



KANSAS CORPORATION COMMISSION 1071158
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3273
Name: HERMAN L. LOEB, LLC
Address 1: PO BOX 838
Address 2: _____
City: LAWRENCEVILLE State: IL Zip: 62439 + _____
Contact Person: George Payne
Phone: (812) 453-0385
CONTRACTOR: License # 5893
Name: Pratt Well Service, Inc.
Wellsite Geologist: Jon Christensen
Purchaser: Plains Marketing L.P.

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: HERMAN L. LOEB, LLC
Well Name: Canton C #1
Original Comp. Date: 04/08/1968 Original Total Depth: 4935

Deepening Re-perf. Conv. to ENHR Conv. to SWD

Conv. to GSW

Plug Back: 4732 Plug Back Total Depth

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

ENHR Permit #: _____

GSW Permit #: _____

<u>05/10/2007</u>	<u>05/10/2007</u>	<u>05/10/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-097-20038-00-02

Spot Description:
SE SE NW NW Sec. 20 Twp. 30 S. R. 17 East West

1250 Feet from North / South Line of Section

1250 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Kiowa

Lease Name: CANTON C Well #: 1

Field Name: Unknown

Producing Formation: Marmaton

Elevation: Ground: 2029 Kelly Bushing: 2036

Total Depth: 4935 Plug Back Total Depth: 4732

Amount of Surface Pipe Set and Cemented at: 522 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Gamisor Date: 03/26/2012



1071158

Operator Name: HERMAN L. LOEB, LLC Lease Name: CANTON C Well #: 1
 Sec. 20 Twp. 30 S. R. 17 East West County: Kiowa

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	Depth
2	6 feet, CI Bridge Plug set at 4732	Shot	4722 - 4728
0	CI Bridge Plug at 4732-4733	Cast Iron	4732

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. 05/12/2007 Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	54	85			

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4722 - 4728</u>
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	CANTON C 1
Doc ID	1071158

Tops

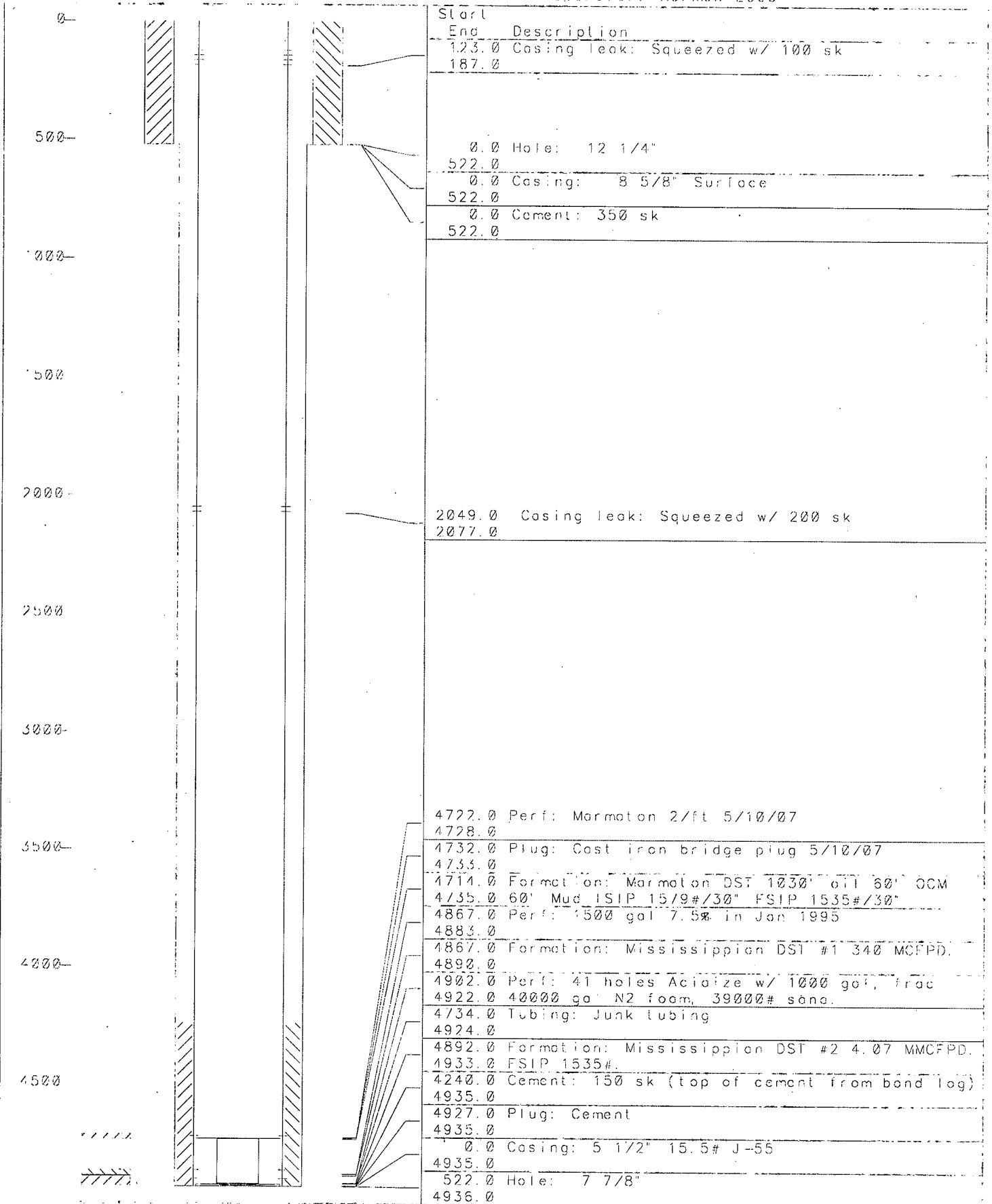
Tops		
Heebner	4059	-2023
Brown LS	4224	-2188
Lansing	4242	-2206
Hertha	4563	-2527
BKC	4601	-2565
Marmaton	4710	-2674
Cher SH	4751	-2715
Miss	4855	-2819

