

STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

25-85-20E 25-8-20E

100
9. 58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special TEST DATE: **March 31, 1968**

COMPANY: **ELECTRO THERMO COMPANY** LEASE: **COLLONS** WELL NO.: **1**

COUNTY: **LEAVENWORTH** LOCATION: **ST. LOUIS** SECTION: **none**

FIELD: **ST. LOUIS** PIPELINE CONNECTION: **none**

COMPLETION DATE: **PLUG BACK TOTAL DEPTH** PACKER SET AT: **1470 mid-perf.**

CASING SIZE: **4 1/2"** WT. **none** ID. **none** SEC AT: **none** TO: **1470 mid-perf.**

TUBING SIZE: **none** WT. **none** ID. **none** SEC AT: **none** TO: **none**

TYPE COMPLETION (Describe): **SINGLE ZONE** TYPE FLUID PRODUCTION: **OIL**

PRODUCING THRU: **CASING** RESERVOIR TEMPERATURE: **82** BAR PRESS - P_a: **14.4 Psia**

GAS GRAVITY - G_g: **.700 est.** CARBON DIOXIDE: **none** GRAVITY OF LIQUID: **19. est.**

VERTICAL DEPTH (H): **1470** TYPE METER CORR.: **2"** (METER RUN) (PROVER) SIZE: **2"**

REMARKS:

OBSERVED DATA

DURATION OF SHUT-IN: **HR.**

RATE NO.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIF. (h _w) (h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. psig	DURATION HOURS	LIQUID PROD. Bbls.
SHUT IN									
1	.500	70		60		477		24	0
2	"	91		"		328		17	0
3	.750	50		"		251		7	0
4						170			
5									

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _g) (F _p) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW Q Mcfd	GOR	Q _m
1	4.388	84.4		1.195	1.00	1.0080	466		
2	"	105.4		"	"	1.0103	558		
3	9.694	64.4		"	"	1.0059	750		
4									
5									

PRESSURE CALCULATIONS

RATE NO.	P _t psia	B.H.P. P _c psia	B.H.P. P _w psia	(P _c) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTTING POINTS (P _c) ² - (P _w) ² THOUSANDS	Q Mcfd	% SHUT-IN $100 \left[\frac{P_w - P_a}{P_c - P_a} \right]$
1		499	427	249	182	67	466	69
2			395		156	93	558	53
3			330		109	140	750	36
4								
5								

INDICATED WELLHEAD OPEN FLOW **1,147** Mcfd @ 14.65 psia **.738**

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Executed this the _____ day of _____, 19__

Witness (if any)

For Commission

RAINBOW SERVICE COMPANY

R.E. Grop
Check by

OKLA CITY
ME 4-2131
ME 4-0105

RAINBO SERVICE CO.

Wire Line Well Service

629 S.E. 29th Oklahoma City, Okla.

LIBERAL
MA 4-3598
P.O. Box 523

Company Electro Thermo Prod. Co. Location O.C. 3092
Lease Collons Well No. 1 Field St. Louis
County Leavenworth State Kansas Date of test Mar. 29, 196

STATIC BOTTOM HOLE PRESSURE TEST

Summary

Depth feet	Pressure PSI, ga.	Gradient PSI/ft
0	477	
1000	487	.010
1200	489	.010
1400	491	.010
1470	499	.114

Well shut in 19 Hours shut in _____
Casing pressure 477 PSI Tubing pressure _____ PSI
Fluid levels: Gas to 1440 feet
Condensate to _____ feet
Oil to 1470 feet
Water, mud, spent acid to _____ feet
Bottom hole temperature 82 °F at 1470 feet
Bottom hole pressure 499 PSI at 1470 feet

Measurements

Customer Zero Point _____
Rainbo Zero Point (Instrument) _____
Distance from reference point to zero _____ plus () minus ()
Pressures are () are not () corrected to zero level
Elevation _____ Grd _____ DF _____ DB _____

