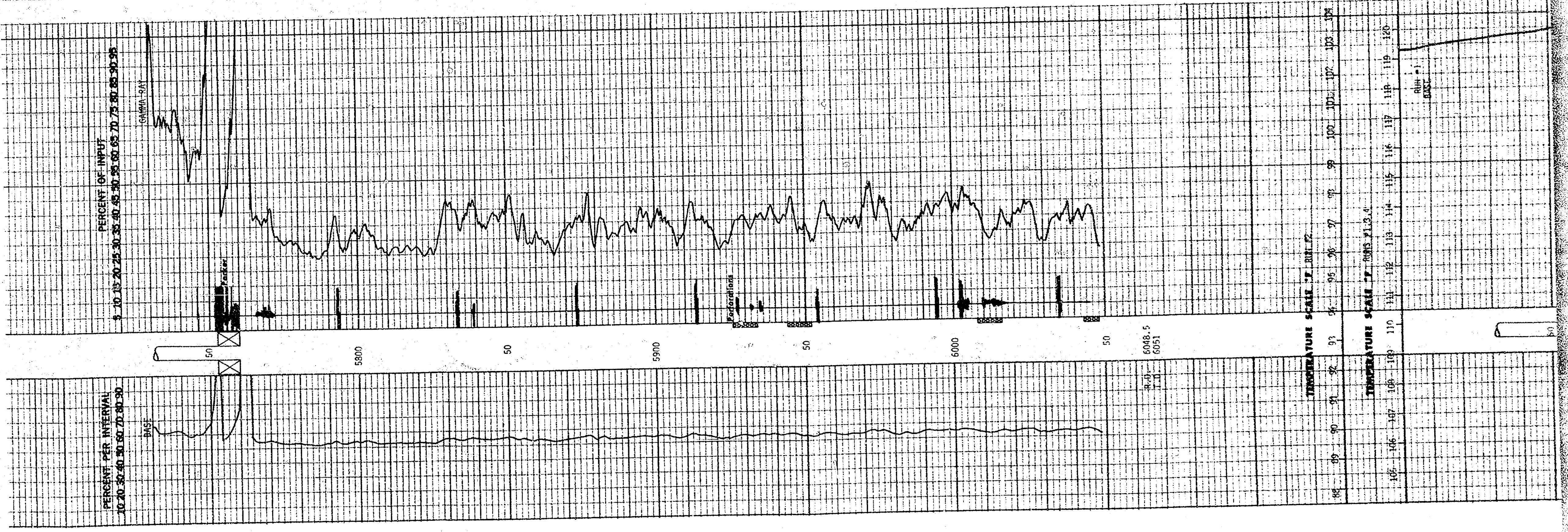
Channeling Indications No Yes From ______ to ______

Channeling Indications No Yes ______ to ______

Channeling Indications No Yes ______ to ______

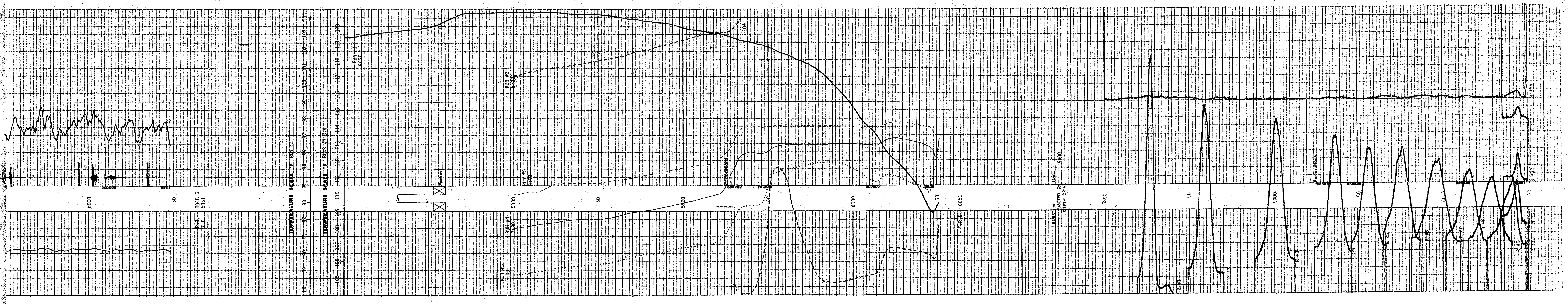
Remarks: Very little R/A going into perfs at 5926-34 and 5946-52. R/A going into perfs at 6008-16 and 6043-48 with a majority of R/A entering lower perf zones.

Temperatures indicate no fluid entering perf zone at 5926-34. Very little fluid entering at perf zones 5946-52 and 6008-16. Majority of fluid entering at perf zone at 6043-48. Well was not deep enough to indicate fluid channeling down hole.



N.M.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



V.B.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

FORM 925022 REV (6 80)

OCD Copy

Dresser Atlas

DRESSER

Compensated Densilog® Compensated Neutron Gamma Ray

Ø

FILE NO.

API NO.

Marked OCD Copy

COMPANY HARVEY E. YATES COMPANY
WELL SEYMOUR STATE COM. NO. 1
FIELD WILDCAT
COUNTY CHAVES STATE NEW MEXICO
LOCATION: 1980'FNL & 660'FWL
SEC 18 TWP 9-S RGE 27-E
Other Services DLL/MLL/GR

Permanent Datum GROUND LEVEL Elev 3811.8
Log Measured from K. B. 10 Ft. Above Permanent Datum
Drilling Measured from K. B.
Elev. KB 3821.8
DF
GL 3811.8

Date	3-16-82			
Run No.	ONE			
Service Order	06643			
Depth—Driller	6385			
Depth—Logger	6354			
Bottom Logged Interval	6352			
Top Logged Interval	SURFACE			
Casing—Driller	8 5/8 @1525			
Casing—Logger	1521			
Bit Size	7 7/8"			
Type Fluid in Hole	SALT GEL			
Density and Viscosity	9.9 | 58			
pH and Fluid Loss	7 | 12 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.067 @ 60 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.059 @ 60 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	MEAS.			
Rm @ BHT	.032 @ 127 °F	@ °F	@ °F	@ °F
Time Since Circ.	10 HOURS			
Max. Rec. Temp. Deg. F.	127 °F	°F	°F	°F
Equip. No. and Location	6316 ROSWELL			
Recorded By	HERRON			
Witnessed By	THOMPSON			

BEFORE EXAMINER
OIL CONSERVATION DIVISION
Applicant's EXHIBIT NO. 1-g
CASE NO. 7658
SUBMITTED BY HEYCO
HEARING DATE Aug 26, 1982

FOLD HERE

Remarks: NEUTRON TOOL DECENTRALIZED WITH BOWSPRINGS. BOREHOLE VOLUME RECORDED IN TICK FORM AND CORRECTED FOR 5 1/2" CASING. LONG TICKS=100 CU FT. SHORT TICKS=10 CU FT.

