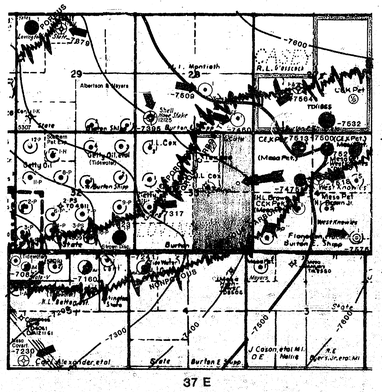
Case No.

7643 & 7650

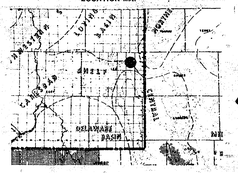
Large Exhibits

W.S.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



LOCATION MAP



LEGEND

● STRAWN PRODUCERS

○ STRAWN NONPRODUCERS

PRODUCING DEPARTMENT — UNITED STATES

TEXACO

TEXACO INC. P.O. BOX 3109 MIDLAND, TEXAS 79701

STRUCTURE MAP

CASEY (STRAWN)-LOVINGTON EAST (PENN) FIELDS

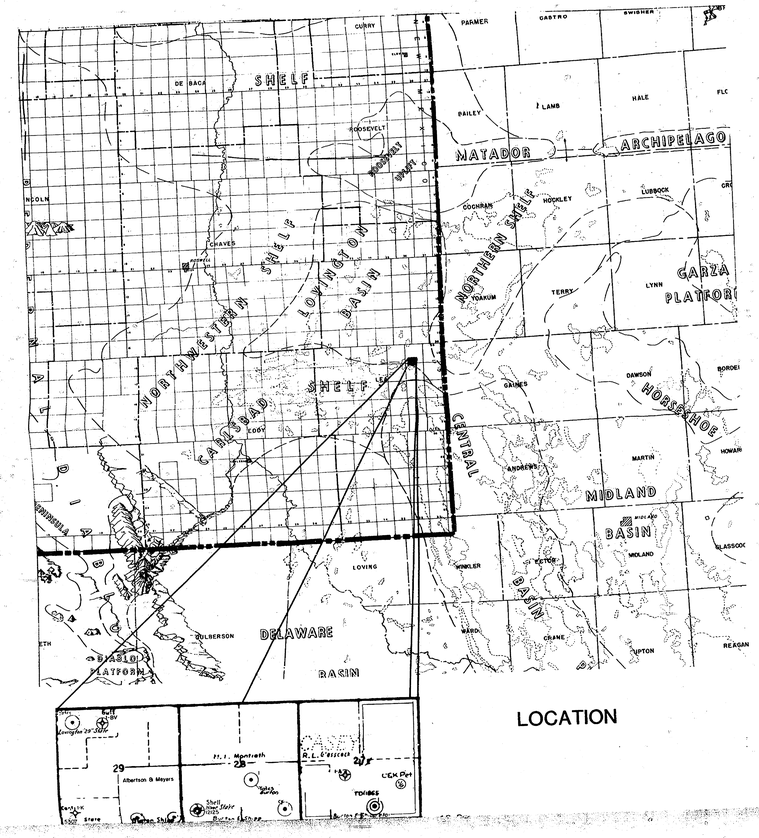
LEA COUNTY, NEW MEXICO

DATE	5-13-82
CONTOURED HORIZON	STRAWN
CONTOUR INTERVAL	100' SCALE 1" = 2000'
GEOLOGIST	G. A. Kirkpatrick DISTRICT MIDLAND
REVISED BY	E. A. HORVATH
Base No.	Diaffanon
Overlay No.	Central File No.

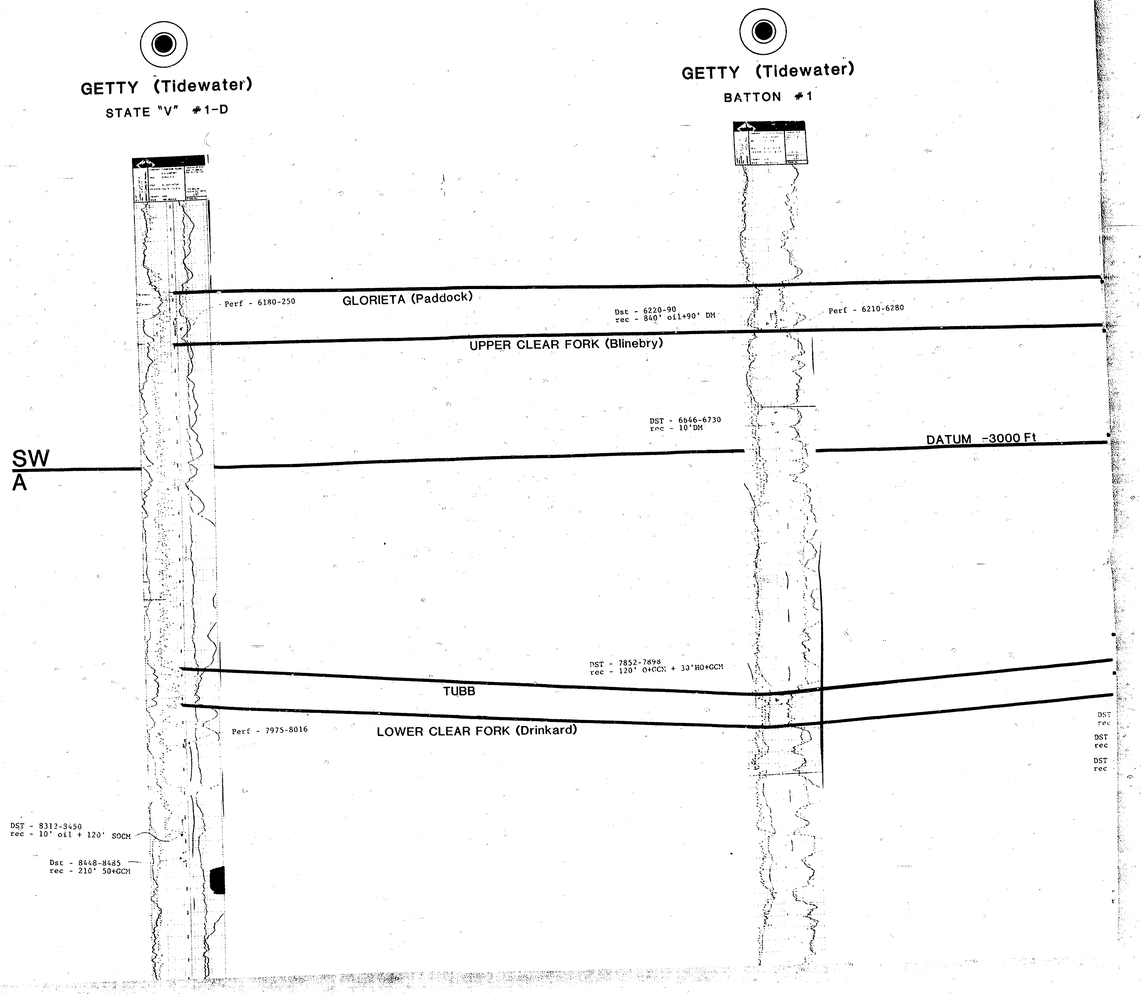
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Texaco EXHIBIT NO. 5
CASE NO. 7643 & 7650

U.S.B.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



LOCATION



U.S.B.C.F. MICROGRAPHICS
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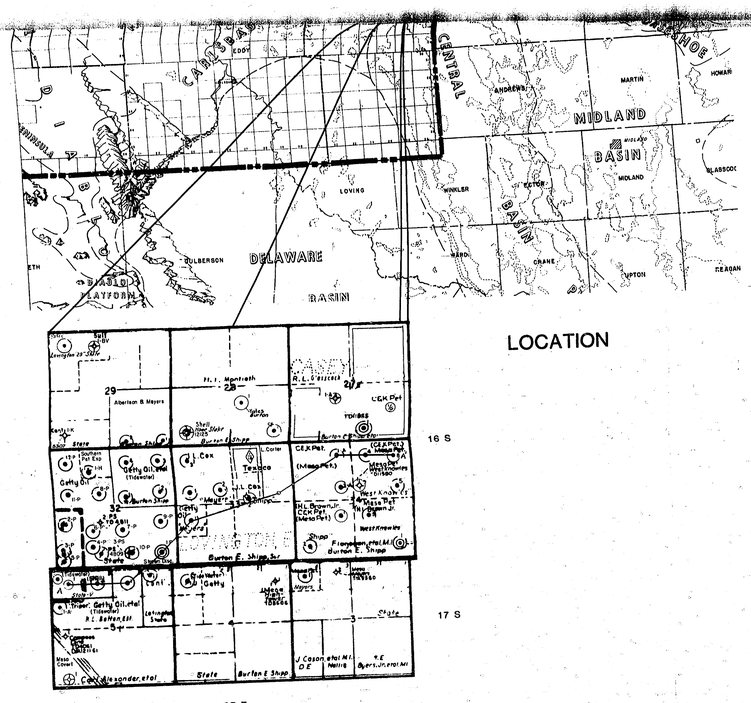


LOCATION

DST - 7852-7894
rec - 120' OWCM + 30'HO+OCM

TUBB

Perf - 7975-8016

LOWER CLEAR FORK (Drinkard)

