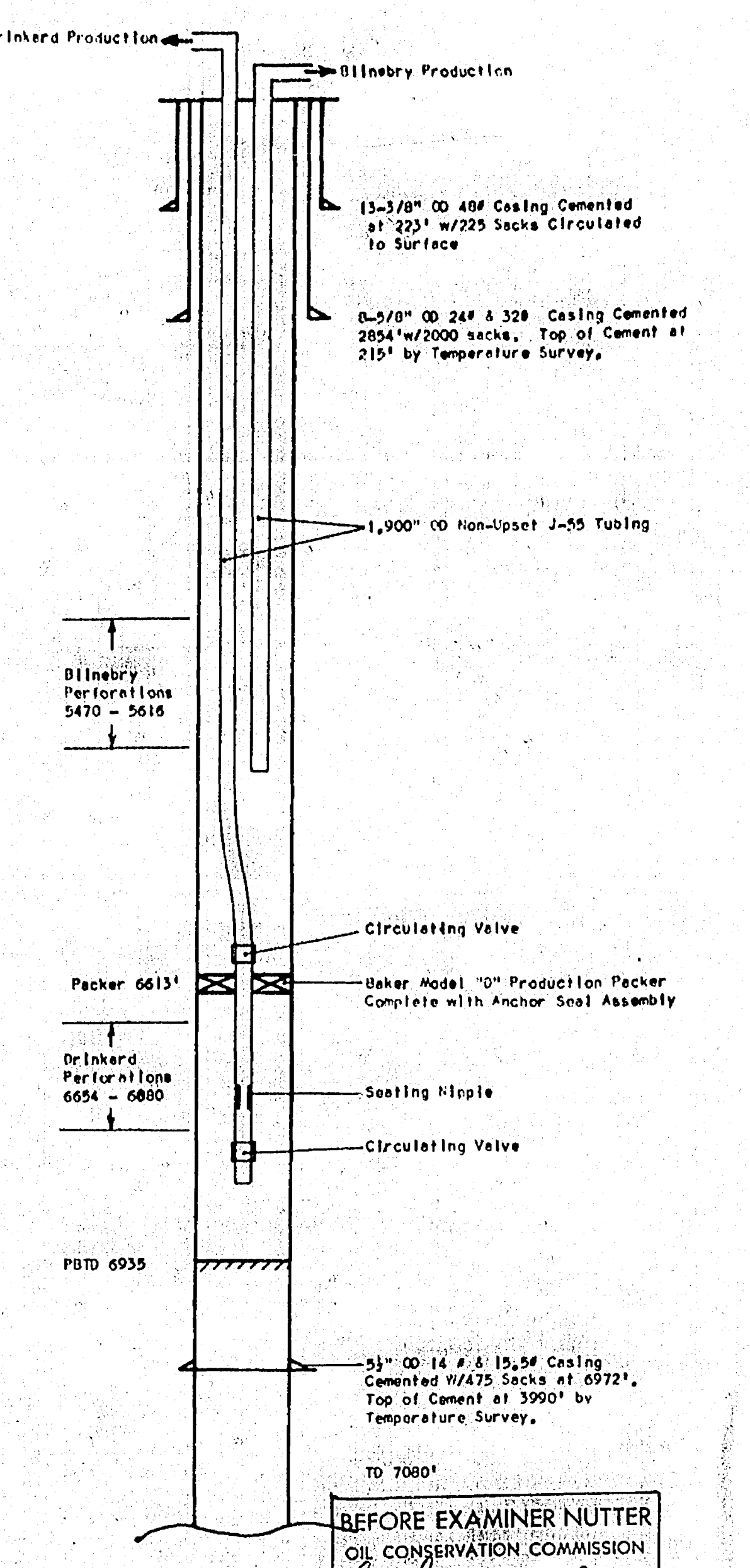
Case No. 1479

Large Exhibits


Drinkard Production
Blinebry Production
13-3/8" OD 48# Casing Cemented at 223' w/225 Sacks Circulated to Surface
8-5/8" OD 24# & 32# Casing Cemented 2854' w/2000 sacks. Top of Cement at 215' by Temperature Survey.
1,900" OD Non-Upset J-55 Tubing
Blinebry Perforations 5470 - 5616
Circulating Valve
Packer 6613'
Baker Model "D" Production Packer Complete with Anchor Seal Assembly
Drinkard Perforations 6654 - 6880
Seating Nipple
Circulating Valve
PBTD 6935
5½" OD 14 # & 15.5# Casing Cemented W/475 Sacks at 6972'. Top of Cement at 3990' by Temperature Survey.
TD 7080'

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Appl EXHIBIT NO. 2
CASE NO. 1479

