

1. API No.	019-25886
2. OTC Prod. Unit No.	
3. Date of Application	11/20/2013

4. Application for (check one)

A. Commingle Completion in the Wellbore (165:10-3-39)

B. Commingle Completion at the Surface (165:10-3-39)

C. Multiple (Dual) Completion (165:10-3-36)

D. Downhole Multiple Choke Assembly (165:10-3-37)

5. Operator Name	Mack Energy Company	OTC/OCC No.	11739	Email	mlamascus@mackenergy.com
Address	P.O. Box 400			Phone No.	580-252-5580
City	Duncan	State	OK	Zip	73534
6. Lease Name/Well No.	Irby 1-31			FAX No.	580-252-7361
Location within section:	NE 1/4 SW 1/4 NE 1/4 SW 1/4	Sec.	31	Twp	1S Rge 2W
				County	Carter

8. The following facts are submitted:	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
A. Name of common source of supply	Carpenter		Morris
B. Top and bottom of pay section (perforations)	2356'-2598'		2748'-3010'
C. Type of production (oil or gas)	Oil		Oil
D. Method of production (flowing or art. lift)	Artificial Lift		Artificial Lift
E. Latest test data by zone (oil, gas, and water)	5 BOPD/0 Mcfd/200 BWPD		15 BOPD/0 Mcfd/108 BWPD
F. Wellhead or bottom hole pressure	Wellhead = 40 psi		Wellhead = 40 psi
G. Spacing order number and size of unit	Unspaced/160 acres		Unspaced/160 acres
H. Increased density order number	N/A		N/A
I. Location exception order number and penalty	N/A		N/A

If 4A, 4B or 4D above, and size of the units under 8G above are not the same, have the different allocations been addressed? Yes No

9. List all operators with mailing addresses within 1/2 mile, producing from the above listed zones.		
Citation Oil & Gas	14077 Cutten Rd.	Houston, TX 77069

10. The operators listed above have been notified and furnished a copy of this application. Yes No
If no, an affidavit of mailing must be filed not later than five (5) days after submission of this application.

11. Classification of well (see OAC 165:10-13-2): Oil Gas

12. ATTACH THE FOLLOWING:

A. Correlation log section (porosity, resistivity, or gamma ray) with top and bottom of perforated intervals marked.

B. Diagrammatic sketch of the proposed completion of the well.

C. Plat showing the location of all wells within 1/2 mile producing from the zones listed above.

D. If 4B, 4C or 4D above, a Form 1024, Packer Setting Report, and a Form 1025 Packer Leakage Test.

E. If 4A, 4B or 4D above, and size of the units under 8G above are not the same, have the different allocations been addressed? Yes No

I hereby certify that I am authorized to submit this application which was prepared by me or under my supervision. The facts and proposals made herein are true correct and complete to the best of my knowledge and belief.