DST - 8312-8450
rec - 10' oil + 120' SOCM

Dst - 8448-8485
rec - 210' SO+OCM

Dst - 10370-400
rec - WB+280' SGCM+777' SW

DST - 10890-11066
flow - 4580PH

PERF - 10890-11000

STRAWN

Dst 10977-11124
oil + gas in 28 min

Perf - 11028-54

DST - 11066-11120'
rec - 7740' fluid (1980

TD 11065 6/21/52

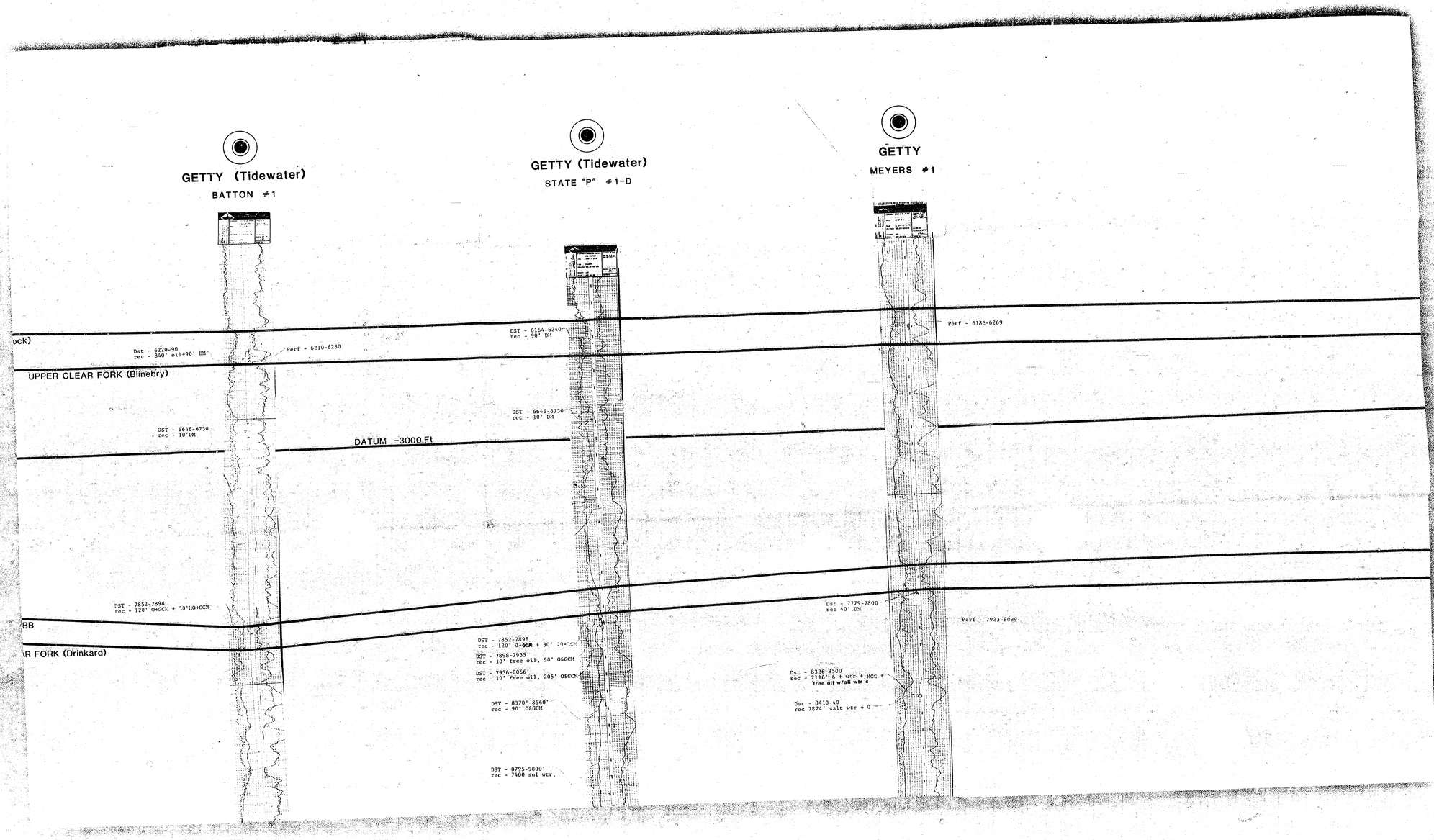
IP (STRAWN) F 392 BOPD

TD 11124 3/3/52

IP (STRAWN) F 688 BOPD

W.P.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



W.R.M.C.F. MICROGRAPHICS
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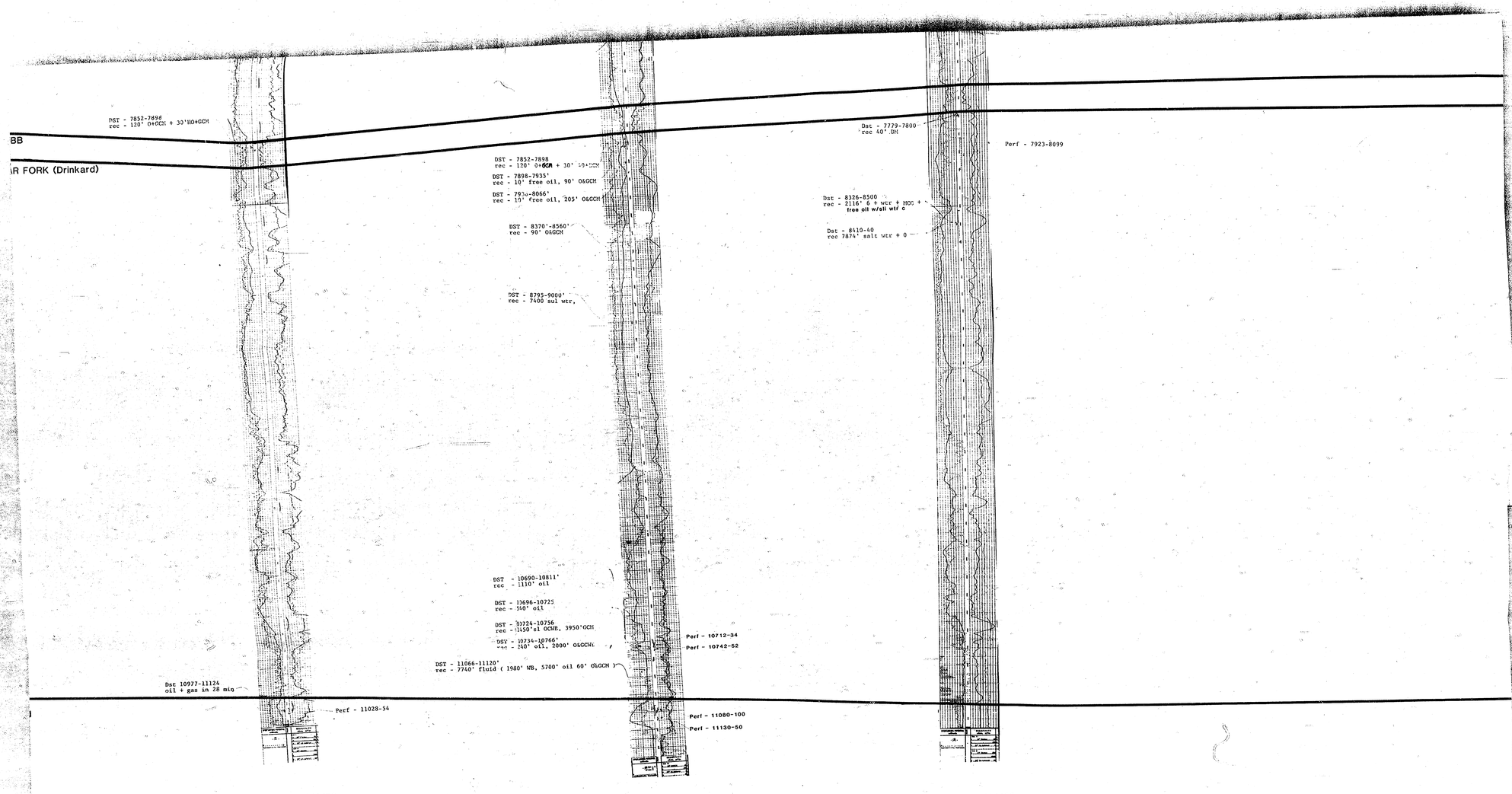


TD 11124 3/3/52

IP (STRAWN) F 688 BOPD

TD 12572 3/30/51

IP (STRAWN) F 766.87 BOPD

TD 11254 2/11/52

V.P.I.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

TEXACO
PROPOSED LOCATION
LEE CARTER #1

C&K
SHIPP "A" #1

MESA
WEST KNOWLES #4

GLORIETA (Paddock)

UPPER CLEAR FORK (Blinebry)

DATUM -3000 Ft

TUBB

LOWER CLEAR FORK (Drinkard)

f - 6186-6269

erf - 7923-8099

DST - 8304-8384
rec - 215' slt O+GCDF

Dst
rec

Dst
rec

W.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

TUBB

LOWER CLEAR FORK (Drinkard)

Perf - 7923-8099

DST - 8004-8384
rec - 215' sli O+GCDF

Dst
rec

Dst
rec

STRAWN

TD 11500

DST - 11309-450
rev out 1120U' gas and oil

Perf - 11390-400
Flwd 250BO

Perf - 11472-476
swbd - 75BFW

TD 11582 8/8/75

IP (STRAWN) F 480 BOPD

Dst - 11302-410
flwd oil + gas

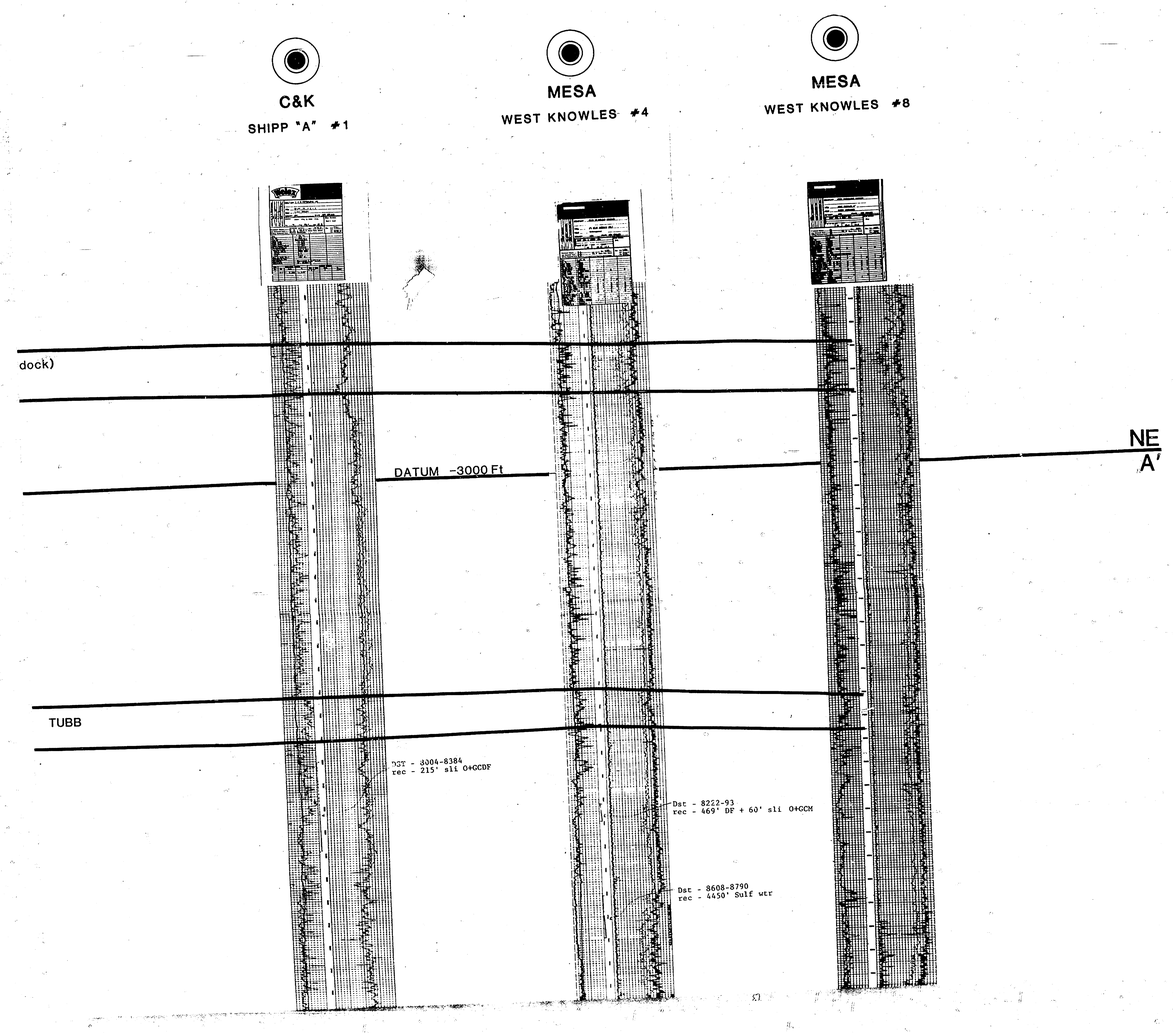
Perf - 11354 - 359
11365 - 382
11383 - 396
flwd - 530BO