Completion Details

Date completed _____ Casing set _____ feet Size _____
perf. _____ to _____ feet Liner _____
Tubing set _____ feet Size _____ inches
BH Ch. _____ Pin, plug _____
Type packer _____ @ _____ feet
Total depth _____ plug back depth _____
Dual completion () Single completion ()
Dual string tubing () Single string tubing ()

History

Last BH Press. _____ at _____ date _____
Last cumulative production _____ bbls on _____ 19 _____
Present cumulative production _____ bbls on _____ 19 _____
Barrels produced per PSI change in pressure _____

Reservoir Data

Name of zone _____ Depths _____ to _____ ft.
Gravity of fluid _____ °API; Gravity of gas _____ (AIR = 1.000)

Datum stop _____ Datum _____

Remarks _____

Type Instrument Keltner No. 70

Run by Grant

RAINBO SERVICE CO.*Wire Line Well Service*

629 S.E. 29th Oklahoma City, Okla.

LIBERAL
MA 4-3598
P.O. Box 523

Electro Thermo Prod. Co. Location File O.C. 3092
 Collons Well No. 1 Field St. Louis
 Leavenworth State Kansas Date of test Mar. 29 to 31, 1968

STATIC BOTTOM HOLE PRESSURE TESTSummary

Depth feet	Pressure PSI, ga.	Gradient PSI/ft
B.H.P. DRAW-DOWN TEST		
1470	499	Shut In
	468	1 Hr. 1st. rate
	460	2 Hrs. "
	456	3 " "
	450	4 " "
	447	5 " "
	444	6 " "
	440	8 " "
	437	10 " "
	435	12 " "
	433	14 " "
	430	16 " "
	429	18 " "
	427	22 " "
	427	24 " "
	403	1 Hr. 2nd. rate
	401	2 Hrs. "
	399	4 " "
	397	6 " "
	395	10 " "
	395	17 " "
	333	1 Hr. 3rd. rate
	331	2 Hrs. "
	330	4 " "
	330	7 " "
PULLED BOMB		

Well shut in 19 Hours shut in _____
 Casing pressure _____ PSI Tubing pressure _____ PSI
 Fluid levels: Gas to _____ feet
 Condensate to _____ feet
 Oil to _____ feet
 Water, mud, spent acid to _____ feet
 Bottom hole temperature 82 °F at 1470 feet
 Bottom hole pressure _____ PSI at _____ feet

Measurements

Customer Zero Point _____
 Rainbo Zero Point (Instrument) _____
 Distance from reference point to zero _____ plus () minus ()
 Pressures are () are not () corrected to zero level
 Elevation _____ Grd _____ DF _____ DB _____

Completion Details

Date completed _____ Casing set _____ feet Size _____
 perf. _____ to _____ feet Liner _____
 Tubing set _____ feet Size _____ inches
 BH Ch. _____ Pin, plug _____
 Type packer _____ @ _____ feet
 Total depth _____ plug back depth _____
 Dual completion () Single completion ()
 Dual string tubing () Single string tubing ()

History

BH Press. _____ at _____ date _____
 Last cumulative production _____ bbls on _____ 19____
 Present cumulative production _____ bbls on _____ 19____
 Barrels produced per PSI change in pressure _____

Reservoir Data

Name of zone _____ Depths _____ to _____ ft.
 Gravity of fluid _____ °API; Gravity of gas _____ (AIR = 1.000)

