

PLU # 216

COMPANY: Bass Enterprises Production Company

WELL: Poker Lake Unit #216

FIELD: Nash Draw (Delaware)

County: Eddy State: New Mexico

County: Eddy
Field: Nash Draw (Delaware)
Location: 1980' FNL & 1780' FEL
Well: Poker Lake Unit #216
Company: Bass Enterprises Production Co

Schlumberger
Platform Express
Three Detector Litho-Density
Compensated Neutron / GR

1980' FNL & 1780' FEL		Elev.: K.B. 3191.2 ft G.L. 3171 ft D.F. 3189.8 ft	
Permanent Datum:	Ground Level	Elev.: 3171 ft	
Log Measured From:	Kelly Bushing	20.2 ft above Perm. Datum	
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section	Township	Range
30-015-33861	19	24S	30E
23-Apr-2005			

Logging Date	One		
Run Number	7520 ft		
Depth Driller	7530 ft		
Schlumberger Depth	7512 ft		
Bottom Log Interval	200 ft		
Top Log Interval	11.750 in	@ 493 ft	
Casing Driller Size @ Depth	490 ft		
Casing Schlumberger	7.875 in		
Bit Size	Brine/ Barite/ Diesel		
Type Fluid In Hole	9.1 lbm/gal	47 s	
Density	84.6 cm3	9	
Fluid Loss	Circulation Tank		
Source Of Sample	0.143 ohm.m	@	89 degF
RM @ Measured Temperature	0.084 ohm.m	@	79 degF
RMF @ Measured Temperature	@	@	@
RMC @ Measured Temperature	Measured	@	@
Source RMF	0.108 @ 120	0.057 @ 120	@
RM @ MFT	120 degF		
Recorded Temperatures	23-Apr-2005	2:00	
pped Time	23-Apr-2005	10:25	
tom Time	3178 Roswell		
Location	Shawnee Burdick		
	Simianne Hayden		

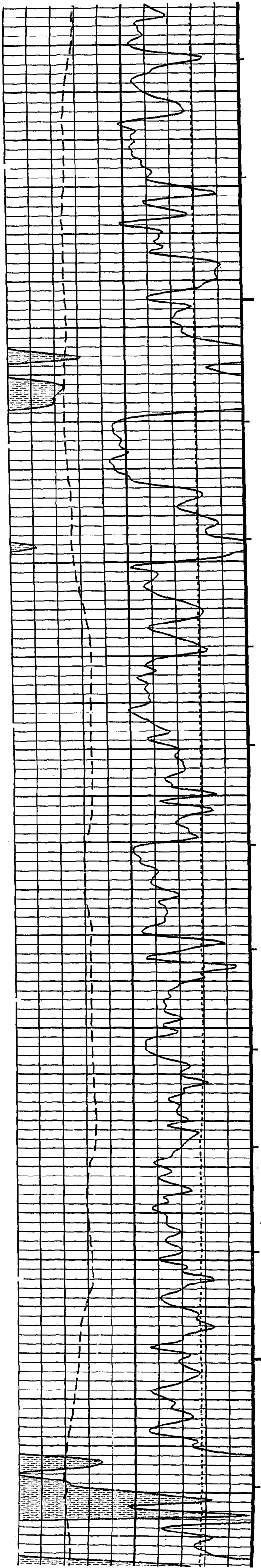
216

HRMS Caliper (HCAL) (IN)	6	16
Cable Tension (TENS) (LBF)	10000	0
Thermal Neutron Porosity (TNPH) (V/V)		
	0.3	-0.1

PIP SUMMARY		
└ Integrated Borehole Volume Every 10 F3		Main Pass 2" = 100'
└ Integrated Borehole Volume Every 100 F3		
└ Integrated Annulus Volume Every 10 F3		
└ Integrated Annulus Volume Every 100 F3		
Time Mark Every 60 S		
Format: 2_nuc Vertical Scale: 2" per 100'		Graphics File Created: 23-Apr-2005 11:18
OP System Version: 12C0-301		
MCM		
HILTB-CTS	SRPC-2699-HILT_b	
Output DLIS Files		
DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:11 PRODUCER 23-Apr-2005 11:18

Output DLIS Files			
DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:11 PRODUCER	23-Apr-2005 11:18 7542.0 FT 181.0 FT
Integrated Hole/Cement Volume Summary			
Hole Volume = 4728.61 F3			
Cement Volume = 3567.54 F3 (assuming 5.50 IN casing O.D.)			
Computed from 7530.0 FT to 493.0 FT using data channel(s) HCAL			
OP System Version: 12C0-301			
MCM			
HILTB-CTS	SRPC-2699-HILT_b		
Changed Parameter Summary			
DLIS Name	New Value	Previous Value	Depth & Time
BS	11.000 IN	7.875 IN	3407.3 12:31:46
RMFS	0.0840 OHMM	-50000.0000 OHMM	5050.7 12:03:51
PIP SUMMARY			
└ Integrated Borehole Volume Every 10 F3			
└ Integrated Borehole Volume Every 100 F3			
└ Integrated Annulus Volume Every 10 F3			
└ Integrated Annulus Volume Every 100 F3			
Time Mark Every 60 S			
Cable Tension (TENS)	Thermal Neutron Porosity (TNPH)		
10000 (LBF) 0	0.3 (V/V) -0.1		
HRMS Caliper (HCAL)	Stan Res Formation Pe Factor (PEFZ)		
6 (IN) 16	0 (---) 10		
GR (GR)	HRDD Density Correction (HDRA)		
0 (GAPI) 100	-0.05 (G/C3) 0.45		
Gamma Ray on Backup	Stan Res Density Porosity [2.71] (DPHZ)		
	0.3 (V/V) -0.1		

