

15-075-20505

30-255-41w

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

COPY

Well Name GOULD #2-30 Test No. 1 Date 3/30/ 3
 Company PETROLEUM INC Zone MORROW
 Address 301 N MAIN SUITE 00 WICHITA KS 67202 Elevation 35 9
 Co. Rep./Geo. TYLER SANDERS Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay _____
 Location: Sec. 30 Twp. 25S Rge. 41W Co. HAMILTON State KS

Interval Tested 5113-5174 Drill Pipe Size 4.5" XH
 Anchor Length 61 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5109 Drill Collar - 2.25 Ft. Run 605
 Bottom Packer Depth 5113 Mud Wt. _____ lb/Gal.
 Total Depth 5174 Viscosity 50 Filtrate 9.9

Tool Open @ 9:15 AM Initial Blow 1/4" BLOW THROUGHOUT

Final Blow NO BLOW

Recovery - Total Feet 15 Flush Tool? NO

Rec. 15 Feet of DRILLING MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2463.3 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 41.7 PSI @ (depth) 5117 w / Clock No. 25913

(C) First Final Flow Pressure 46.2 PSI AK1 Recorder No. 54 5 Range 4200

(D) Initial Shut-in Pressure 51.9 PSI @ (depth) 5134 w / Clock No. 27595

(E) Second Initial Flow Pressure 51.9 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 49.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 54.1 PSI Initial Opening 30 Final Flow 30

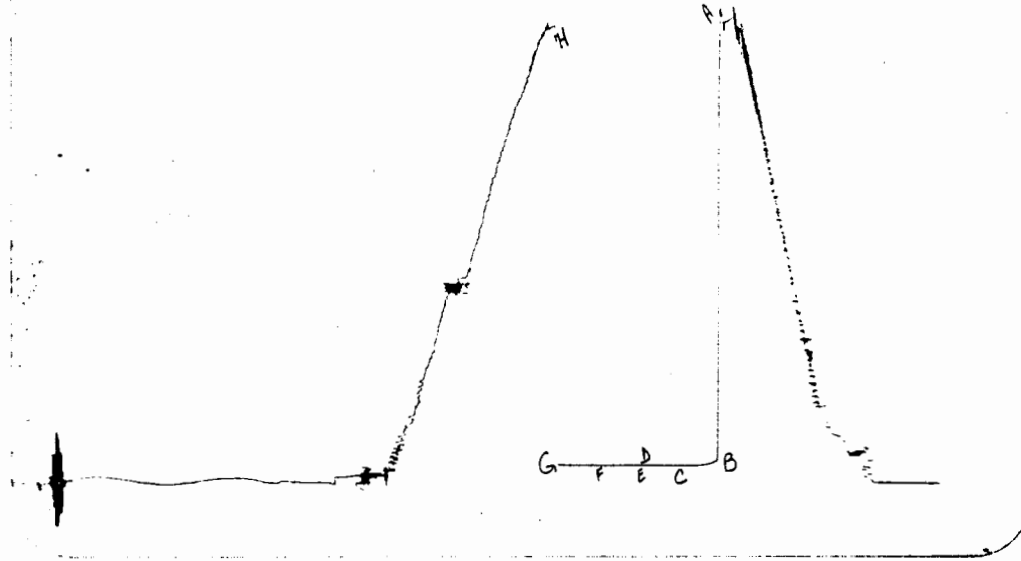
(H) Final Hydrostatic Mud 2440.3 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative TOM HORACEK

CHART PAGE

DS7#1

48277



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2459	2463.3
(B) FIRST INITIAL FLOW PRESSURE	33	41.7
(C) FIRST FINAL FLOW PRESSURE	33	46.2
(D) INITIAL CLOSED-IN PRESSURE	45	51.8
(E) SECOND INITIAL FLOW PRESSURE	33	51.8
(F) SECOND FINAL FLOW PRESSURE	33	48.5
(G) FINAL CLOSED-IN PRESSURE	45	54.1
(H) FINAL HYDROSTATIC MUD	2438	2440.3

INITIAL FLOW

GOULD #2-3

RECORDER # 5495

DST # 1

TIME(MIN)	PRESSURE	<> PRESSURE
0	41.7	41.7
3	41.7	0
6	41.7	0
9	42.8	1.1
12	42.8	0
15	44	1.2
18	44	0
21	45.1	1.1
24	45.1	0
27	46.2	1.1
30	46.2	0

FINAL FLOW

RECORDER # 5495

DST # 1

TIME(MIN)	PRESSURE	<> PRESSURE
0	51.8	51.8
3	51.8	0
6	50.6	-1.2
9	50.6	0
12	50.6	0
15	50.6	0
18	49.6	-1
21	49.6	0
24	49.6	0
27	48.5	-1.1
30	48.5	0