Lease: Canton C
 Well #: 1

Permit: 1509720038 API
 Location: 20-30S-17W C NW
 County: Kiowa
 State: Kansas
 Field: Glick
 Operator: Herman Loeb

Diagram: 03/01/2001
 Rev K3: 2036
 ID: 4936

Comp Date: 04/08/1968
 Elev GI: 0
 PBID: 4927



COMPANY: HERMAN L. LOEB
WELL: CANTON "C" 120 SEC.20-30-17 KIOWA CO.,KS
DATE: 5/16/2007
WATER LEVEL @: NONE OIL/COND. LEVEL @ 1322'
TEMP @: 117
TBG PRESSURE @: 471.6

DEPTH	PRESSURE	GRADIENT
0	471.6	
1000	486.5	0.015
2000	715.9	0.229
3000	1054.3	0.338
4000	1396.4	0.342
4500	1569.3	0.346
4600	1603.9	0.346
4700	1638.6	0.347
4725	1647.3	0.348

LANE WELLS

*Gamma Ray Neutron
Toolrod Log*

A DIVISION OF DRISCOLL INDUSTRIES, INC.

FILE NO. 110

COMPANY PETROLEUM, INCORPORATED

WELL CANTON C-1
Property of
Kansas Geological Society
540 Petroleum Bldg.
Wichita, Kansas

FIELD KANSAS SOUTH

COUNTY KIOWA STATE KANSAS

LOCATION:

C NW

Other Services

SEC 20 TWP 30S RGE 17W

PERMANENT DATUM

Elev. 2029

Elevations
KB 2036
DF 2034
CL 2029

Log Measured from KELLY BUSHING
Drilling Measured from KELLY BUSHING 7 Ft. Above Permanent Datum

Date 10-22-67

Run No. ONE

Depth—Driller 4933

Depth—Logger 4935

Bottom Logged Interval 4934

Top Logged Interval SURF

Casing—Driller 8 5/8 @ 522

Casing—Logger RECORDED

Bit Size 7 7/8"

Type Fluid in Hole STARCH BASE

Density and Viscosity SALT GEL

pH and Fluid Loss 10.1 4.4

Source of Sample PITMINE

Rm @ Meas. Temp. -12 @ 72°F

Rmf @ Meas. Temp. -10 @ 72°F

Rac @ Meas. Temp. -15 @ 72°F

Source of Rmf and Rmc CALC CALC

Rm @ BHT .08 @ 110°F

Time Since Circ 2 HRS.