NOTE: LOG MADE FROM TAPES AND G/R SCALE CHANGED FROM 15 TO 10 API/CD. DENSITY POROSITY INVALID ON 5" SCALE ABOVE CASING POINT.

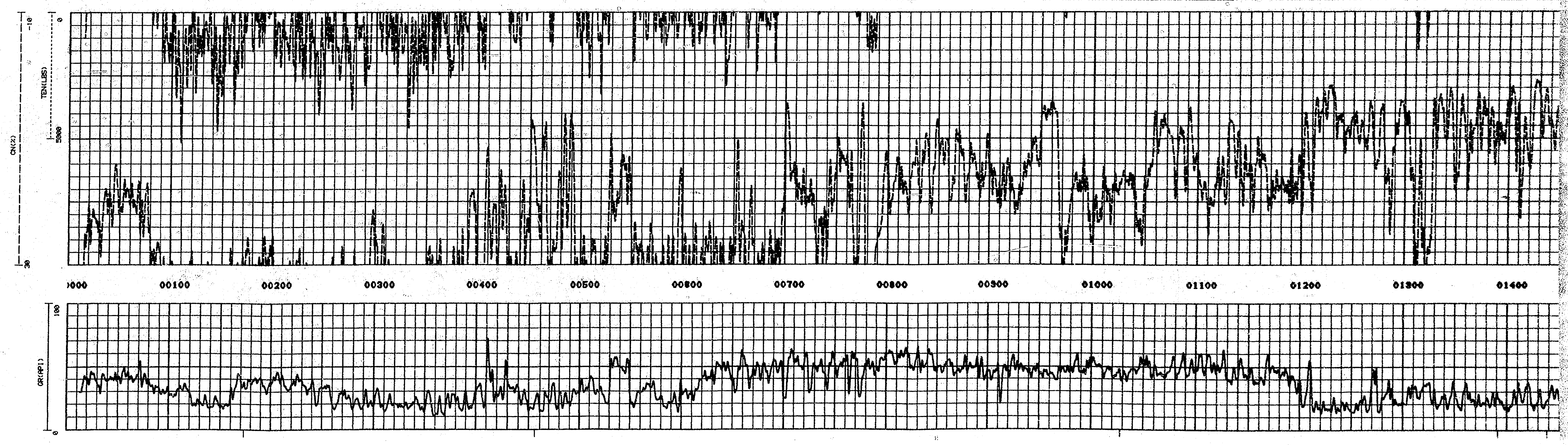
EQUIPMENT DATA

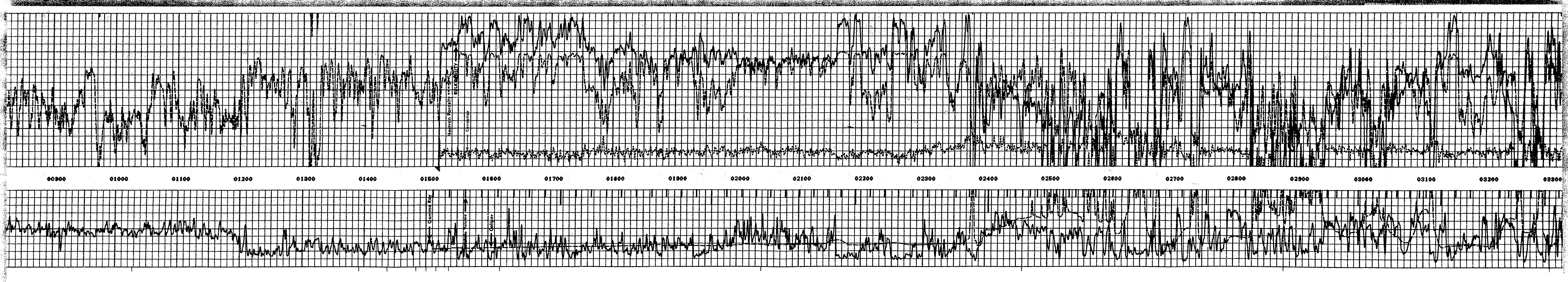
	RUN NO. 1			RUN NO. 2			RUN NO. 3		
	CDL	CNLog	GR	CDL	CNLog	GR	CDL	CNLog	GR
Tool Series No.	2212	2413	1309						
Serial No.	53089	50289	41743						
Diameter	4.875"	3.63"	3.63"						
Tool Position	OPEN	DECENTRA	LIZED						
Detect. Model No.	1G10X	D6N3	D7G2						
Type	GEIGER	SCINT	SCINT.						
Source Model No.	S3T30	S17S20	▨			▨			▨
Serial No.	657	56508	▨			▨			▨
Panel Series No.	3752	3752	3752						
Serial No.	50530	50530	50530						

LOGGING DATA

General				Compensated Densilog						Gamma Ray			
Run No.	Depths From	Depths To	Speed Ft./Min.	T.C. Sec.	Density Scale	ρ_{ma}	ρ_f	Porosity Scale	Correction Scale	T.C. Sec.	Sens. Settings	Zero Div. L or R	API Units/Div.
1	6352	1521	REC.	VAR	2.0-3.0	2.71	1.1	30-0	.17/CD	VAR	-	0	10
1	1521	SURF.	REC.							VAR	-	0	10