TD 11900 6/6/75

IP (STRAWN) F 530 BOPD

W.M.H.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



W.H.R.C.F. MICROGRAPHICS

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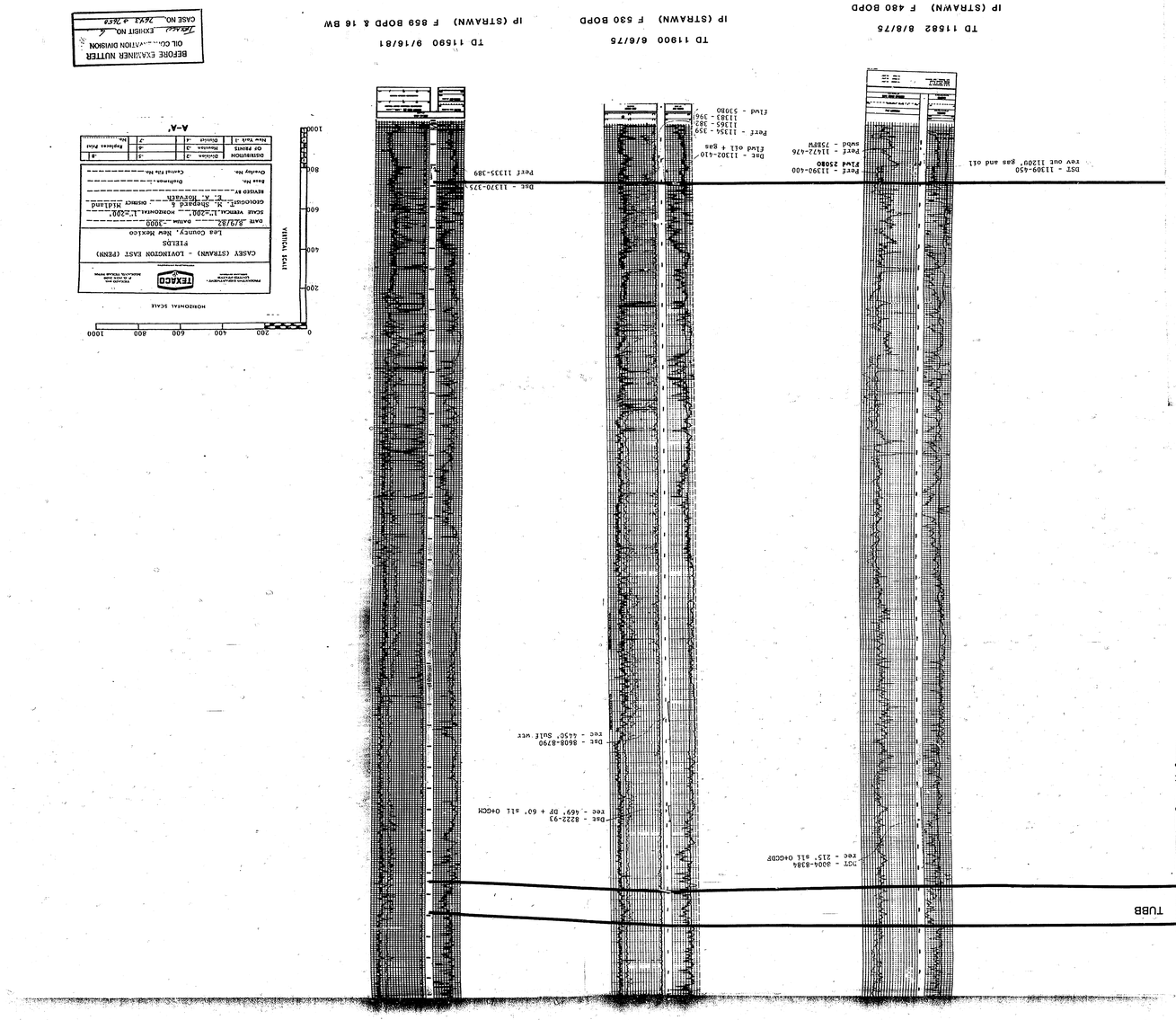
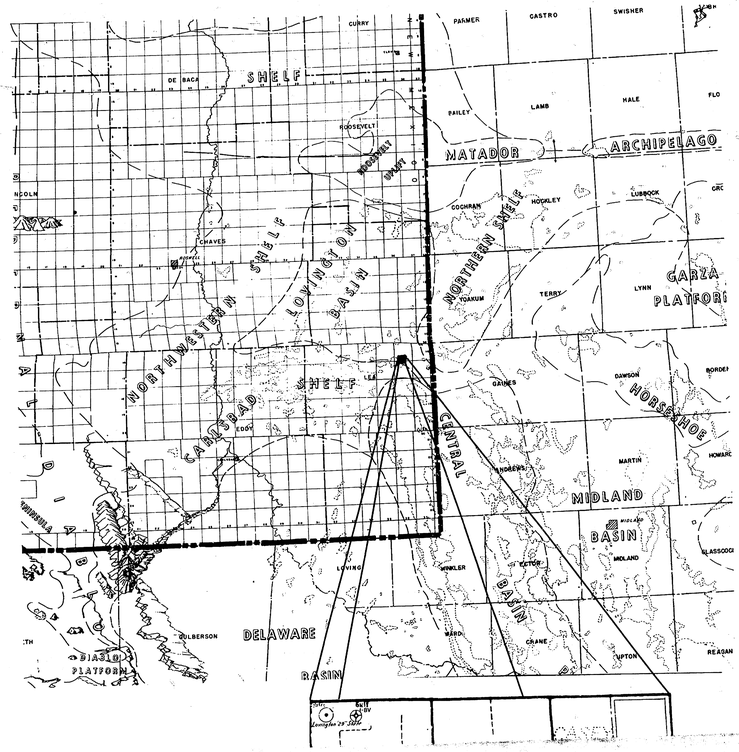
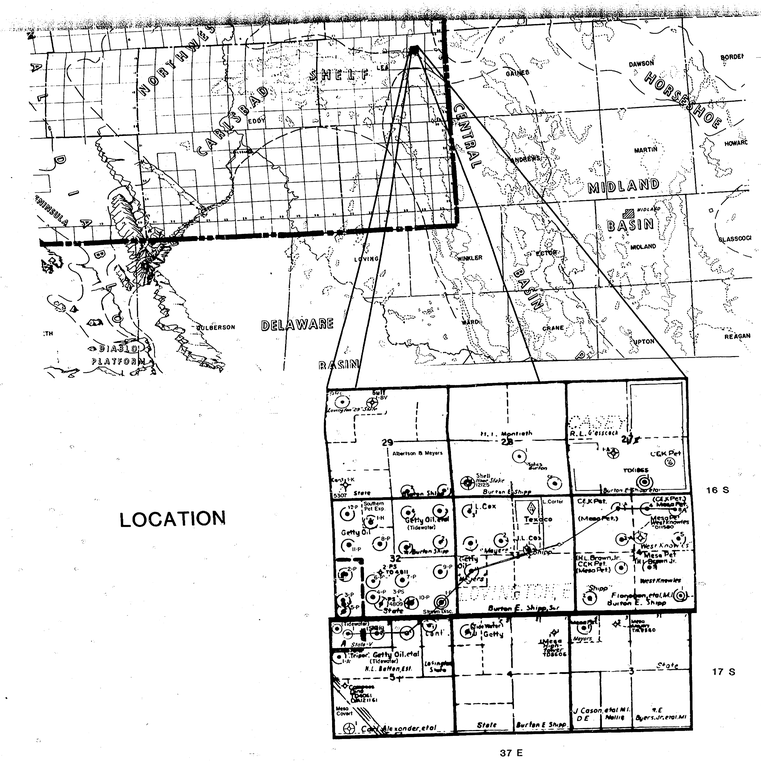
U.S.G.S.
NATIONAL CENTER


TD 11682 8/8/75
IP (STRAWN) F 480 BOPD
TD 11900 6/6/75
IP (STRAWN) F 530 BOPD
TD 11590 9/16/81
IP (STRAWN) F 859 BOPD & 16 BW
DST - 11309-450
rev out 11200' gas and oil
Perf - 11390-400
Plug 25000
Perf - 11072-476
swbd - 75BPW
Dst - 11202-410
flwd oil + gas
Perf - 11334 - 359
11345 - 362
11383 - 396
flwd - 510BO
Dst - 11320-325
Perf 11335-389
DST - 8004-8384
rec - 215' sli O+CGDF
Dst - 8228-93
rec - 467' DF + 60' sli O+GCM
Dst - 8608-8790
rec - 4130' Sulf wtr
TUBB
HORIZONTAL SCALE
0
200
400
600
800
1000
VERTICAL SCALE
100
200
400
600
800
1000
TEXACO
PRODUCING DEPARTMENT
DENVER DIVISION
P. O. BOX 3109
MIDLAND, TEXAS 79702
CASEY (STRAWN) - LOVINGTON EAST (PENN)
FIELDS
Lea County, New Mexico
DATE 8/9/82 Datum -3000
SCALE VERTICAL 1"=200' HORIZONTAL 1"=200'
GEOLOGIST M. Shepard & DISTRICT Midland
RECVD BY E. A. Hosveath
Base Map Bottoms
Overlay No. Cancel Fm No.
DISTRIBUTION OF PRINTS
Division
Houston
Midland
New York
A-A'
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 6
CASE NO. 7643 & 7659


CURRY
PARMER
CASTRO
SWISHER
DE BACA
ROOSEVELT
PARMER
CASTRO
SWISHER
HALE
FLO
PARMER
CASTRO
SWISHER
HALE
FLO
PARMER
CASTRO
SWISHER
HALE
FLO



LOCATION

SW
A

DATUM -7300 Ft

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

MICROLOGGING®

Mud Not.	Aquagel	Company: Tidewater Assoc. Oil Co.	
Resistivity	50 @ 60°F		
Rest. Emf	20 @ 158°F	Well: State Y-1	Field: S. Lovington
Wat. Loss	14 cc/30m		
Bit Size	7/8"	County: Lea	State: New Mexico

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms. m^2/m
-10+		o Microinverse AO=1.5" 15
0 Radioactivity Increases		o Micronormal AM=2" 15

RESISTIVITY -ohms. m^2/m	
0	0
0 10" Normal 150	0
0 1500	0
0 32"&64" Lateral 100	0

DATUM -7200 Ft

TD 11065 6/21/52
IP (Strawn) F 392 BOPD

SCHLUMBERGER

Mud Not.	Chem-Gel
Resistivity	1.70@
Rest. Emf	6 @
Wat. Loss	8.4 cc
Bit Size	7 7/8

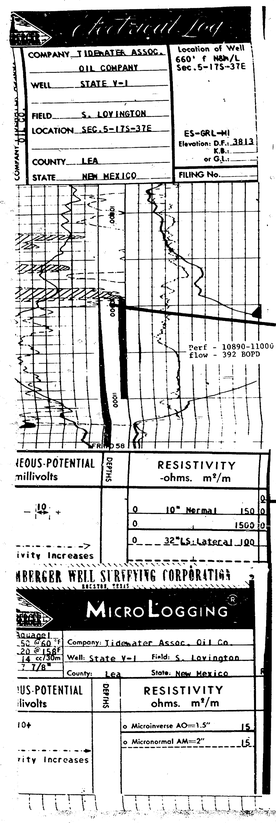
SPONTANEOUS-PO millivolts
-20+
0
Radioactivity In

IP (

U.S.G.S. PHOTOGRAPHICS
BEST AVAILABLE COPY

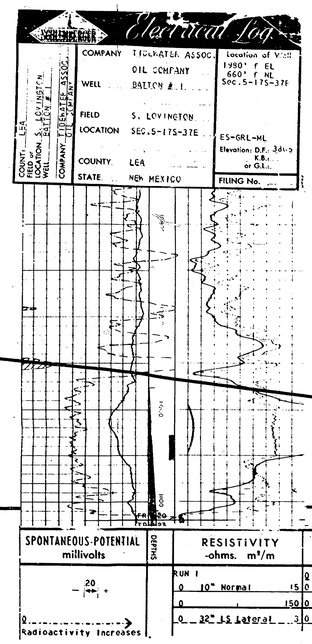
ETTY (TIDEWATER)

STATE "V" #1-D



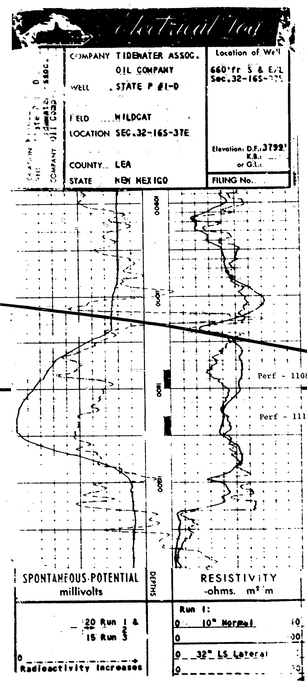
GETTY (TIDEWATER)

BATTON #1



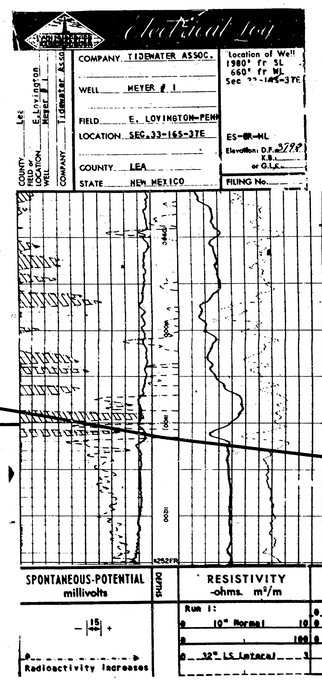
GETTY (TIDEWATER)

STATE "P" #1-D



GETTY (TIDEWATER)