M. D. A. Nam Signature Production Engineer Title 580-252-5580 Phone (AC/NO)

OCC USE ONLY

S.A

Staff Signature _____ Phone No. _____ Date 12.18.13 Approved Rejected

Oklahoma Corporation Commission
Oil & Gas Division

Approved

RECEIVED

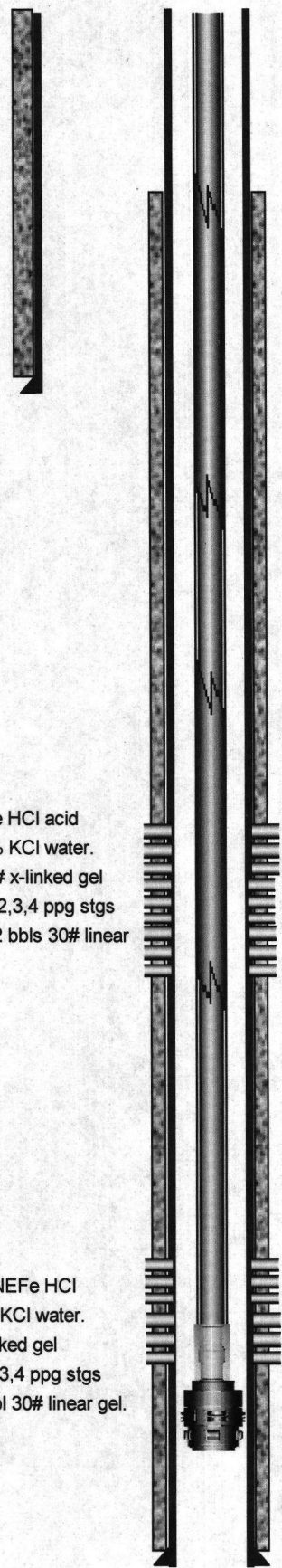
DEC 03 2013

OKLAHOMA CORPORATION
COMMISSION

MACK ENERGY CO.
Irby #1-31
SW NE SW 31-1S-2W
Carter County, OK
API #019 25886

DF 1058'
GL 1054'
KB 1060'

Spud:



TOC @ 546'

SURFACE CSG:
9 5/8" J-55 36# LT&C set @1103'
w/475 sks cmt

8/7/2013
93 jts 2 7/8" 6.5# J-55 EUE tbg

7-29-13 (2356'-2598'): 2100 gals 15% NEFe HCl acid containing 2100# of RS. Flush w/45 bbls 2% KCl water.
7-31-13 (2356'-2598'): Frac w/1971 bbls 30# x-linked gel containing additives, 1220 sx 20/40 sd in 1,2,3,4 ppg stgs & 200 sx 20/40 RC sd @ 4ppg. Flush w/102 bbls 30# linear

CARPENTER
2356'-2408'; 2412'-2464'; 2470'-2479'; 2 spf
2484'-2502'; 2504'-2516'; 2521'-2533'; 410 holes
2536'-2570' 2582'-2598'

7-19-13 (2748'-3010'): Az w/600 gals 15% NEFe HCl containing 600# of RS. Flush w/40 bbls 2% KCl water.
7-23-13 (2748'-3010'): Frac w/858 bbls x-linked gel containing additives, 500 sk 20/40 sd in 1,2,3,4 ppg stgs & 100 sx 20/40 sd @ 4 ppg. Flush w/119 bbl 30# linear gel.

MORRIS
2748'-2753'; 2760'-2774'; 2800'-2810'; 2 spf
2914'-2940'; 3000'-3010'

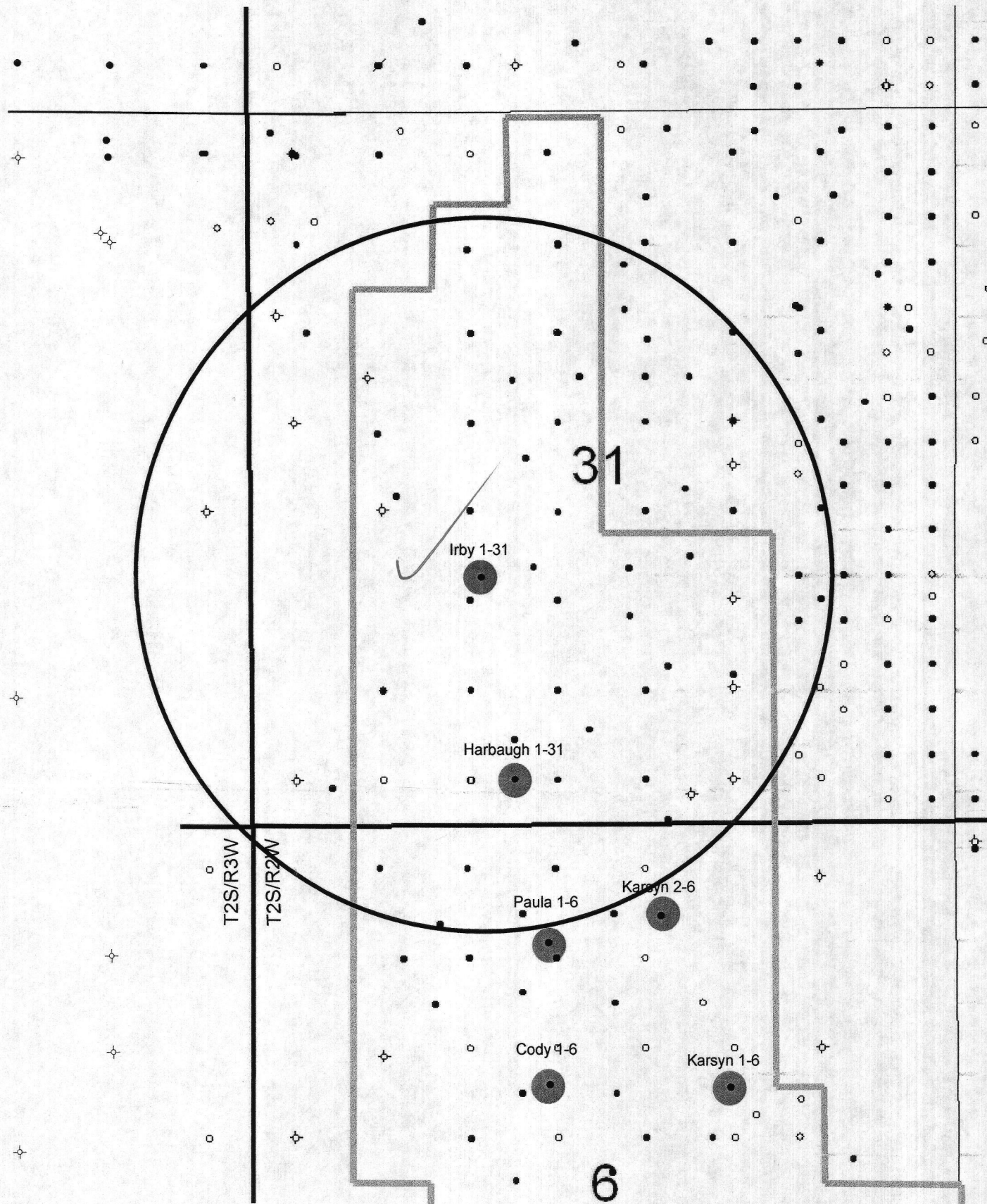
SN @ 3037'

