

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☐ No
(Attach Additional Sheets)Samples Sent to Geological Survey ☐ Yes ☐ NoCores Taken ☐ Yes ☐ NoElectric Log Run ☐ Yes ☐ NoElectric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
Name Top DatumCASING RECORD ☐ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: ☐ Yes ☐ NoDate of First, Resumed Production, SWD or ENHR. _____ Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Summary of Changes

Lease Name and Number: YORK MARCHAND 4

API/Permit #: 15-009-15598-00-01

Doc ID: 1058305

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
API	15-009-15598-00-00	15-009-15598-00-01



1056655

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

 Drill Stem Tests Taken ☐ Yes ☐ No
 (Attach Additional Sheets)

 Samples Sent to Geological Survey ☐ Yes ☐ No

 Cores Taken ☐ Yes ☐ No

 Electric Log Run ☐ Yes ☐ No

 Electric Log Submitted Electronically ☐ Yes ☐ No
 (If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
 Name Top Datum
CASING RECORD ☐ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Schlumberger

NATURAL GAMMA RAY SPECTROSCOPY LOG

CSU Field Log

COMPANY: PHILLIPS PETROLEUM COMPANY

WELL: YORK MARCHAND #4

FIELD: CHASE-SILICA
COUNTY: BARTON
STATE: KANSAS
NATION: USA
LOCATION: SM SM NE

SEC: 24 TWP: 20 S RGE: 12 W

PERMANENT DATUM: GROUND LEVEL ELEVATIONS-
ELEV. OF PERM. DATUM: 1800.5 F KB: 1805.0 F
LOG MEASURED FROM: K.B. DF: 1803.0 F
4.5 F ABOVE PERM. DATUM GL: 1800.5 F
DRLG. MEASURED FROM: K.B.DATE: 1 MAR 88
RUN NO: 1DEPTH-DRILLER: 3363.0 F
DEPTH-LOGGER: 3363.0 F
BTM. LOG INTERVAL: 3348.0 F
TOP LOG INTERVAL: 2700.0 FCASING-DRILLER: 304 F 3339 F
CASING-LOGGER: 304 F 3340 F
CASING: 8 5/8" 5 1/2"
WEIGHT: 24.00 LB/F 14.00 LB/F
BIT SIZE: 12 1/4" 7 7/8"
DEPTH: 304 F 3363 FOTHER SERVICES-
CBL-YDL-GR
CNL
NGS
TDT-GR
CYBERSCANPROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
326615TIME LOGGER ON BTM.: 10:30
MAX. REC. TEMP: 107.0 DEGF
LOGGING UNIT NO: 8365
LOGGING UNIT LOC: GREAT BEND
RECORDED BY: DAN BULLER
WITNESSED BY: DAN RULAND

REMARKS:

THANKS FROM 8365 DAN, RON, & MIKE.
LOGS TIED INTO SWS ELECTRICAL SURVEY RUN 11-10-51
CEMENT TOP AT 2616"
MAX LOGGING SPEED 900 FT/HR

EQUIPMENT NUMBERS-

BLUE SLTL
RED CNTH
SLM 1638BLUE SGTE
RED TCCA
NSM 2902SILVER CALR
TCM 1024
GREEN TDTKBLUE NGTC
TDM 133

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

FILE 5 01-MAR-88 11:15
DATA ACQUIRED 00- -00 00:00

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 88/03/01
PROGRAM FILE: LEP (VERSION 26.2 00/00/00)

GTC TOOL CHECK

	BEFORE 160	AFTER 159	UNITS GAPI
SGR	MEASURED	AFTER SURVEY	
	BKG	JIG	UNITS
W1NG	104.0	493.2	CPS
W2NG	38.4	217.8	CPS
W3NG	13.5	38.1	CPS
W4NG	1.9	16.6	CPS
W5NG	1.8	25.9	CPS