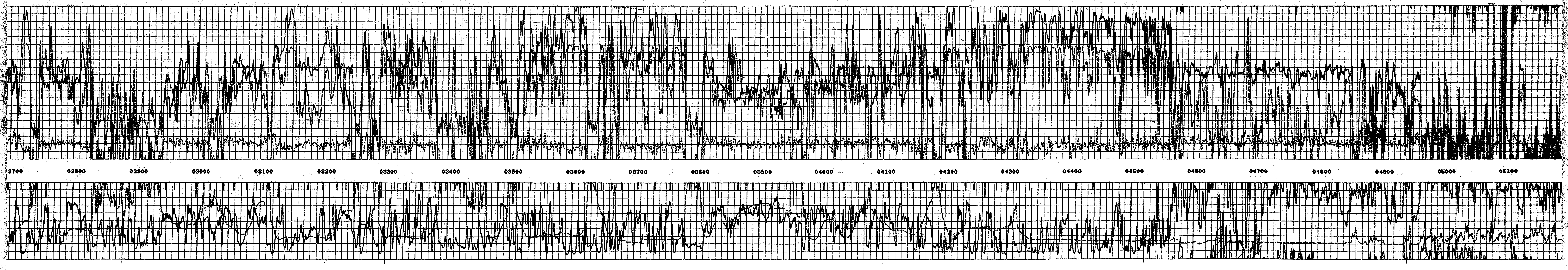
General				Compensated Neutron					Caliper
Run No.	Depths From	Depths To	Speed Ft./Min	T.C. Sec.	Sens. LS	Sens. SS	Porosity Lithology	Porosity Scale	Hole Size Scale
1	6352	SURF.	REC.	VAR	-	-	LIMESTONE	30 - 0	6-16





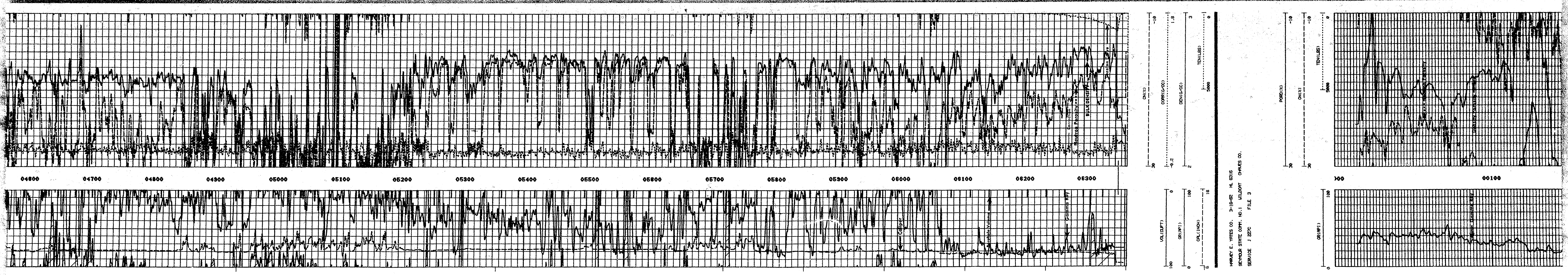
V.N.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