CEMA @ 3074'

PRODUCTION CSG:
7" J-55 23# LT&C set @ 3330' w/ 450 sks cmt

PBJT @ 3276'

Dated: 9/20/2013



1/2 Mile Radius Circles

● Deese Producers (Tussy, Carpenter & Morris)



ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

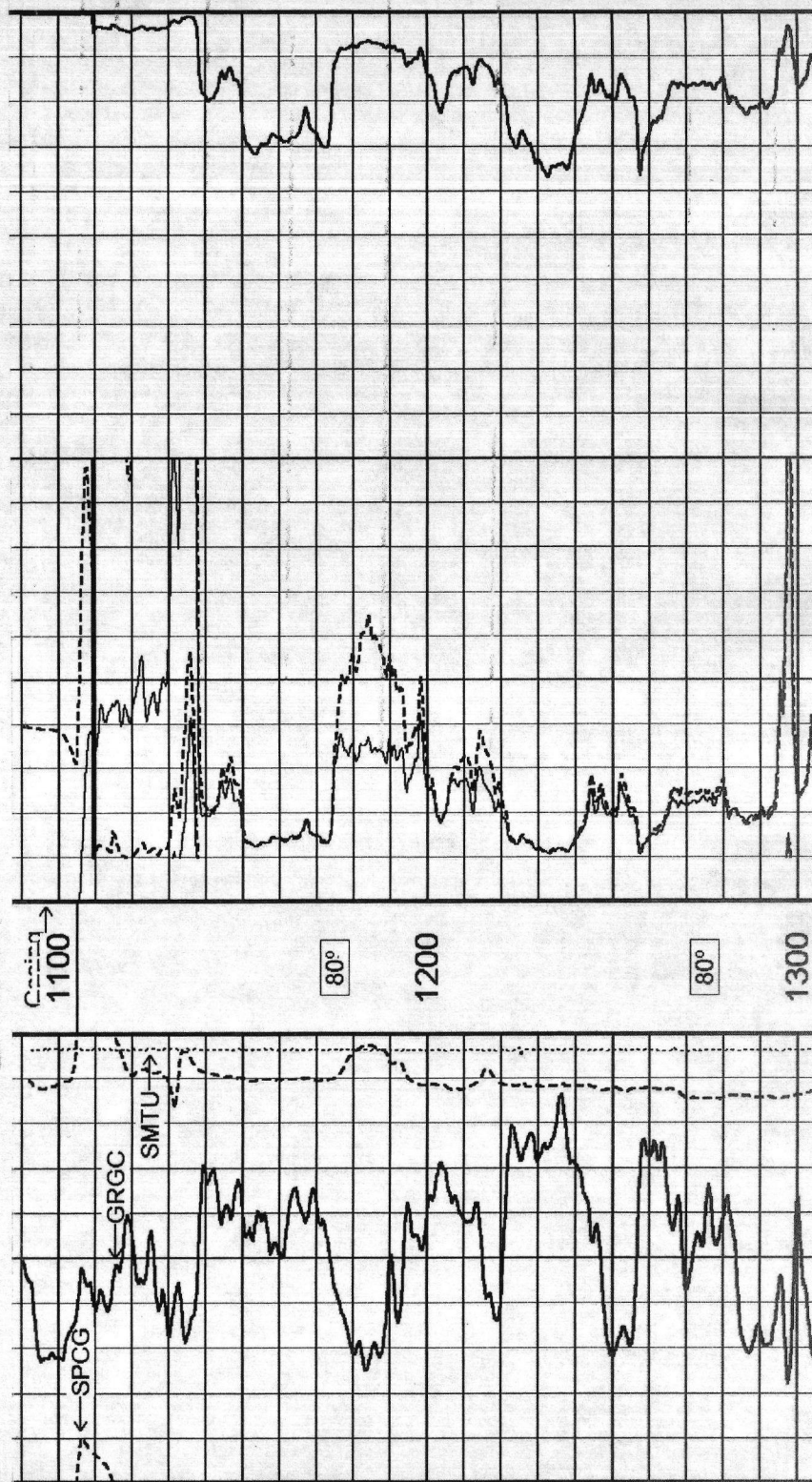
COMPANY MACK ENERGY CO.
WELL IRBY #1-31
FIELD WILDCAT JIM
PROVINCE/COUNTY CARTER
COUNTRY/STATE U.S.A. / OKLAHOMA
LOCATION 1727' FWL & 821' FNL
SW NE SW