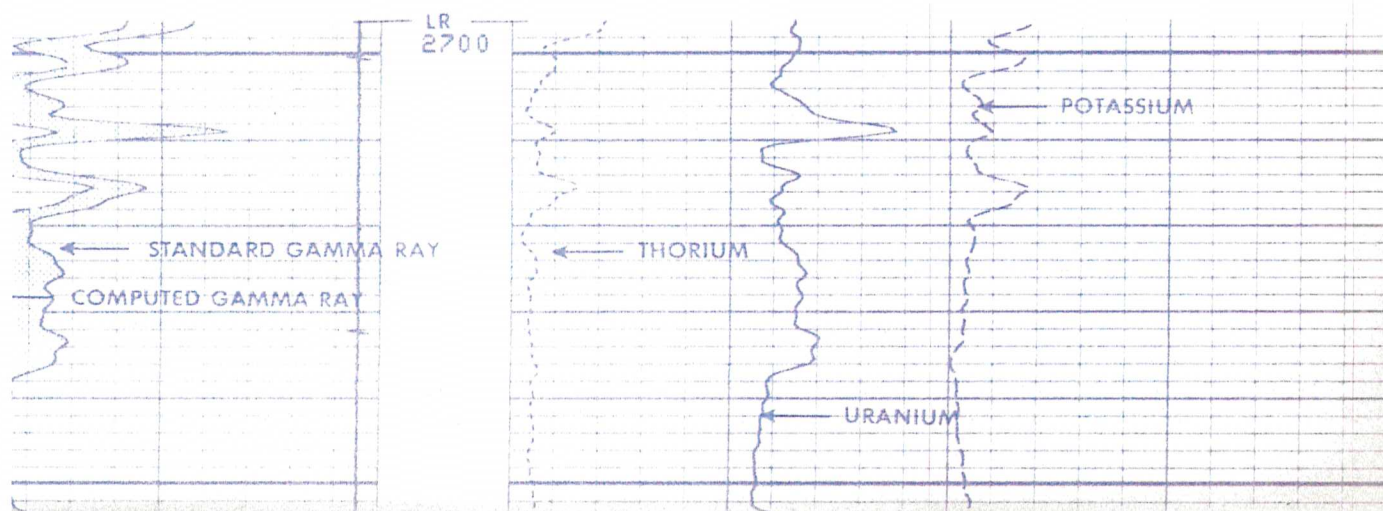
NTH TOOL CHECK

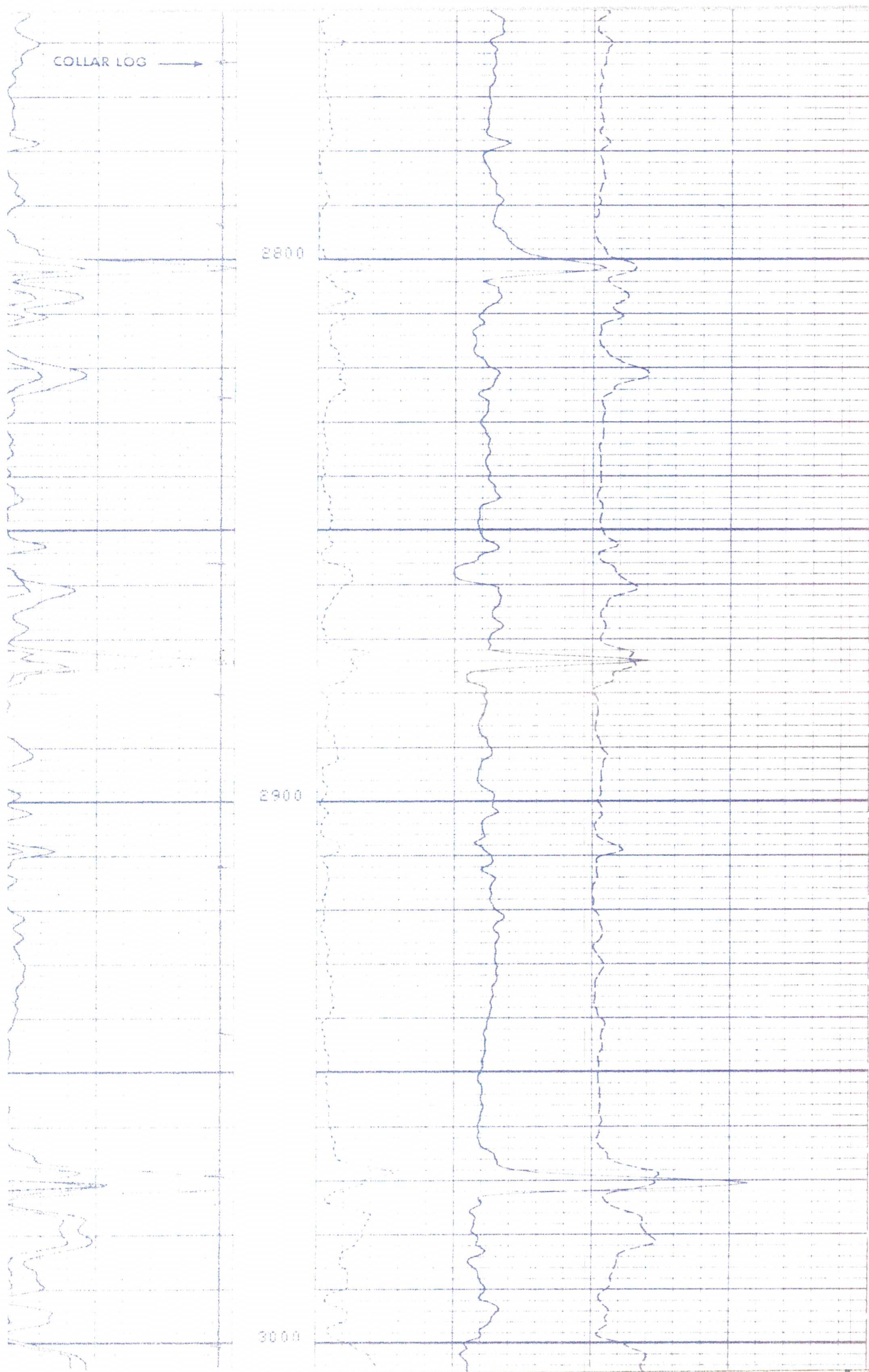
JIG
BEFORE 2.238 AFTER 2.229
POROSITY CHANGE (LIME): -.000

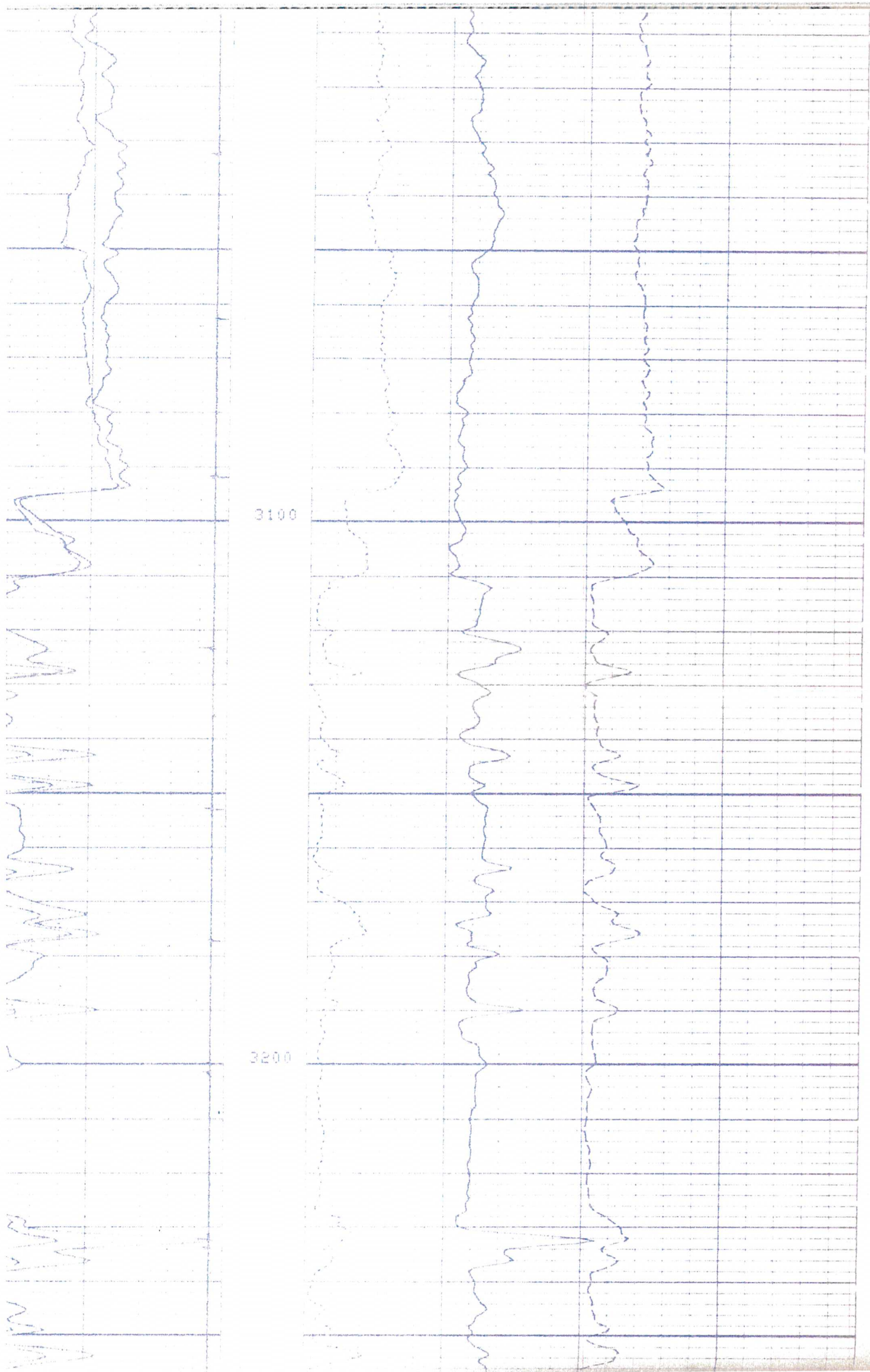
FILE 5 01-MAR-88 11:17

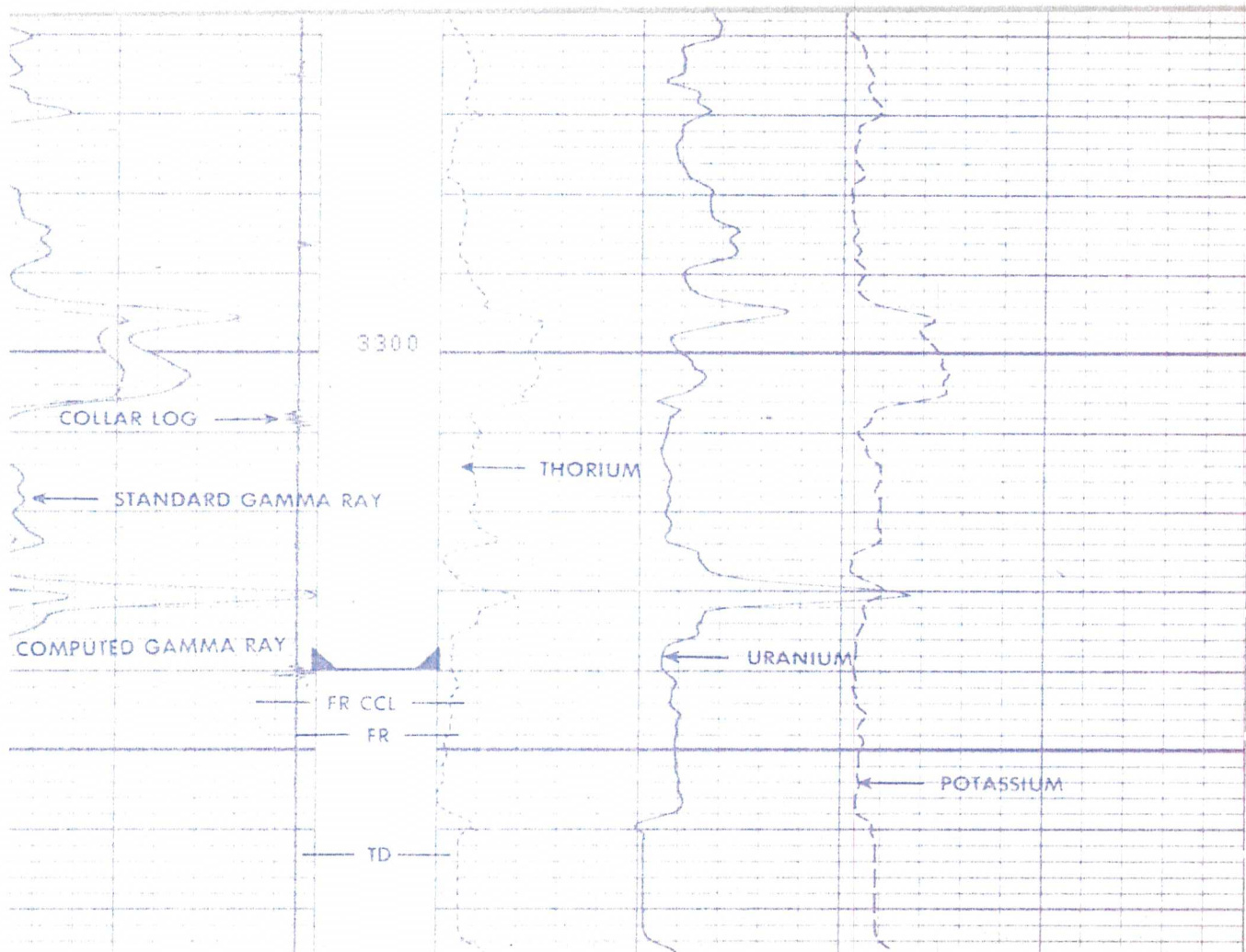
SGR (GAPI)	150.00				
SGR (GAPI)	300.00				
CGR (GAPI)	150.00	0.0	THOR (PPM)	40.000	POTA .10000
CCL	1.0000	-10.00	URAN (PPM)		30.000

FILE 2 01-MAR-88 11:13









FILE 2 01-MAR-88 10:28

SGR (GAPI)	150.00				
SGR (GAPI)	300.00				
0					
CGR (GAPI)	150.00	0.0	THOR (PPM)	40.000	0.0
CCL	1.0000	-10.00	URAN (PPM)		30.000
0					
				POTA	.10000

SENSOR MEASURE POINT TO TOOL ZERO

W4NG 14.5	FEET	W5NG 14.5	FEET
W2NG 14.5	FEET	W3NG 14.5	FEET
SNGT 14.5	FEET	W1NG 14.5	FEET
TPUW 13.9	FEET	NGPE 13.9	FEET
PPUW 13.9	FEET	TPLW 13.9	FEET
APUW 13.9	FEET	PPLW 13.9	FEET
SCNL 2.8	FEET	APLW 13.9	FEET
FCNL 3.3	FEET	NCNL 3.3	FEET
CCL 18.5	FEET	TENS .3	FEET
NRAT 3.3	FEET	SGR 14.5	FEET