W.H.R.C.F. MICROGRAPHICS

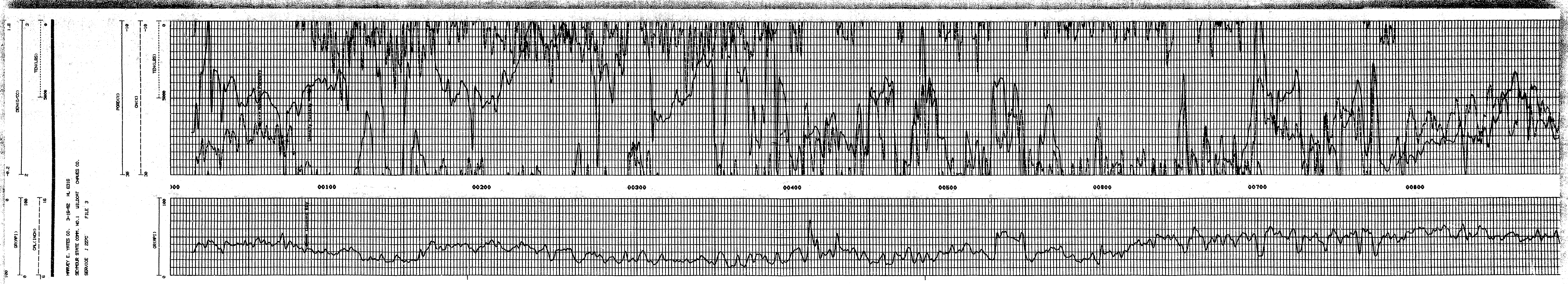
BEST AVAILABLE COPY



HARVEY E. YATES CO. 3-16-82 HL 6316
SEYMOUR STATE COMM. NO.1 WILDCAT CHAVES CO.
SERVICE J 22/C FILE 3

N.M.R.C.F. MICROGRAPHICS

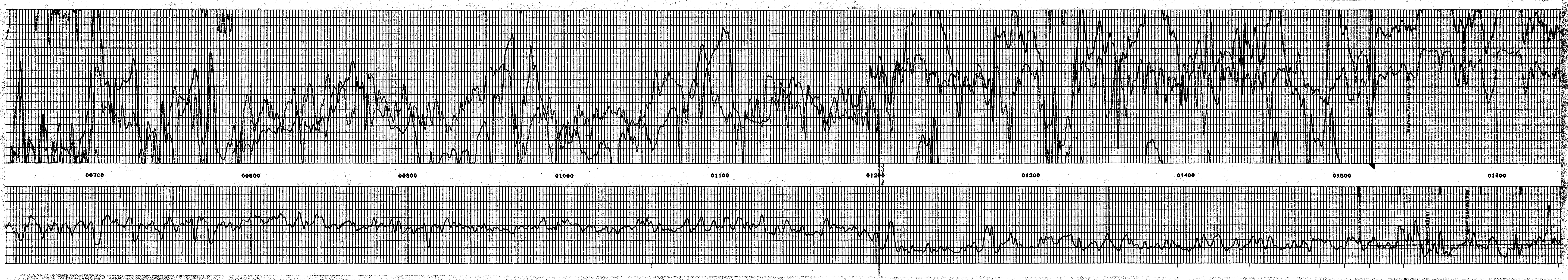
BEST AVAILABLE COPY



HARVEY E. YATES CO. 3-16-82 HL 6316
SEYMOUR STATE COMM. NO.1 WILDCAT CHAVES CO.
SERVICE J 227C FILE 3

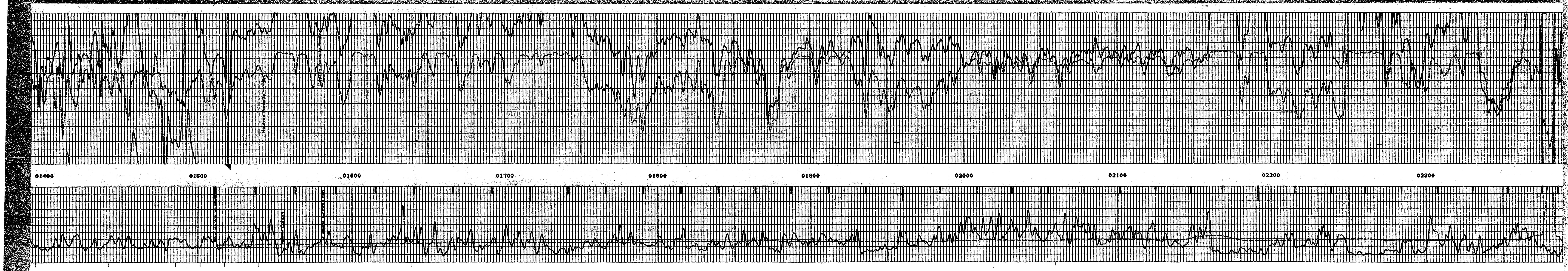
W.R.R.C.F. MICROGRAPHICS

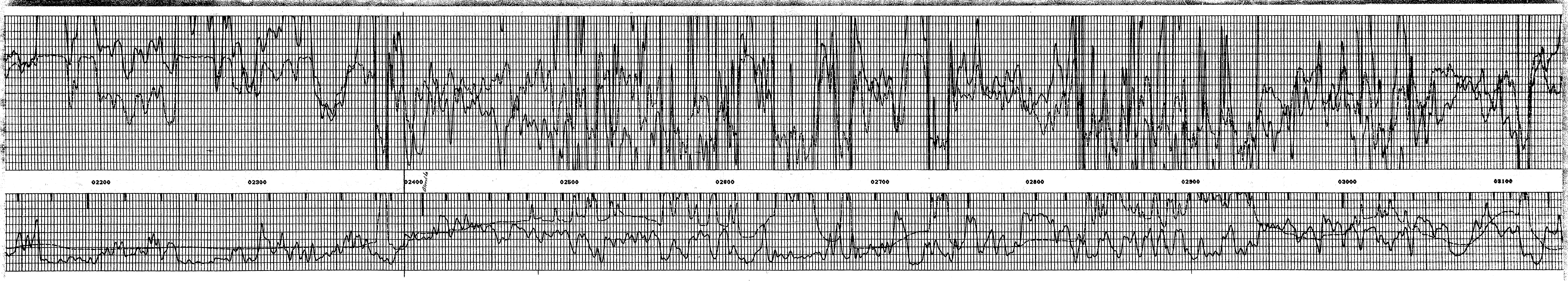
BEST AVAILABLE COPY



V.R.N.C.F. MICROGRAPHICS