SCHEMATIC DIAGRAM OF PROPOSED DUAL COMPLETION
AZTEC OIL & GAS COMPANY
STATE BD-36 NO. 1
NW SE SEC.36-T22S-R37E, LEA COUNTY, NEW MEXICO

Ex #2

Form 951

WELEX RADIOACTIVITY LOG

COMPANY AZTEC OIL & GAS COMPANY
WELL STATE BD 36 # 1
FIELD DRINKARD
COUNTY LEA STATE NEW MEXICO

Location 1980' F/EL 1980' F/SL
Other Logs NONE
Sec. 36 Twp. 22-S Rge. 37-E

Permanent Datum 13 3/8" CSG. HEAD FLG. Elev. 3306'
Log Measured From 10' ABOVE 13 3/8" CSG. HEAD FLG.
Drilling Measured From 10' ABOVE 13 3/8" CSG. HEAD FLG.
Elevation KB 3316' DF 3315' GL 3306'

Type Log	GAMMA	N - N
Run No.	ONE	ONE
Date	5-14-58	5-14-58
Total Depth Driller	7080'	7080'
Present Depth Driller	6932'	6932'
Total Depth Welex	6935'	6935'
Survey Begins	6922'	6934'
Survey Ends	2500'	2500'
Mud Data		
Type Fluid in Hole	OIL	
Salinity PPM Cl		
Weight lb./gal.		
Fluid Level		
Max. Hole Temp.		
Recorded By	BILES	
Witnessed By	MR. WATTS	

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3.C
CASE NO. 1479

BORE HOLE RECORD / CASING RECORD

Run	Bit	From	To	Size	Wgt.	From	To
-1-	17 1/2"	0'	300'	13 3/8"		0'	300'
	11"	300'	2850'	8 5/8"		0'	2850'
	7 7/8"	2850'	7080'	5 1/2"		0'	6972'

LOGGING TOOL DATA
Truck No. 32-2012 Instr. Truck No. 32-616 Tool Serial No. C266 & B69A

GAMMA RAY: Tool Model No. 402; Detector Model No. D4G1; Type SCINTILLATION; Distance To N. Source 145.5; Dia. 3 5/8"; Length 4"

NEUTRON: Log Type NEUTRON-NEUTRON; Tool Model No. 402; Detector Model No. D6N1; Type SCINTILLATION; Source Model No. S10A3; Spacing 13.5; Type RADIUM-BERYLLIUM; Strength 300 MG; Dia. 3 5/8"; Length 4"; Serial No. 3240

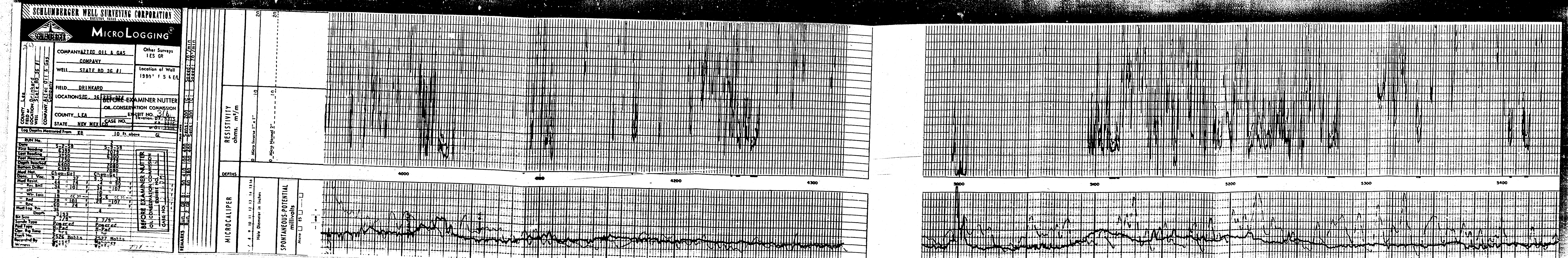
Reference Literature:

LOGGING DATA

Depth From	Depth To	Speed Ft./min.	Gamma Ray T.C. Sec.	Gamma Ray Sensitivity	Gamma Ray Zero	Gamma Ray Scale	Neutron T.C. Sec.	Neutron Sensitivity	Neutron Zero	Neutron Scale
6934'	4950'	20	2	3 RU	-3 RU	5"=100'	2	100 EU	-700 EU	5"=100'
4310'	3950'	20	2	3 RU	-3 RU	5"=100'	2	100 EU	-700 EU	5"=100'
6934'	2500'	20	2	3 RU	-0 RU	2"=100'	2	100 EU	-700 EU	2"=100'

Calibration Data GAMMA STANDARD C933, NEUTRON ENVIRONMENTAL D368.
REMARKS:

Exhibit 3(c)



SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

MicroLogging®

COMPANY AZTEC OIL & GAS COMPANY
WELL STATE BD 36 #1
FIELD DRINKARD
LOCATION SEC. 36 22S 37E
COUNTY LEA
STATE NEW MEXICO
Other Surveys IES GR
Location of Well 1980' F S & EL
Elevation: D.F. 3315 K.B. 3316 G.L. 3306

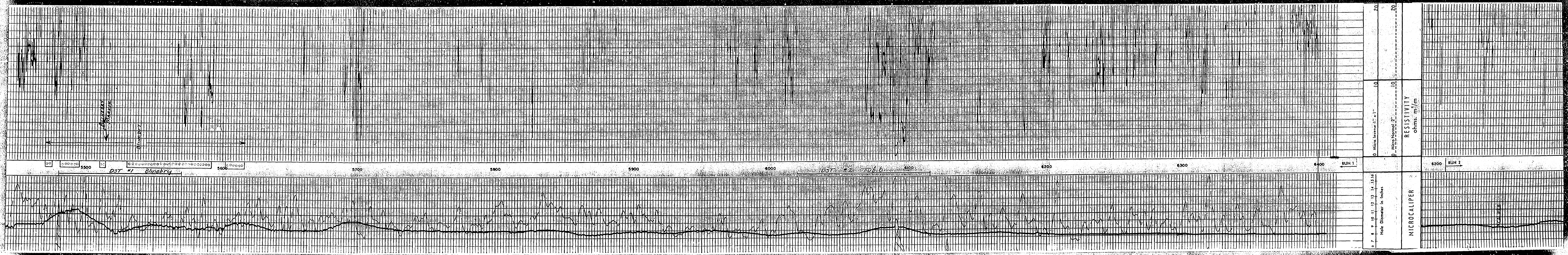
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3(b)
CASE NO.

Log Depths Measured From KB 10 Ft. above GL

RUN No.	1	2
Date	5-2-58	5-9-58
First Reading	6399	7079
Last Reading	3950	6300
Feet Measured	1750	779
Depth Reached	6400	7080
Bottom Driller	6399	7080
Mud Nat.	Chem-Gel	Chem-Gel
Dens. | Visc.	9.7 | 37	9.5 | 34
Mud Resist.	.44 @ 74 °F	.4 @ 90 °F
Res. BHT	.34 @ 101 °F	.34 @ 107 °F
pH	9	10
Wtr. Loss	18 cc 30 min	15.6 cc 30 min
Rmf	.28 @ 101 °F	.25 @ 107 °F
Rmc	.60 @ 74 °F	
Mud Log Rm	.36	.4
Depth	3193	
Bit Size	7 7/8"	7 7/8"
Sonde Type	Powered	Powered
Pad Type	H-Pad	H-Pad
Opr. Rig Time	2 hrs	1 hr
Truck No.	2526 Hobbs	2527 Hobbs
Recorded By	Geissel	Mahoney
Witness	[illegible]	[illegible]

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3(b)
CASE NO.

REMARKS
Run 1 OR 8: 50 410 100 400 Sens: 200 CC: Speed: 70'/min
Run 2 OR 8: 60 380 100 400 Sens: 300 CC: Speed: 70'/min



SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

Induction-Electrical Log

COUNTY Lea
FIELD or LOCATION Drinkard
WELL State BD 36 #1
COMPANY Aztec Oil & Gas Company

COMPANY AZTEC OIL & GAS COMPANY
WELL STATE BD 36 #1
FIELD DRINKARD
LOCATION SEC. 36-22S-37E
COUNTY LEA
STATE NEW MEXICO

Other Surveys
GR ML

Location of Well
1980' f S & E/L

Elevation: D.F.: 3315
K.B.: 3316
or G.L.: 3306

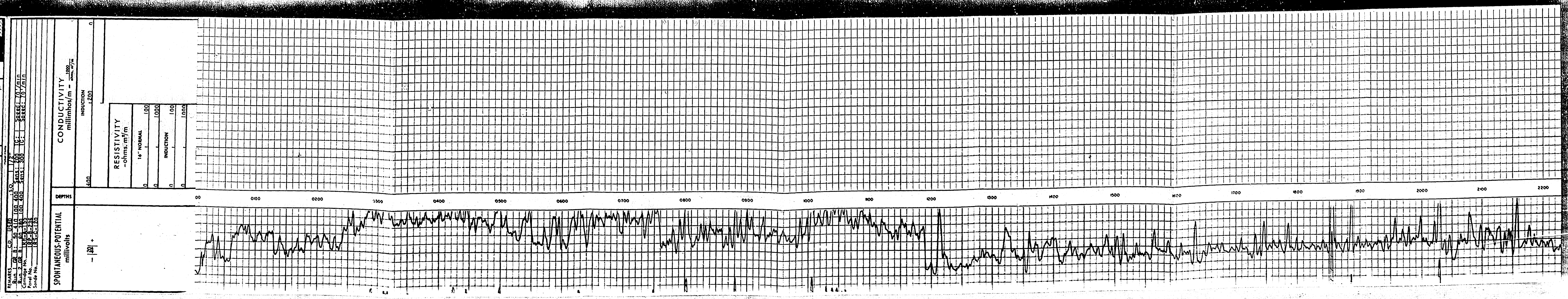
FILING No.