2U-216

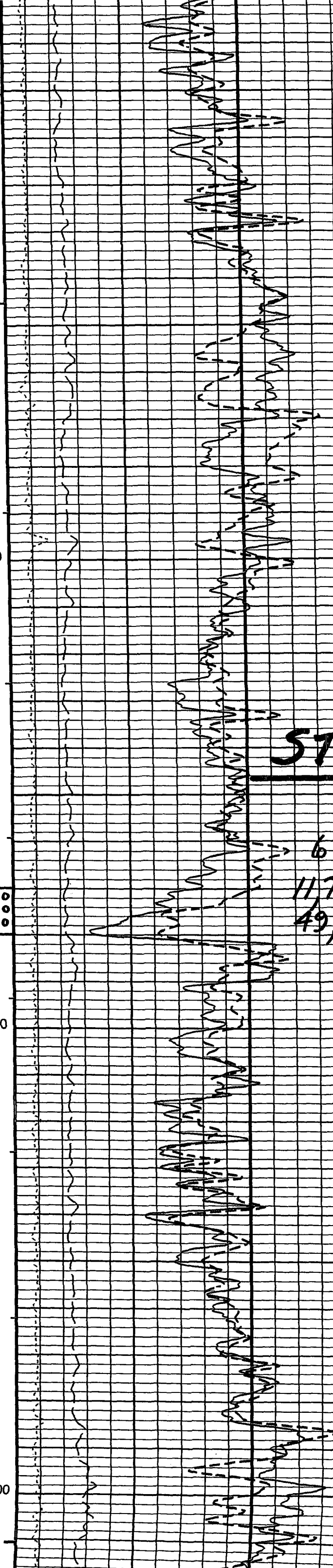
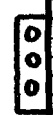


6700

6800

6900

7000



STIMULATION

6870' - 6880'
11,737 gals. Lightning 2500
49,996 # 16/30 Super LC

T/8A

7000

7100

STIMULATION

7143' - 7154'

7212' - 7216'

20,666 gals. PW

18,000 #3 14/30 PL

23,259 gals. LIGHTNING
2500

170,788 #3 16/30

OTTAWA

95,599 #3 16/30

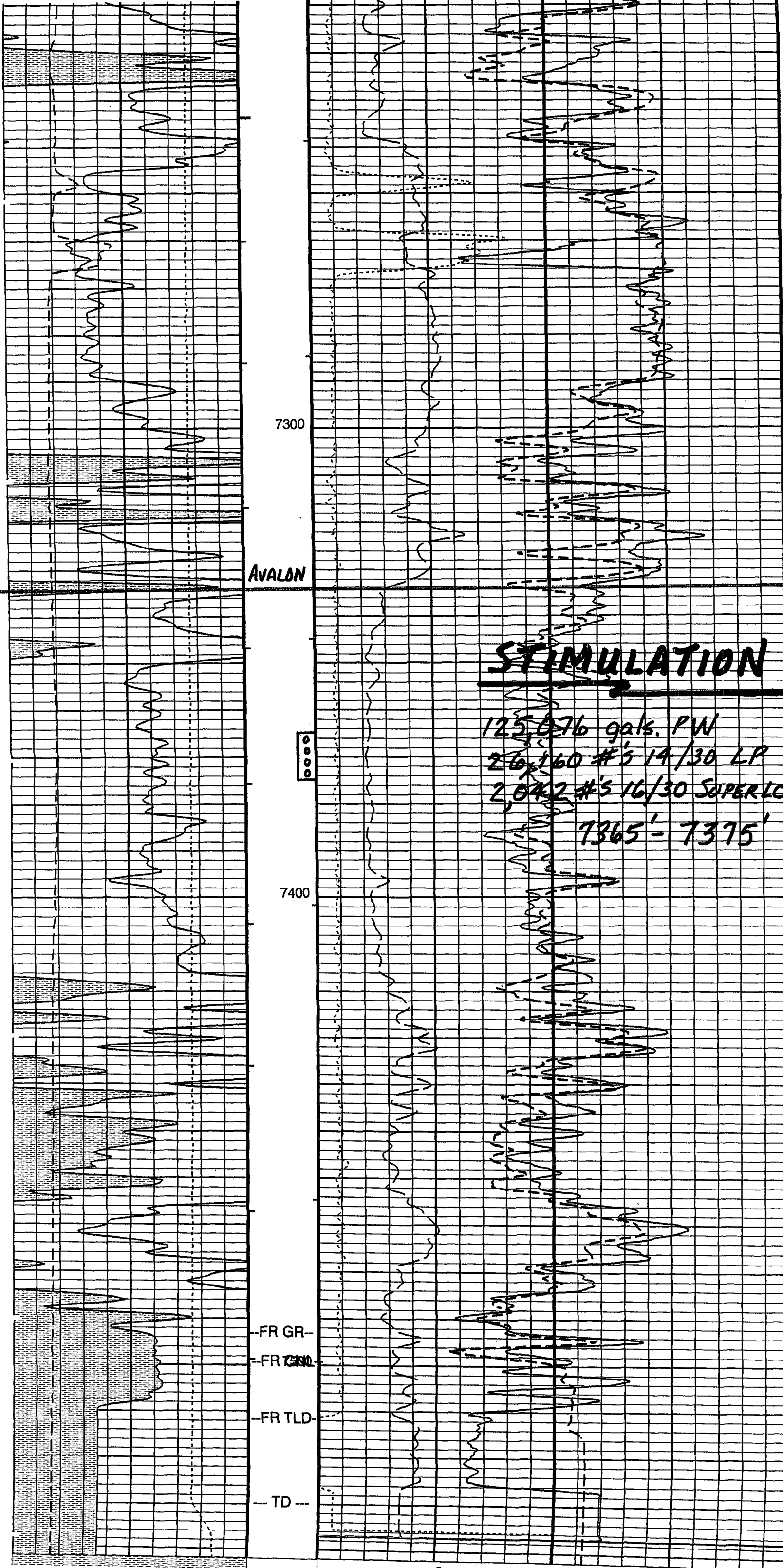
SUPER LC

7200

BONE
SPRING

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STIMULATION

125,076 gals. PW
26,160 #3 14/30 LP
2,042 #3 16/30 SUPER LC
7365' - 7375'

AVALON

7300

7400

FR GR

FR 7300

FR TLD

TD

COMPANY: Bass Enterprises Production Company

WELL: Poker Lake Unit #216

FIELD: Nash Draw (Delaware)

County: Eddy State: New Mexico

County: Eddy
Field: Nash Draw (Delaware)
Location: 1980' FNL & 1780' FEL
Well: Poker Lake Unit #216
Company: Bass Enterprises Production Co

Schlumberger
Platform Express
Array Induction Tool
Micro-CFL / GR

1980' FNL & 1780' FEL		Elev.: K.B. 3191.2 ft G.L. 3171 ft D.F. 3189.8 ft	
Permanent Datum:	Ground Level	Elev.: 3171 ft	
Log Measured From:	Kelly Bushing	20.2 ft above Perm. Datum	
Drilling Measured From:	Kelly Bushing		
API Serial No. 30-015-33861	Section 19	Township 24S	Range 30E

Logging Date	23-Apr-2005	
Run Number	One	
Depth Driller	7520 ft	
Schlumberger Depth	7530 ft	
Bottom Log Interval	7522 ft	
Top Log Interval	490 ft	
Casing Driller Size @ Depth	11.750 in	@ 493 ft
Casing Schlumberger	490 ft	
Bit Size	7.875 in	
Type Fluid in Hole	Brine/Barite/Diesel	
Density	9.1 lbm/gal	47 s
Fluid Loss	PH	84.6 cm3
Source Of Sample	Circulation Tank	
RM @ Measured Temperature	0.143 ohm.m	@ 89 degF
RMF @ Measured Temperature	0.084 ohm.m	@ 79 degF
RMC @ Measured Temperature		@
Source RMF	Measured	
RM @ MRT	0.108 @ 120	0.057 @ 120
Maximum Recorded Temperatures	120 degF	
Circulation Stopped	Time 23-Apr-2005	2:00
Logger On Bottom	Time 23-Apr-2005	10:25
Unit Number	3178	Roswell
Recorded By	Shawnee Burdick	
Witnessed By	Simianne Hayden	

OP System Version: 12C0-301
MCM

HILTB-CTS

SRPC-2699-HILT_b

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
BS	11.000 IN	7.875 IN	3407.3 12:31:46
RMFS	0.0840 OHMM	-50000.0000 OHMM	5050.7 12:03:51

PIP SUMMARY

- Integrated Borehole Volume Every 10 F3
- Integrated Borehole Volume Every 100 F3
- Integrated Annulus Volume Every 10 F3
- Integrated Annulus Volume Every 100 F3

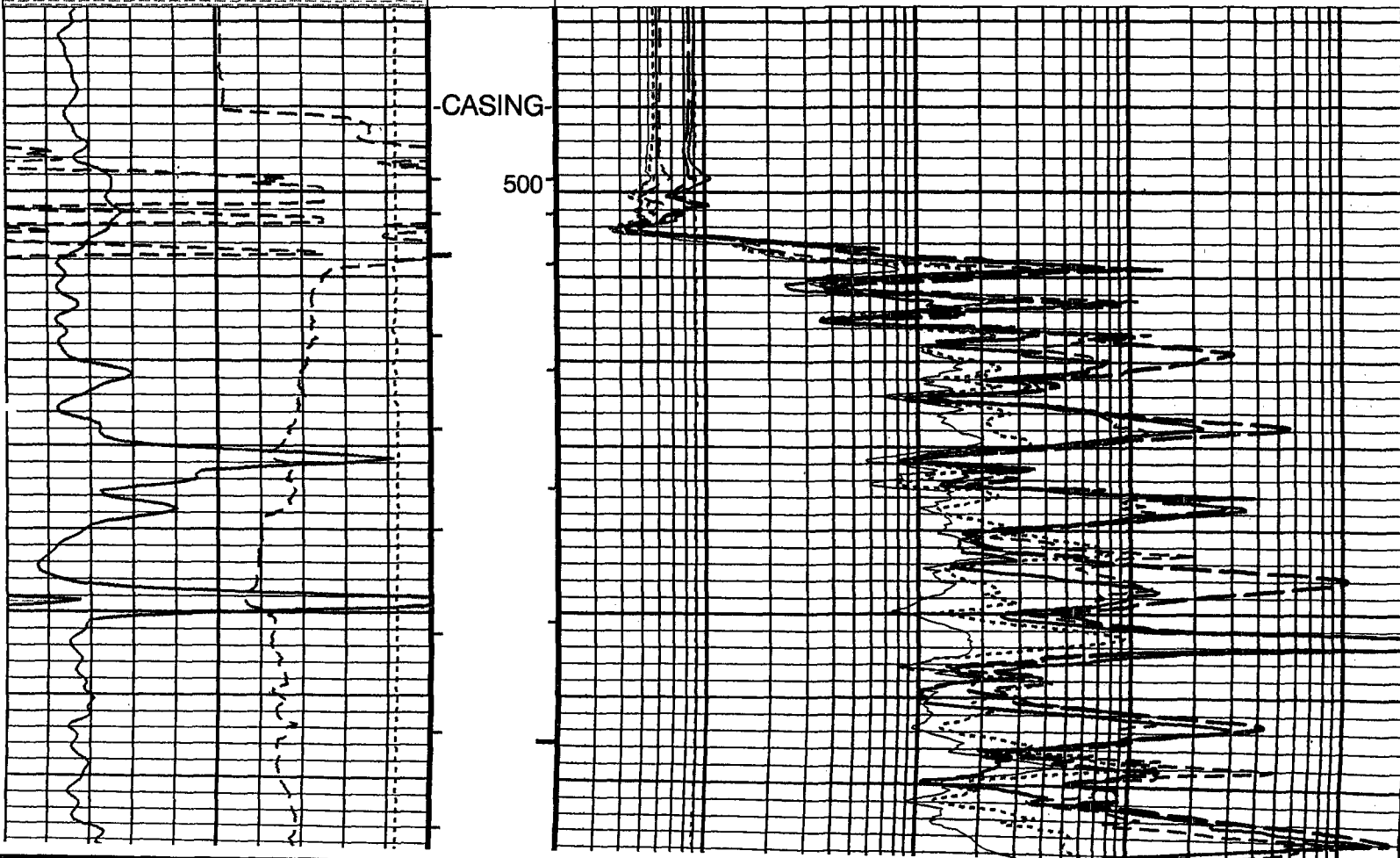
Main Pass 5" = 100'