MEYERS #1



TOP-STRAWN

DATUM -7300 Ft

V.R.R.C.F. MICROGRAPHICS

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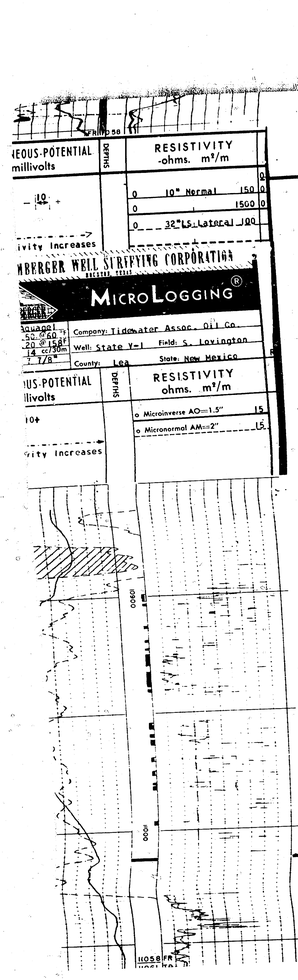
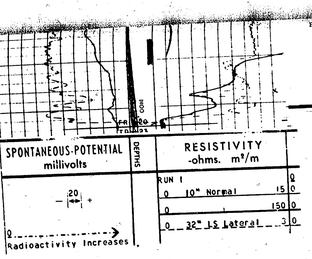
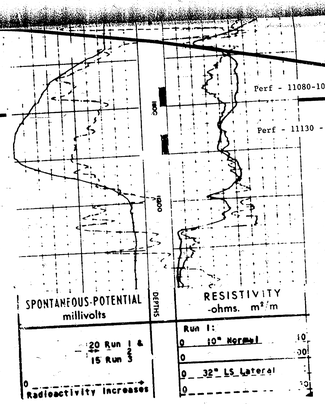


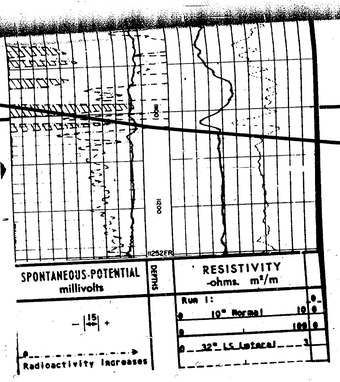
TD 11065 6/21/52
IP (Strawn) F 392 BOPD



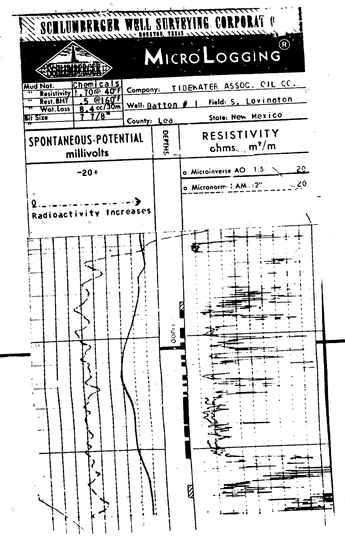
DATUM -7300 Ft



TD 12572 3/30/51
IP (Strawn) F 766.87 BOPD



TD 11254 12/3/73
NO STRAWN PRODUCTION



DATUM - 7200 Ft

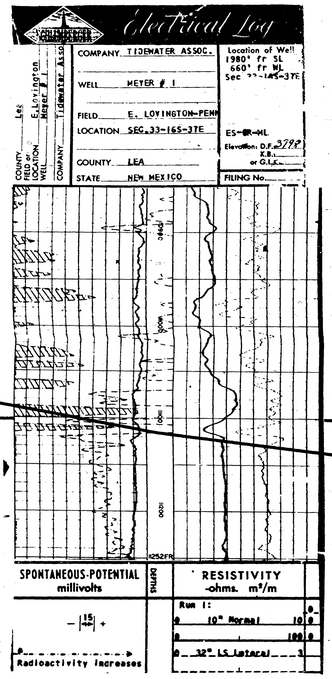
TD 11124 3/3/52
IP (Strawn) F 668 BOPD

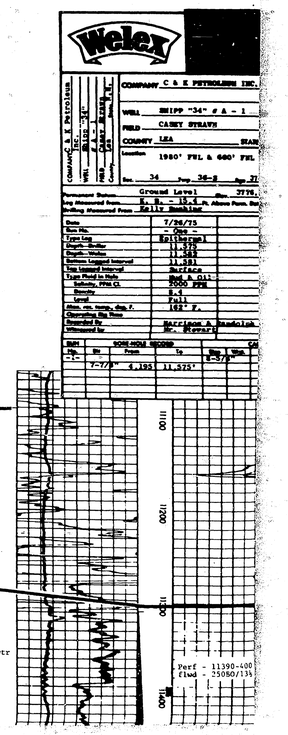
M.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

GETTY (TIDEWATER)
MEYERS #1

TEXACO
PROPOSED LOCATION
LEE CARTER #1

SHIPP





W.P.M.C.F. MICROGRAPHICS
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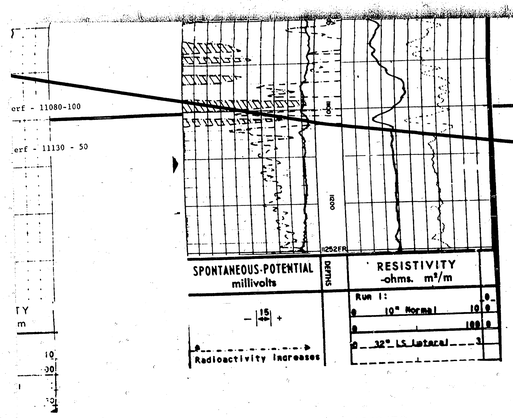


erf - 11080-100

erf - 11130 - 50

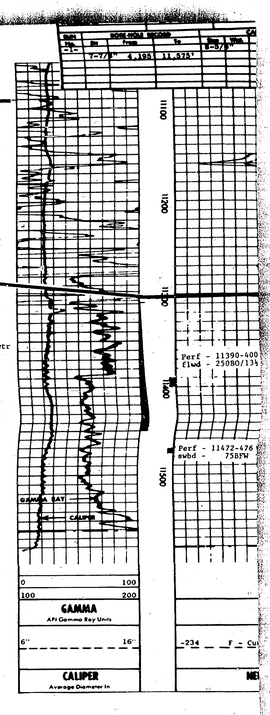
TD 11254 12/3/73
NO STRAWN PRODUCTION

DATUM -7300 Ft

TOP-STRAWN

TD 11500

DSZ - 11309-43w
rev out - 11,200' gas+oil+100' wtr



TD 11582 8/8/
IP (Strawn) F 480

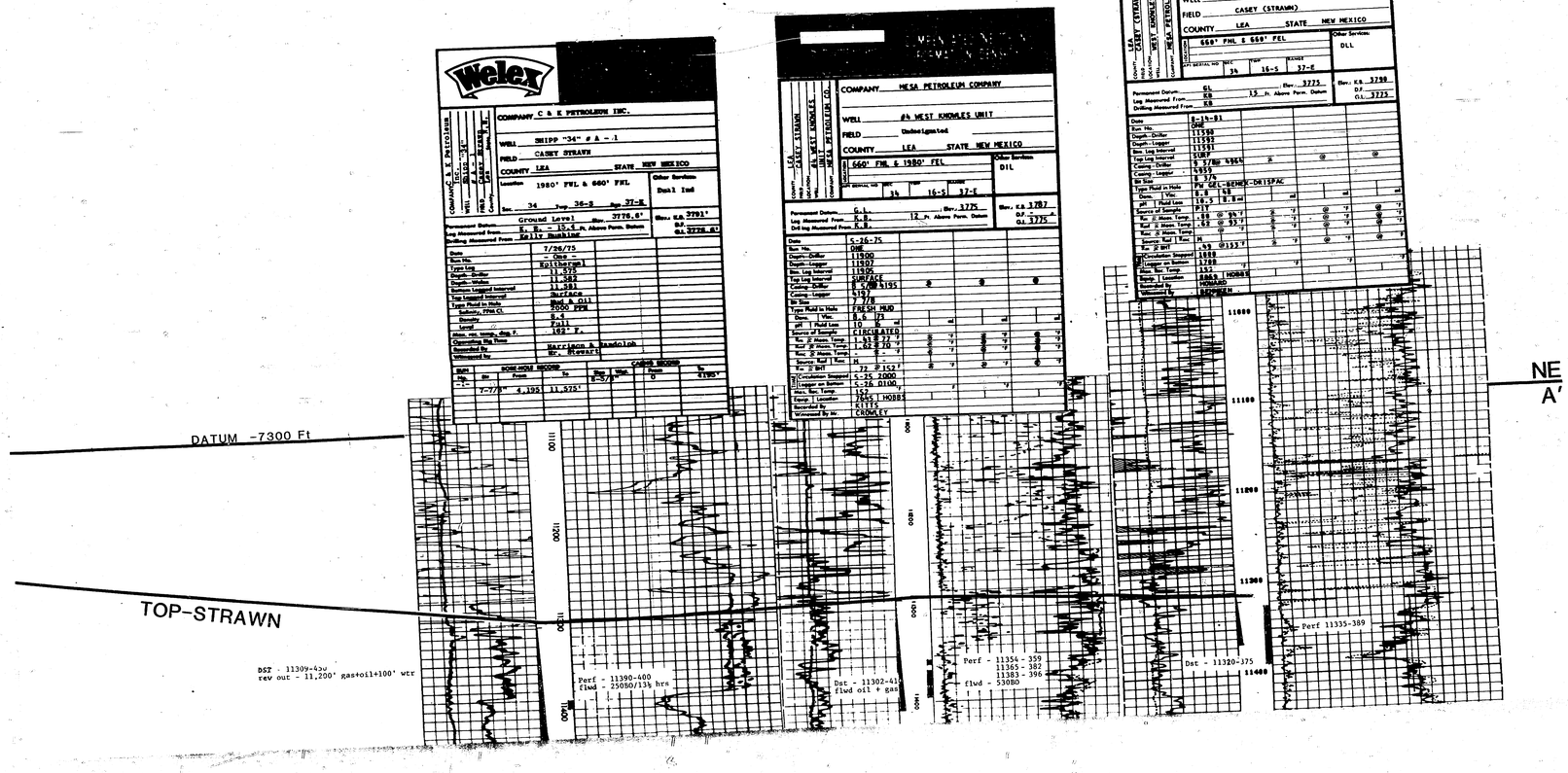
W.P.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

CO
LOCATION
R #1

C&K
SHIPP "A" #1

MESA
WEST KNOWLES #4

MESA
WEST KNOWLES #8



W.H.M.C.F. MICROGRAPHICS
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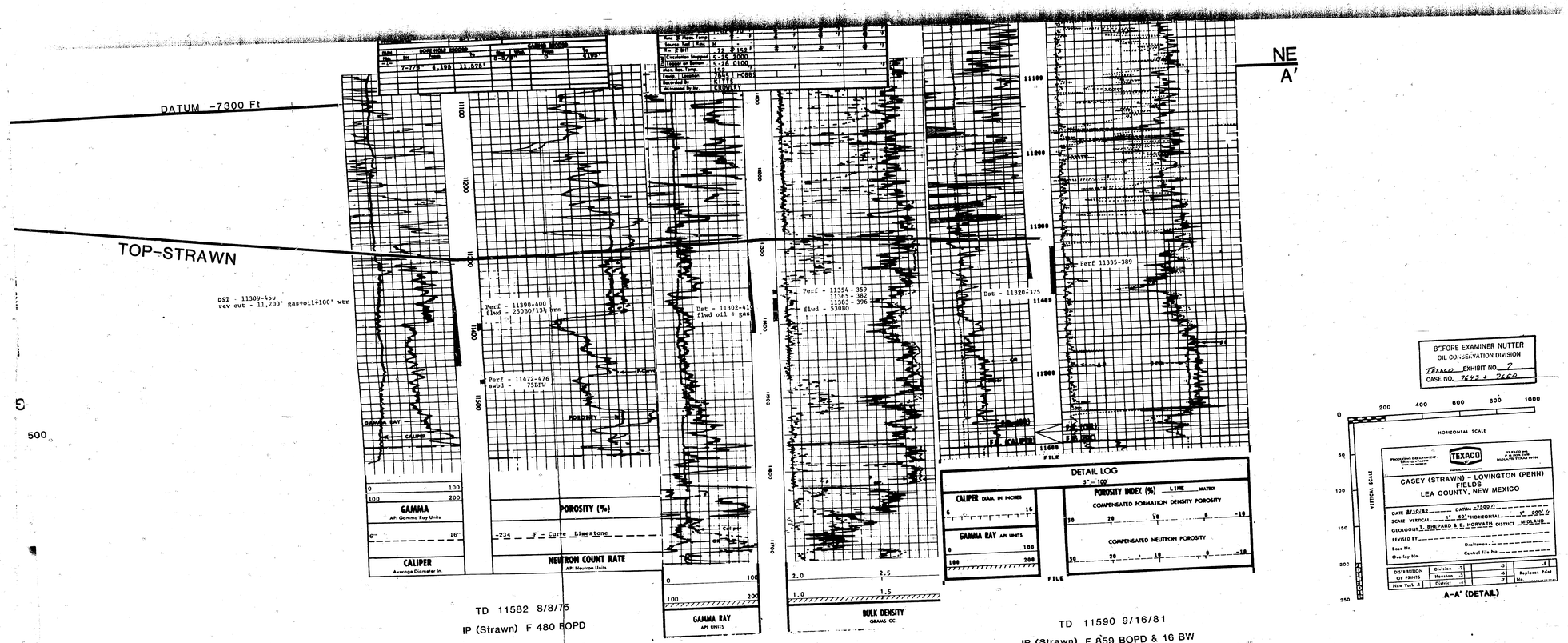