RUN No.	1	2
Date	5-2-58	5-9-58
First Reading	6394	7074
Last Reading	2853	6394
Feet Measured	3541	680
Csg. Schlum.	2853	
Csg. Driller	2850	
Depth Reached	6400	7080
Bottom Driller	6400	7080
Depth Datum	KB 10' Abv GL	KB 10' Abv GL
Mud Nat.	Chem-Gel	Chem-Gel
Dens. | Visc.	9.7 | 37	9.5 | 34
Mud Resist.	.44 @ 74 °F	.4 @ 90 °F
Res. BHT	.34 @ 101 °F	.34 @ 107 °F
Rmf	.28 @ 101 °F	.28 @ 107 °F
Rmc	.60 @ 74 °F	
pH	9 @ °F	10 @ °F
Wtr. Loss	18 CC 30 min.	15.6 CC 30 min.
Bit Size	7 7/8"	7 7/8"
Spcgs.—AM	16"	16"
MN		
IND.	40"	5 FF 40
Opr. Rig Time	2 hrs	1 1/2 hrs
Truck No.	2526 Hobbs	2527 Hobbs
Recorded By	Geisel	Mahoney
Witness	Watts	Watts

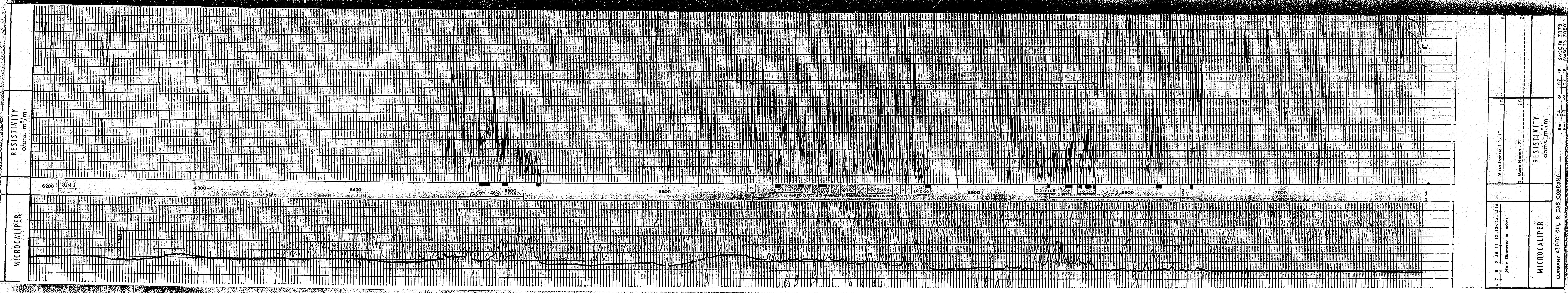
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3a
CASE NO. 1479

REMARKS	C.D.	USED			S.O.			
Run 1 GR B	50	410	100	400	Sens: 200	IC:	Speed: 70'/min	
Run 2 GR B	60	380	100	400	Sens: 300	IC:	Speed: 70'/min	

