

DISTRICT I
P.O.Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O.Box 1980, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O.Box 2088

Santa Fe, New Mexico 87504-2088

Form C-107
Revised 4-1-91

Filing Instructions
Bottom of Page

APPLICATION FOR MULTIPLE COMPLETION

WILLIAMS PRODUCTION COMPANY **PO BOX 3102 TULSA, OK 74101**

Operator Address

ROSA UNIT **#15A** **I 29 31N 5W** **RIO ARRIBA**
Lease Well No. Unit Ltr. — Sec — Twp — Rge County

All applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Immediate Zone	Lower Zone
a. Name of Pool and Formation	BLANCO MESAVERDE		BASIN DAKOTA
b. Top and Bottom of Pay Section (Perforations)	5500' - 5998'		7971' - 8120'
c. Type of Production (Oil or Gas)	GAS		GAS
d. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
e. Daily Production ☐ Actual ☐ Estimated Oil Bbls. Gas MCF Water Bbls.	3 HR PITOT 1491 MCF/D		3 HR PITOT 1425 MCF/D

RECEIVED
SEP - 5 1995
OIL CON. DIV.
DIST. 3

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

OPERATOR:

I hereby certify above information is true and complete to best of my knowledge, and belief.

Signature [Signature]
Printed Name & Title SAN GRIGUHN, CLERK
Date August 30, 1995 Telephone (918) 588-4592

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY ERNIE BUSCH
Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3
Date: SEP - 5 1995

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

FILING INSTRUCTIONS:

- District Approval — See rule 112-A-B — Submit 4 copies of Form C-107 with attachments to appropriate district office.
- Division Director Administrative Approval — See Rule 112-C — Submit 2 copies of Form C-107 with attachments to Division office in Santa Fe and 2 copies of Form C-107 with attachments to appropriate district office.
- Multiple completions not qualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.

WELLBORE DIAGRAM

ROSA UNIT #15A MV/DK

LOCATION: 1790'FSL, 820'FEL
NE/4 SE/4 SEC. 29, T31N, R5W
RIO ARriba CO., NM
ELEVATION: 6431' GR
KB: 12'

TOPS:

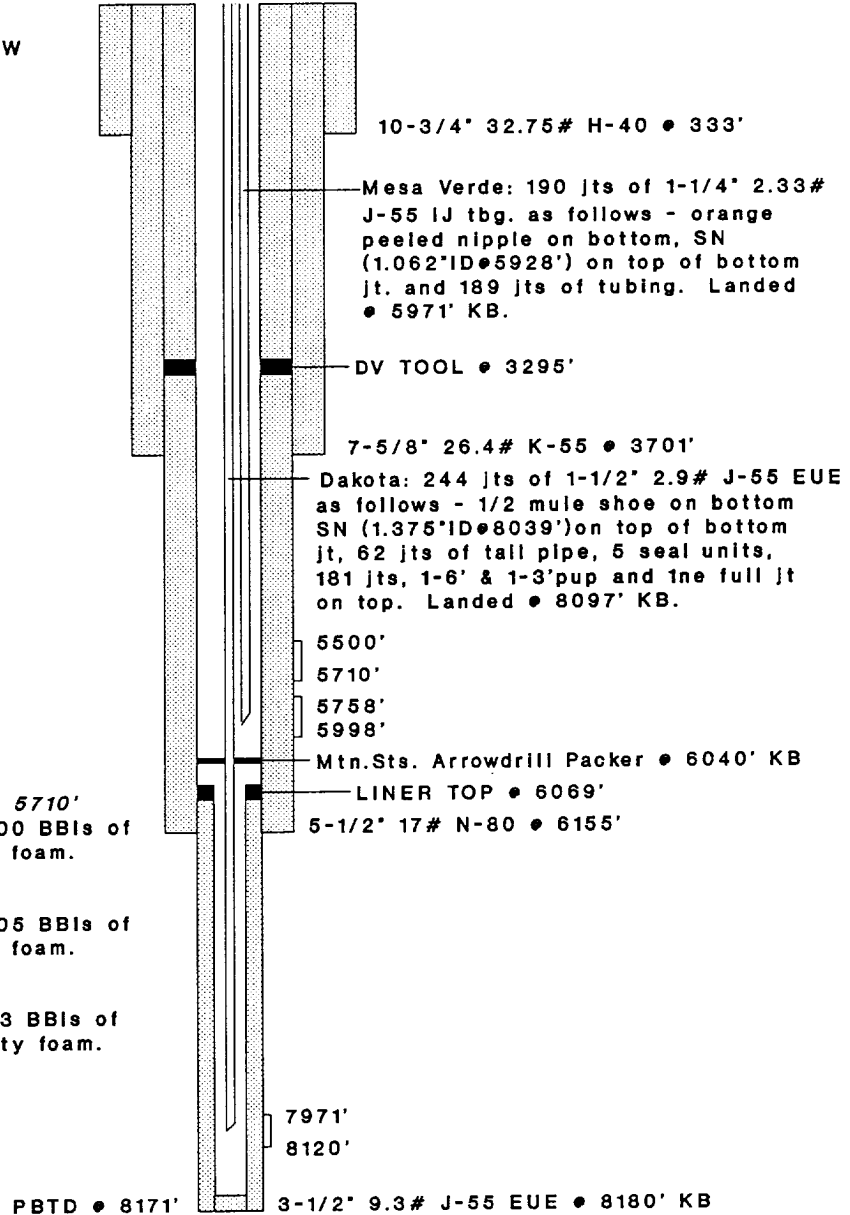
OJO ALAMO	2594'
KIRTLAND	2723'
FRUITLAND	3083'
PICTURED CLIFFS	3331'
LEWIS	3587'
CLIFF HOUSE	5468'
MENEFEE	5537'
POINT LOOKOUT	5757'
MANCOS	5975'
GREENHORN	7791'
GRANEROS	7852'
DAKOTA	7969'