TD 11582 8/8/75
IP (Strawn) F 480 BOPD

TD 11900 6/6/75
IP (Strawn) F 530 BOPD

TD 11590 9/16/81
IP (Strawn) F 859 BOPD & 16 BW

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
TEXACO EXHIBIT NO. 7
CASE NO. 7643 & 7650

HORIZONTAL SCALE
VERTICAL SCALE

TEXACO
PRODUCING DEPARTMENT - UNITED STATES
TEXACO INC. P. O. BOX 3109 MIDLAND, TEXAS 79702

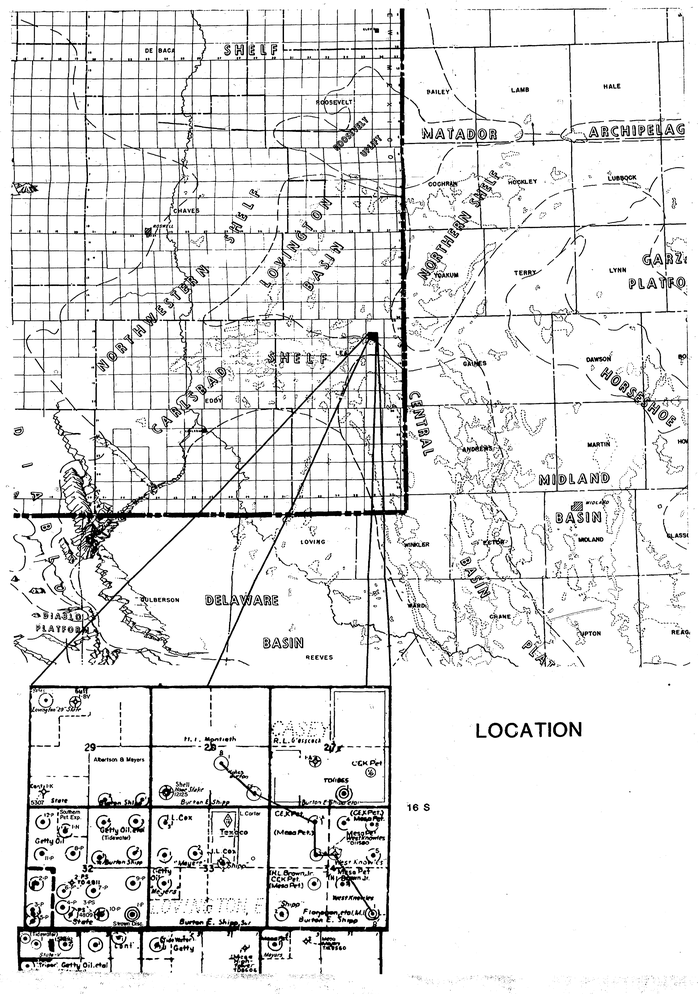
CASEY (STRAWN) - LOVINGTON (PENN) FIELDS
LEA COUNTY, NEW MEXICO

DATE 8/10/82 DATUM -7300 ft
SCALE VERTICAL 1" = 50' HORIZONTAL 1" = 200' ft
GEOLOGIST T. SHEPARD & E. HORVATH DISTRICT MIDLAND
REVISED BY
Base No. Draftsman
Overlay No. Central File No.

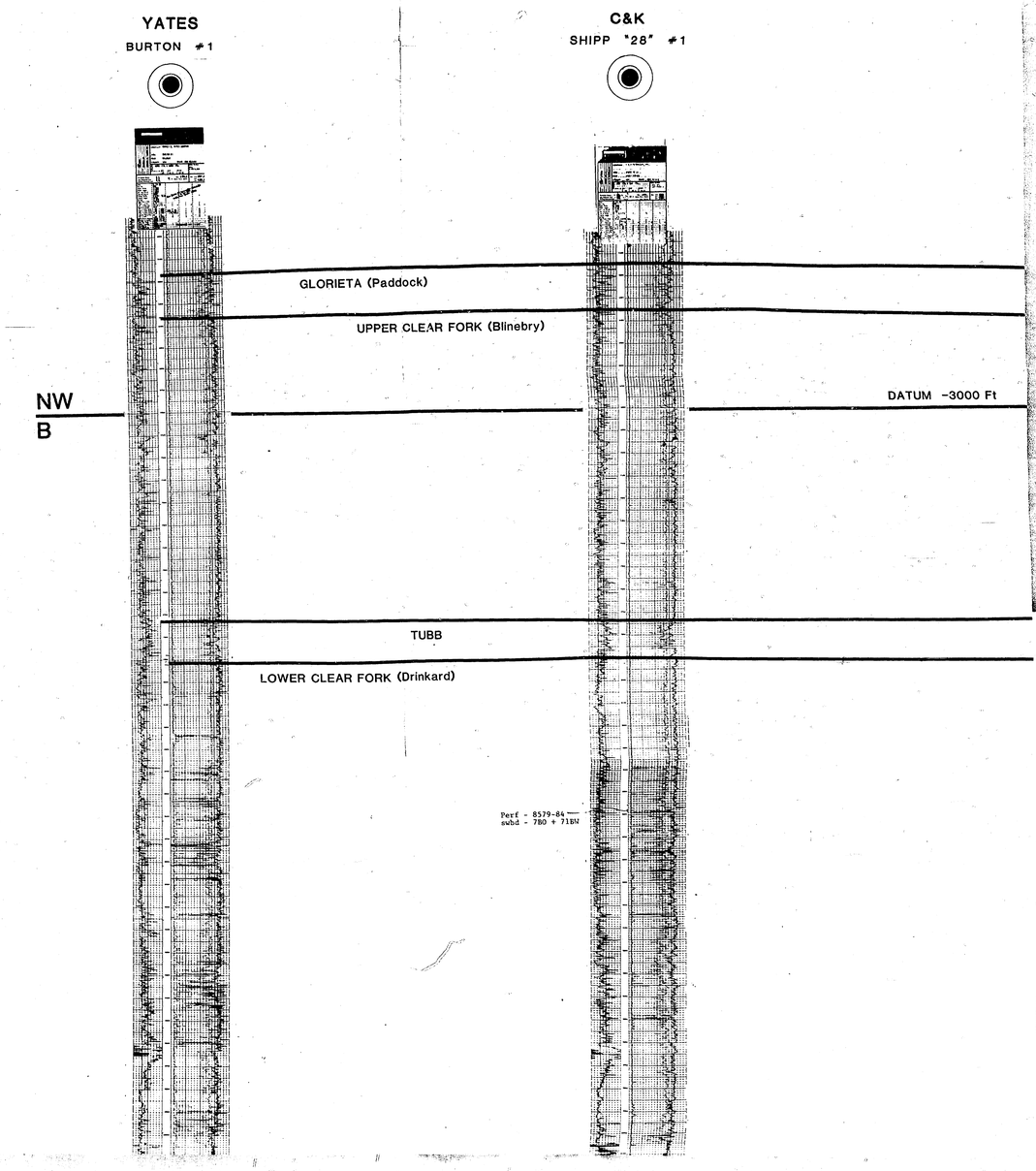
DISTRIBUTION OF PRINTS				
New York -1	Division -3		-5	-8
	Houston -3		-6	Replaces Print No.
	District -4		-7	

A-A' (DETAIL)

W.P.A.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



LOCATION



W.P.M.C.F. MICROGRAPHICS
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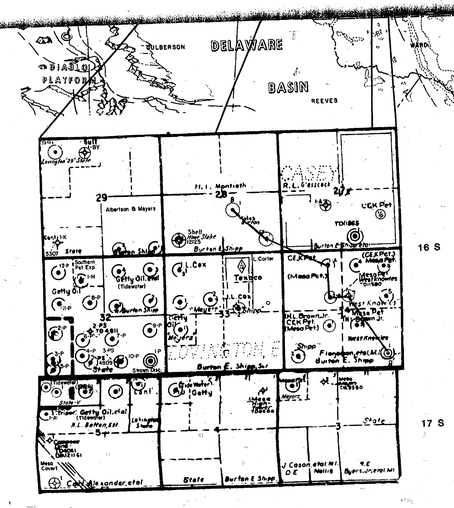
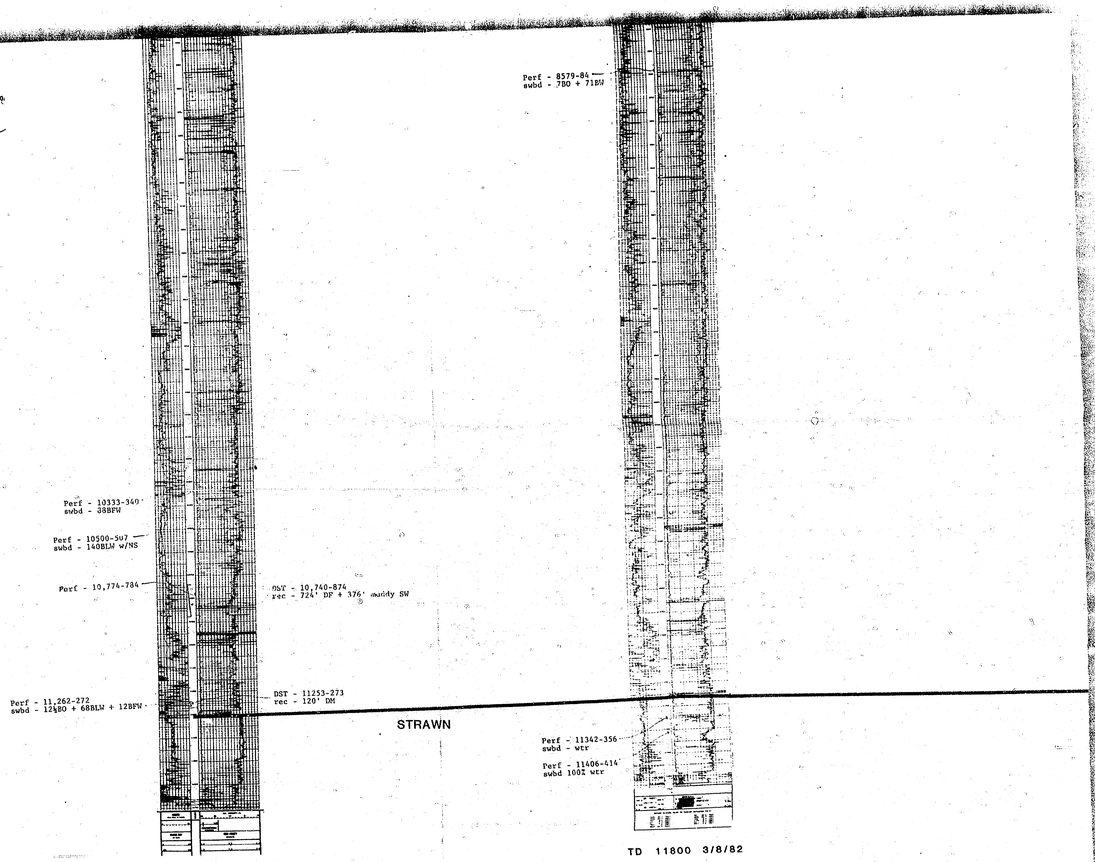