SEC 31	TWP 1S	RGE 2W	Other Services MDN/MPD	MML
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API Number 35-019-25886
Permit Number

Permanent Datum GL, Elevation 1054 feet	Elevations: feet
Log Measured From KB	KB 1060.00
Drilling Measured From KB	DF 1058.00
	GL 1054.00

Date	02-JUN-2013	
Run Number	ONE	
Service Order	3540150	
Depth Driller	3340.00	feet
Depth Logger	3323.00	feet
First Reading	3320.00	feet
Last Reading	1105.00	feet
Casing Driller	1102.00	feet
Casing Logger	1105.00	feet
Bit Size	8.750	inches
Hole Fluid Type	CHEMICAL	
Density / Viscosity	9.70 lb/USg	66.00 CP
PH / Fluid Loss	9.50	7.00 ml/30Min
Sample Source	MUD PIT	
Rm @ Measured Temp	1.30 @ 73.0	ohm-m
Rmf @ Measured Temp	1.04 @ 73.0	ohm-m
Rmc @ Measured Temp	1.56 @ 73.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	1.11 @ 85.0	ohm-m
Time Since Circulation	5 HOURS	
Max Recorded Temp	86.00	deg F
Equipment / Base	13145	OKC
Recorded By	R. POGUE	
Witnessed By	DANNY HARRISON	