STIMULATION

Cliff House/Menefee: 5500' - 5710'
100,000# of 20/40 sand in 400 BBIs of
20# Guar Gel in a 60 quality foam.

Point Lookout: 5758' - 5998'
100,000# of 20/40 sand in 405 BBIs of
20# Guar Gel in a 60 quality foam.

Dakota: 7971' - 8120'
84,738# of 20/40 sand in 423 BBIs of
30# X-Link Gel in a 60 quality foam.

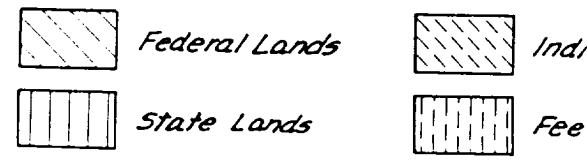
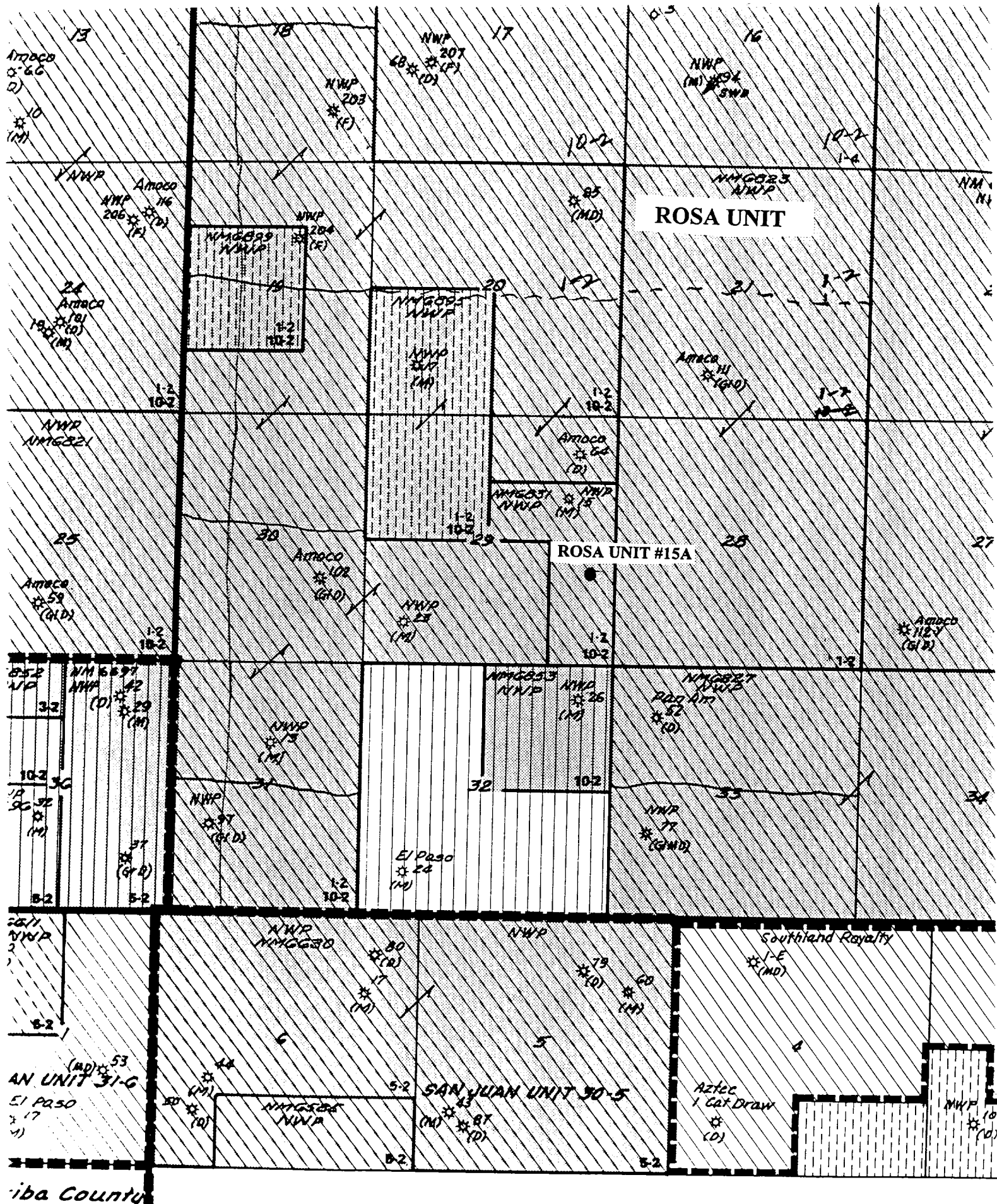


HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
13-3/4"	10-3/4" 32.75#	225 SX	266 CU.FT.	SURFACE
9-7/8"	7-5/8" 26.4#	861 SX	1548 CU.FT.	SURFACE
6-3/4"	5-1/2" 17#	630 SX	830 CU.FT.	SURFACE
6-3/4"	3-1/2" 9.3#	445 SX	741 CU.FT.	LINER TOP

**OFFSET OPERATORS
ROSA UNIT #15A
I-29-31N-5W**

1. LEASE: ROSA UNIT

Operator: Williams Production Company, MS-37-4, P.O. Box 3102, Tulsa, OK 74101



COMPANY: Northwest Pipeline Corporation

ELL: Rosa Unit No. 15A

ELD: Blanco MV / Basin DK

COUNTY: Rio Arriba STATE: New Mexico

Location: 1790' FSL & 820' FEL
Well: Rosa Unit No. 15A
Company: Northwest Pipeline Corporation

FINAL
Schlumberger

COMPENSATED NEUTRON-
FORMATION DENSITY

LOCATION

1790' FSL & 820' FEL
Permanent Datum: Ground Level
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing
Elev.: K.B. 6443 F
G.L. 6431 F
D.F. 6442 F
Elev.: 6431 F
12.0 F above Perm. Datum