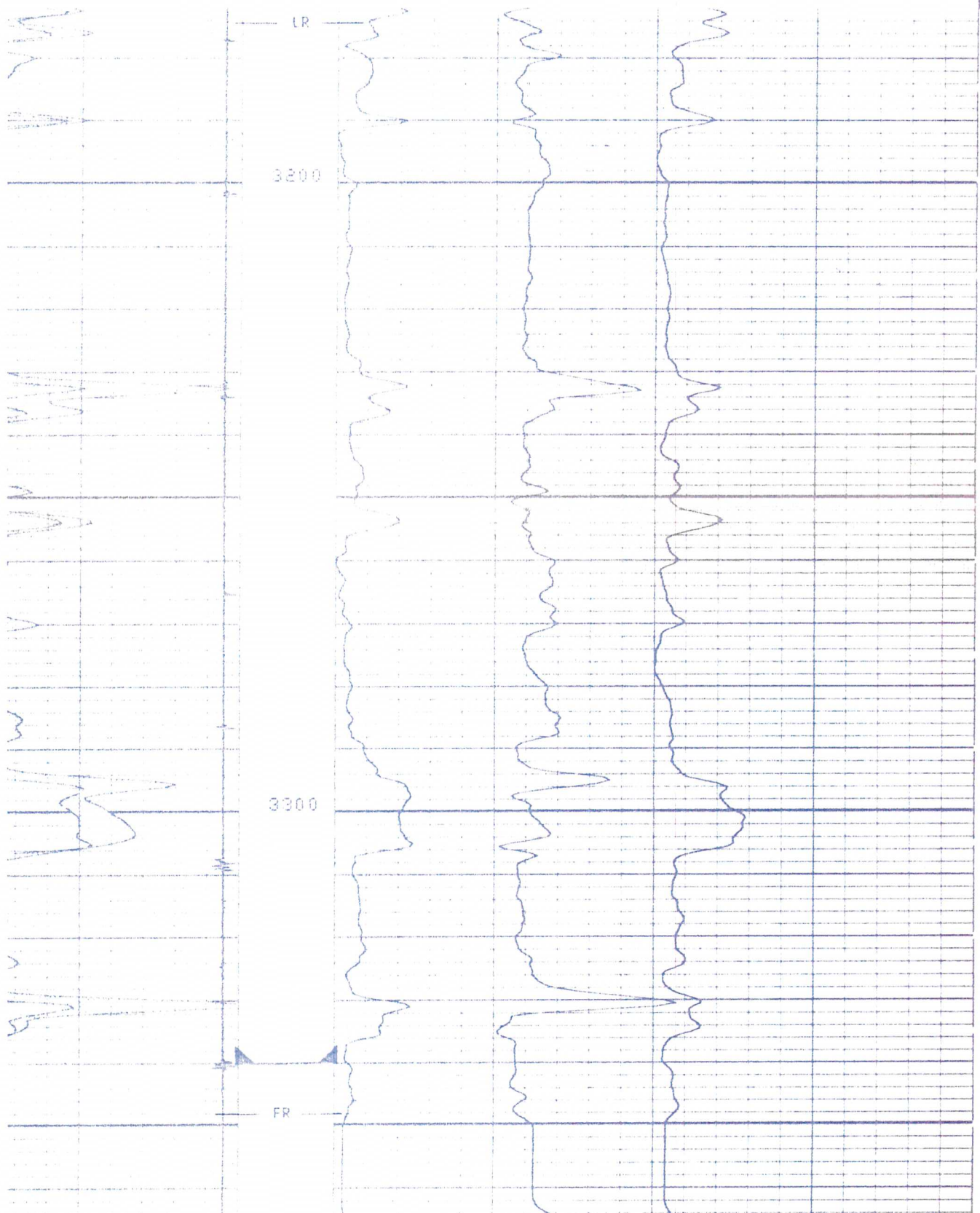
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BHT	110.000	DEGF	TD	6000.00	F
PSNR	2.24800		SHT	65.0000	DEGF
MATR	LIME		HC	BS	
BHS	CASE		CSIZ	5.50000	IN
BS	7.87500	IN			

SGR (GAPI)	150.00				
SGR (GAPI)	300.00				
CCR (GAPI)	150.00	0.0	THOR (PPM)	40.000	POTA
CCL	1.0000	-10.00	URAN (PPM)	0.0	.10000
					30.000

FILE 1 01-MAR-88 10:27

REPEAT SECTION



FILE 1 01-MAR-88 10:14

REPEAT SECTION

SGR (GAPI)	150.00				
	300.00				
DGR (GAPI)	150.00	0.0	THOR (PPM)	40.000	0.0
				POTA	.10000
DCL	1.0000	-10.00	URAN (PPM)		30.000

SENSOR MEASURE POINT TO TOOL ZERO

W4NG 14.5	FEET	W5NG 14.5	FEET
W2NG 14.5	FEET	W3NG 14.5	FEET
SNGT 14.5	FEET	W1NG 14.5	FEET
TPUW 13.9	FEET	NGPE 13.9	FEET
PPUW 13.9	FEET	TPLW 13.9	FEET
APUW 13.9	FEET	PPLW 13.9	FEET
SCNL 2.8	FEET	APLW 13.9	FEET
PCNL 2.3	FEET	NCNL 3.3	FEET
CCL 18.5	FEET	TENS .3	FEET
NRAT 3.3	FEET	SGR 14.5	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BHT	110.000	DEGF	TD	6000.00	F
PSNR	2.24800		SHT	65.0000	DEGF
NATR	LIME		HC	BS	
BHS	CASE		CSIZ	5.50000	IN
BS	7.87500	IN			

BEFORE SURVEY CALIBRATION SUMMARY

FORMED: 88/03/01
 RAM FILE: LEP (VERSION 26.2 00/00/00)

DETECTOR CALIBRATION SUMMARY

MEASURED		CALIBRATED	UNITS
BKGD	JIG		GAPI
41	206	160	
MEASURED BEFORE SURVEY			
BKG	JIG	UNITS	
102.0	492.7	CPS	
37.8	216.6	CPS	
13.2	37.8	CPS	
1.9	16.5	CPS	
1.9	25.7	CPS	

DETECTOR CALIBRATION SUMMARY

TANK	JIG	MEASURED	CALIBRATED
INPUT			
2.24800	2.158	2.232	2.238

FILE 0 1-MAR-88 10:01

SHOP SUMMARY

RMED: 29-FEB-88 17:43
 AM FILE: CCSHOP (VERSION 30.4 88/02/12 87/11/19)

DETECTOR CALIBRATION SUMMARY

NGTC CARTRIDGE NUMBER : 952
 NGTC DETECTOR NUMBER : 927
 NGTC JIG NUMBER : 18
 NGTC CALIBRATOR TYPE : GSRU
 GSR-U REFERENCE (GAPI) : 160

	MEASURED			
R	BKGD	JIG	CALIBRATED	UNITS
	41	207	160	GAPI
	SHOP		MEASURED	
	BKG	JIG	UNITS	
	101.0	484.9	CPS	
	37.9	213.4	CPS	
	13.6	39.5	CPS	
	1.8	16.4	CPS	
	2.1	25.5	CPS	

53 KEY OFFSET

CTOR RESOLUTION: 10.5619 %
 HIGH VOLTAGE: 1418.17 V
 QUALITY WINDOWS RATIO: 2.18717

29-FEB-88 17:36 JIG: 29-FEB-88 17:41 COMP: 29-FEB-88 17:41

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 23, 2011

Liz Lindow
Noble Energy, Inc.
1625 Broadway, Ste 2200
DENVER, CO 80202

Re: ACO1
API 15-009-15598-00-00
YORK MARCHAND 4
NE/4 Sec.24-20S-12W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Liz Lindow