LOCATION



TD 11700 10/1/79

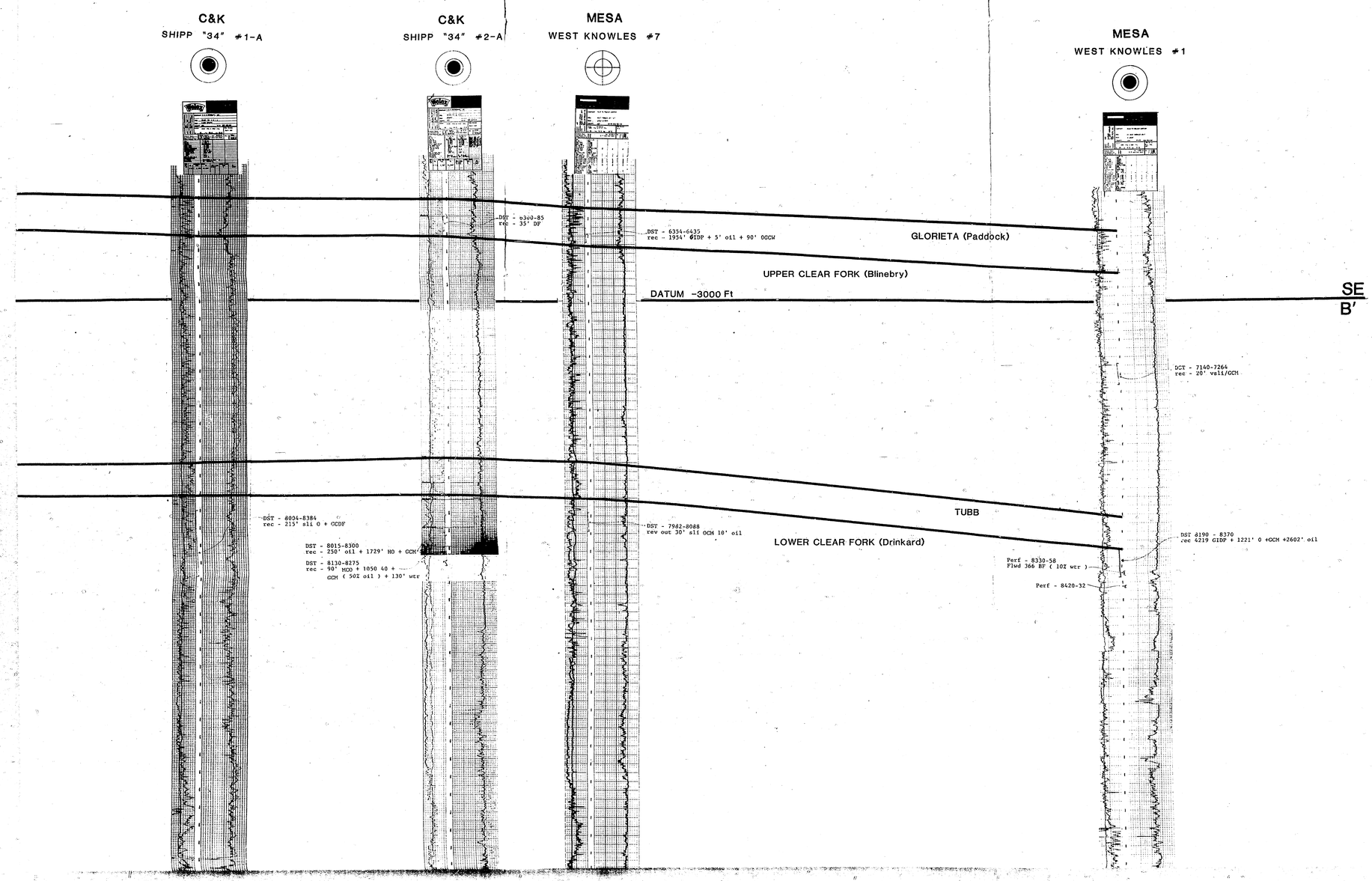
NO STRAWN PRODUCTION

TD 11800 3/8/82

STRAWN WET

W.R.E.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



W.H.R.C.F. MICROGRAPHICS

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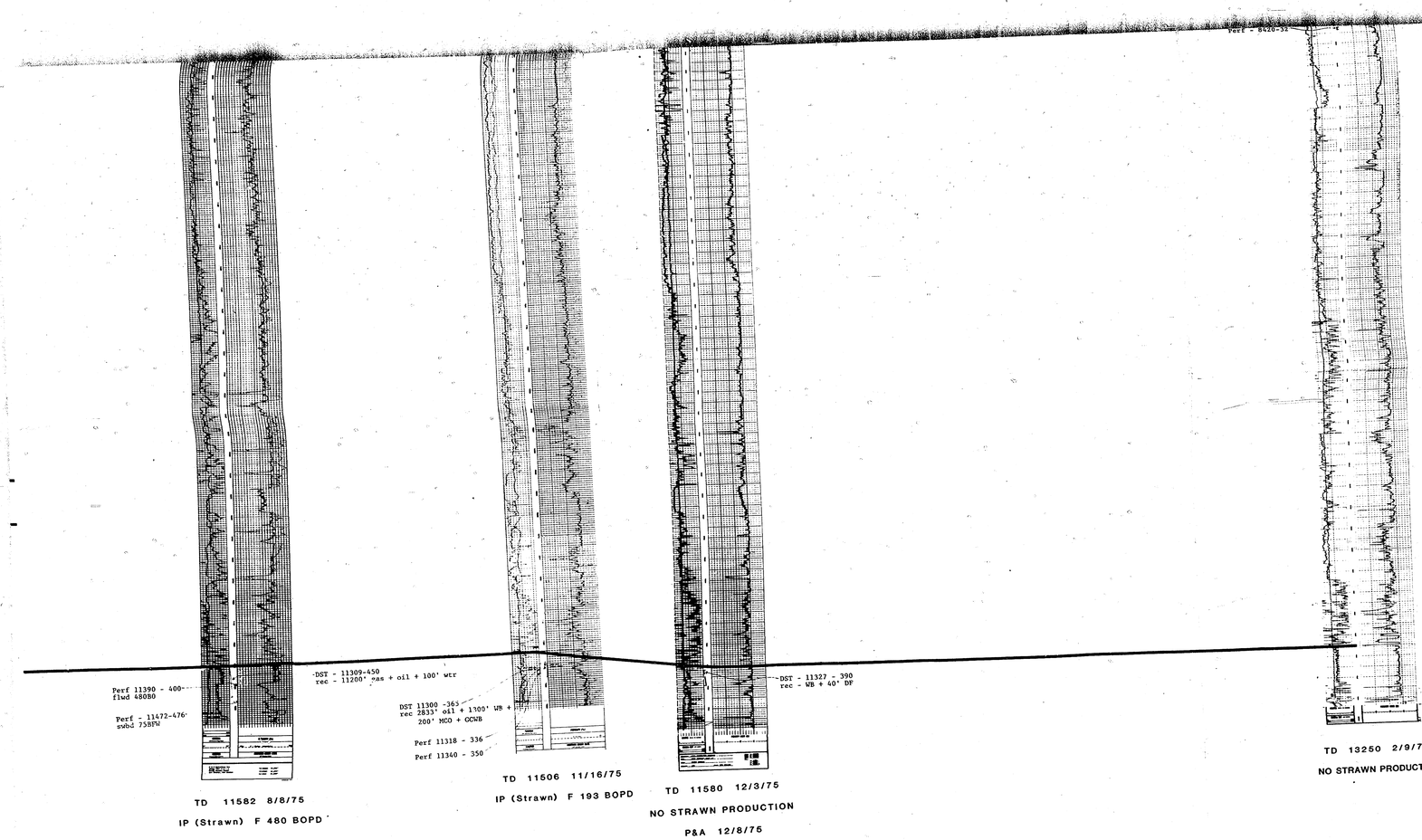
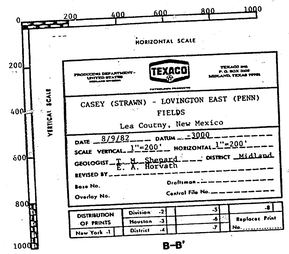
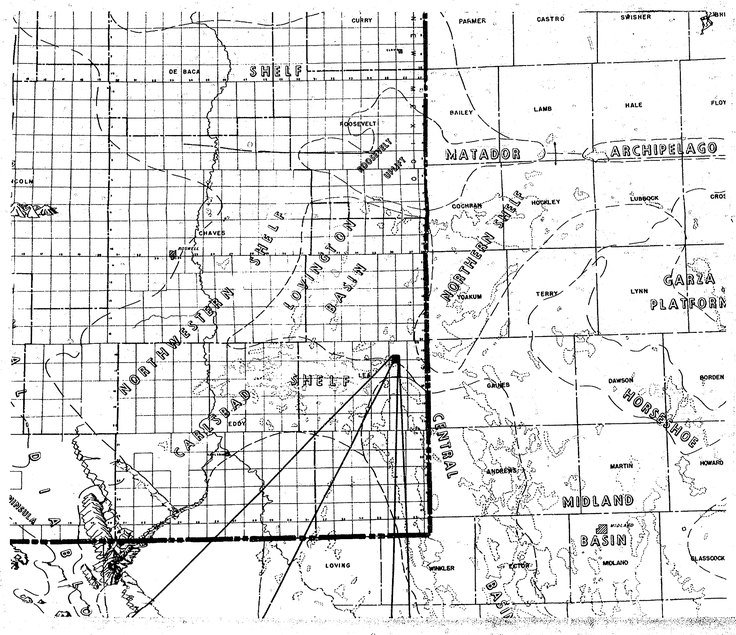


BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Texaco EXHIBIT NO. X
CASE NO. 7641 & 7650



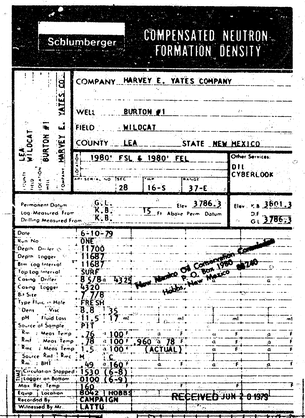
B-B'