API Serial No.
N/A

SECTION
29

TOWNSHIP
31N

RANGE
05W

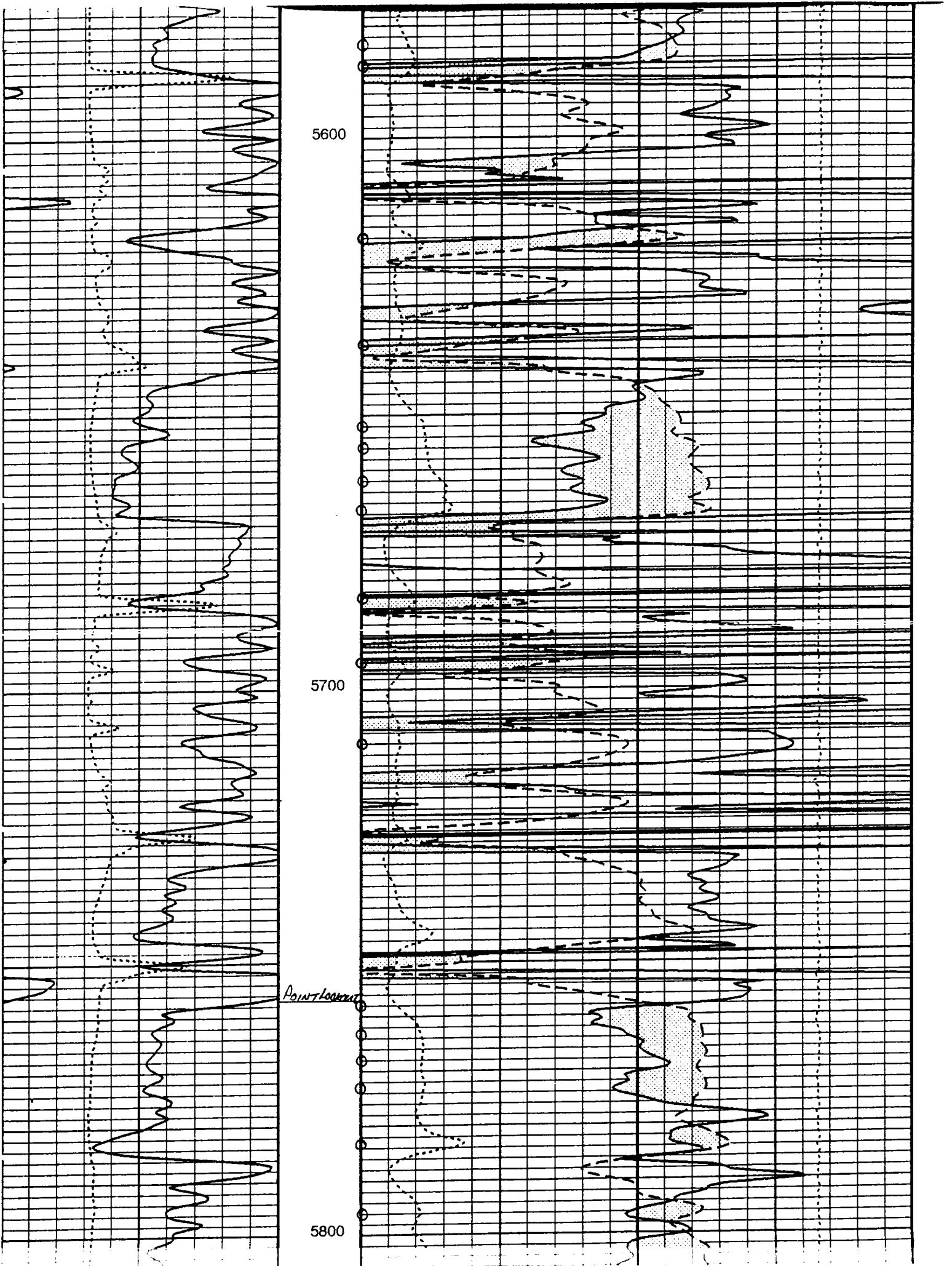
Drilling Date	3-JUL-1995	One	8-JUL-1995	Two
Driller	3700 F	3700 F	8157 F	8157 F
Drill Depth	3700 F	3700 F	7880 F	7880 F
Log Interval	3667 F	3667 F	6200 F	6200 F
Drill Size @ Depth	2700 F	2700 F	4850 F	4850 F
Schlumberger	10.750 IN	10.750 IN	7.625 IN	7.625 IN
Size	333 F	333 F	3702 F	3702 F
Fluid In Hole	9.875 IN	9.875 IN	6.750 IN	6.750 IN
Viscosity	9.3 LB/G	62 S		
Loss				
Source Of Sample	Flowline			
Measured Temperature	3.800 OHMM	87 DEG		
Measured Temperature	3.540 OHMM	87 DEG		
Measured Temperature	2.950 OHMM	87 DEG		
RMF	Measured	Measured		
MRT	3.052 @ 110	2.843 @ 110		
Recorded Temperatures	110 DEGF	110		
Stopped	3-JUL-1995	7:00		
On Bottom	3-JUL-1995	11:30		
Number	3017	Farmingington	3017	Farmingington
By	E. Bartz & T. Preztop		Preztop	
By	J. Bircher		J. Bircher	