GOULD #2-3
INITIAL

DST #1
SHUTIN

30 TOTAL FLOW TIME

Slope
P *

psi/cycle
psi

TIME(MIN)

Pws (psi)

Log <>

Horn T

PRESSURE

Horn T

3	46.2	1.041	46.2	11
6	46.2	0.778	0.0	6
9	47.3	0.637	1.1	4
12	47.3	0.544	0.0	4
15	48.5	0.477	1.2	3
18	48.5	0.426	0.0	3
21	49.6	0.385	1.1	2
24	49.6	0.352	0.0	2
27	50.7	0.325	1.1	2
30	51.8	0.301	1.1	2

FINAL

DST #1
SHUTIN

60 TOTAL FLOW TIME

Slope
P *

psi/cycle
psi

Pws (psi)

Log <>

Horn T

PRESSURE

Horn T

3	49.6	1.322	49.6	21
6	49.6	1.041	0.0	11
9	49.6	0.885	0.0	8
12	50.7	0.778	1.1	6
15	50.7	0.699	0.0	5
18	51.8	0.637	1.1	4
21	51.8	0.586	0.0	4
24	53.0	0.544	1.2	4
27	53.0	0.508	0.0	3
30	54.1	0.477	1.1	3

FLUID SAMPLER DATA

Ticket No.: 5663 Date: 3/30/93
 Company: PETROLEUM INC
 Lease: GOULD #2-30 Test No.: 1
 County: HAMILTON Sec.: 30 Twp.: 25S Rng.: 41W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure 25
 TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F
 Chlorides ppm.
 Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 7000
 Resistivity ohms@ F
 Viscosity 50
 Mud Wt. 9
 Filtrate 8.8
 Other

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5663

Well Name & No. <u>Could #2-30</u>	Test No. <u>#1</u>	Date <u>3-30-93</u>
Company <u>Petroleum Inc.</u>	Zone Tested <u>Murray</u>	
Address <u>301 N. main st. 900 Wichita Ks 67202</u>	Elevation <u>3598 (KB)</u>	
Co. Rep./Geo. <u>Tyler Sanders</u>	cont. <u>Martin Drly #22</u>	Est. Ft. of Pay _____
Location: Sec. <u>30</u>	Twp. <u>25</u>	Rge. <u>41 w</u> Co. <u>Hamilton</u> State <u>Ks</u>
No. of Copies <u>2</u>	Distribution Sheet _____	Yes <u>X</u> No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>5113-5174</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>61'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5108</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>5113</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5174</u>	Drill Collar — 2.25 Ft. Run <u>605'</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>50</u> Filtrate <u>8.8</u>
Tool Open @ <u>8:15 AM</u>	Initial Blow <u>1/4 blow through out</u>

Final Blow NO blow

Recovery — Total Feet <u>15'</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>15'</u> Feet Of <u>Drly mud</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2459 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 33 PSI @ (depth) 5117 w/Clock No. 25813

(C) First Final Flow Pressure 33 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-In Pressure 45 PSI @ (depth) 5134 w/Clock No. 27585

(E) Second Initial Flow Pressure 33 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 33 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 45 PSI Initial Opening 30 Test X 600

(H) Final Hydrostatic Mud 2438 PSI Initial Shut-In 30 Jars X 400

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 30 Safety Joint X 50

Final Shut-In 30 Straddle _____

Circ. Sub _____

Sampler X 200

Extra Packer _____

Other _____

TOTAL PRICE \$ 1050.00

Approved By Tyler J. Sanders

Our Representative Tom Horacek

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GOULD #2-30 Test No. 2 Date 3/31/93
Company PETROLEUM INC Zone KEYS
Address 301 N MAIN SUITE 900 WICHITA KS 67202 Elevation 3598
Co. Rep./Geo. TYLER SANDERS Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay _____
Location: Sec. 30 Twp. 25S Rge. 41W Co. HAMILTON State KS

Interval Tested	<u>5414-5445</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>31</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5409</u>	Drill Collar - 2.25 Ft. Run	<u>636</u>
Bottom Packer Depth	<u>5414</u>	Mud Wt.	<u>9</u> lb/Gal.
Total Depth	<u>5445</u>	Viscosity	<u>56</u>
		Filtrate	<u>10.4</u>

Tool Open @ 4:50 pm Initial Blow /2" BLOW THROUGHOUT

Final Blow NO BLOW

Recovery - Total Feet 65 Flush Tool? NO

Rec. <u>65</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

126 SHF _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2652.3 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 39.5 PSI @ (depth) 5417 w / Clock No. 25813