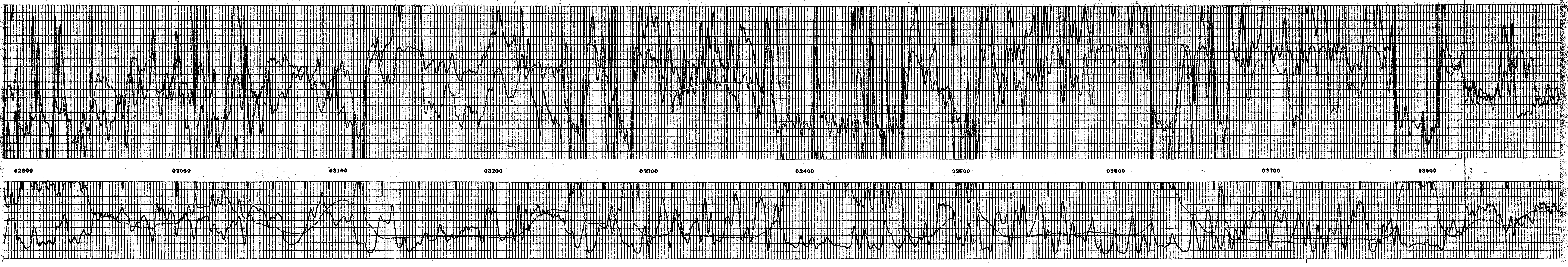
BEST AVAILABLE COPY

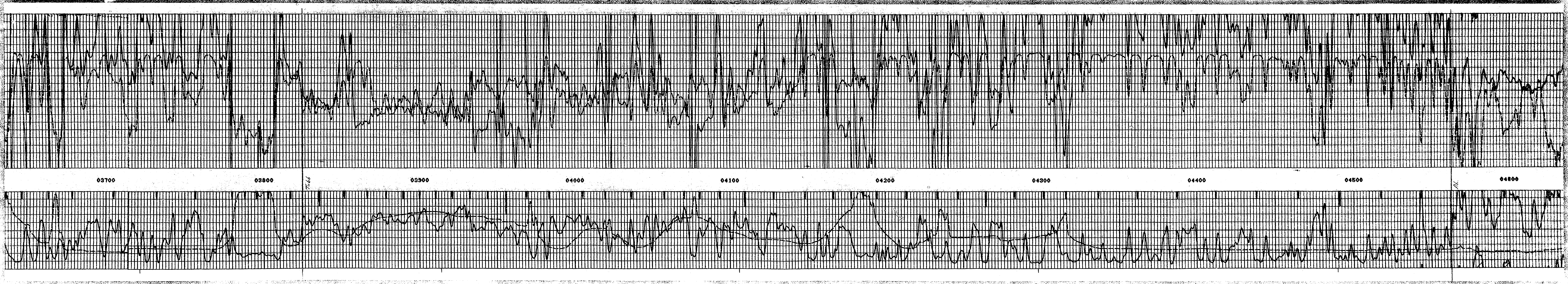

01400
01500
01600
01700
01800
01900
02000
02100
02200
02300



N.W.R.C.F. MICROGRAPHICS

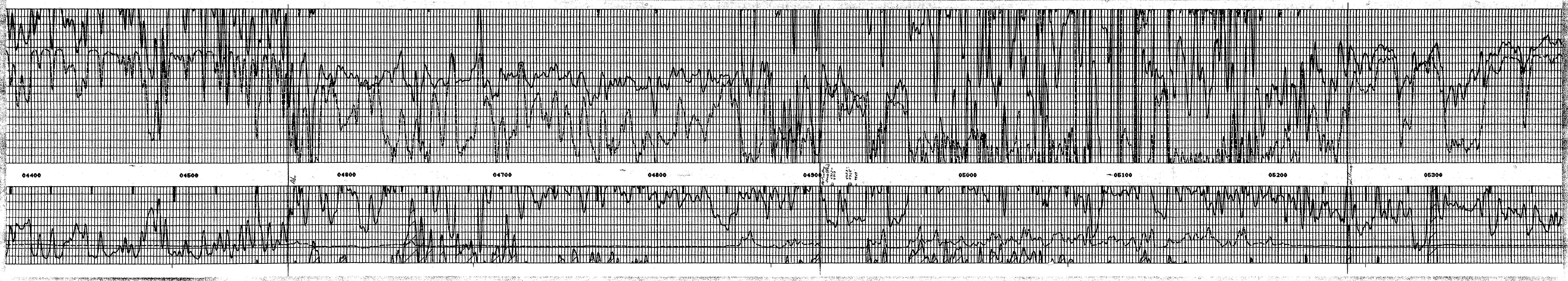
BEST AVAILABLE COPY


02900
03000
03100
03200
03300
03400
03500
03600
03700
03800



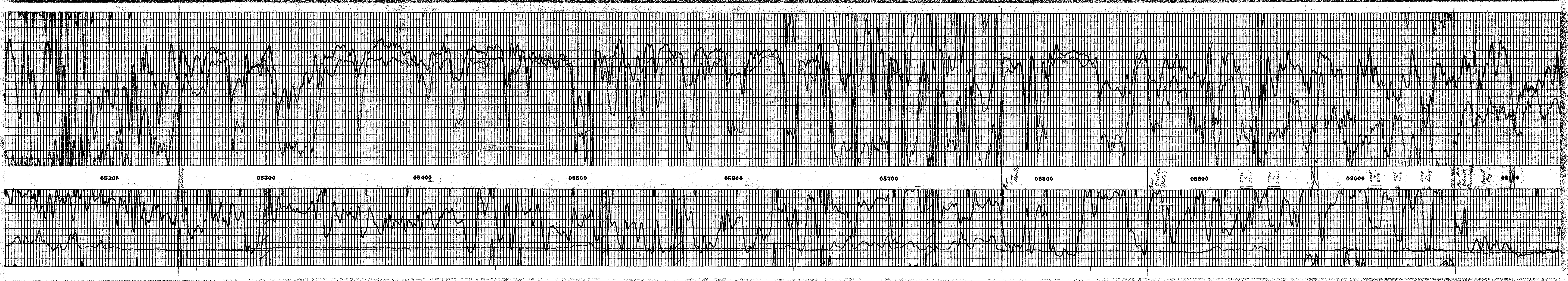
W.H.R.C.F. MICROGRAPHICS

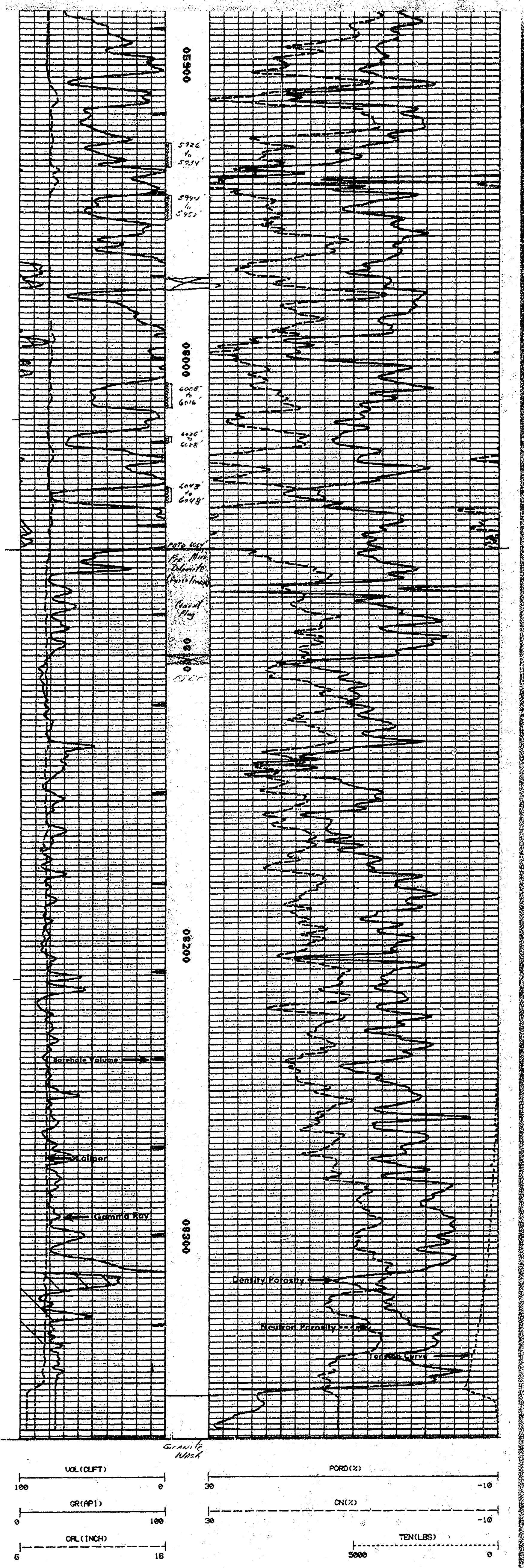
BEST AVAILABLE COPY



W.E.R.C.F. MICROGRAPHICS

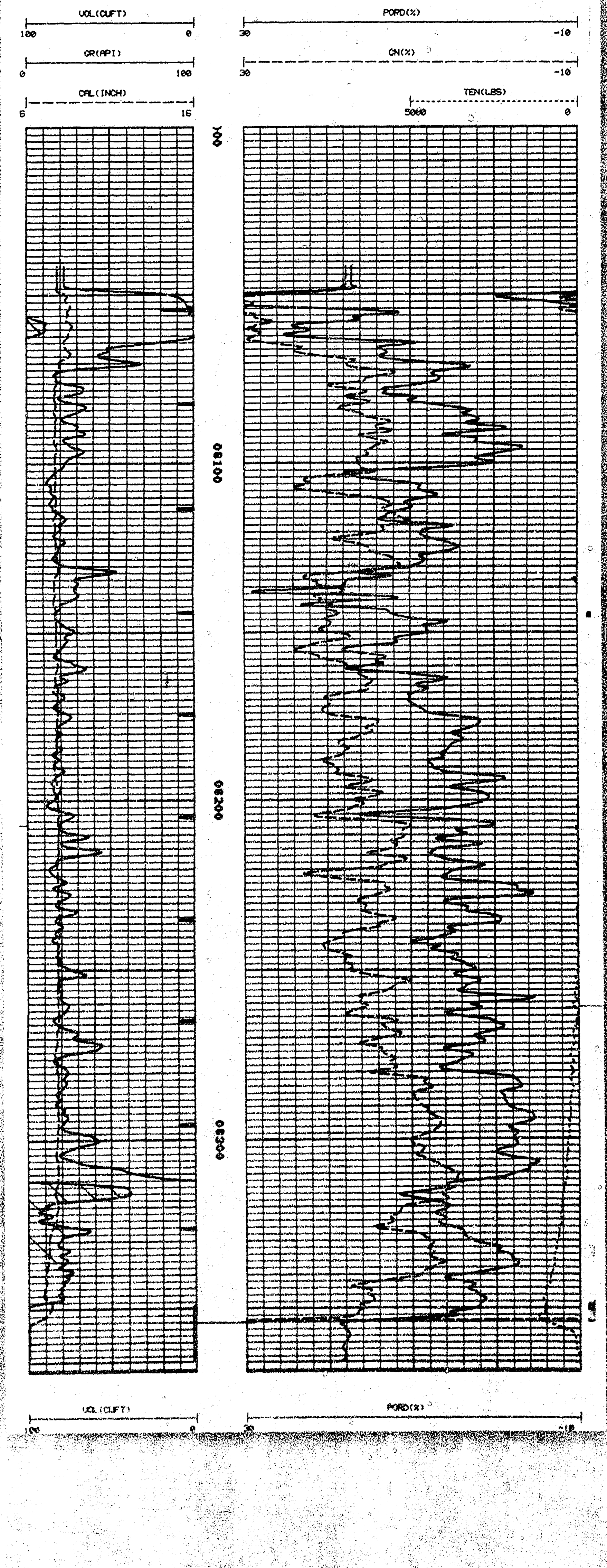
BEST AVAILABLE COPY


05200
Wolfcamp
05300