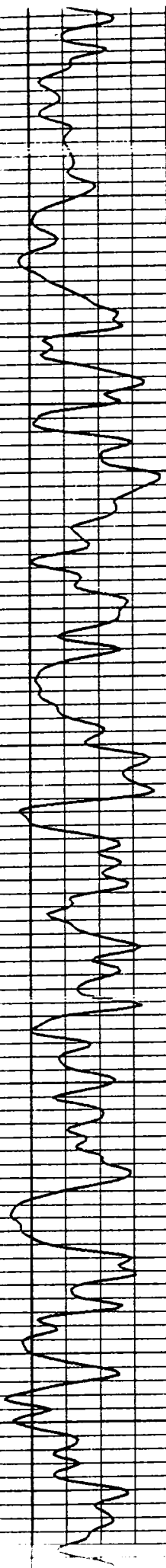
MUD

CLIFF-HOUSE

5500

MENEFER



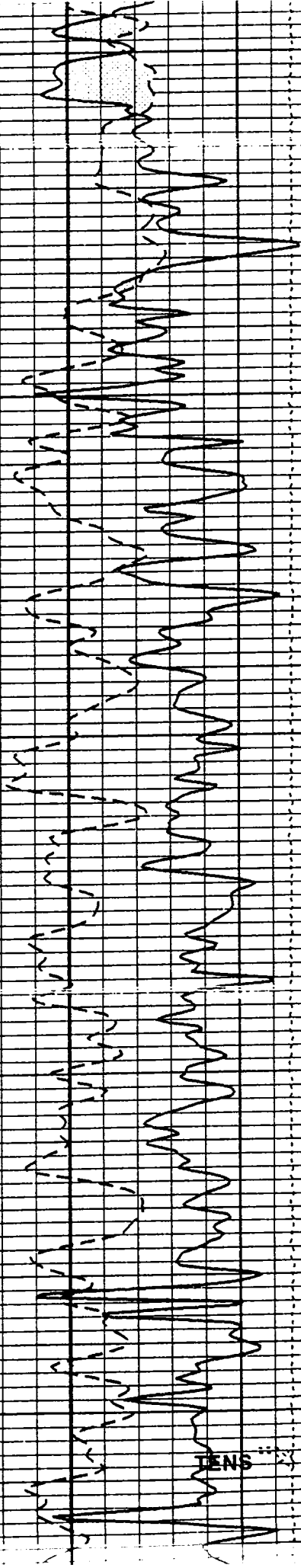
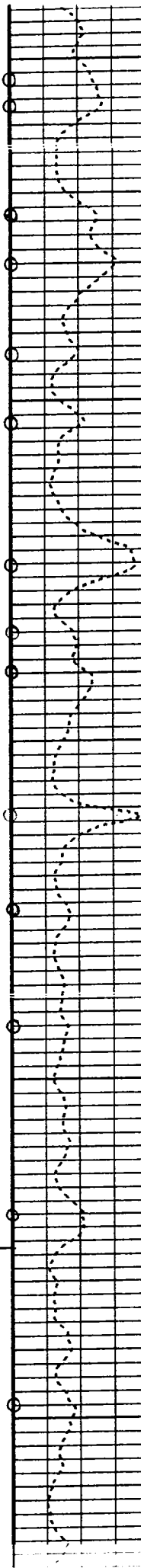