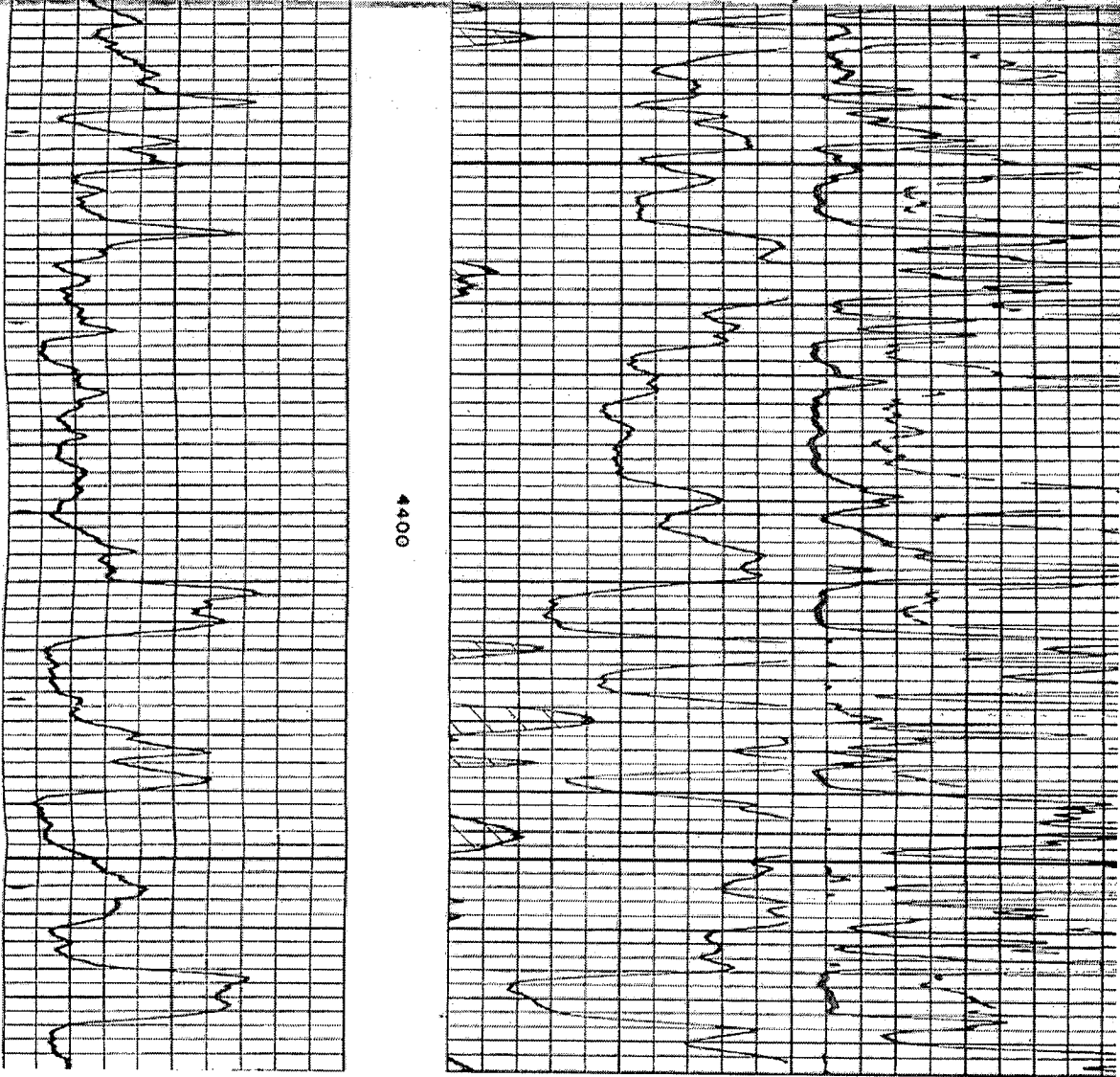
Max. Rec. Temp. Deg. F. 110

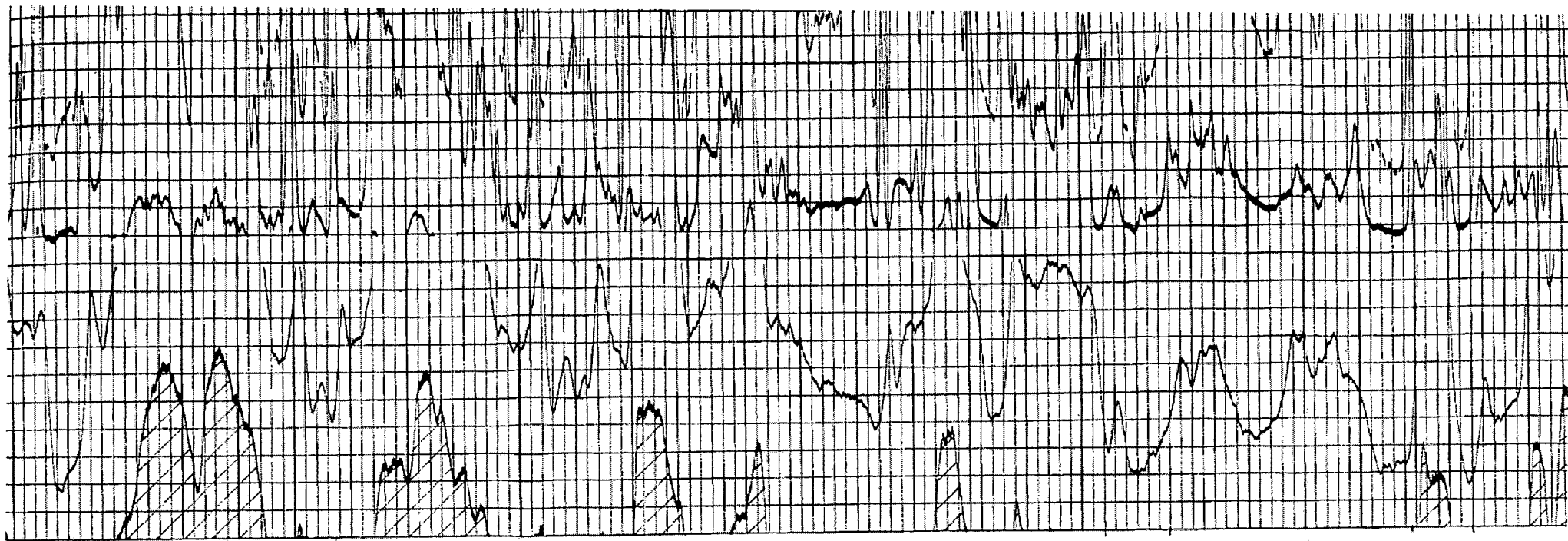
Equip. No. and location 11-1001 GB

Recorded By WEBER

Witnessed By MR. DONAUGH

KANSAS GEOLOGICAL SOCIETY LIBRARY
 55989
 10/23

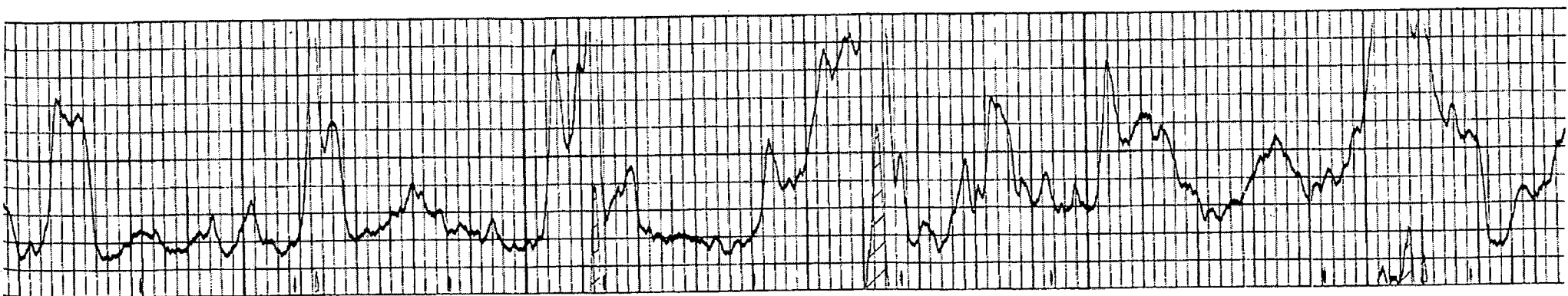


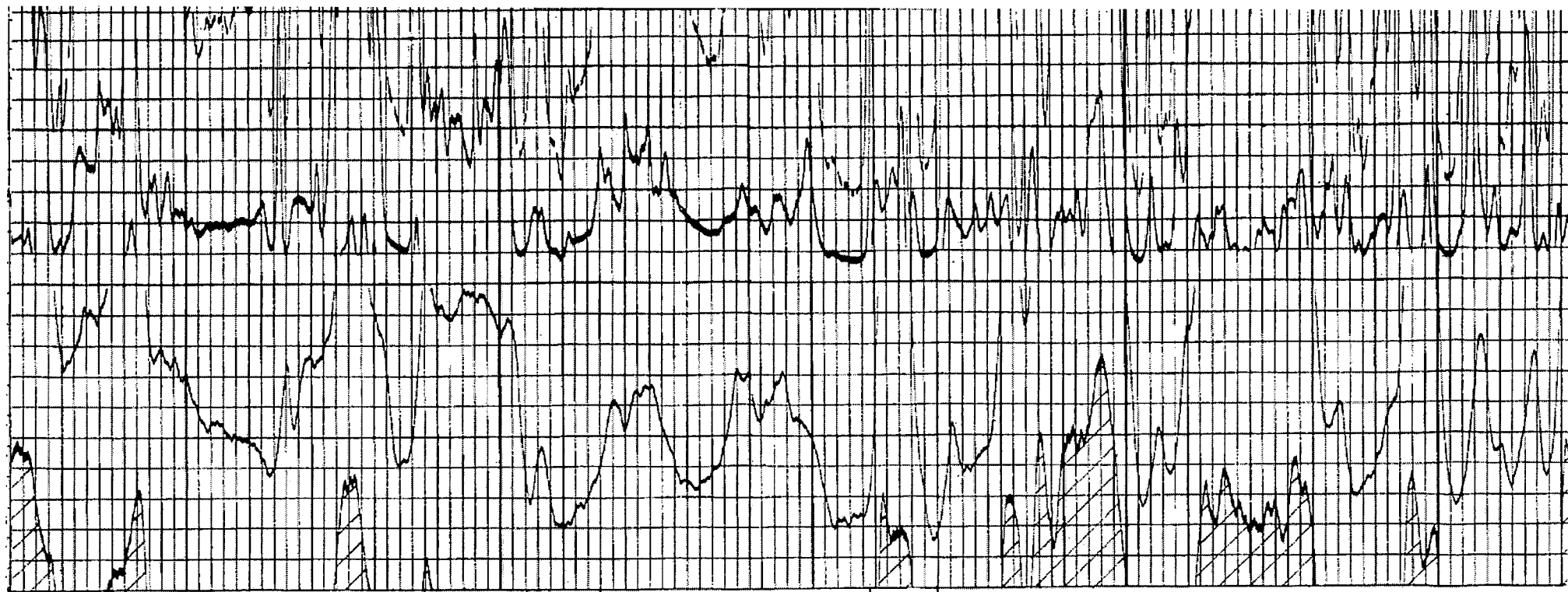


4500

4600

4700

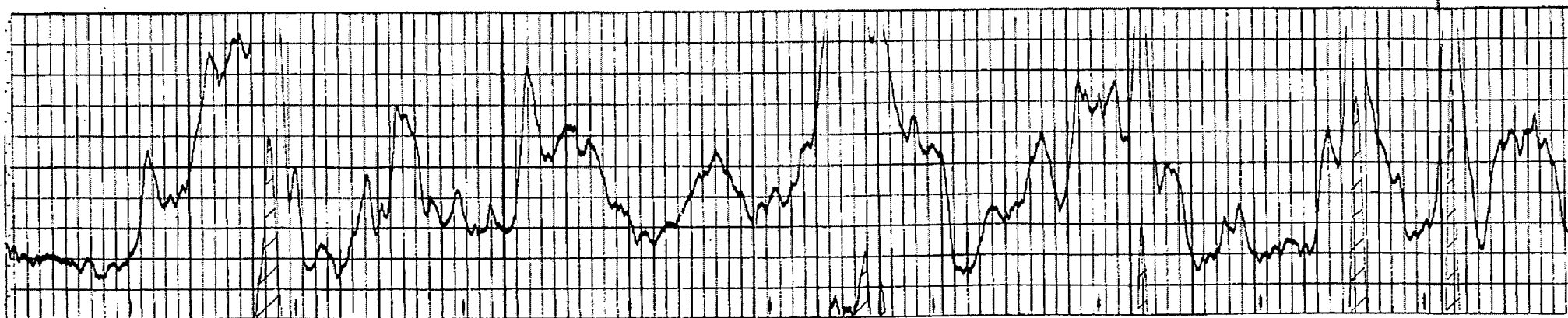




4600

4700

4800



PI/Dwights PLUS Online Well Scout Ticket