Time Mark Every 60 S

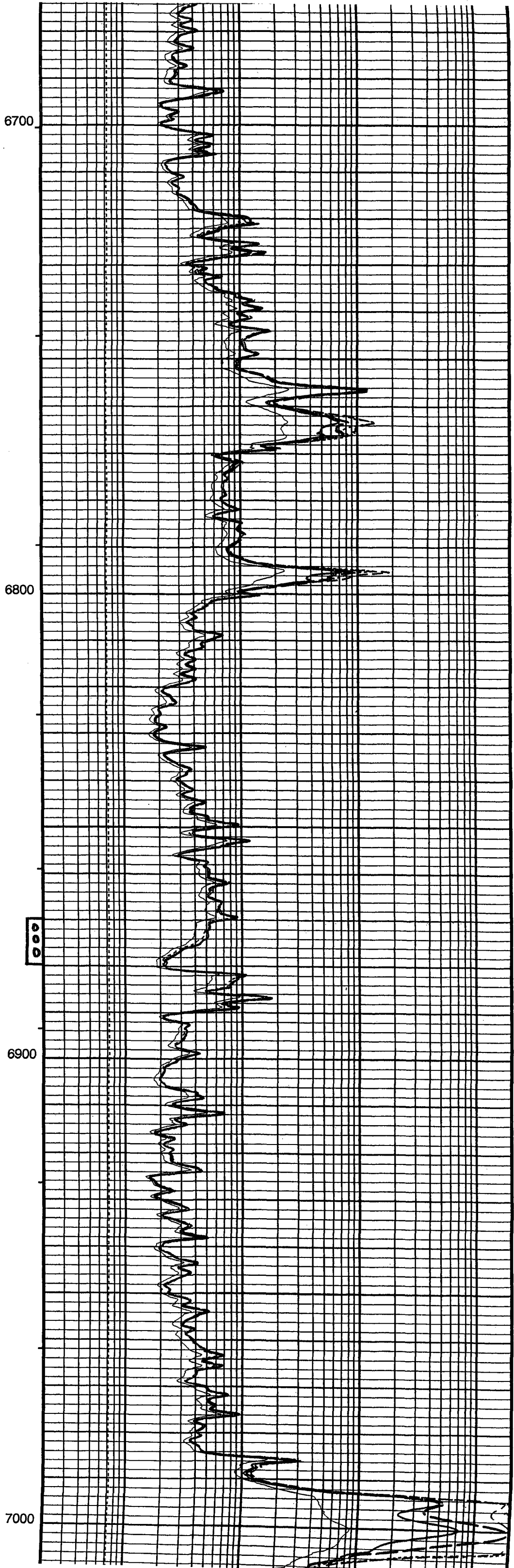
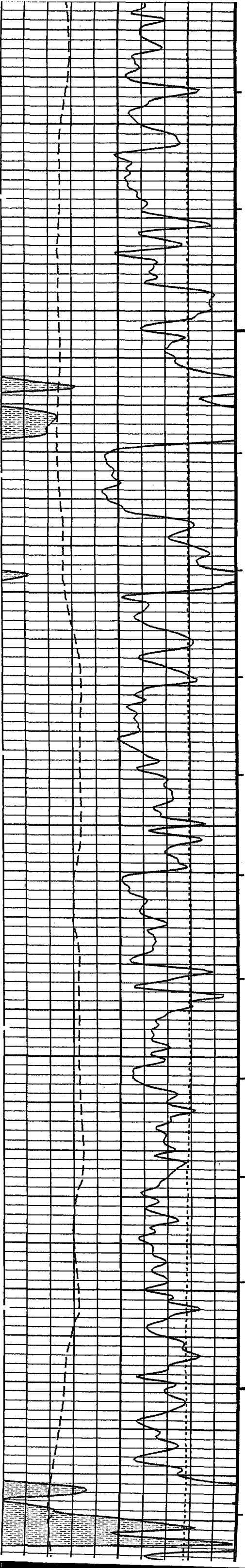
0.02	AIT-H Mud Full Cal (AHMF) (OHMM)	200
0.2	AIT-H 90 Inch Investigation (AHT90) (OHMM)	2000
0.2	AIT-H 60 Inch Investigation (AHT60) (OHMM)	2000
0.2	AIT-H 30 Inch Investigation (AHT30) (OHMM)	2000
0.2	AIT-H 20 Inch Investigation (AHT20) (OHMM)	2000
0.2	AIT-H 10 Inch Investigation (AHT10) (OHMM)	2000

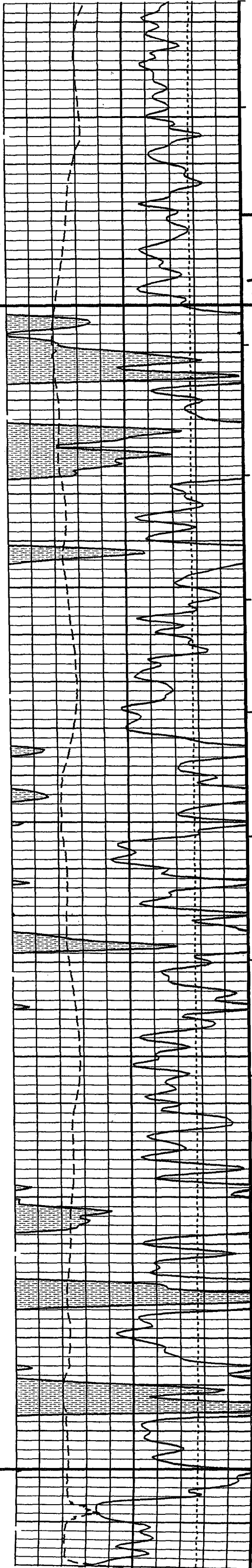
10000	Cable Tension (TENS) (LBF)	0
6	HRMS Caliper (HCAL) (IN)	16
0	GR (GR) (GAPI)	100