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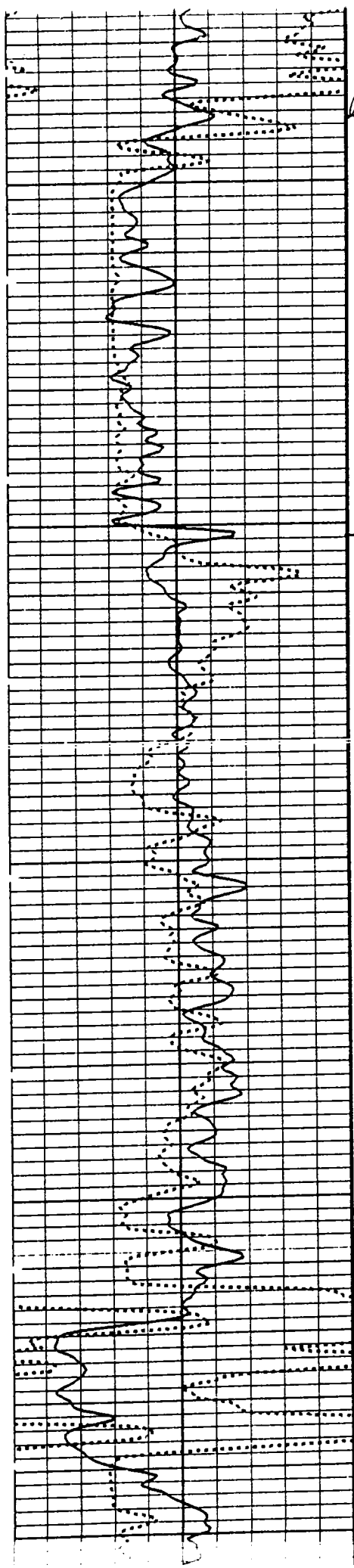
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MANOS