(C) First Final Flow Pressure 47.4 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1247.2 PSI @ (depth) 5442 w / Clock No. 27585

(E) Second Initial Flow Pressure 56.3 PSI AK1 Recorder No. _____ Range _____

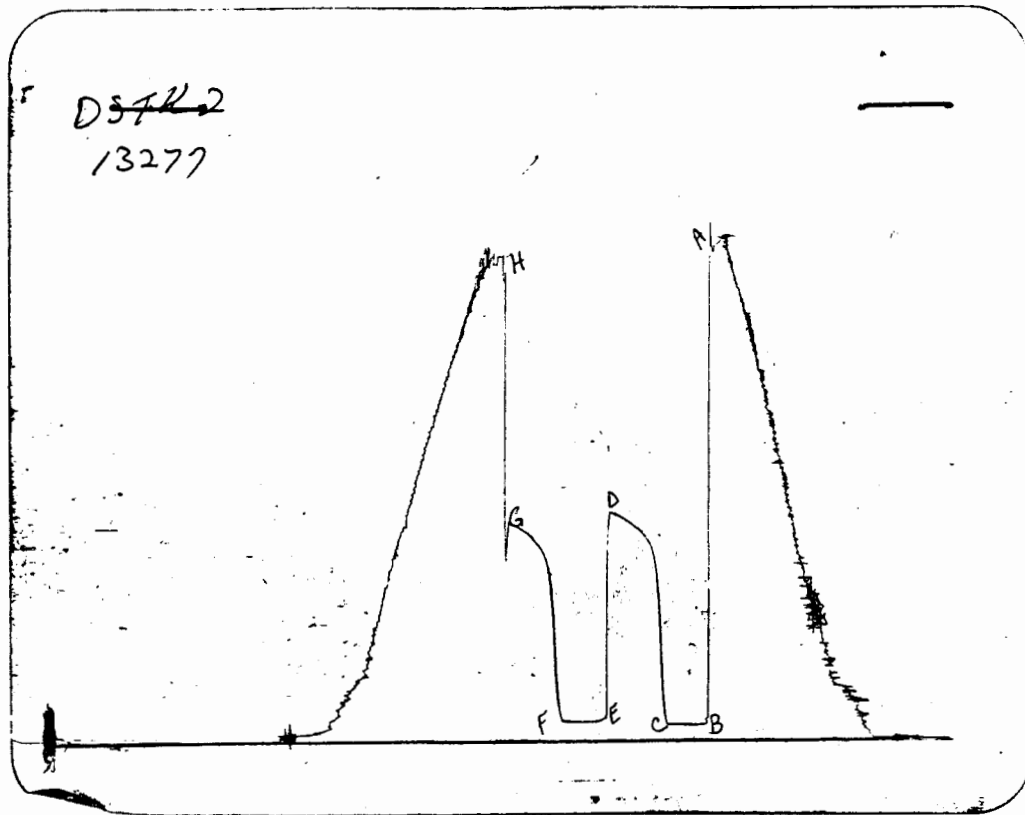
(F) Second Final Flow Pressure 61.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1203.8 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2598.4 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2657	2652.3
(B) FIRST INITIAL FLOW PRESSURE	45	39.5
(C) FIRST FINAL FLOW PRESSURE	45	47.4
(D) INITIAL CLOSED-IN PRESSURE	1246	1247.2
(E) SECOND INITIAL FLOW PRESSURE	56	56.3
(F) SECOND FINAL FLOW PRESSURE	67	61.9
(G) FINAL CLOSED-IN PRESSURE	1193	1203.8
(H) FINAL HYDROSTATIC MUD	2605	2598.4

INITIAL FLOW

RECORDER # 5495

DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
0	39.5	39.5
3	42.8	3.3
6	45.1	2.3
9	45.1	0
12	47.8	2.7
15	47.8	0
18	47.8	0
21	47.8	0
24	47.8	0
27	47.8	0
30	47.8	0

FINAL FLOW

RECORDER # 5495

DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
0	56.3	39.5
3	57.5	3.3
6	57.5	2.3
9	57.5	0
12	57.5	2.7
15	57.5	0
18	58.6	0
21	58.6	0
24	59.7	0
27	60.8	0
30	61.9	0

GOULD #2-30
INITIAL

DST #2
SHUTIN
30 TOTAL FLOW TIME

Slope 221189.64 psi/cycle
P * 1333 psi

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	196.4	1.041	196.4	11
	6	705.7	0.778	509.3	6
	9	977.7	0.637	272.0	4
	12	1072.8	0.544	95.1	4
	15	1119.3	0.477	46.5	3
	18	1153.1	0.426	33.8	3
	21	1171.1	0.385	18.0	2
	24	1190.1	0.352	19.0	2
	27	1207.1	0.325	17.0	2
X	30	1216.5	0.301	9.4	2
	33	1224.9	0.281	8.4	2
	36	1233.4	0.263	8.5	2
	39	1236.6	0.248	3.2	2
	42	1245.1	0.234	8.5	2
X	45	1247.1	0.222	2.0	2