Gamma Ray on Backup



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T/8A

7000

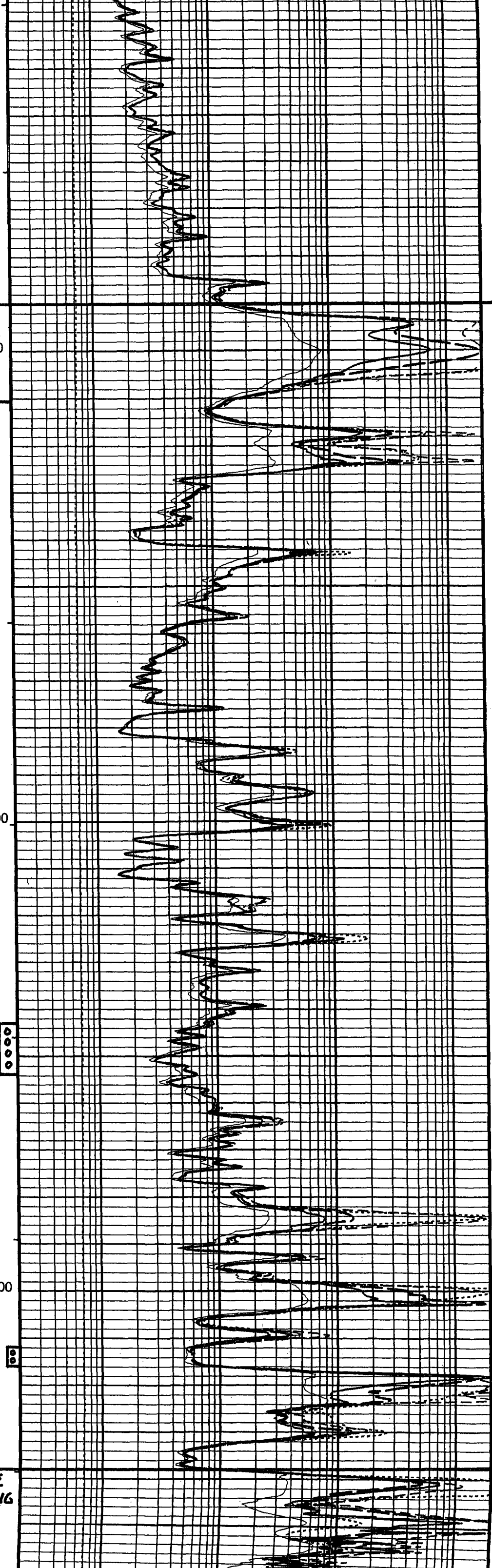
7100

0000

7200

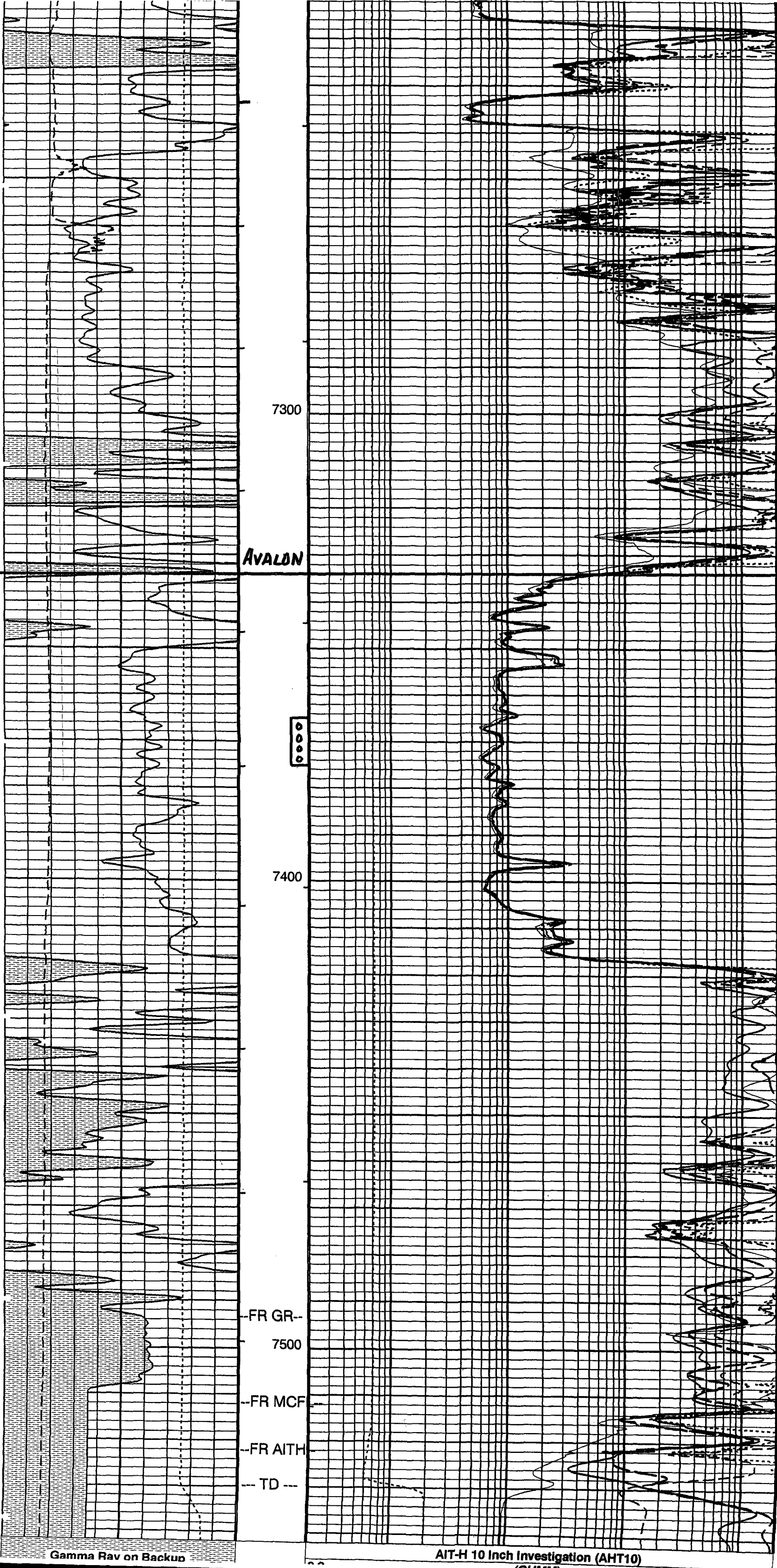
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BONE
SPRING