6000



TENS



GREENHORN

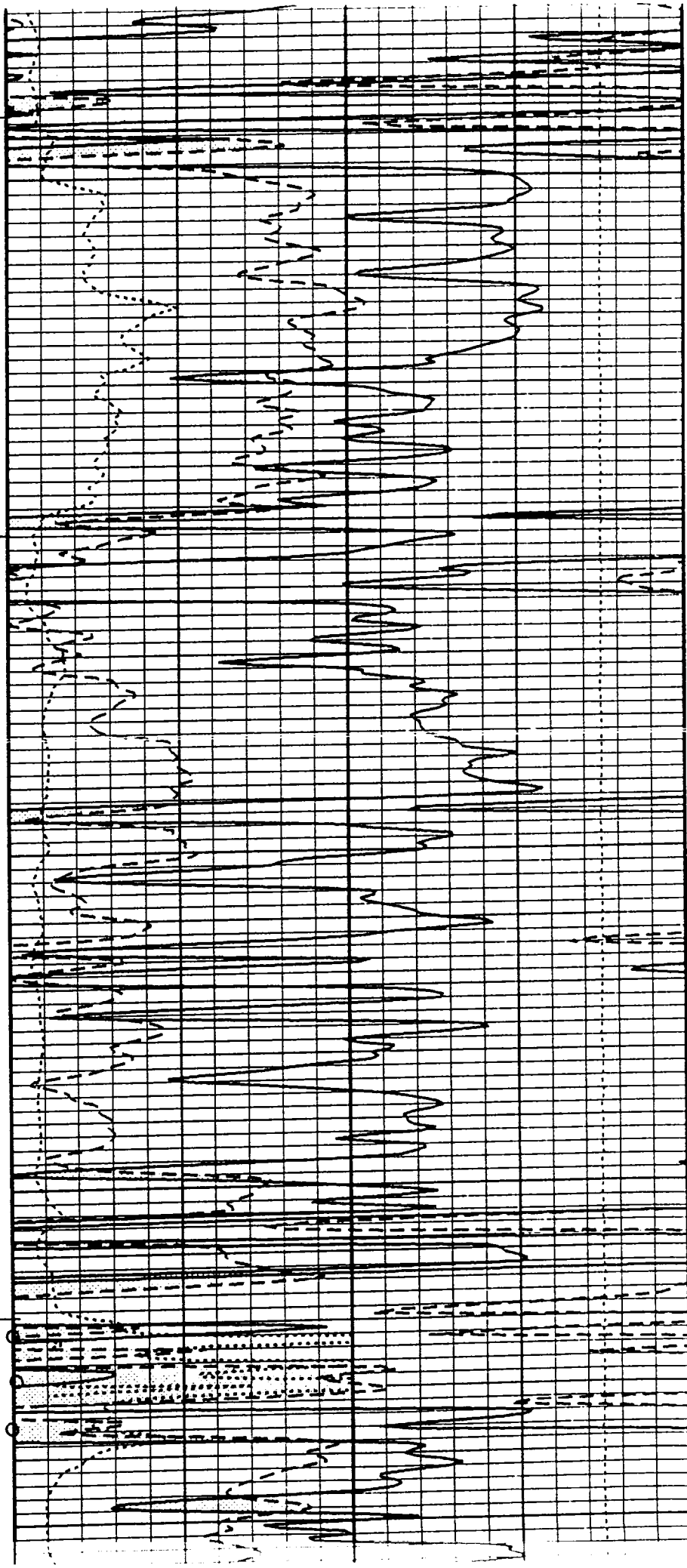