05400
05500
05600
05700
Penn Lime Marker
05800
Penn Clastics (Hole)
05900
5926 to 5934
5944 to 5953
08000
6008 to 6016
6028 to 6036
6048 to 6058
Penn Abo Dolomite
Cement Plug
06100

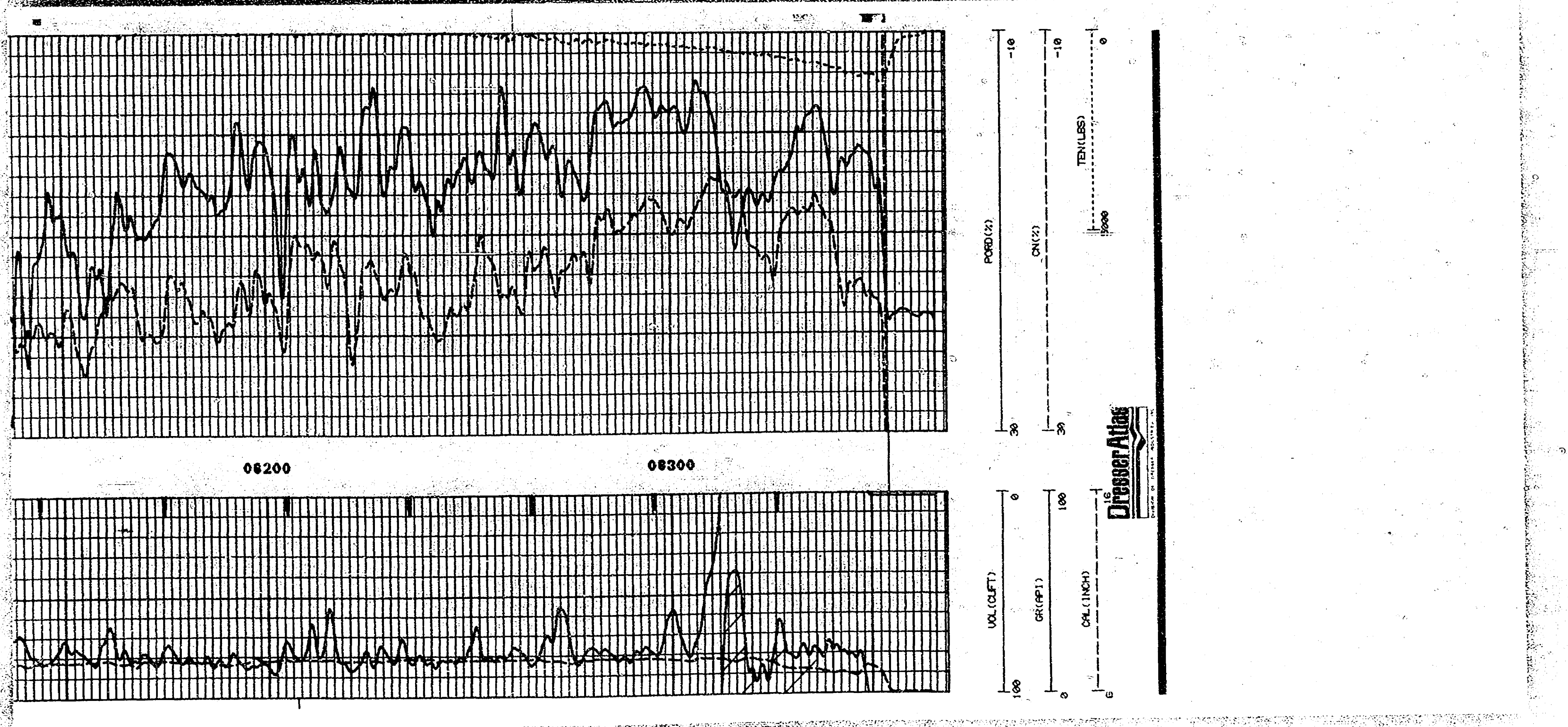


HARVEY E. YATES CO.   3-16-82   HL 6316
SEYMOUR STATE COMM. NO.1   WILDCAT   CHAVES CO.
SERVICE   J 227C   FILE 1

REPEAT SECTION



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


08200
08300
PORO(%)
-10
30
CN(%)
-10
30
TEN(LBS)
0
5000
VOL(CUFT)
0
100
GR(API)
100
0
CAL(INCH)
16
6
Dresser Atlas

CRC WIRELINE, INC.