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



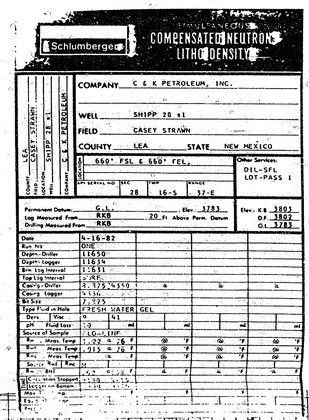
YATES

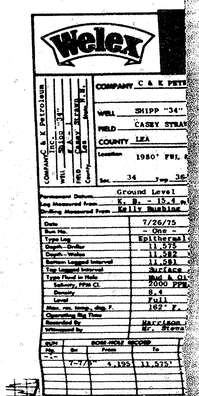
BURTON #1



C&K

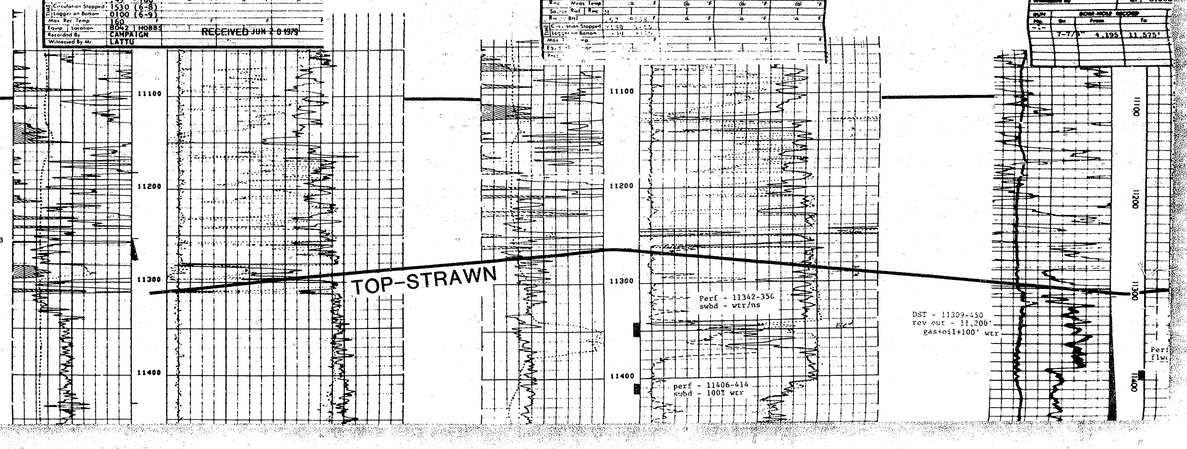
SHIPP "28" #1



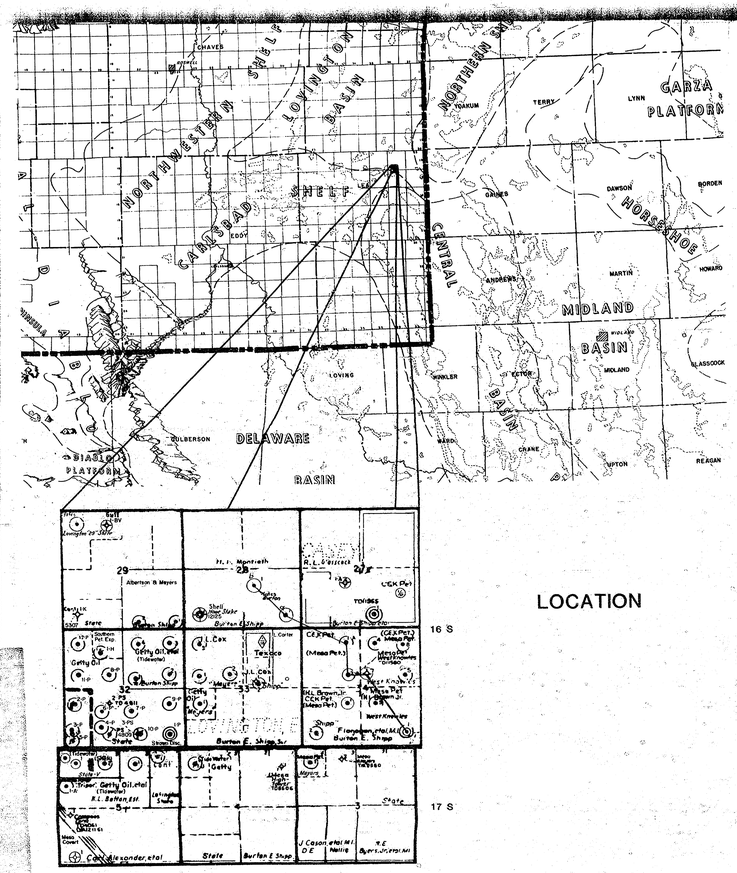


NW

B

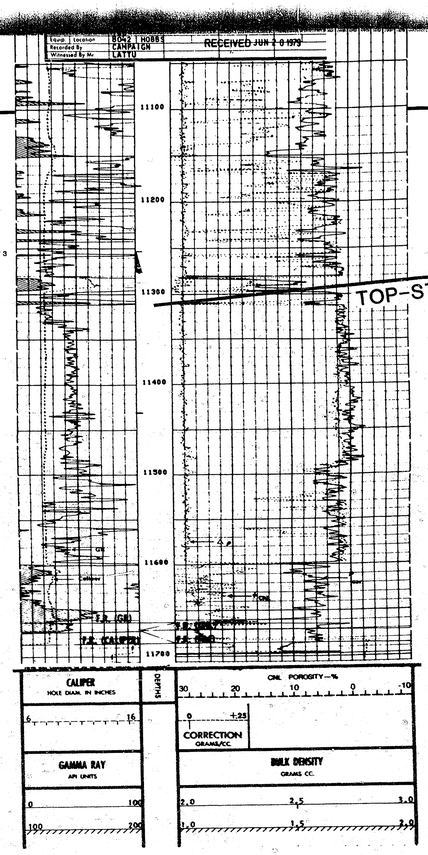


W.R.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



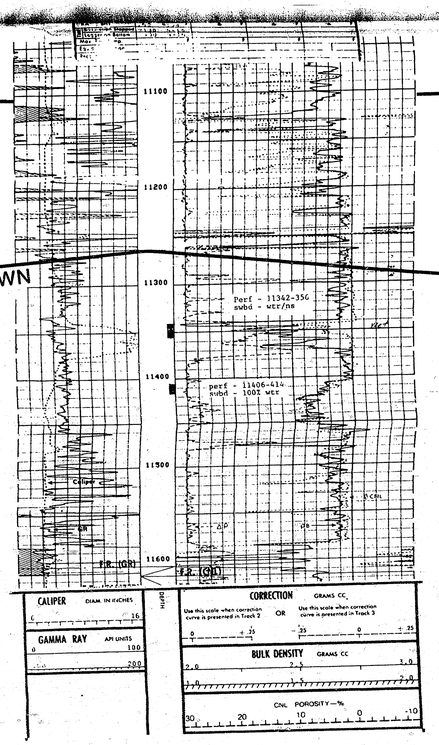
NW
B

DST - 11263-273
rec - 120' DM



TD 11700 10/1/79
NO STRAWN PRODUCTION

TOP-STRAWN

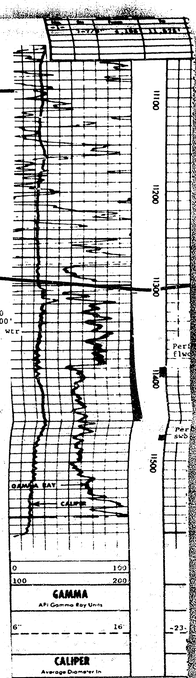


Perf - 11342-356
swbd - wcr/ns

perf - 11406-414
swbd - 1002 wcr

TD 11800 3/8/82
STRAWN WET
NO STRAWN PRODUCTION

DST - 11309-450
rev out - 11,200'
gas+oil+700' wcr



C & K Petroleum Inc.
Shipp "34" # A - 1
Casey Strawn Field
Lea County, New Mexico

TD 11580
IP (Strawn)

U.S.G.S. PHOTOGRAPHICS
BEST AVAILABLE COPY

C&K
SHIPP "28" #1

C&K
SHIPP "34" #1-A

C&K
SHIPP "34" #2-A

MESA
WEST KNOWLES #7

Schlumberger
COMPENSATED NEUTRON LITHO DENSITY

COMPANY C & K PETROLEUM, INC.
WELL SHIPP 28 #1
FIELD CASEY STRAWN
COUNTY LEA STATE NEW MEXICO
660' FSL & 660' FEL
Other Services: DIL-SFL LDT-PASS 1
API Serial No. 28 16-S 37-E

Permanent Datum G.L. Elev. 3783
Log Measured From RKB 20 Ft. Above Perm. Datum
Drilling Measured From RKB
Elev. K.B. 3803 D.F. 3802 G.L. 3783

Date	4-16-82
Run No.	ONE
Depth-Driller	11650
Depth-Logger	11634
Btm. Log Interval	11631
Top Log Interval	2400
Casing-Driller	8.375@4550
Casing-Logger	4550
Bit Size	7.875
Type Fluid in Hole	FRESH WATER GEL
Dens. / Visc.	9 / 41
pH / Fluid loss	10 / mls
Source of Sample	CIRCULATING
Rm @ Meas. Temp	1.22 @ 76 °F
Rmf @ Meas. Temp	.915 @ 76 °F
Rmc @ Meas. Temp	@ °F
Source Rmf / Rmc	
Rm @ BHT	.551 @ 151 °F
Time Circ. Stopped	1:00
Time Logger on Bottom	1:45
Max. Rec. Temp.	151 °F
Equip. No.	
Location	
Recorded By	
Witnessed By	

Welex
SIDEWALL NEUTRON LOG

COMPANY C & K PETROLEUM INC.
WELL SHIPP "34" # A - 1
FIELD CASEY STRAWN
COUNTY LEA STATE NEW MEXICO
Location 1980' FSL & 660' FWL
Other Services: Dual Ind
Sec. 34 Twp. 16-S Rge. 37-E

Permanent Datum Ground Level Elev. 3776.6'
Log Measured From K. B. - 15.4 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing
Elev. K.B. 3791' D.F. G.L. 3776.6'

Date	7/26/75
Run No.	- One -
Type Log	Epithermal
Depth-Driller	11,575
Depth-Logger	11,582
Bottom Logged Interval	11,581
Top Logged Interval	Surface
Type Fluid in Hole	Mud & Oil
Salinity, PPM Cl.	2000 PPM
Density	8.4
Level	Full
Max. rec. temp., deg. F.	162° F.
Operating Rig Time	
Recorded By	Harrison & Randolph
Witnessed By	Mr. Stewart

BORE-HOLE RECORD

Run No.	Bit	From	To
1	7-7/8"	4,195	11,575'

CASING RECORD

No.	Size	Wgt.	From	To
1	8-5/8"		0	4195'

Welex
SIDEWALL NEUTRON LOG

COMPANY C & K PETROLEUM, INC.
WELL SHIPP 34 "A" # 2
FIELD STRAWN
COUNTY LEA STATE NEW MEXICO
Location 2286' FSL & 2086' FWL
Other Services: Dual Ind
Sec. 34 Twp. 16-S Rge. 37-E

Permanent Datum Ground Level Elev. 3774.6'
Log Measured From K. B. - 15.0 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing
Elev. K.B. D.F. G.L. 3774.6'

Date	10/9/75	10/21/75
Run No.	- One -	- Two -
Type Log	Epithermal	Epithermal
Depth-Driller	11,550	11,580
Depth-Logger	11,551	11,580
Bottom Logged Interval	11,551	11,580
Top Logged Interval	4,200	4,200
Type Fluid in Hole	Brine	Brine
Density	10.0	10.0
Level	Full	Full
Max. rec. temp., deg. F.	151	151
Operating Rig Time		
Recorded By	W. Stewart	W. Stewart
Witnessed By		

BORE-HOLE RECORD

Run No.	Bit	From	To
1	7-7/8"	4,200	11,550'
2	7-7/8"	4,200	11,580'

CASING RECORD

No.	Size	Wgt.	From	To
1	8-5/8"	32#	0	4200'

Schlumberger
SIDEWALL NEUTRON POROSITY LOG

COUNTY LEA
FIELD WEST KNOWLES UNIT
LOCATION
COMPANY MESA PETROLEUM CO.