lr by 1-31

83°

Carpenter
2350

2356-
2408

83°

2400

2412-
2464

83°

← SPCG
← GRGC
SMTU →

2450

RTAO
R600
R400
FEF

2470-
2479

83°

2484-
2502

2500

2504-
2516

2521-
2533

84°

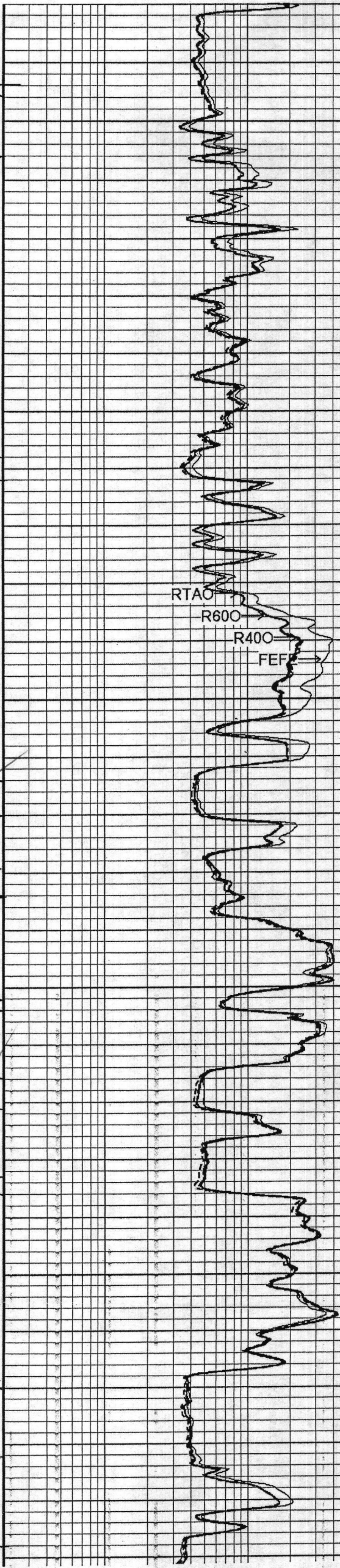
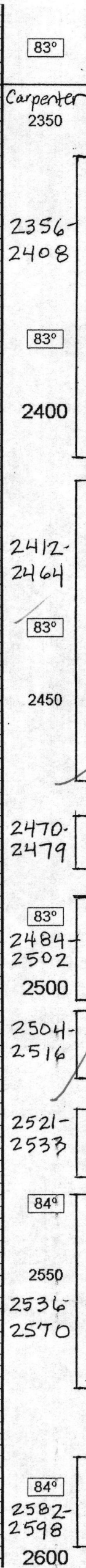
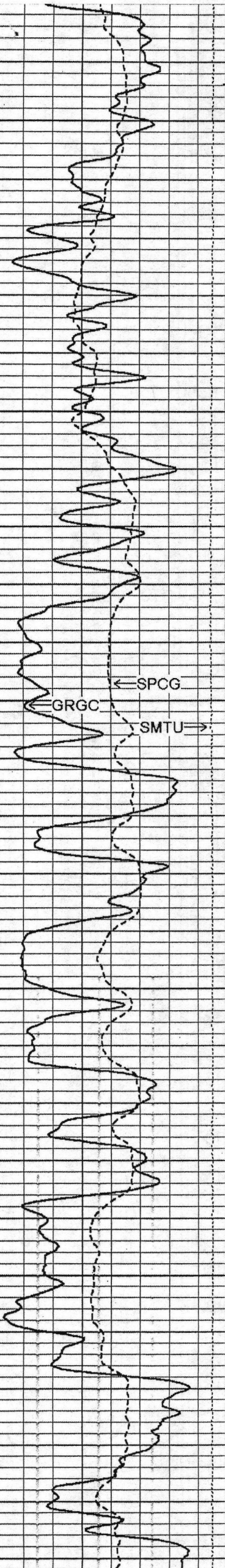
2550