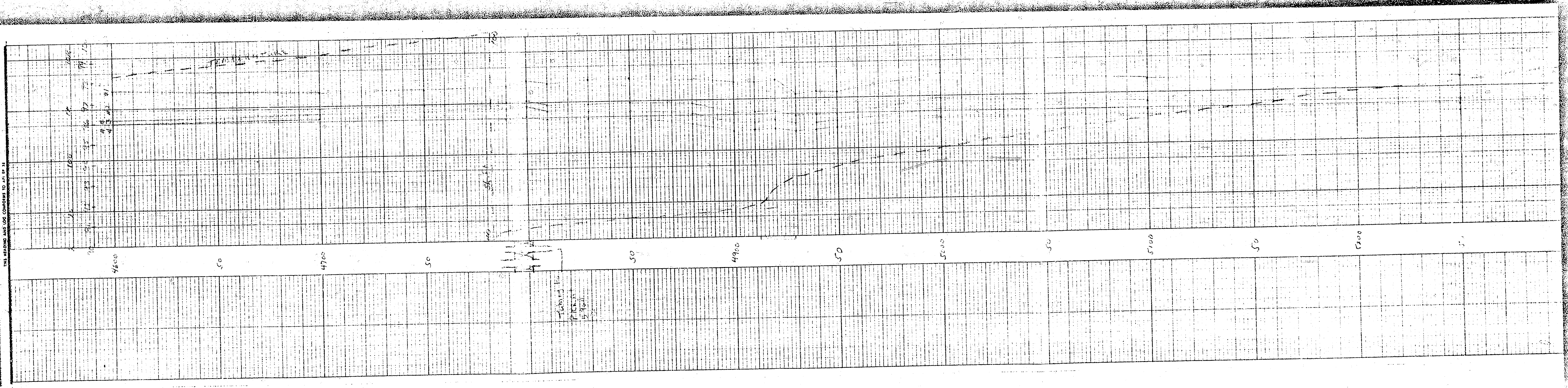
Audio TRACER Log
&
TEMPERATURE

FILING NO.	Field Print
COMPANY	Hey Co
WELL	Seymour State Com #1
FIELD	Wildcat
COUNTY	Chaves
STATE	NM
JOB NO.	72310
LOCATION	660 FWL & 1980 FNL
SEC	18
TWP	9S
RGE	27E
OTHER SERVICES	NONE
PERMANENT DATUM	GL
ELEV	3811.8
LOG MEASURED FROM	KB 10 FT ABOVE PERM. DATUM
DRILLING MEASURED FROM	KB
ELEV KB	3821.8
DF	NA
GL	3811.8

DATE	1-14-82			
RUN NO.	ONE			
TYPE LOG	Audio TRACER / TEMP			
DEPTH—DRILLER	6307			
DEPTH—LOGGER	6037			
BOTTOM LOGGED INTERVAL	6027			
TOP LOGGED INTERVAL	4600			
TYPE FLUID IN HOLE	NA			
SALINITY, PPM CL	NA			
DENSITY	NA			
LEVEL	NA			
MAX. REC. TEMP., DEG. F.	102.7			
OPERATING RIG TIME	6 HRS			
RECORDED BY	C. MARTIN & J WARD			
WITNESSED BY	MR RAY NOKES			

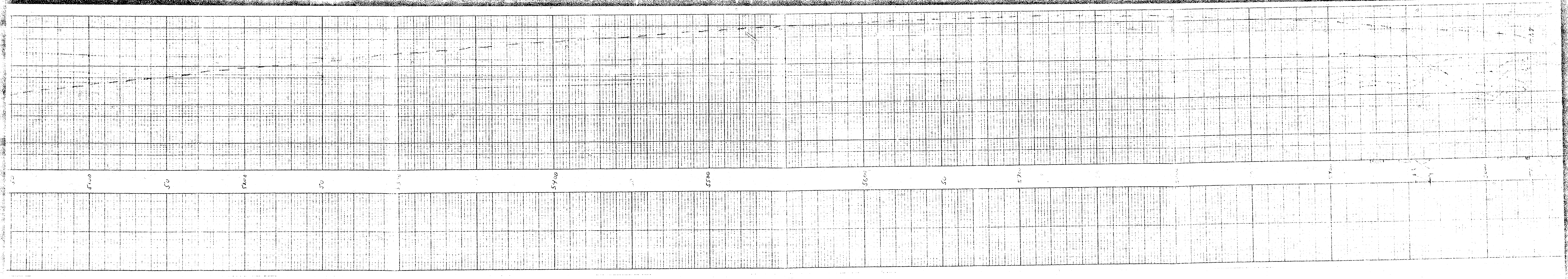
RUN NO.	BIT	BORE-HOLE RECORD FROM	TO	TUBING AND CASING RECORD SIZE	WGT.	FROM	TO
				5½	15.5	SURF	TD
				2⅞		SURF	4800
				2⅞		5405	5964

THIS HEADING AND LOG CONFORMS TO API RP 33



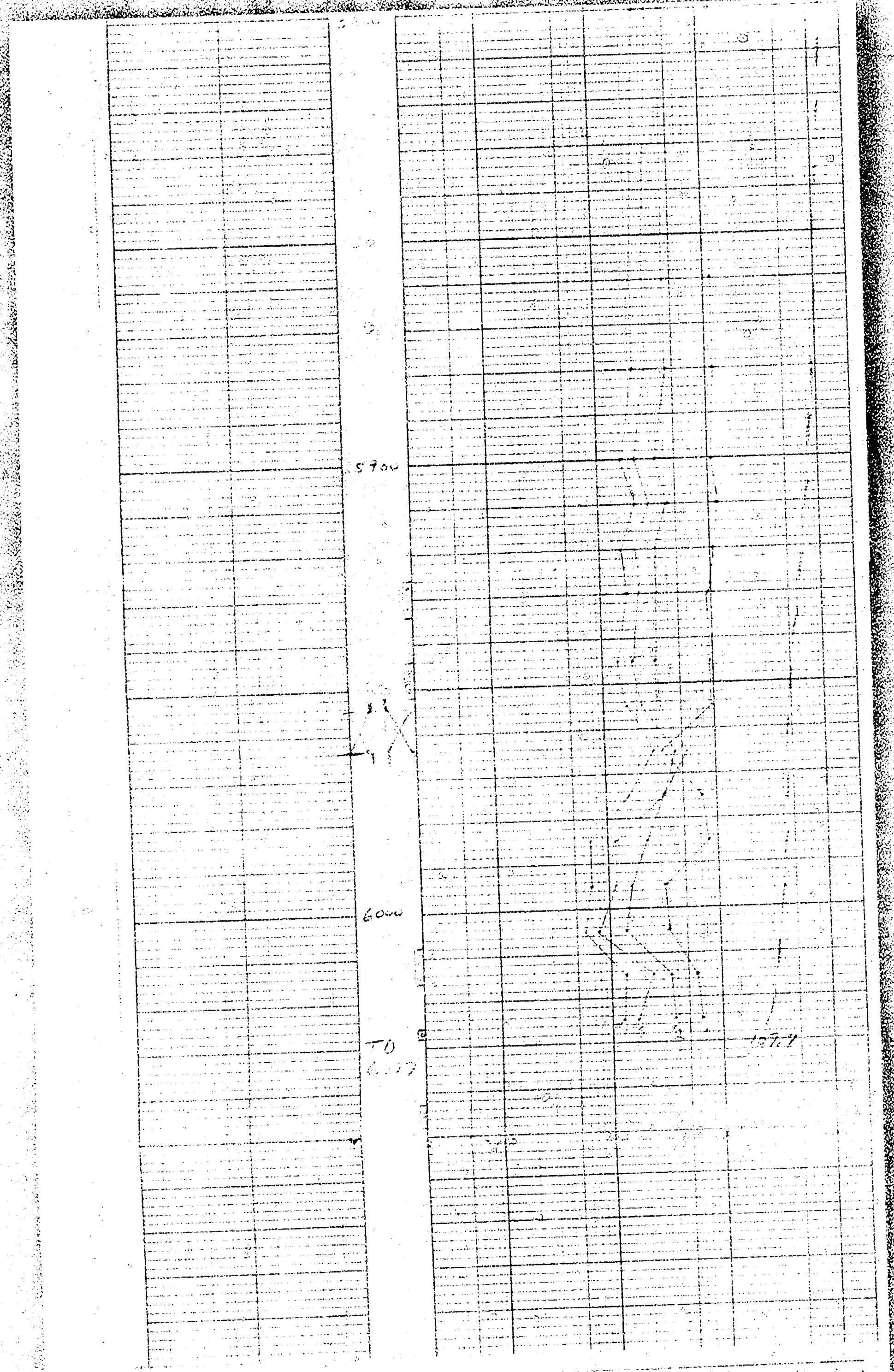
N.M.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

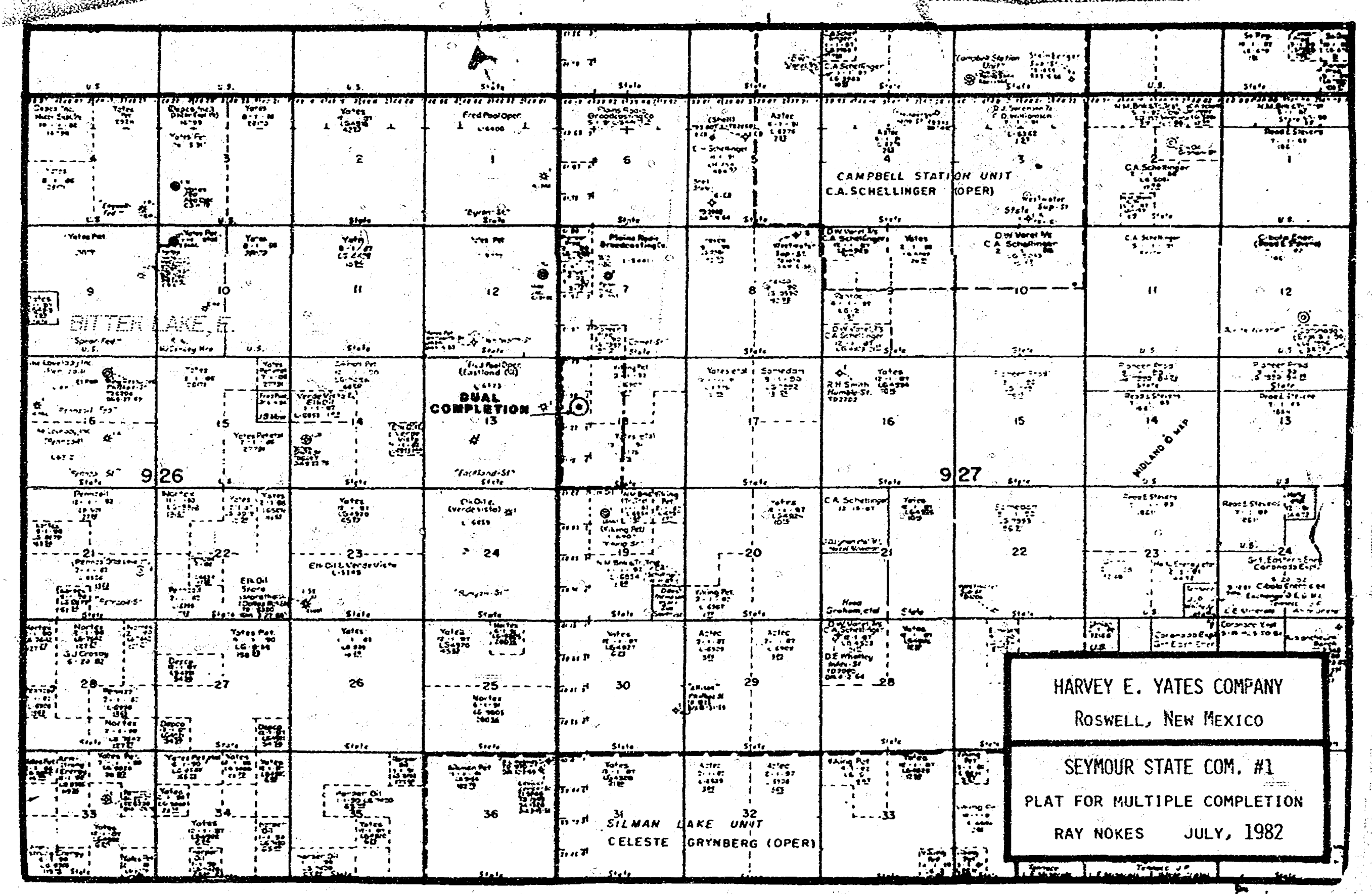


W.N.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



REMARKS Logs show Production below PD. No production indicated
from Perfs 5926-34 or 5944-52. No Communication or
channeling from Perf 4912-29 to Perfs 5926-34 and
5944-52 Some Production from Perfs 4912-29.


BITTER LAKE, E.
9 26
9 27
DUAL COMPLETION
CAMPBELL STATION UNIT
C.A.SCHELLINGER (OPER)
SILMAN LAKE UNIT
CELESTE GRYNBERG (OPER)
MIDLAND

HARVEY E. YATES COMPANY
ROSWELL, NEW MEXICO

SEYMOUR STATE COM. #1
PLAT FOR MULTIPLE COMPLETION
RAY NOKES JULY, 1982

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