COMPANY MESA PETROLEUM COMPANY
WELL WEST KNOWLES UNIT #7
FIELD CASEY STRAWN
COUNTY LEA STATE NEW MEXICO
Location 1980' FNL & 2130' FEL
API Serial No.
Other Services: DIL
Sec. 34 Twp. 16-S Rge. 37-E

Permanent Datum G.L. Elev. 3771.4
Log Measured From K.B. 13 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev. K.B. 3786 D.F. 3785 G.L. 3771.4

Date	12-1-75
Run No.	ONE
Depth-Driller	11580
Depth-Logger	11578
Btm. Log Interval	11578
Top Log Interval	SURF
Casing-Driller	8 5/8 @ 4200
Casing-Logger	4196
Bit Size	7.7/8
Type Fluid in Hole	FRESH MUD
Dens. / Visc.	8.7 / 37
pH / Fluid loss	9 / 10.4 cc
Source of Sample	CIRCULATED
Rm @ Meas. Temp	.82 @ 70 °F
Rmf @ Meas. Temp	.62 @ 72 °F
Rmc @ Meas. Temp	1.31 @ 70 °F
Source Rmf / Rmc	M / M
Rm @ BHT	.40 @ 151 °F
Time Circ. Stopped	7:00
Time Logger on Bottom	1300
Max. Rec. Temp.	151
Equip. Location	7732 HOBBS
Recorded By	MANN
Witnessed By	CROWLEY

DATUM -7300 Ft

TOP-STRAWN

11100
11200
11300
11400

Perf - 11342-356
swbd - wtr/ns

perf - 11406-414
swbd - 100% wtr

DST - 11309-450
rev out - 11,200'
gas+oil+100' wcr

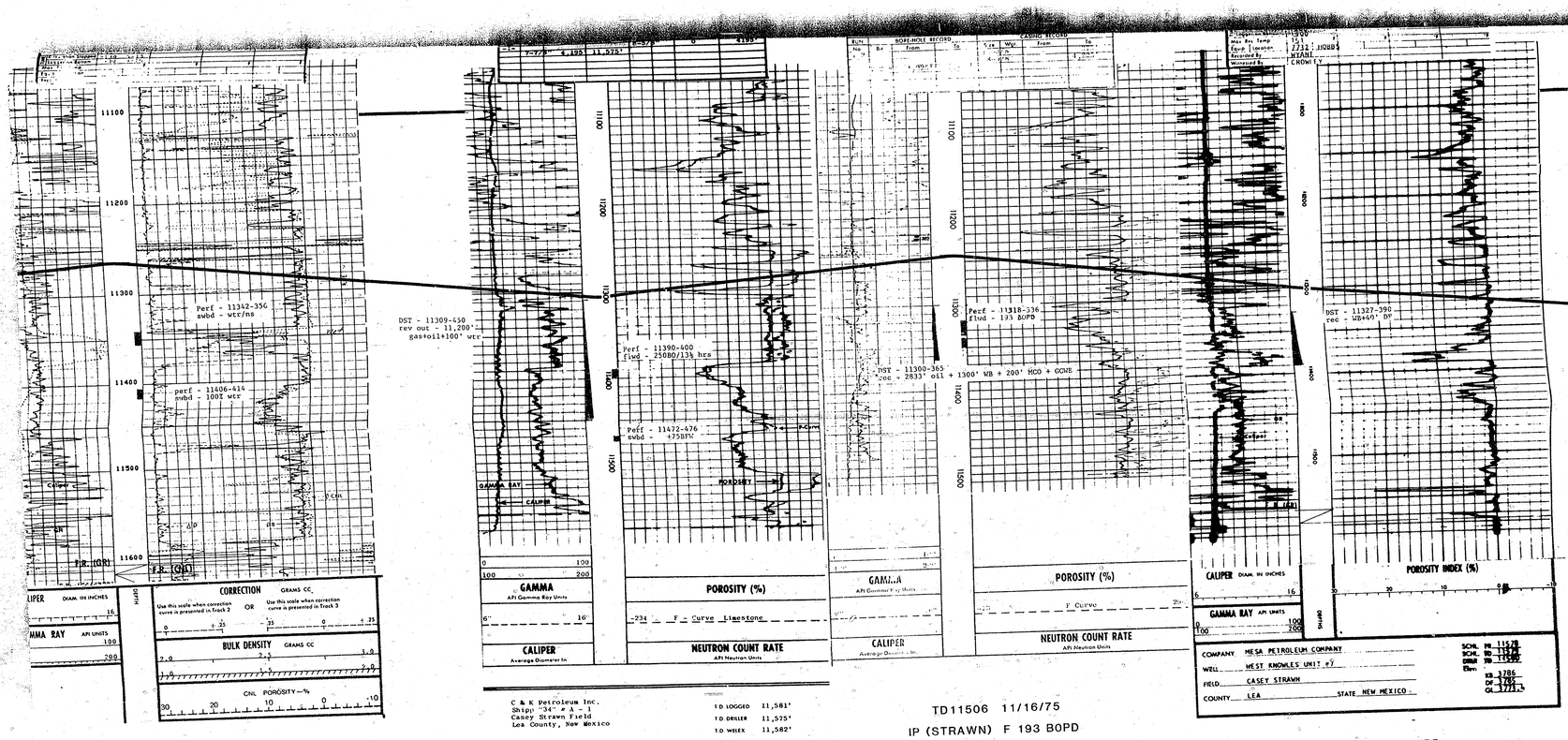
Perf - 11390-400
flwd - 250BO/13¾ hrs

Perf - 11316-336
flwd - 133 BOPD

DST - 11300-365
rec - 2833' oil + 1300' WB + 200' MCO + GCWE

DST - 11327-390
rec - 12469' DC

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



TD 11800 3/8/82
STRAWN WET
NO STRAWN PRODUCTION

C & K Petroleum Inc.
Ship "34" # A - 1
Casey Strawn Field
Lea County, New Mexico

T.D. LOGGED 11,581'
T.D. DRILLER 11,575'
T.D. WELEX 11,582'

TD 11582 8/8/75
IP (Strawn) F 480 BOPD

TD11506 11/16/75
IP (STRAWN) F 193 BOPD

TD 11580 12/3/75
NO STRAWN PRODUCTION

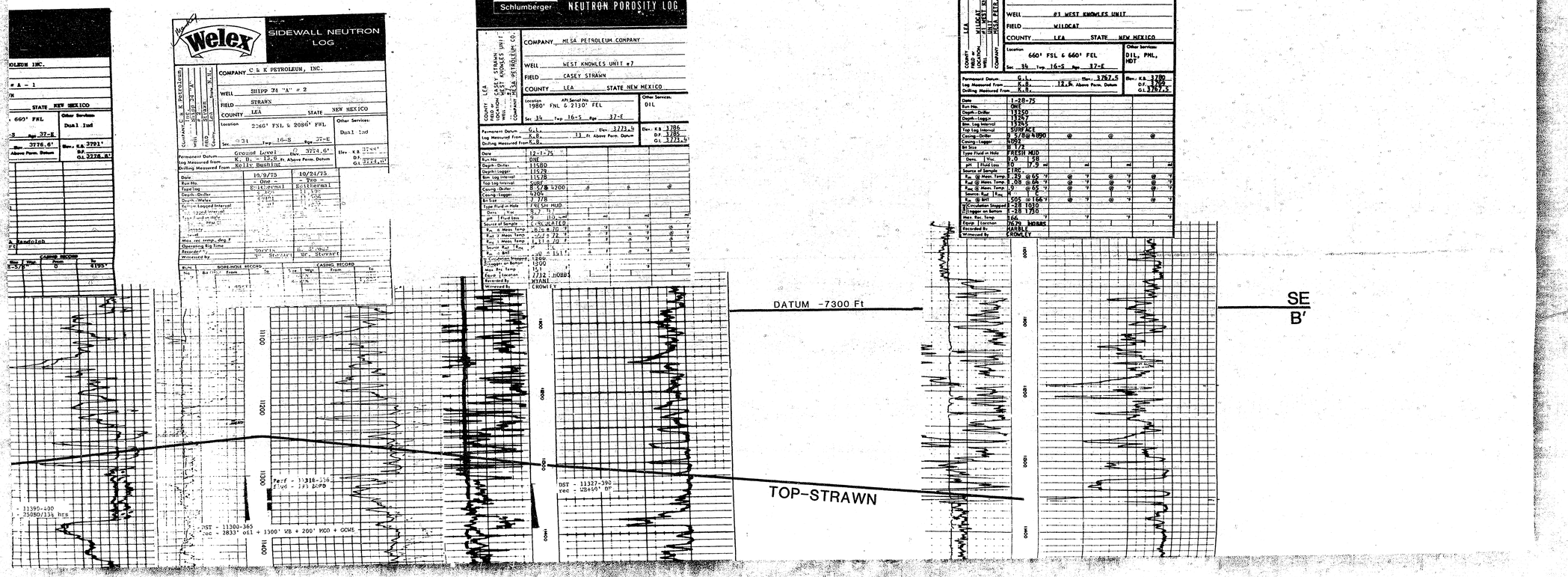
W.S.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

C&K
SHIPP "34" #1-A

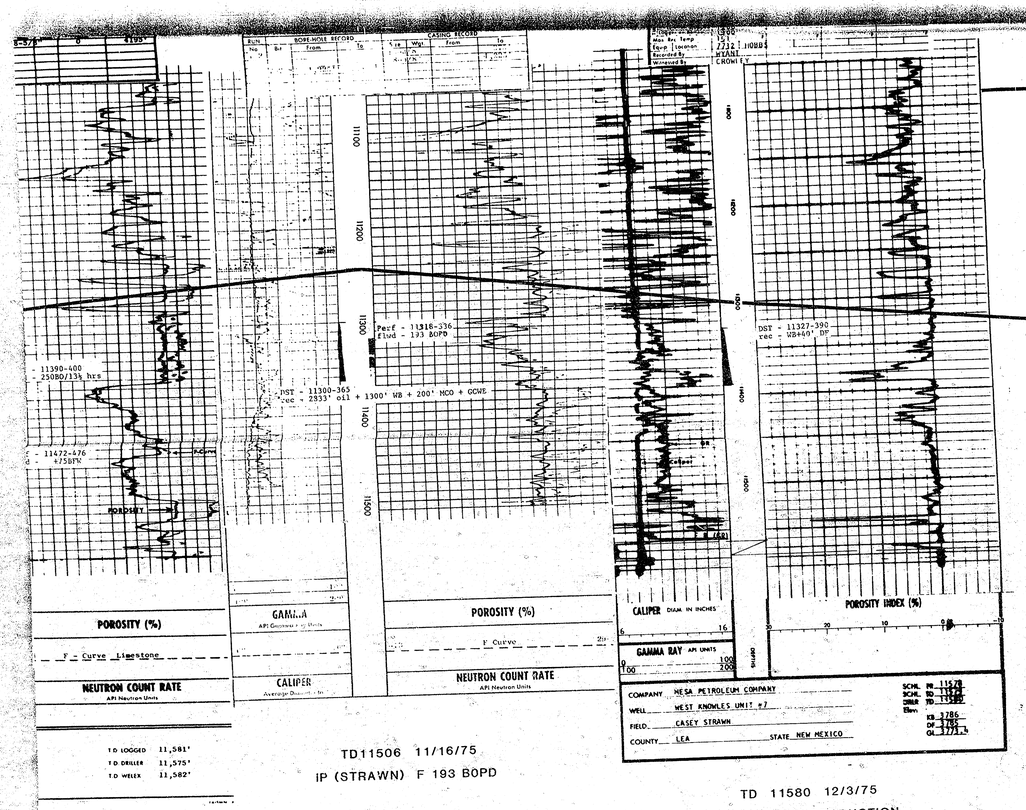
C&K
SHIPP "34" #2-A

MESA
WEST KNOWLES #7

MESA
WEST KNOWLES #1



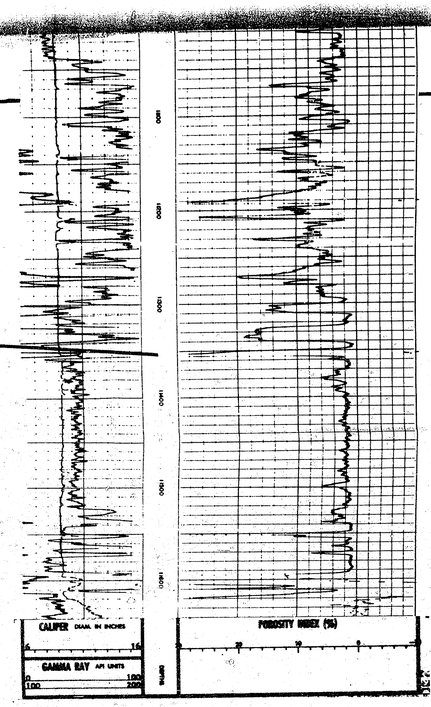
V.S.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



TD11506 11/16/75
IP (STRAWN) F 193 BOPD

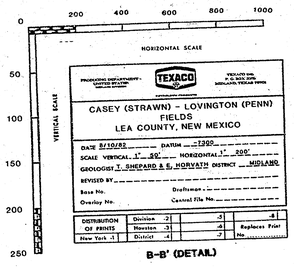
2 8/8/75
F 480 BOPD

TD 11580 12/3/75
NO STRAWN PRODUCTION



TD 13250 2/9/75
NO STRAWN PRODUCTION

SE
B'



B-B' (DETAIL)

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Texaco EXHIBIT NO. 9
CASE NO. 7441 & 7460

U.S.M.C.F. MICROGRAPHICS
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