Datum stop _____ Datum _____

Remarks _____

Type Instrument Keltner No. 70Run by Grant

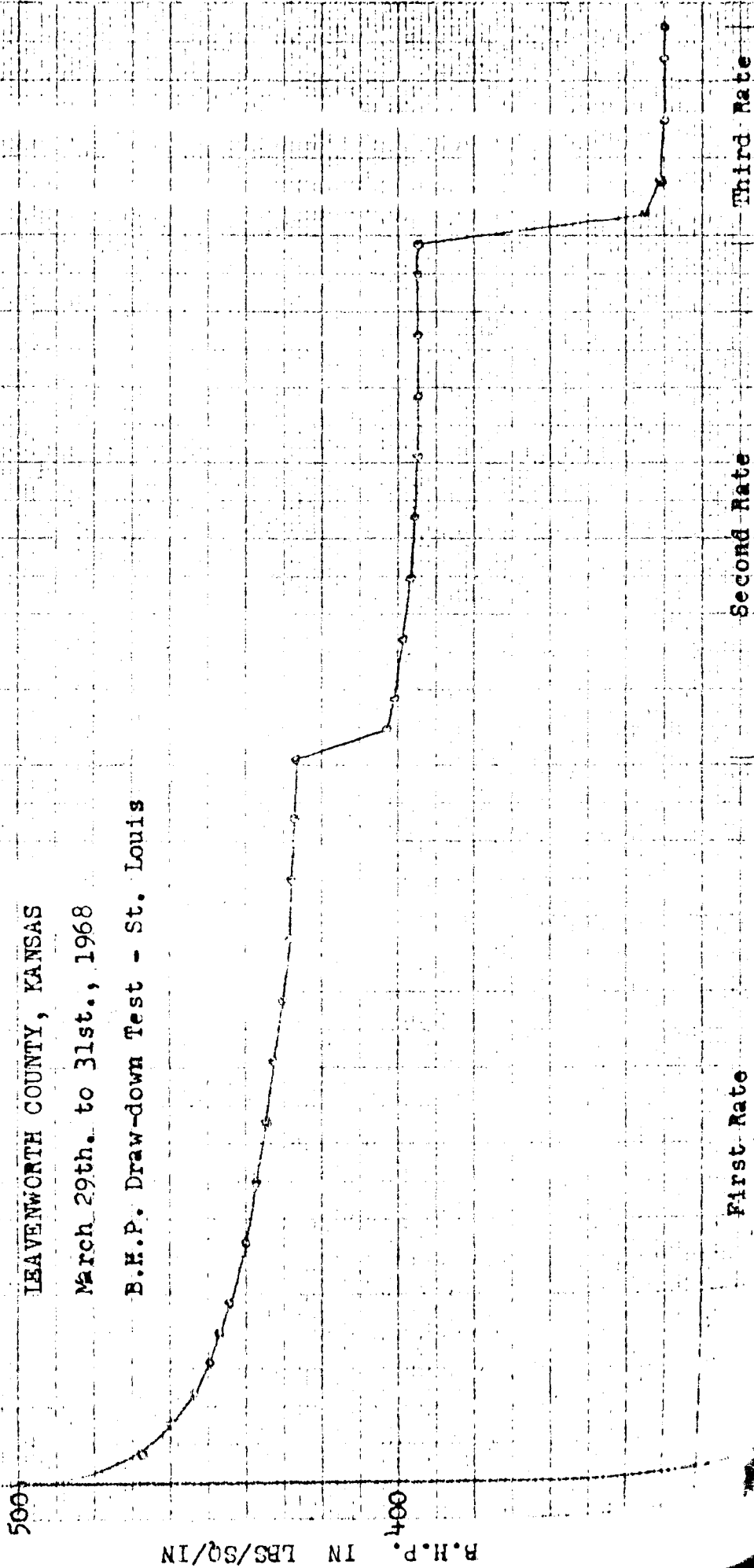
ELECTRO THERMO PRODUCTION COMPANY

COLLON NO. 1

LEAVENWORTH COUNTY, KANSAS

March 29th. to 31st., 1968

B.H.P. Draw-down Test - St. Louis



FIELD DATA REPORT

POTENTIAL TESTS

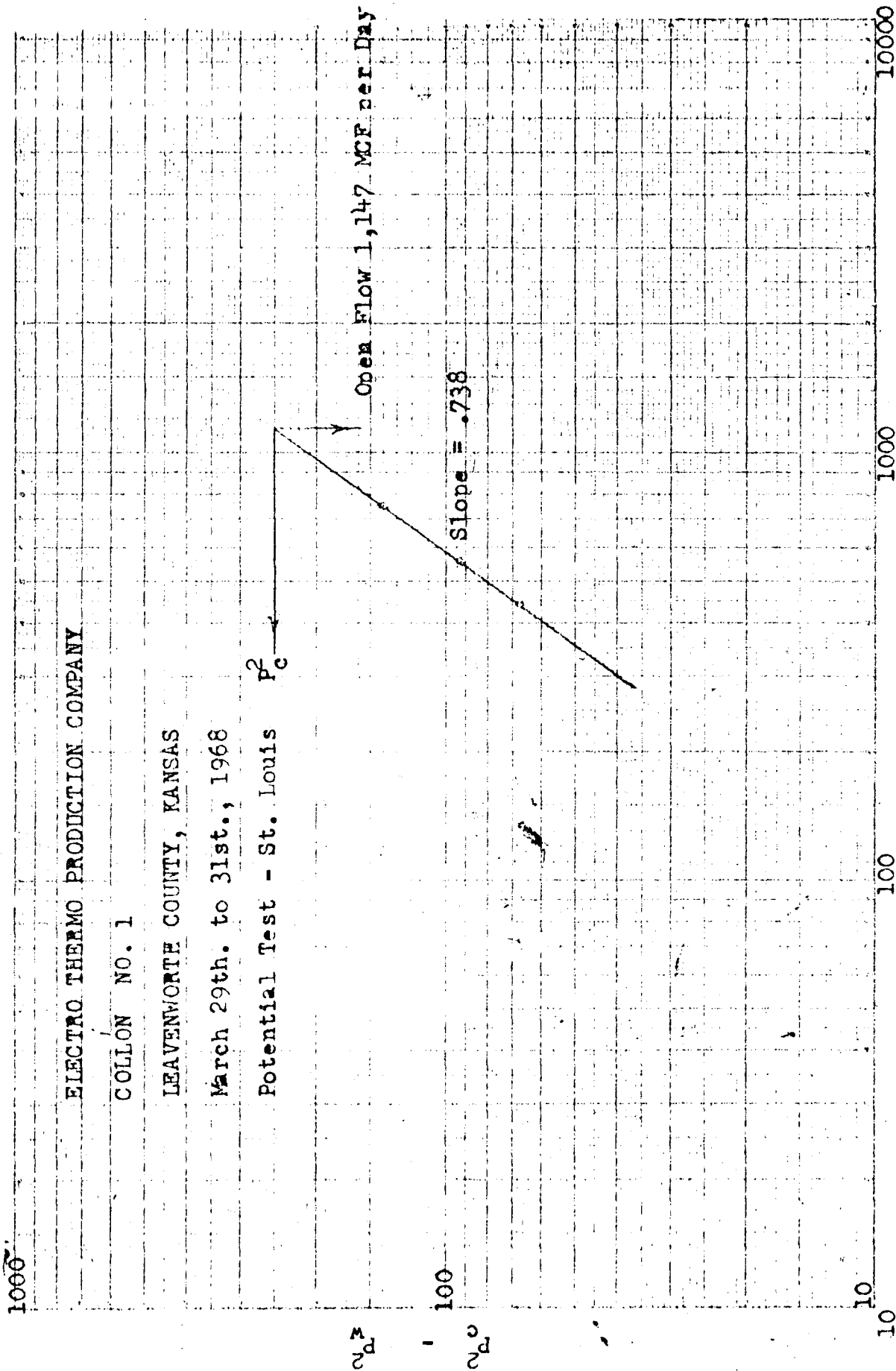
DATE March 29th. to 31st., 1968

COMPANY ELECTRO THERMO PROD. CO. LEASE COLLONS WELL NO. 1 LOCATION
COUNTY LEAVENWORTH STATE KANSAS PROD. FORMATION ST. LOUIS ELEV.
CASING-size 4 1/2" set PERFORATIONS-from to 1470 mid-perforations
TUBING-size none set PACKER-make set B.H. CHOKE
~~WILLIAM~~ TESTER - size 2" CONNECTION- Flg. or Pipe GRAVITY - GAS. 70 ESTOIL 19 est.

[illegible]

25-8-20E

File - O.C. 3092



ELECTRO THERMO PRODUCTION COMPANY

COLLON NO. 1

LEAVENWORTH COUNTY, KANSAS

March 29th. to 31st., 1968