Cartridge No. IRK-A-15
Panel No. IRP-B-236
Sonde No. IRS-C-120

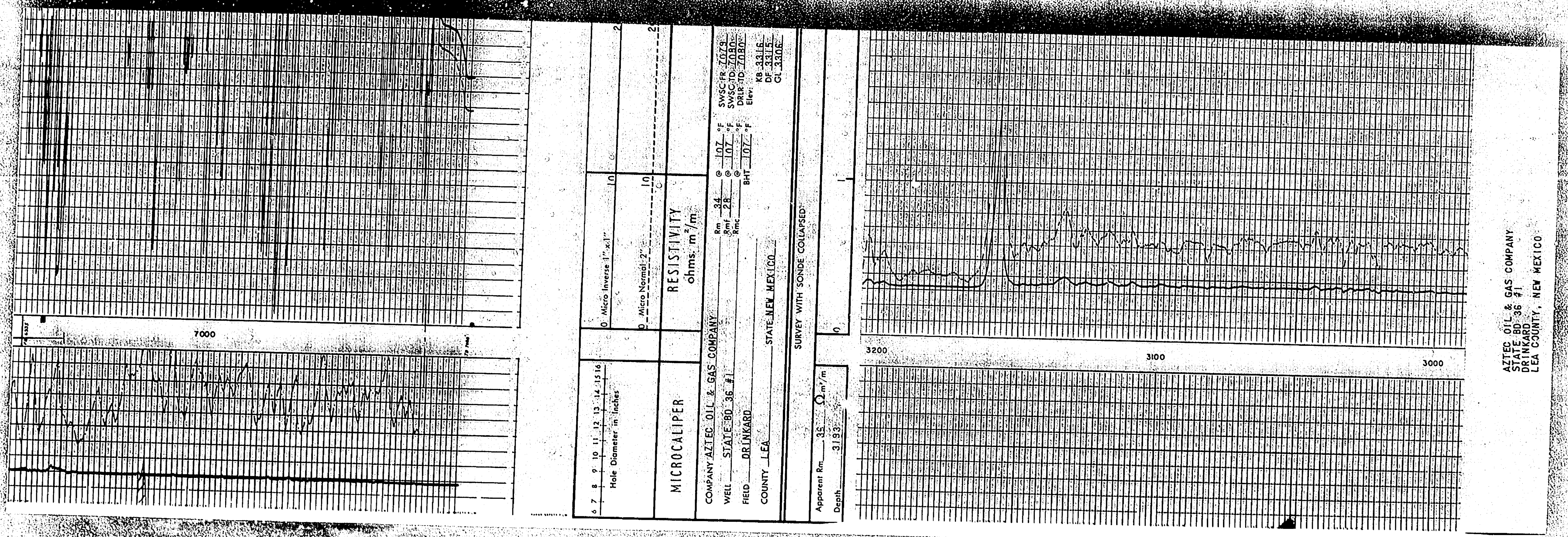


4100
4200
5-1/2"
4300
4950'-4934'
5000
5100
5200
5300
5400
Blinebry
Blinebry MARKER
5500
DST #1
Blinebry
5600
5700



RESISTIVITY
ohms. m²/m
MICROCALIPER
6200
RUN 2
6300
6400
6500
DST #3
6600
6700
DST #4
6800
DST #5
6900
7000
0 Micro Inverse 1"x1" 10 2
0 Micro Normal 2" 10 2
RESISTIVITY
ohms. m²/m
6 7 8 9 10 11 12 13 14 15 16
Hole Diameter in Inches
MICROCALIPER
COMPANY AZTEC OIL & GAS COMPANY
Rm 34 @ 107 °F SWSC FR 7079
Rmf 28 @ 107 °F SWSC TD 7090

2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300



6 7 8 9 10 11 12 13 14 15 16
Hole Diameter in Inches

MICROCALIPER

0 Micro Inverse 1"x1" 10 2
0 Micro Normal 2" 10 2

RESISTIVITY
ohms. m²/m

COMPANY AZTEC OIL & GAS COMPANY
WELL STATE BD 36 #1
FIELD DRINKARD
COUNTY LEA STATE NEW MEXICO

Rm .34 @ 107 °F
Rmf .28 @ 107 °F
Rmc @ °F
BHT 107 °F

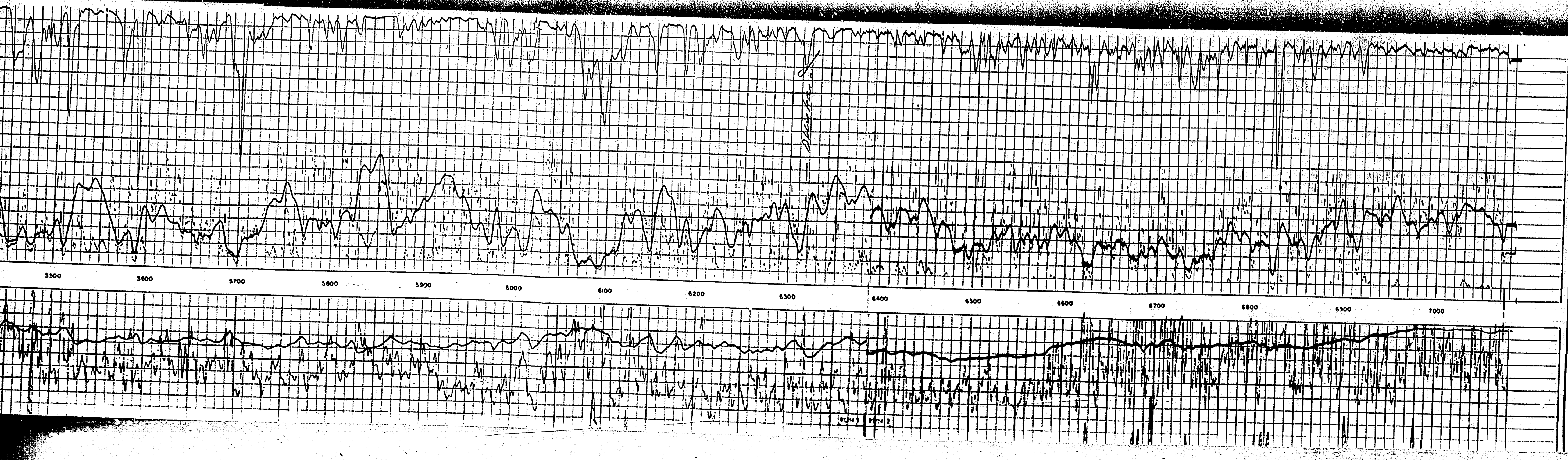
SWSC-FR 7079
SWSC-TD 7080
DRLR-TD 7080
Elev: KB 3316
DF 3315
GL 3306