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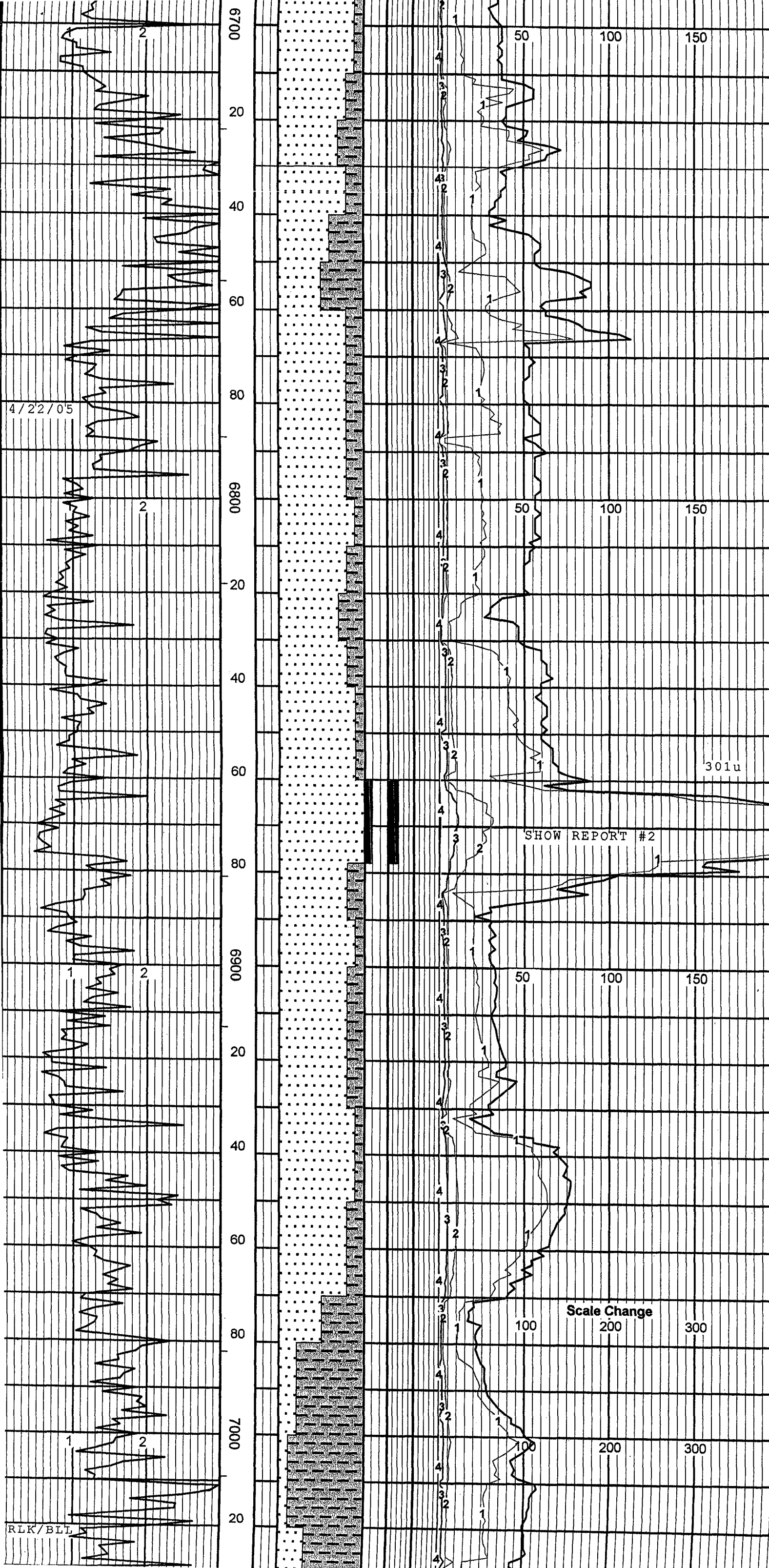
Company: BASS ENTERPRISES PRODUCTION COMPANY
Well: POKER LAKE UNIT #216
Location: Sec: 19 Twn: 24S Rge: 30E Blk:
Survey: 1980'FNL&1780'FEL API:
County: EDDY State: NEW MEXICO
Elevation: KB: 3191 GL: 3171
Contractor: GREYWOLF RIG15 Spud Date: 4/12/05
Depth Logged: From: 50 To: 7520
Date Logged: From: 4/12/05 To: 4/23/05
Logger: THOMPSON / KEITH Unit: 18

MORCO GEOLOGICAL SERVICES
Carlsbad, New Mexico - (800) 748-2340

	Shale		Limestone		Salt
	Siltstone		Dolomite		Igneous
	Sandstone		Anhydrite		Metamorphic
	Conglomerate		Chert		No Sample

Total Gas Calibration: 100 Gas Units = 1% Methane Equivalent
Chromatograph Calibration: 1 Unit = 100 ppm of each component:
Total Gas Detector Type: Catalytic Combustion Filament (Hot Wire)
Chromatograph Type: Catalytic Combustion Filament (Hot Wire)
Extractor Evacuation Rate: 10 Standard Cubic Feet per Hour

DRILLING RATE (min/ft)	DEPTH OFF FMP OFF BIT	POROSITY GFT	LITH	CUT TFG	FLUOR	STAIN	Total gas (Units)					REMARKS										
							1	C1 (Units)	1	2	C2 (Units)		2	3	C3 (Units)	3	4	C4 (Units)	4	5	C5 (Units)	5
DRLNG RIG CONTRACTOR GREYWOLF #15	60						COMMENCE LOGGING @ 57' ON 4/12/05					SH:rd,blky,sft-frm,sme gmmy,erty,sme slty										
DRL BIT #1 14 3/4																						
NO ROP INFO	80																					
NOT ENOUGH WOB TO ACTIVATE GEOLOGRAPH																						
	100																					
DRL BIT #2 14 3/4 SMITH DGJ	20																					
	40																					
AJT/AN																						
WOB 25 RPM 98	60																					
SPM 108 PP 1000																						
	80																					
	200																					
	20																					
	40																					



tn,sb/rd,sb/anglr,mod
consold,frm-mod/hrd
well srted,well cmted,
tr calc mtrx,fr amnt
wht gry cly

SH:blk,drk brn,drk gry
gry,blky,frm-mod/hrd,
sme rthy,sme slty,tr
mica

SS:clr,frstd,lt gry,tn
vfn gr,sub rnd-rndd
sub ang,unconsol-sme
lsly consol,wll srted,
prly cmted,tr calc
mtrx,fr amt wht/gry
mott clys thru out

SH:drk brn,brn,drk gry
gry,blky,frm-mod/hrd
slty,sme rthy

SS:wht,clr,frstd,tn,lt
brn,vfn/gr,sb/rnd,sb/
angl,wellcmt,well srt
mod/consol,tr calc
mtrx,

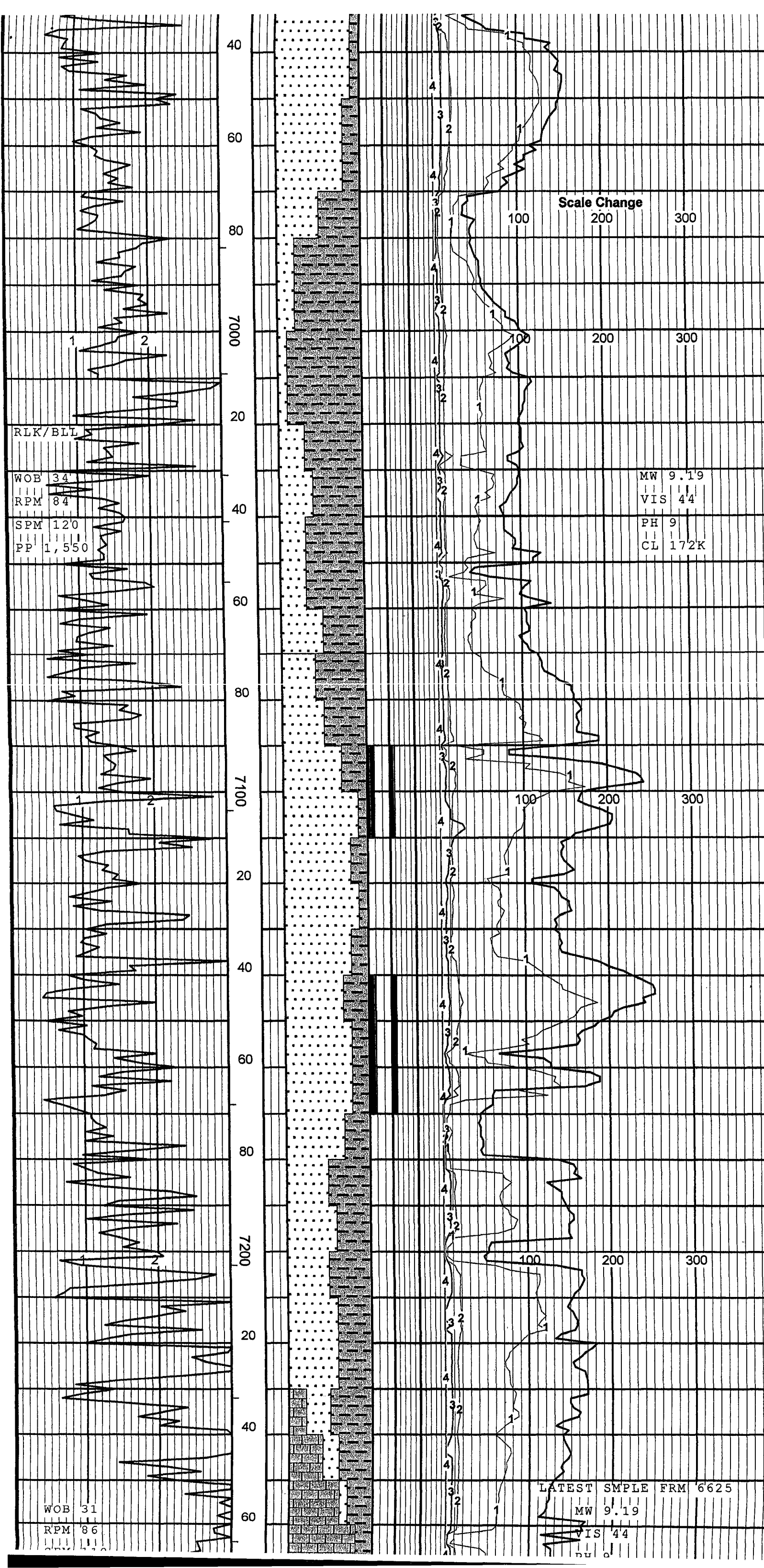
SS:clr,lt gry,frstd,
vfn gr,sub rnd-rndd
sme sub ang,tr fn
-med gr,wll rnd
unconsol,tr lsly
wll srted,prly cmted
20-30%dull ylw fluor
fr slw mlky ylw wet
cut

SS:clr,frstd,ltgry,tn
vfn gr,sb/rnd,sb/angl
frm-mod/hrd,wellcmt,
well srted,tr calc mtr

SH:drk brn,brn,drk gry
gry,blky,sb/blky,frm-
mod/hrd,slty,sme rthy
tr vfn mica,no vis
show w/ gas increase

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SH:drk brn,brn,drk gry
gry,blky,sb/blky,frm,
slty,sme rthy,tr mica
pyr ip



SH: drk brn, brn, drk gry
gry, blk, sb/blk, frm-
mod/hrd, slty, sme rthy
tr vfn mica, no vis
show w/ gas increase

SH: drk brn, brn, drk gry
gry, blk, sb/blk, frm,
slty, sme rthy, tr mica
pyr ip

SH: blk, drk gry, drk brn
blk, frm-hrd, erty
sme pyritc, sme carb

SS: clr, frstd, tn, vfn gr
sme fn gr, sbrnd-bang
tr ang, uncons-l-consl
frly cmt, well srt, calc
mtr, sme fri, tr
lmy sme clys, 10% ylw
flour, fr slw milky
ylw cut

SS: clr, frstd, tn, vfn gr
sme fn gr, sbrnd-sbang
tr ang, consl-uncons-l
frly cmt, well srt, calc
mtr, 10% ylw flr
fr slw mlky-ple ylw
cut

SS: clr frstd, lt tan
vfn gr, rnd, subrnd, tr
subang, pred cons, tr
uncons, well cmt, calc
well srt

LS: gry, lt gry, off wht
fn xln, tr vfn xln,
frm, sme sft, mott, arg
in prt

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LATEST SMPLE FRM 6625

MW 9.19

VIS 44

PH 9

CL 172K

RLK/BLL

WOB 34

RPM 84

SPM 120

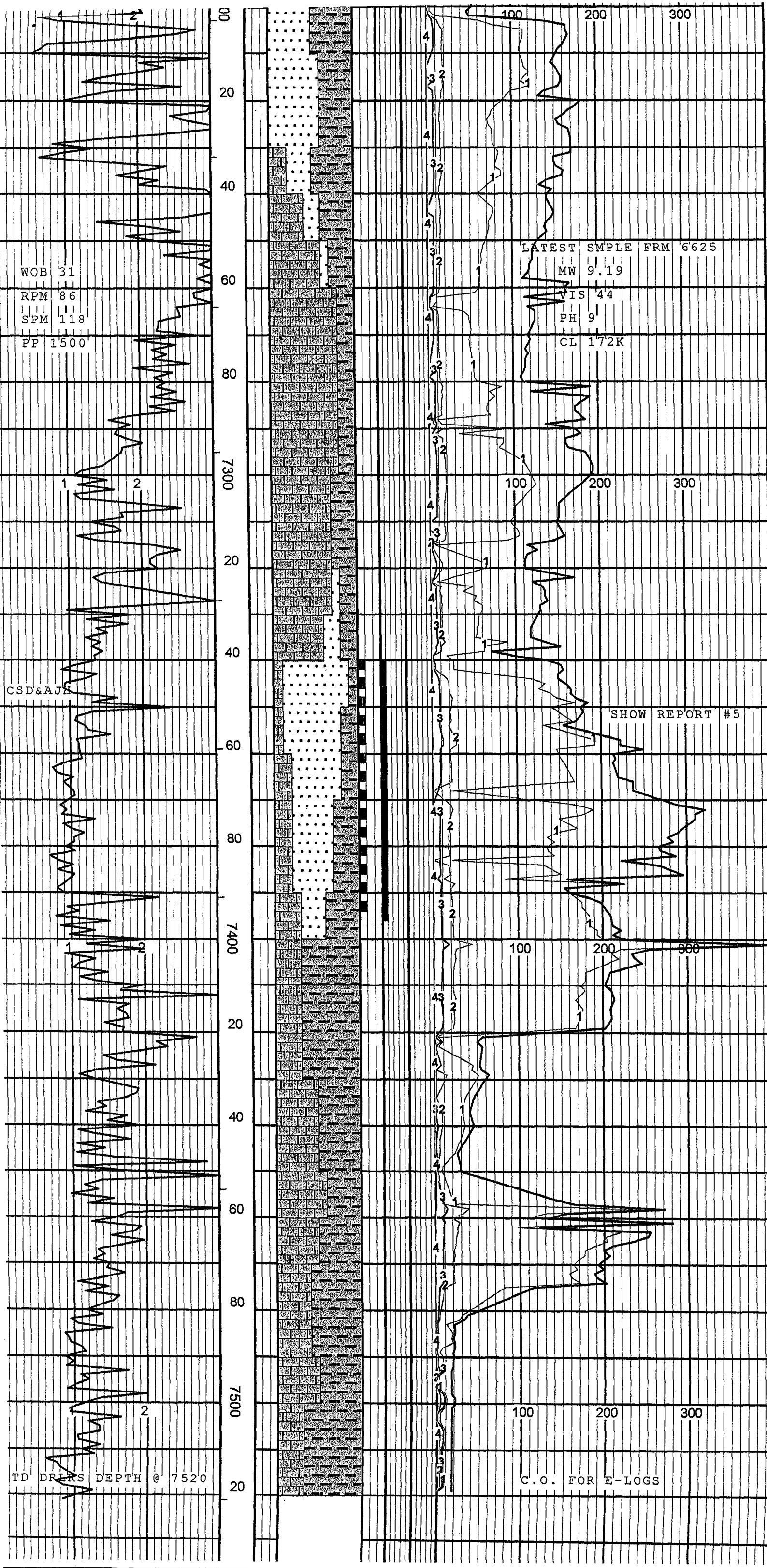
PP 1,550

WOB 31

RPM 86

SPM 120

PP 1,550



vfn gr,rnd,subrnd,tr
subang,pred cons,tr
uncons,well cmtd,calc
well srtd

LS:gry,lt gry,off wht
fn xln,tr vfn xln,
frm,sme sft,mott,arg
in prt

SH:blk,drk brn,blky
tr flky,pred sft,tr
frm,erty

LS:gry,lt gry,off wht
fn xln,sme vfn,frm
sme sft,mott agr in
prt,tr pyrit

LS:brn,lt brn,tn,crm
vfn xln,dns,frm-mod
hrd,no vis show

SS:clr,frstd,lt brn,
off wht,vfn gr,sub
rnd-rndd,sme sub ang
pred unconsol,tr lsly
consol,wll srtd,prly
cmtd,tr calc mtrx
tr-20% dull gld fluor
tr v/slw dull pale
mlky ylw wet cut,tr
lt residue ring

SH:drk brn,brn,drk gry
gry,blky,sb/blky,frm
mod hrd,slty,rthy,tr
mica,aren ip,sme pyr

LS:drk gry,drk brn,brn
gry,tn,vfn xln,dns,
frm-mod hrd,mott,sme
shly

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