GOULD #2-30
FINAL

DST #2
SHUTIN
60 TOTAL FLOW TIME

Slope 120.87 psi/cycle
P * 1248 psi

	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	1.322	137.8	21
	6	1.041	335.4	11
	9	0.885	371.3	8
	12	0.778	124.7	6
	15	0.699	62.4	5
	18	0.637	39.1	4
	21	0.586	32.7	4
	24	0.544	26.5	4
	27	0.508	21.2	3
	30	0.477	13.6	3
	33	0.450	12.7	3
	36	0.426	7.3	3
	39	0.405	8.5	3
X	42	0.385	8.5	2
X	45	0.368	2.1	2

FLUID SAMPLER DATA

Ticket No.:	5664	Date:	3/31/93
Company:	PETROLEUM INC		
Lease:	GOULD #2-30	Test No.:	2
County:	HAMILTON	Sec.:	30
		Twp.:	25S
		Rng.:	41W

SAMPLER RECOVERY

Gas	
Oil	
Mud	4000
Water	
Other	
Pressure	1050
TOTAL	4000

SAMPLER ANALYSIS

Resistivity	ohms@	F
Chlorides		ppm.
Gravity		corrected @60F

PIT MUD ANALYSIS

Chlorides	7000
Resistivity	ohms@ F
Viscosity	56
Mud Wt.	9
Filtrate	10.4
Other	

PIPE RECOVERY

TOP

Resistivity	ohms@	F
Chlorides		ppm

MIDDLE

Resistivity	ohms@	F
Chlorides		ppm

BOTTOM

Resistivity	ohms@	F
Chlorides		ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5664

Well Name & No. <u>Could #2-30</u>	Test No. <u>#2</u>	Date <u>3-31-93</u>
Company <u>Petroleum Inc.</u>	Zone Tested <u>Keys</u>	
Address <u>301 N. Main St. 900 Wichita Ks 67202</u>	Elevation <u>3598 (KB)</u>	
Co. Rep./Geo. <u>Tyler Sanders</u>	Cont. <u>Mudlin Drly #22</u>	Est. Ft. of Pay <u></u>
Location: Sec. <u>30</u>	Twp. <u>25</u>	Rge. <u>41 W</u> Co. <u>Hamilton</u> State <u>KS</u>
No. of Copies <u>9</u>	Distribution Sheet <u>Yes</u>	Turnkey <u>Yes</u> Evaluation <u>No</u>

Interval Tested <u>5414-5445</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>31'</u>	Top Choke — 1" Bottom Choke — 1/4"
Top Packer Depth <u>5409</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>5414</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>-</u>
Total Depth <u>5445</u>	Drill Collar — 2.25 Ft. Run <u>636'</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>56</u> Filtrate <u>10.4</u>
Tool Open @ <u>4:50 pm</u>	Initial Blow <u>1/2 blow through out.</u>

Final Blow NO blow

Recovery — Total Feet 65' Feet of Gas in Pipe Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>65'</u>	Feet Of <u>Drly mud</u>	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 126 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud <u>2657</u>	PSI	AK1 Recorder No. <u>13277</u>	Range <u>4125</u>
(B) First Initial Flow Pressure <u>45</u>	PSI	@ (depth) <u>5417</u>	w/Clock No. <u>25813</u>
(C) First Final Flow Pressure <u>45</u>	PSI	AK1 Recorder No. <u>5495</u>	Range <u>4200</u>
(D) Initial Shut-in Pressure <u>1246</u>	PSI	@ (depth) <u>5442</u>	w/Clock No. <u>27585</u>
(E) Second Initial Flow Pressure <u>56</u>	PSI	AK1 Recorder No. <u></u>	Range <u></u>
(F) Second Final Flow Pressure <u>67</u>	PSI	@ (depth) <u></u>	w/Clock No. <u></u>
(G) Final Shut-in Pressure <u>1193</u>	PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>700.00</u>
(H) Final Hydrostatic Mud <u>2605</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>X</u> <u>200.00</u>

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Final Flow 30 Safety Joint X 50.00
Final Shut-in 45 Straddle

Approved By Billy Doughty

Our Representative Tom Horacek

Circ. Sub
Sampler X 200.00

Extra Packer

Other (extra copies)

TOTAL PRICE \$ 1150.00