SURVEY WITH SONDE COLLAPSED

0 1

Apparent Rm .35 Ωm²/m
Depth 3193

AZTEC OIL & GAS COMPANY
STATE BD 36 #1
DRINKARD
LEA COUNTY, NEW MEXICO



SPONTANEOUS-POTENTIAL
millivolts

− 20 +

DEPTHS

RESISTIVITY
ohms. m²/m

16" NORMAL 0 100
0 1000
INDUCTION 0 100
0 1000

CONDUCTIVITY
millimhos/m = $\frac{1000}{\text{ohms. m}^2\text{/m}}$

INDUCTION 200 0

COMPANY AZTEC OIL & GAS COMPANY
WELL STATE BD 36 #1
FIELD DRINKARD
COUNTY LEA STATE NEW MEXICO

SWSC FR 7074
SWSC TD 7080
DRLR TD 7080
Elev: KB 3316
DF 3315
GL 3306

DETAIL LOG
5"=100'

SPONTANEOUS-POTENTIAL
millivolts

− 20 +

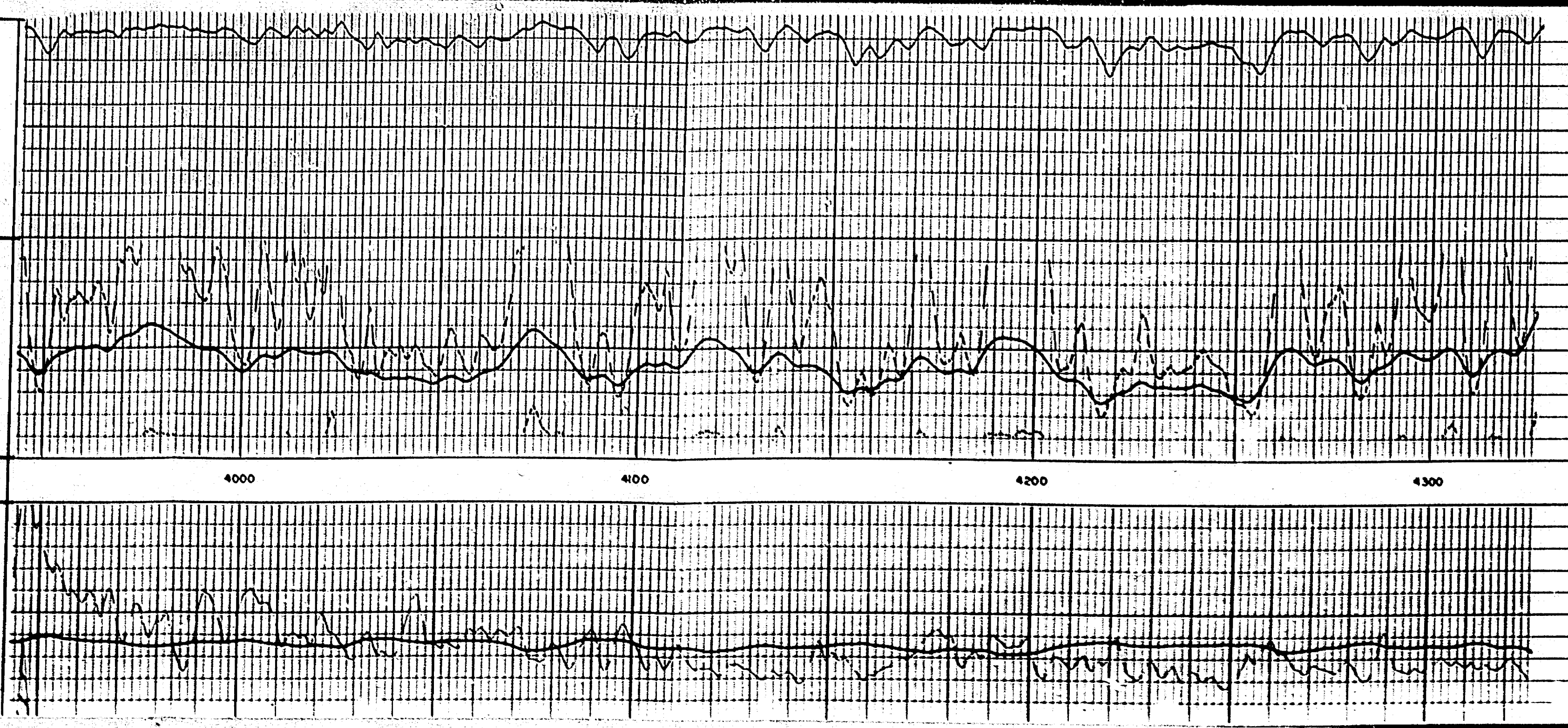
DEPTHS

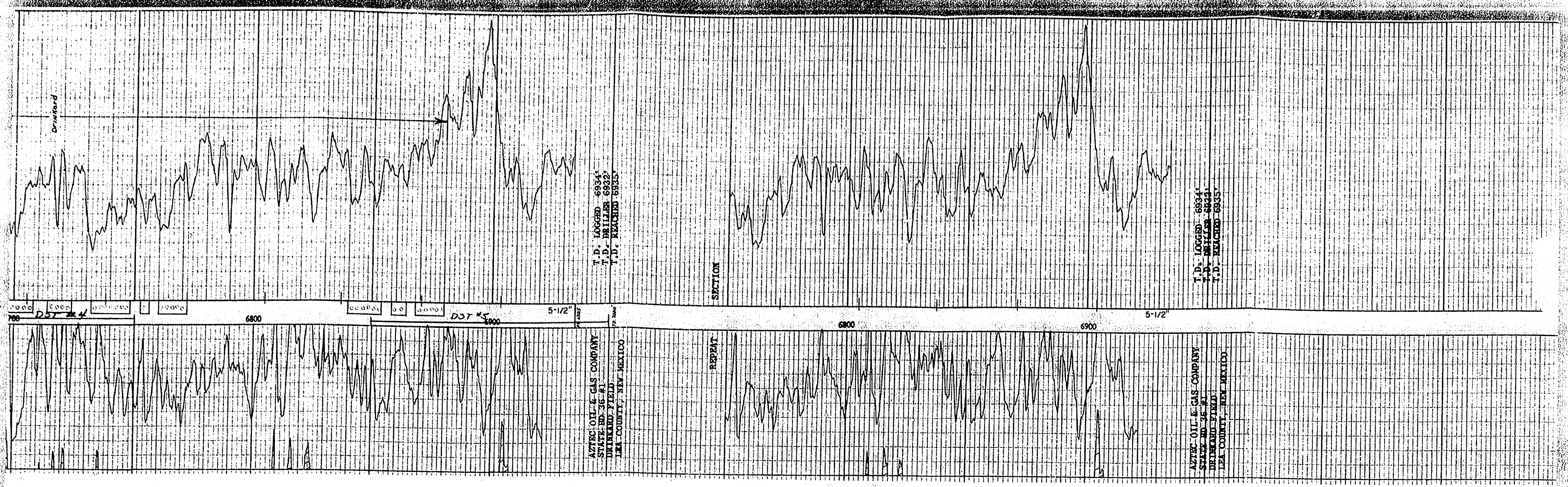
RESISTIVITY
ohms. m²/m

16" NORMAL 0 100
0 1000
INDUCTION 0 100
0 1000

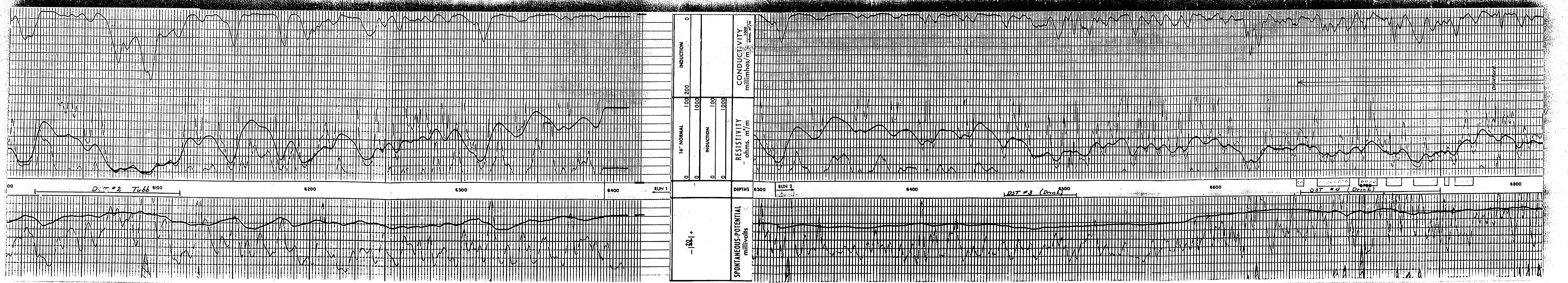
CONDUCTIVITY
millimhos/m = $\frac{1000}{\text{ohms. m}^2\text{/m}}$