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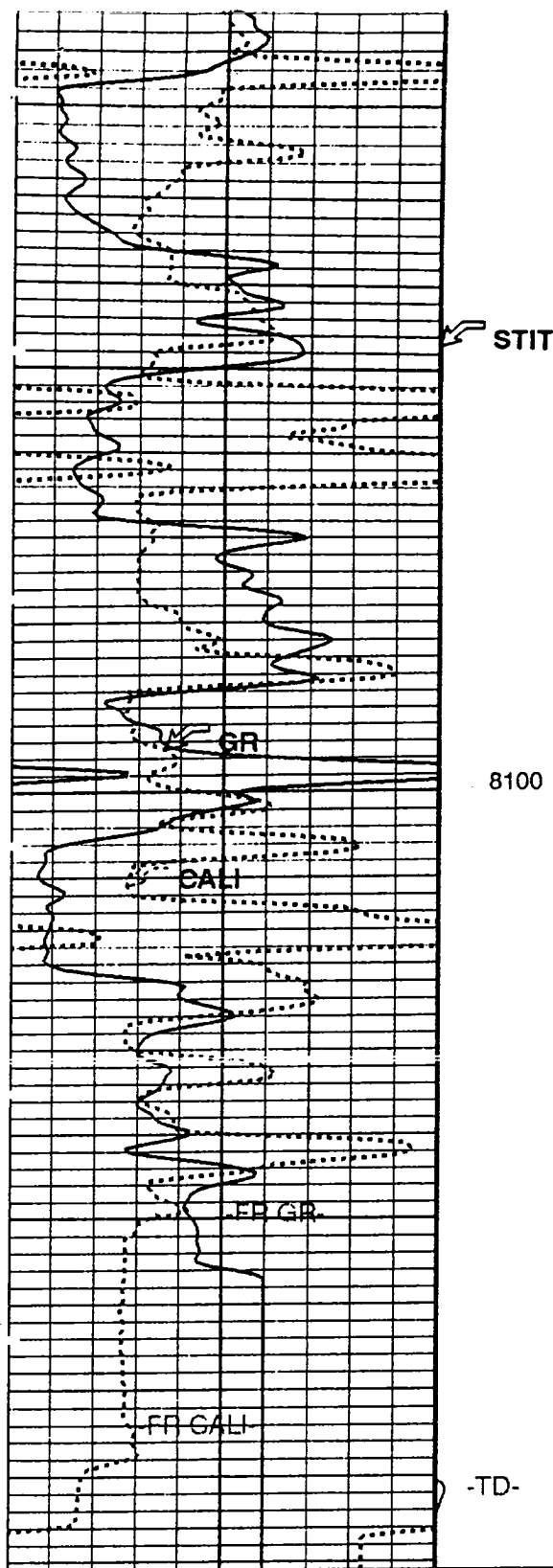
ARAWERAS