2536-
2570

84°

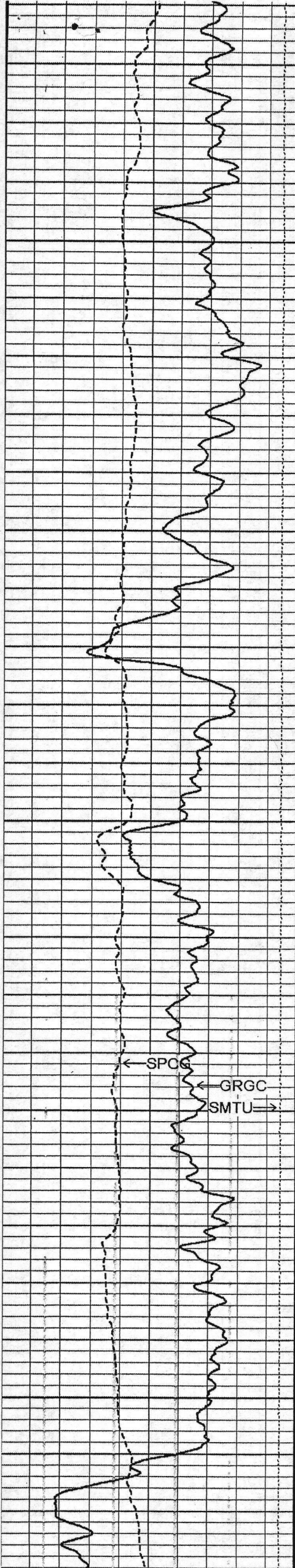
2582-
2598

2600



Morris

lrby 1-31



84°

2700

84°

2750
2748
2753

2760-
2774

85°

2800
2800-
2810

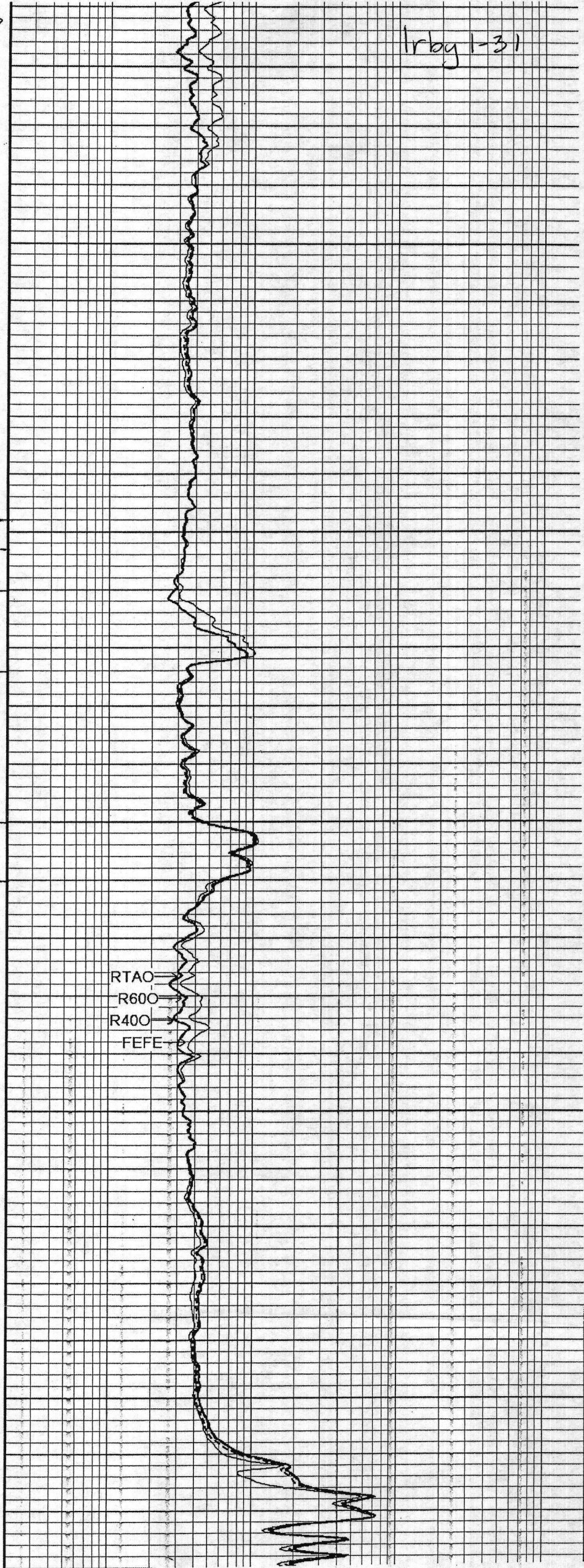
85°

← SPCG
← GRGC
SMTU →

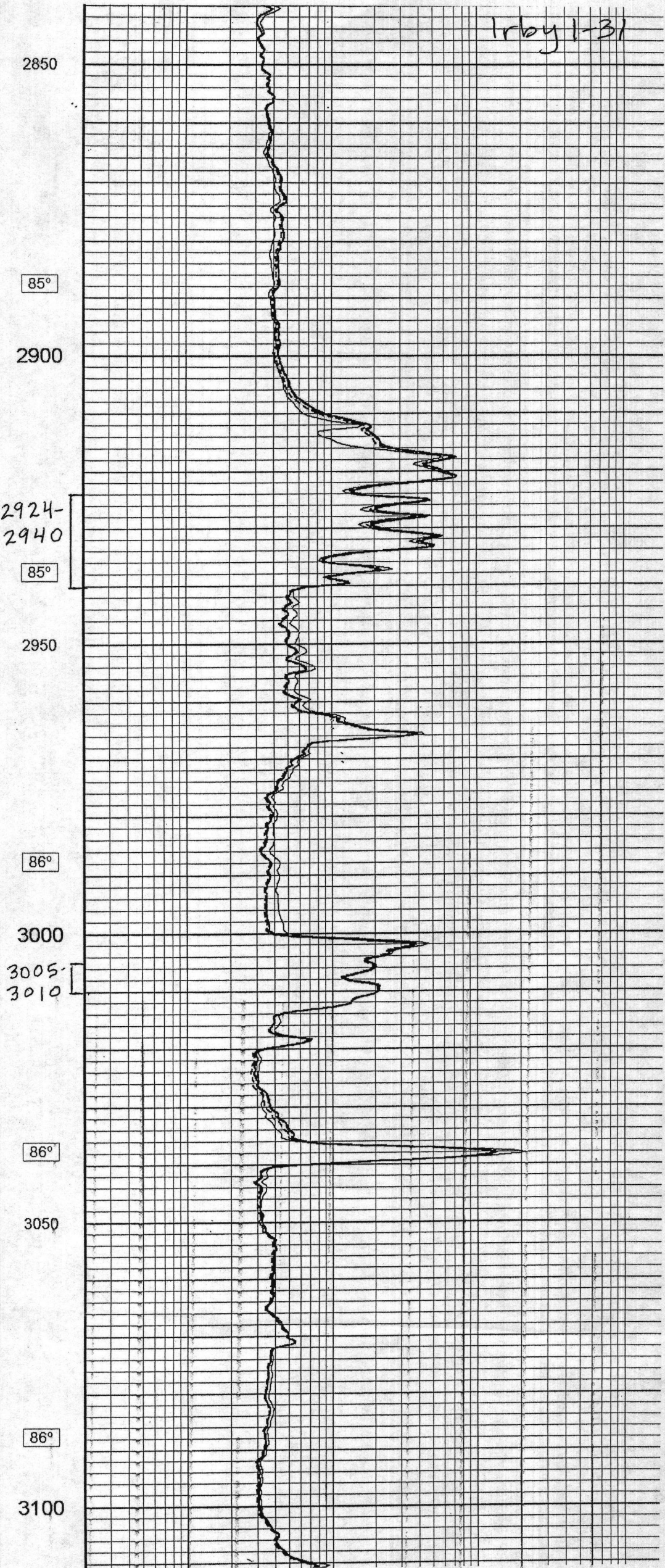
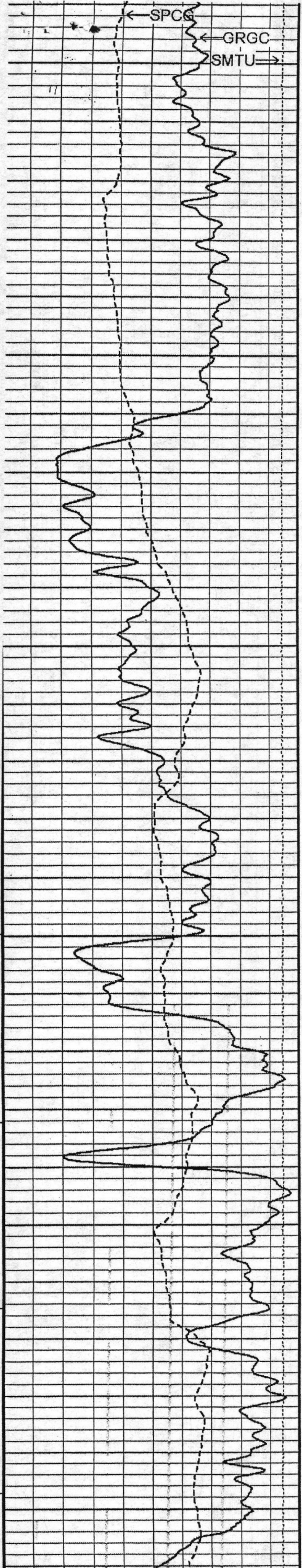
2850

85°

2900



RTAO
R600
R400
FEFE



85°

85°

86°

86°

86°