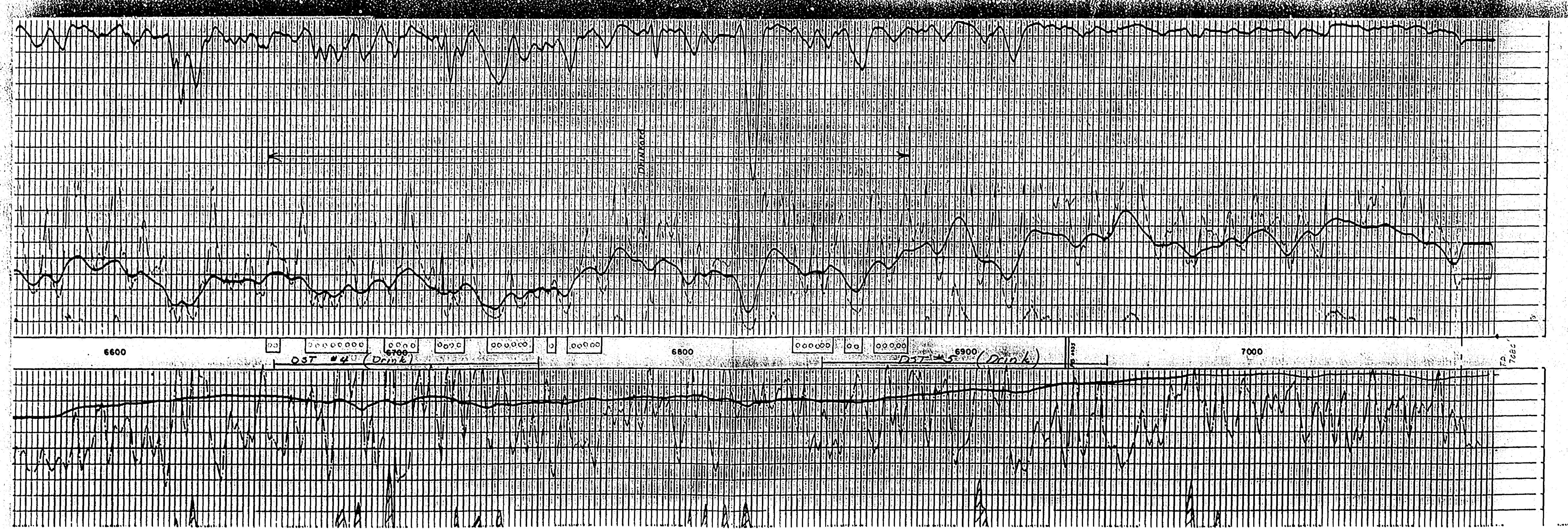
INDUCTION 200 0




Drinkard
DST #4
DST #5
6700
6800
6900
5-1/2"
T.D. LOGGED 6934'
T.D. DRILLER 6932'
T.D. REACHED 6935'
AZTEC OIL & GAS COMPANY
STATE BD 36 #1
DRINKARD FIELD
LEA COUNTY, NEW MEXICO
SECTION
REPEAT
6800
6900
5-1/2"
T.D. LOGGED 6934'
T.D. DRILLER 6932'
T.D. REACHED 6935'
AZTEC OIL & GAS COMPANY
STATE BD 36 #1
DRINKARD FIELD
LEA COUNTY, NEW MEXICO

Blinebry Marker
Blinebry
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
DST #3 (Blinebry
DST #2 Tubb


DST #2 Tubb
6100
6200
6300
6400
RUN 1
INDUCTION
0
200
16" NORMAL
100
1000
0
INDUCTION
100
1000
0
CONDUCTIVITY
millimhos/m = 1000/ohms. m²/m
RESISTIVITY
ohms. m²/m
DEPTHS
20
− +
SPONTANEOUS-POTENTIAL
millivolts
6300
RUN 2
6400
DST #3 (Drink)
6500
6600
6700
DST #4 (Drink)
6800
Drinkard



SPONTANEOUS-POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms. m²/m	CONDUCTIVITY millimhos/m = 1000 / ohms. m²/m
− 20 +		16" NORMAL 0 – 100 0 – 1000 INDUCTION 0 – 100 0 – 1000	INDUCTION 200 – 0

COMPANY AZTEC OIL & GAS
WELL STATE BD 36 #1
FIELD DRINKARD
COUNTY LEA STATE NEW MEXICO

SWSC FR 7074
SWSC TD 7080
DRLR TD 7080
Elev: KB 3316
DF 3315
GL 3306