7900

DAKOTA

8000





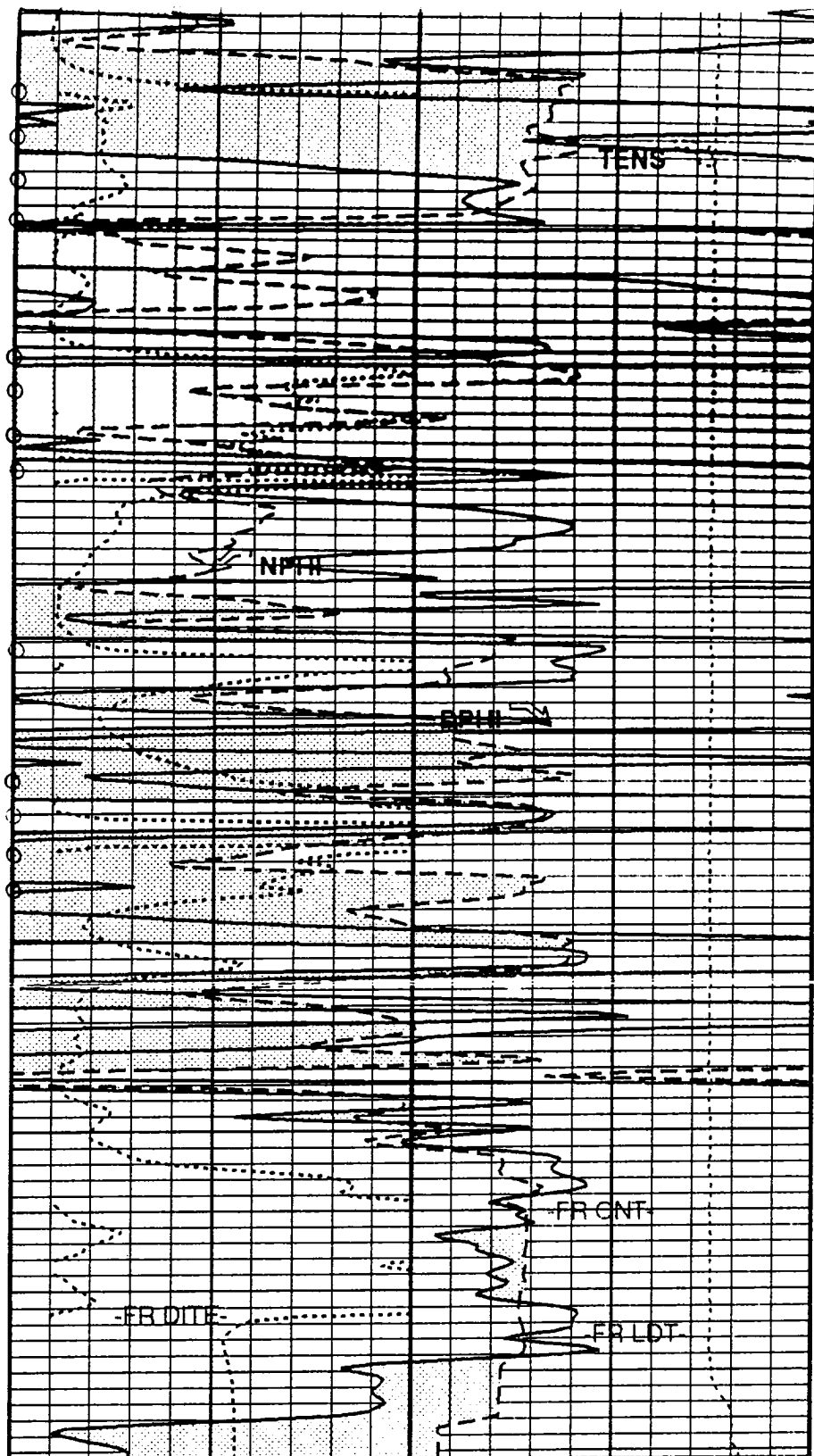
Gamma Ray (GR)
(GAPI) 0 200

Stuck
Stretch
(STIT) 0 (F) 50

Caliper (CALI)
(IN) 4 14

MAIN PASS 5" = 100'

SANDSTONE MATRIX = 2.65 g/cc



Density Porosity (DPHI)
(V/V) 0.3 -0.1

Gas Effect
From DPHI to NPHI

Neutron Porosity (NPHI)
(V/V) 0.3 -0.1

Deep Induction Phasor-processed
Resistivity (IDPH)
(OHMM) 0 100 10000

Tension (TENS)
(LBF) 0