Pressures: FTP: SITP:
FCP: SICP:
CAOF:
Perforations: Interval Cnt Type Shots/Ft Top Formation
4902 - 4922 359MSSP MISSISSIPPIAN

PD # 001

Top Formation: MISSISSIPPIAN
Base Formation: MISSISSIPPIAN
Oil: Condst:
Gas: 5700 MCFD Water:
Interval: 4902 - 4922 Method: FLOWING
Duration of Test: Hours Choke: 64/64
Oil: Gravity: GOR:

Prod Method: PERF
Pressures: FTP: SITP:
FCP: 130 SICP:
Perforations: 359MSSP MISSISSIPPIAN
Perf Interval: 4902 - 4922 Shots/Ft:

Remarks on PT Test # 001 PERF 41/4902-4922 F WITH MIST FRESH WTR & CONDENSATE

PD # 002

Top Formation: MISSISSIPPIAN
Base Formation: MISSISSIPPIAN
Oil: Condst:
Gas: 2740 MCFD Water:
Interval: 4902 - 4922 Method: FLOWING
Duration of Test: Hours Choke:
Oil: Gravity: GOR:

Prod Method: PERF
Pressures: FTP: SITP:
FCP: 120 SICP:
Perforations: 359MSSP MISSISSIPPIAN
Perf Interval: 4902 - 4922 Shots/Ft:

PD # 003

Top Formation: MISSISSIPPIAN
Base Formation: MISSISSIPPIAN
Oil: Condst:
Gas: 8060 MCFD Water:
Interval: 4902 - 4922 Method: FLOWING
Duration of Test: Hours Choke:
Oil: Gravity: GOR:

Prod Method: PERF
Pressures: FTP: SITP:
FCP: 400 SICP:
Perforations: 359MSSP MISSISSIPPIAN
Perf Interval: 4902 - 4922 Shots/Ft:

Treatments: 100 Interval: 4902 - 4922
Fluid: 1000 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:1.1
Stages: Remarks:

PD # 004

PI/Dwights PLUS Online Well Scout Ticket

Top Formation: MISSISSIPPIAN
 Base Formation: MISSISSIPPIAN
 Oil:
 Gas: 11800 MCFD
 Interval: 4902 - 4922
 Duration of Test: Hours
 Oil: Gravity:
 Prod Method: PERF
 Pressures: FTP: SITP:
 FCP: 925 SICP: 1600
 Perforations: 359MSSP MISSISSIPPIAN
 Perf Interval: 4902 - 4922 Shots/Ft:
 Condst: 8 BPH
 Water:
 Method: FLOWING
 Choke:
 GOR:

Treatments: 101 Interval: 4902 - 4922
 Fluid: 40000 GAL FRAC Type: A
 Additive: NTGN
 Prop Agent: SAND 39000 LB
 Formation Break Down Pressure:
 Average Injection Rate: 40
 Stages: Remarks: 484000 SCF NITROGEN

DST # 001

Show: S Formation: MISSISSIPPIAN
 Interval: 4867 - 4890 BHT
 Choke: Top: Bottom:
 Mat'l's to Surface: GAS 10 340 MCFD
 Pressures and Times:

Hydro		Init Flow		Final Flow		Shut-in		Open Time		Shut-in Time	
Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
				91	57	1436	1370	30	30	30	30

DST # 002

Show: S Formation: MISSISSIPPIAN
 Interval: 4892 - 4933 BHT
 Choke: Top: Bottom:
 Recovery: 1 10 FT O Rec Method: PIPE
 Recovery: 2 5 FT M Rec Method: PIPE
 Mat'l's to Surface: GAS 20 4070 MCFD
 Pressures and Times:

Hydro		Init Flow		Final Flow		Shut-in		Open Time		Shut-in Time	
Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
				765	976	1535	1535	30	30	30	30

Casing, Liner, Tubing

Casing 8 IN @ 522 w/ 350 sx
 Casing 5 1/2 IN @ 4935 w/ 150 sx

Drilling Journal

Wellsite Geologist 1 RAY DOMBAUGH

Formations and Logs

Log # 1 EL @ 0 - 4935
 Top Formation Measured Top Base Base Source Lith- Age

PI/Dwights PLUS Online Well Scout Ticket

Formations and Logs

	Depth	TVD	Depth	TVD	ology	code
HEEBNER	4062				LOG	406
BIG LIME	4224				LOG	404
LANSING	4242				LOG	405
HERTHA	4563				LOG	405
MARMATON	4710				LOG	404
MISSISSIPPIAN	4855				LOG	359

Dwights Energydata Narrative

Accumulated through 1997

IP: (Mississippian 4902-4922) F 11800 MCFGPD
 Perfs: 4902-4922 (Mississippian)
 Perfs: W/41 HOLES TOTAL, FLO THRU 1 INCH CK, CP 130#, VENT 5700 MCFGPD, MIST
 OF WTR & COND, VENT 2740 MCFGPD, CP 120#, AC 1000 GAL & 24 B FLUSH,
 Perfs: SWB & FLO VENT 8060 MCFGPD, CP 400#, FRAC 40,000 GAL GEL AC & 39,000#
 Perfs: SD & 484 MCFG NITRO, VENT 11,800 MCFGPD & 8 BFPH THRU TBG W/MODEL D
 Perfs: PKR AT 4750
 Dst: #1 4867- 4890 (Mississippian)
 Dst: op . FP 91-57 SIP 1436-1370 - GTS/5' GA 310 MCFGPD & STAB, NO REC, SIT
 Dst: 30'
 Dst: #2 4892- 4933 (Mississippian)
 Dst: op . FP 765-976 SIP 1535-1535 - GTS/2', GA 3500 MCFG/5', 3970
 Dst: MCFG/10',4070 MCFG/20'& STAB, REC 10' OIL, 5' M, SIT 30'
 Cores: None
 Dwights number: K5494100

Operator Address

Street or PO Box:

City:
 State, Zip:
 Country:
 Phone:
 E-Mail:
 Agent Name:
 Agent Remark:

Fax:

Agent Code: