

15-195-22059

14-125-21w

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>BAUGHER B #3</u>	EXTRA	1 Date <u>9/29/90</u>
Company <u>BEREN CORPORATION</u>		Zone Tested <u>TOPEKA</u>
Address <u>970 4th FINANCIAL CNTR WICHITA KS 67202</u>		Elevation <u>2321 GL</u>
Co. Rep./Geo. <u>MR JIM HALL</u>	Cont. <u>MURFIN #24</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>14</u>	Twp. <u>12S</u>	Rge. <u>21W</u> Co. <u>TREGO</u> State <u>KANSAS</u>

Interval Tested <u>3370-3400</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>30</u>	Top Choke — 1" <u>Bottom Choke — ¾"</u>
Top Packer Depth <u>3365</u>	Hole Size — 7 ⁷ / ₈ " <u>Rubber Size — 6³/₄"</u>
Bottom Packer Depth <u>3370</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3400</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>8.6</u> lb/gal.	Viscosity <u>38</u> Filtrate <u>9.2</u>
Tool Open @ <u>9:00 PM</u> Initial Blow <u>VERY WEAK FOR 12 MINUTES</u>	

Final Blow VERY WEAK FOR 1 MINUTE

Recovery — Total Feet <u>10</u>	Flush Tool? <u>NO</u>
Rec. <u>10</u> Feet of <u>MUD</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
BHT <u>102</u> °F Gravity <u></u> °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API	
RW <u></u> @ <u></u> °F Chlorides <u></u> ppm Recovery Chlorides <u>5000</u> ppm System	
(A) Initial Hydrostatic Mud <u>1580.9</u> PSI Ak1 Recorder No. <u>13850</u> Range <u>4325</u>	
(B) First Initial Flow Pressure <u>11.2</u> PSI @ (depth) <u>3375</u> w/Clock No. <u>25813</u>	
(C) First Final Flow Pressure <u>11.2</u> PSI Ak1 Recorder No. <u>13851</u> Range <u>4425</u>	
(D) Initial Shut-In Pressure <u>1096.3</u> PSI @ (depth) <u>3400</u> w/Clock No. <u>31154</u>	
(E) Second Initial Flow Pressure <u>11.2</u> PSI Ak1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>11.2</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>1051.4</u> PSI Initial Opening <u>15</u>	
(H) Final Hydrostatic Mud <u>1578.1</u> PSI Initial Shut-In <u>30</u>	
	Final Flow <u>30</u>
	Final Shut-In <u>30</u>

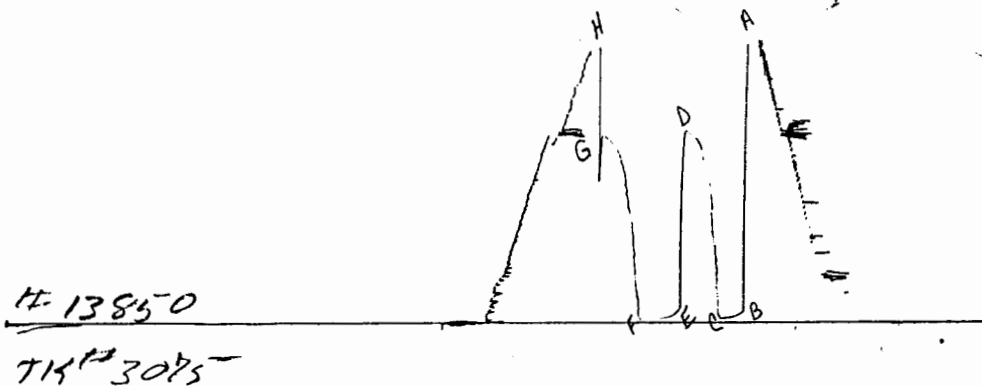
MR HARRY SCHMIDT

800

Our Representative _____

TOTAL PRICE \$ _____

DST# 1 RECORDER# 13850



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1575	1580.9 PSI
(B) First Initial Flow Pressure.....	10	11.2 PSI
(C) First Final Flow Pressure.....	10	11.2 PSI
(D) Initial Closed-In Pressure.....	1090	1096.3 PSI
(E) Second Initial Flow Pressure.....	10	11.2 PSI
(F) Second Final Flow Pressure.....	10	11.2 PSI
(G) Final Closed-In Pressure.....	1046	1051.4 PSI
(H) Final Hydrostatic Mud.....	1570	1578.1 PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 3075

Well Name & No. <u>BAUGHER R[#] 3</u>	Test No. <u>ONE</u>	Date <u>9-29-90</u>
Company <u>BEREN CORPORATION</u>	Zone Tested <u>TOROKA</u>	
Address <u>970 FOURTH FINANCIAL CENTER WICHITA</u>	Elevation <u>67202</u>	<u>2321 GL</u>
Co. Rep. / Geo. <u>JIM HALL</u>	Cont. <u>MURFIN #24</u>	Est. Ft. of Pay _____
Location: Sec. <u>14</u>	Twp. <u>12S</u>	Rge. <u>21W</u> Co. <u>BTRECO</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____

Interval Tested <u>3370 TO 3400</u>	Drill Pipe Size <u>4 1/2" X 14</u>
Anchor Length <u>30'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3365</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3370</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3400</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>8.6</u> lb/gal.	Viscosity <u>38</u> Filtrate <u>9.2</u>
Tool Open @ <u>9:00 P</u> Initial Blow <u>VERY WEAK FOR 12 MIN.</u>	

Final Blow VERY WEAK FOR 1 MIN.

Recovery — Total Feet 10 Flush Tool? NO

Rec. _____	Feet of _____
Rec. <u>10</u>	Feet of <u>MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 102° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1575 PSI AK1 Recorder No. 138510 Range 4325

(B) First Initial Flow Pressure 10-10 PSI @ (depth) 3375 w/Clock No. 25813

(C) First Final Flow Pressure 10 PSI AK1 Recorder No. 13851 Range 4425

(D) Initial Shut-In Pressure 1090 PSI @ (depth) 3400 w/Clock No. 31154

(E) Second Initial Flow Pressure 10 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 10 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1046 PSI Initial Opening 15 Test 550⁰⁰

(H) Final Hydrostatic Mud 1570 PSI Initial Shut-In 30 Jars 200⁰⁰

Final Flow 30 Safety Joint 50⁰⁰

Final Shut-In 30 Straddle _____

Approved By [Signature]

Our Representative [Signature]

Printcraft Printers • Hays, KS

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 800⁰⁰

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	BAUGHER B #3	Test No.	2	Date	9/30/90
Company	BEREN CORPORATION	Zone Tested	LANSING-KS CITY		
Address	970 4th FINANCIAL CNTR WICHITA KS 67202	Elevation	2321 GL		
Co. Rep./Geo.	MR JIM HALL	Cont.	MURFIN #24	Est. Ft. of Pay	0
Location: Sec.	14	Twp.	12S	Rge.	21W
Co.	TREGO	State	KANSAS		

Interval Tested	3640-3670	Drill Pipe Size	4.5" XH			
Anchor Length	30	Top Choke — 1"	Bottom Choke — 3/4"			
Top Packer Depth	3635	Hole Size — 77/8"	Rubber Size — 63/4"			
Bottom Packer Depth	3640	Wt. Pipe I.D. — 2.7 Ft. Run	0			
Total Depth	3670	Drill Collar — 2.25 Ft. Run	0			
Mud Wt.	8.9	lb/gal.	Viscosity	41	Filtrate	11.6
Tool Open @	11:10 PM	Initial Blow	WEAK TO FAIR 2" BLOW IN WATER			

Final Blow WEAK TO FAIR 2" IN WATER

Recovery — Total Feet	515	Flush Tool?	NO									
Rec.	515	Feet of	WATER									
Rec.	0	Feet of										
Rec.	0	Feet of										
Rec.	0	Feet of										
Rec.	0	Feet of										
BHT	110	°F	Gravity		°API @	0	°F	Corrected Gravity	0	°API		
RW	0.3	@	55	°F	Chlorides	30000	ppm	Recovery	Chlorides	7000	ppm	System
(A) Initial Hydrostatic Mud	1779.6	PSI	AK1 Recorder No.	13850	Range	4325						
(B) First Initial Flow Pressure	12.3	PSI	@ (depth)	3645	w/Clock No.	25813						
(C) First Final Flow Pressure	80.9	PSI	AK1 Recorder No.	13851	Range	4425						
(D) Initial Shut-In Pressure	896.2	PSI	@ (depth)	3670	w/Clock No.	31154						
(E) Second Initial Flow Pressure	112.5	PSI	AK1 Recorder No.	0	Range	0						
(F) Second Final Flow Pressure	260.3	PSI	@ (depth)	0	w/Clock No.	0						
(G) Final Shut-In Pressure	894.5	PSI	Initial Opening	15								
(H) Final Hydrostatic Mud	1774.2	PSI	Initial Shut-In	45								
			Final Flow	60								
			Final Shut-In	90								

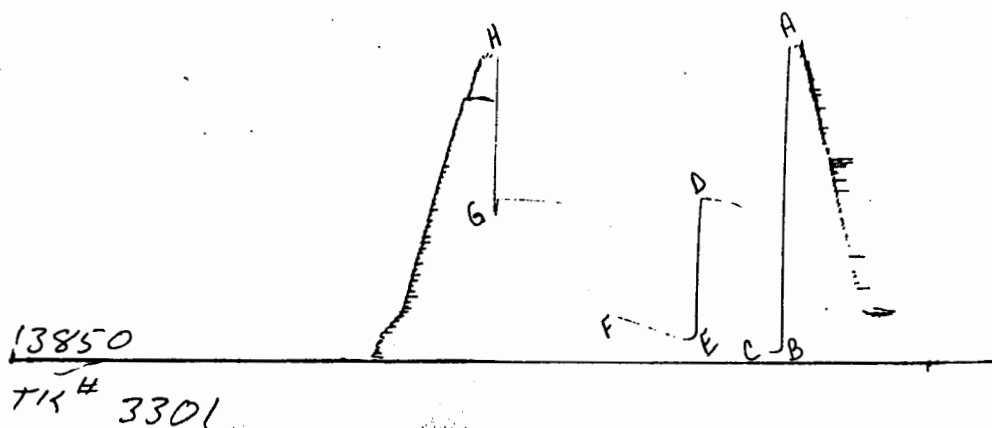
MR HARRY SCHMIDT

800

Our Representative _____

TOTAL PRICE \$ _____

DST# 2 RECORDER# 13850



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1774	1779.6	PSI
(B) First Initial Flow Pressure.....	11	12.3	PSI
(C) First Final Flow Pressure.....	77	80.9	PSI
(D) Initial Closed-in Pressure.....	893	896.2	PSI
(E) Second Initial Flow Pressure.....	111	112.5	PSI
(F) Second Final Flow Pressure.....	255	260.3	PSI
(G) Final Closed-In Pressure.....	893	894.5	PSI
(H) Final Hydrostatic Mud.....	1770	1774.2	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 3301

Well Name & No. <u>DAUGHER B¹² 3</u>	Test No. <u>TWO</u>	Date <u>9-30-90</u>
Company <u>BIEREN CORPORATION</u>	Zone Tested <u>LKC - C</u>	
Address <u>970 FOURTH FINANCIAL CENTER WYNITA 67202</u>	Elevation <u>2321 G-L</u>	
Co. Rep. / Geo. <u>JIM HALL</u>	Cont. <u>MURKIN 424</u>	Est. Ft. of Pay _____
Location: Sec. <u>111</u>	Twp. <u>12 S</u>	Rge. <u>21 W</u> Co. <u>TRECO</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____

Interval Tested 3640 TO 3670 Drill Pipe Size 4 1/2" x H
 Anchor Length 30 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3635 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3640 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3670 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 8.9 lb/gal. Viscosity 41 Filtrate 11.6
 Tool Open @ 11:10 P Initial Blow WEAK TO FAIR 2" IN WATER

Final Blow WEAK TO FAIR 2" IN WATER

Recovery — Total Feet 515' Flush Tool? NO

Rec. _____ Feet of _____
 Rec. 515' Feet of WATER
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.3 @ 55° °F Chlorides 30,000 ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 1774 PSI AK1 Recorder No. 13850 Range 4325

(B) First Initial Flow Pressure 11 PSI @ (depth) 3645 w/Clock No. 25813

(C) First Final Flow Pressure 77 PSI AK1 Recorder No. 13851 Range 4425

(D) Initial Shut-In Pressure 893 PSI @ (depth) 3670 w/Clock No. 31154

(E) Second Initial Flow Pressure 111 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 255 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 893 PSI Initial Opening 15 Test 550^{cr}

(H) Final Hydrostatic Mud 1770 PSI Initial Shut-In 45 Jars 200^{cr}

Final Flow 60 Safety Joint 50^{cr}

Final Shut-In 90 Straddle _____

Approved By JR Hall

Our Representative [Signature]

Printcraft Printers - Hays, KS

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 800⁰⁰

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	BAUGHER B #3	Test No.	3	Date	10/2/90
Company	BEREN CORPORATION	Zone Tested	MARMATON		
Address	970 4th FINANCIAL CNTR WICHITA KS 67202		Elevation	2321 GL	
Co. Rep./Geo.	MR JIM HALL	Cont.	MURFIN #24	Est. Ft. of Pay	5
Location: Sec.	14	Twp.	12S	Rge.	21W
		Co.	TREGO	State	KANSAS

Interval Tested	3932-3952	Drill Pipe Size	4.5" XH	
Anchor Length	20	Top Choke — 1"	Bottom Choke — 1/4"	
Top Packer Depth	3927	Hole Size — 77/8"	Rubber Size — 63/4"	
Bottom Packer Depth	3932	Wt. Pipe I.D. — 2.7 Ft. Run	0	
Total Depth	3952	Drill Collar — 2.25 Ft. Run	0	
Mud Wt.	9.2	Viscosity	41	
		Filtrate	9.6	
Tool Open @	5:20 AM	Initial Blow	GOOD - BOTTOM OF BUCKET IN 15 MINUTES	

Final Blow GOOD-BOTTOM OF BUCKET IN 20 MINUTES

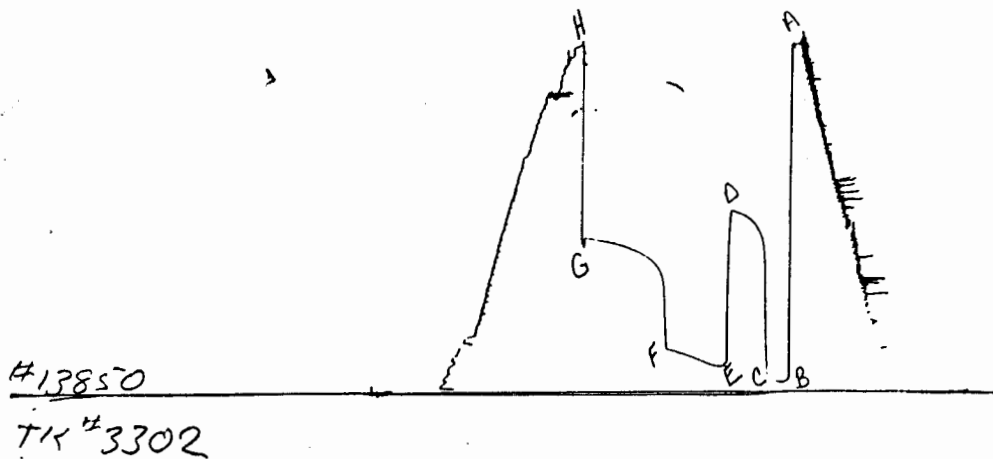
Recovery — Total Feet	630	Flush Tool?	NO
Rec. 350	Feet of	GAS IN PIPE	
Rec. 450	Feet of	CLEAN OIL	
Rec. 150	Feet of	SLIGHTLY MUD CUT OIL	
Rec. 30	Feet of	MUDDY WATER	
Rec. 0	Feet of		
BHT 120	°F Gravity	35	°API @ 70
		°F Corrected Gravity	34
RW	@	°F Chlorides	ppm Recovery
		1951.3	Chlorides 4000
(A) Initial Hydrostatic Mud	PSI	AK1 Recorder No.	13850
		Range	4325
(B) First Initial Flow Pressure	40	PSI @ (depth)	3937
		w/Clock No.	25813
(C) First Final Flow Pressure	93.3	PSI AK1 Recorder No.	13851
		Range	4425
(D) Initial Shut-In Pressure	1004.4	PSI @ (depth)	3952
		w/Clock No.	31154
(E) Second Initial Flow Pressure	137.7	PSI AK1 Recorder No.	0
		Range	0
(F) Second Final Flow Pressure	244.4	PSI @ (depth)	0
		w/Clock No.	0
(G) Final Shut-In Pressure	853.7	PSI Initial Opening	15
		Initial Shut-In	30
(H) Final Hydrostatic Mud	1946.9	PSI Final Flow	45
		Final Shut-In	60

MR HARRY SCHMIDT

Our Representative _____

TOTAL PRICE \$ 850.00

DST# 3 RECORDER# 13850



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1962	1951.3	PSI
(B) First Initial Flow Pressure.....	44	40	PSI
(C) First Final Flow Pressure.....	111	93.3	PSI
(D) Initial Closed-In Pressure.....	1002	1004.4	PSI
(E) Second Initial Flow Pressure.....	144	137.7	PSI
(F) Second Final Flow Pressure.....	255	244.4	PSI
(G) Final Closed-in Pressure.....	860	853.7	PSI
(H) Final Hydrostatic Mud.....	1962	1946.9	PSI

COMPUTER EVALUATION BY TRILOBITE TESTING
BEREN CORPORATION
REPORT FOR DST#3 FOR THE BAUGHER 'B' #3
14 12S 21W TREGO KS

TEST PARAMETERS

ELEVATION:	2321 KB	EST. PAY:	5 FT
DATUM:	-1632	ZONE TESTED:	MARMATON
TEST INTERVAL:	3932-3952		
		TIME INTERVALS:	15-30-45-60
RECORDER DEPTH:	3952	VISCOSITY:	6.566828 CP
BOTTOM HOLE TEMP:	120	HOLE SIZE:	7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 27.94379

TOTAL FEET OF RECOVERY: 630
BARRELS IN WEIGHT PIPE: .938
BARRELS IN DRILL COLLARS: 2.42544
GAS OIL RATIO: 8.308 CU.FT./BBL
BUBBLE POINT PRESSURE: ; .8421725
TOTAL BARRELS OF RECOVERY: 3.36344
UNCORR. INIT. PROD.: 80.72256 BBL/DAY

API GRAVITY: 34
FLUID GRADIENT: .37

CORRECTED PIPE FILLUP: 660.5405
CORR. BARRELS OF RECOVERY: 3.57344 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 85.76256 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
72.34596

INITIAL SLOPE 356.27 PSI/CYCLE
INITIAL P* 1067 PSI

FINAL SLOPE 258.77 PSI/CYCLE
FINAL P* 929 PSI

TRANSMISSIBILITY 53.88954 (MD.-FT./CP.)
PERMEABILITY 70.77666 (MD.)
INDICATED FLOW CAPACITY 353.8833 (MD.FT)
PRODUCTIVITY INDEX 6.089517E-02 (BARRELS/DAY/PSI)
DAMAGE RATIO .4841435
RADIUS OF INVESTIGATION 65.16594 (FT.)
POTENTIOMETRIC SURFACE 523.3511 (FT.)
DRAWDOWN FACTOR 12.93346 (Z)

CALCULATED RECOVERY ANALYSIS

DST # 3 TICKET # 3302

SAMPLE #	TOTAL FEET	GAS Z	FEET	OIL Z	FEET	WATER Z	FEET	MUD Z	FEET
DRILL 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
WEIGHT 1	134	10	13.4	90	120.6		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	316	10	31.6	90	284.4		0		0
COLLAR 2	150		0	85	127.5		0	15	22.5
3	30		0		0	60	18	40	12
4			0		0		0		0
TOTAL			45		532.5		18		34.5

HRS OPEN BBL/DAY

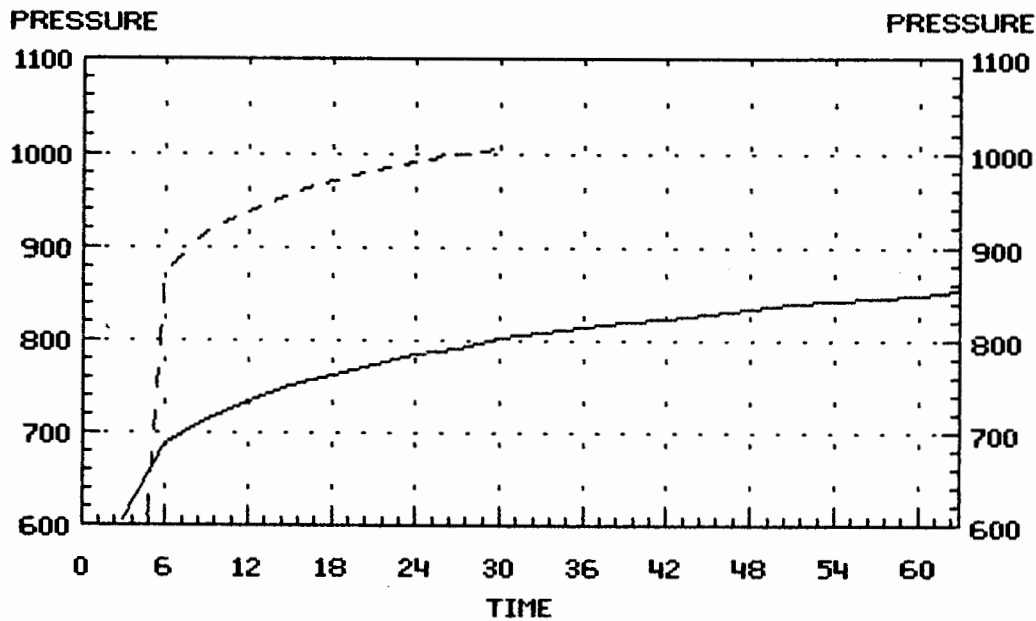
BBL OIL= 3.448125 * 1 82.755
 BBL WATER 0.08802 * 2.11248
 BBL MUD= 0.168705

DELTA T DELTA P

DST #3 INITIAL & FINAL SHUTIN
RECORDER # 13851

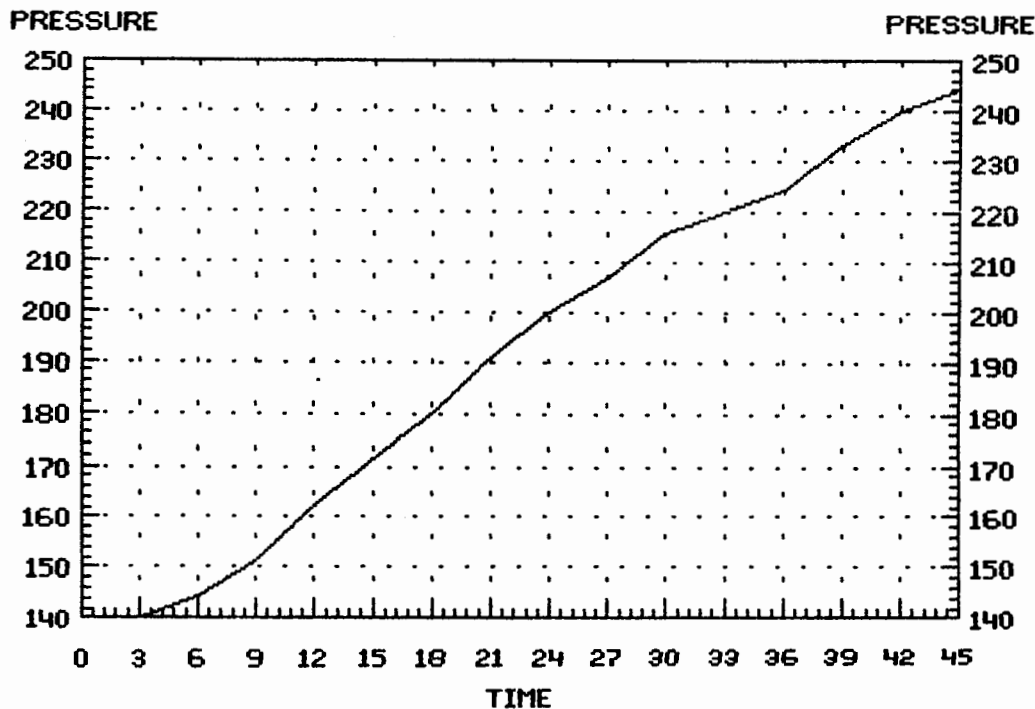
FINAL

INITIAL



DELTA T DELTA P

DST #3 FINAL FLOW
RECORDER # 13851



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 143.9002 BBL/DAY

INITIAL FLOW

REORDER # 13851
DST #3

DT (MIN)	PRESSURE	<> PRESSURE
0	40	40
3	46.6	6.599999
6	51.1	4.5
9	64.4	13.3
12	80	15.6
15	93.3	13.3

FINAL FLOW

REORDER # 13851
DST #3

DT (MIN)	PRESSURE	<> PRESSURE
0	137.7	137.7
3	140	2.300003
6	144.4	4.399994
9	151.1	6.700012
12	162.2	11.09999
15	171.1	8.900009
18	180	8.899994
21	191.1	11.10001
24	200	8.899994
27	206.6	6.600006
30	215.5	8.899994
33	220	4.5
36	224.4	4.399994
39	233.3	8.900009
42	240	6.699997
45	244.4	4.399994

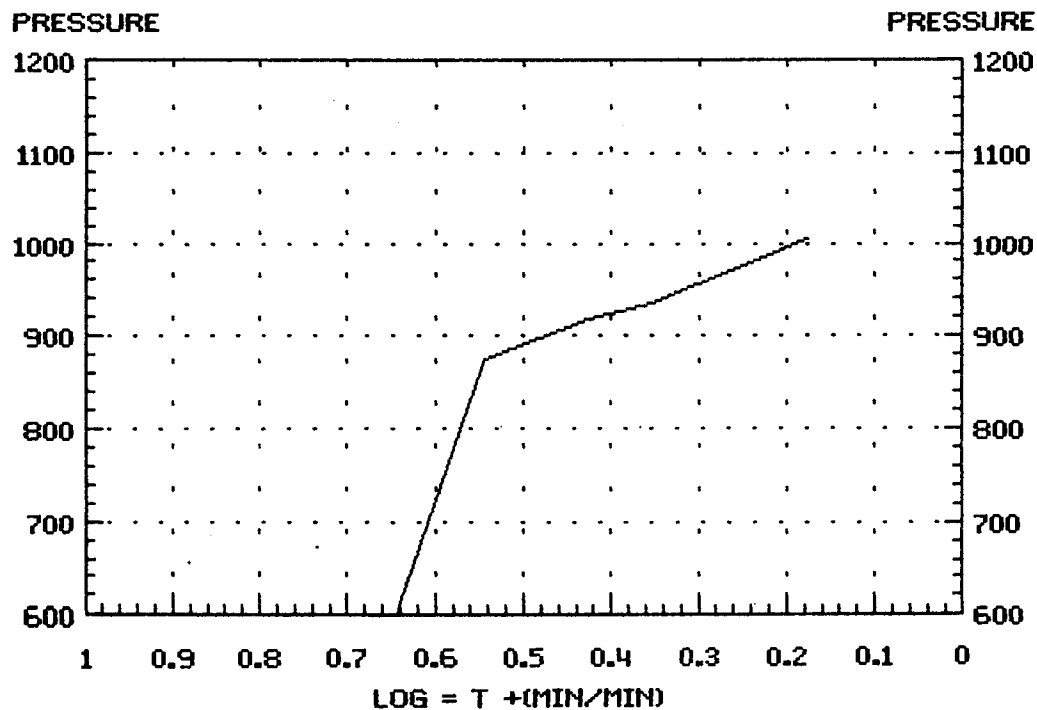
BAUGHFR B DST #3
 INITIAL SHUTIN
 15 INITIAL FLOW TIME

Slope -356.27 psi/cycle
 P * 1,067 psi

	TIME(MIN)	Pws (psi)	Horn T	Log Horn T	<> PRESSURE
	3	233.3	6	0.778	233.3
X	6	873.3	4	0.544	640.0
	9	917.0	3	0.426	43.7
	12	936.6	2	0.352	19.6
	15	956.3	2	0.301	19.7
	18	969.4	2	0.263	13.1
	21	980.3	2	0.234	10.9
	24	989.0	2	0.211	8.7
	27	997.8	2	0.192	8.8
X	30	1004.4	2	0.176	6.6

HORNER PLOT

DST #3 INITIAL SHUTIN
 RECORDER # 13851



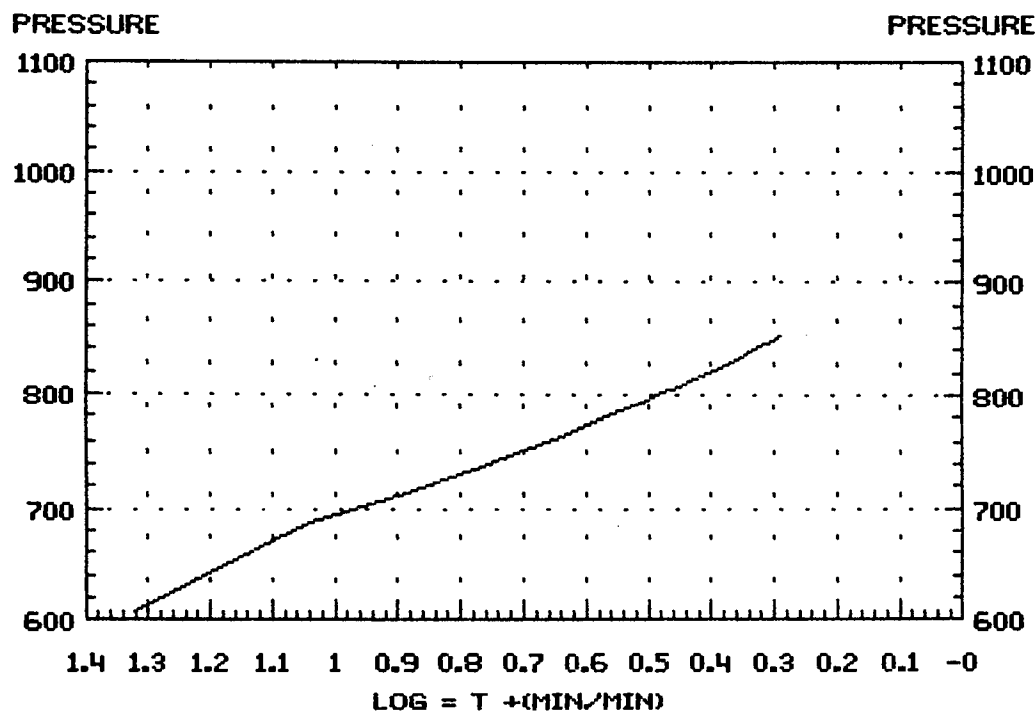
BAUGHER B DST #3
 FINAL SHUTIN
 60 TOTAL FLOW TIME

Slope -258.77 psi/cycle
 P * 929 psi

	TIME(MIN)	Pws (psi)	Horn T	Log Horn T	<> PRESSURE
	3	606.9	21	1.322	606.9
	6	687.7	11	1.041	60.8
	9	713.9	8	0.885	26.2
	12	735.8	6	0.778	21.9
	15	751.0	5	0.699	15.2
X	18	764.1	4	0.637	13.1
	21	775.1	4	0.586	11.0
	24	786.0	4	0.544	10.9
	27	792.5	3	0.508	6.5
	30	801.3	3	0.477	8.8
	33	807.8	3	0.450	6.5
	36	814.4	3	0.426	6.6
	39	818.7	3	0.405	4.3
	42	823.1	2	0.385	4.4
	45	829.6	2	0.368	6.5
	48	834.0	2	0.352	4.4
	51	838.4	2	0.338	4.4
	54	842.7	2	0.325	4.3
	57	844.9	2	0.312	2.2
	60	849.3	2	0.301	4.4
X	63	853.7	2	0.291	4.4

HORNER PLOT

DST #3 FINAL SHUTIN
 RECORDER # 13851



TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 3302

Well Name & No. BAUGHER B # 3 Test No. THREE Date 10-2-90
 Company BEREN CORP. Zone Tested MARMATON
 Address 970 FOURTH FINANCIAL CENTER WICHITA KS 67202 Elevation 2321 G.L.
 Co. Rep. / Geo. JIM HALL Cont. MURFIN # 24 Est. Ft. of Pay 5
 Location: Sec. 14 Twp. 12 S Rge. 21 W Co. YREGO State KS.
 No. of Copies REG Distribution Sheet Yes No Turnkey Yes No

Interval Tested 3932 TO 3952 Drill Pipe Size 4 1/2" X 1+
 Anchor Length 20 Top Choke — 1" Bottom Choke — 1/4"
 Top Packer Depth 3927 Hole Size — 77/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3932 Wt. Pipe I.D. — 2.7 Ft. Run 128
 Total Depth 3952 Drill Collar — 2.25 Ft. Run 496
 Mud Wt. 9.2 lb/gal. Viscosity 41 Filtrate 9.6
 Tool Open @ 8:20 A Initial Blow GOOD BOT. OF BUCKET IN 15 MIN.

Final Blow GOOD BOT. OF BUCKET IN 20 MIN.

Recovery — Total Feet 980 630 Flush Tool? NO
 Rec. 350 Feet of G.I.P.
 Rec. 450 Feet of CLEAN OIL - 734
 Rec. 150 Feet of SLIGHT MUD CUT OIL
 Rec. 30 Feet of MUDY WATER
 Rec. _____ Feet of _____

BHT 120 °F Gravity 35 °API @ 70 °F Corrected Gravity 34 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1962 PSI AK1 Recorder No. 13850 Range 4325-
 (B) First Initial Flow Pressure 44 PSI @ (depth) 3937 w/Clock No. 25813
 (C) First Final Flow Pressure 111 PSI AK1 Recorder No. 13851 Range 4425-
 (D) Initial Shut-In Pressure 1002 PSI @ (depth) 3952 w/Clock No. 31154
 (E) Second Initial Flow Pressure 144 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 255 (244) PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 860 PSI Initial Opening 15 Test 550 00
 (H) Final Hydrostatic Mud 1962 PSI Initial Shut-In 30 Jars 200 00
 Final Flow 45 Safety Joint 50 00
 Final Shut-In 60 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By JR Hall

Our Representative [Signature]

Printcraft Printers - Hays, KS

Extra Packer _____
 Other evaluation - 850 00
 TOTAL PRICE \$ 800 00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	RAUGHER B #3	Test No.	4	Date	10/3/90
Company	BEREN CORPORATION	Zone Tested	ARBUCKLE		
Address	970 4th FINANCIAL CNTR WICHITA KS 67202			2321 GL	
Co. Rep./Geo.	MR JIM HALL	Cont.	MURFIN RIG #24	Elevation	10
Location: Sec.	14	Twp.	12S	Rge.	21W
				Co.	TREGO
				State	KANSAS

Interval Tested	3952-4014	Drill Pipe Size	4.5" XH
Anchor Length	62	Top Choke — 1"	Bottom Choke — ¾"
Top Packer Depth	3947	Hole Size — 77/8"	Rubber Size — 63/4"
Bottom Packer Depth	3952	Wt. Pipe I.D. — 2.7 Ft. Run	127.64
Total Depth	4014	Drill Collar — 2.25 Ft. Run	496.17
Mud Wt.	9.1	lb/gal.	Viscosity 44 Filtrate 10.4
Tool Open @	1:34 AM	Initial Blow	VERY WEAK BLOW 1" IN BUCKET-BLED 2"
	FOR 5 MINUTES-NO BLOW BACK		
Final Blow	VERY WEAK SURFACE BLOW TO 1/4" THROUGHOUT-BLED 2" FOR 5 MINUTES-NO BLOW BACK		

Recovery — Total Feet	130	Flush Tool?	ND
Rec. 50	Feet of	CLEAN OIL	
Rec. 80	Feet of	MUD CUT OIL-50%OIL/50%MUD	
Rec. 0	Feet of		
Rec. 0	Feet of		
Rec. 0	Feet of		
BHT 126	°F Gravity 35	°API @ 70	°F Corrected Gravity 34 °API
RW	@	°F Chlorides	ppm Recovery Chlorides 4000 ppm System
(A) Initial Hydrostatic Mud	1940.2	PSI	Ak1 Recorder No. 13850 Range 4325
(B) First Initial Flow Pressure	26.6	PSI	@ (depth) 3954 w/Clock No. 25813
(C) First Final Flow Pressure	31.1	PSI	Ak1 Recorder No. 13851 Range 4425
(D) Initial Shut-In Pressure	1019.8	PSI	@ (depth) 4011 w/Clock No. 31154
(E) Second Initial Flow Pressure	38.8	PSI	Ak1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure	64.4	PSI	@ (depth) 0 w/Clock No. 0
(G) Final Shut-In Pressure	974.8	PSI	Initial Opening 15
(H) Final Hydrostatic Mud	1851.7	PSI	Initial Shut-In 45
			Final Flow 60
			Final Shut-In 90

MR ROGER SELLS

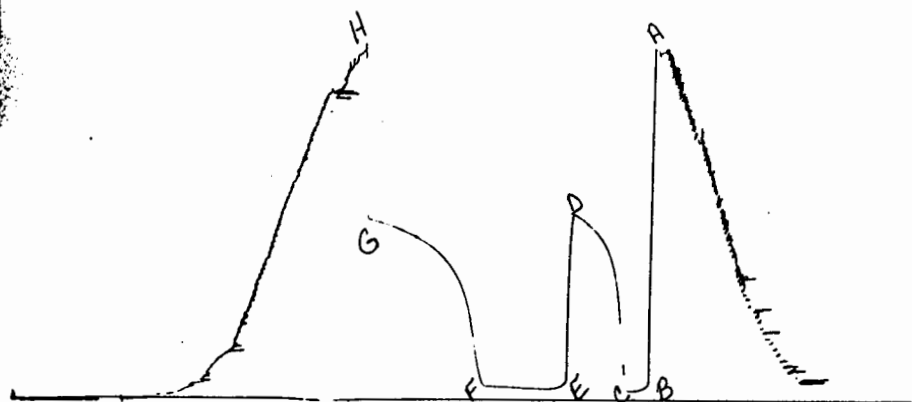
800

Our Representative _____

TOTAL PRICE \$ _____

DST# 4 RECORDER# 13850

~~13850~~
DST# 4



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1984	1940.2	PSI
(B) First Initial Flow Pressure.....	44	26.6	PSI
(C) First Final Flow Pressure.....	55	31.1	PSI
(D) Initial Closed-In Pressure.....	1013	1019.8	PSI
(E) Second Initial Flow Pressure.....	66	38.8	PSI
(F) Second Final Flow Pressure.....	88	64.4	PSI
(G) Final Closed-In Pressure.....	991	974.8	PSI
(H) Final Hydrostatic Mud.....	1929	1851.7	PSI

CALCULATED RECOVERY ANALYSIS

DST # 4 TICKET # 3303

SAMPLE #	TOTAL FEET	GAS Z	FEET	OIL Z	FEET	WATER Z	FEET	MUD Z	FEET
DRILL 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	50	0	0	100	50	0	0	0	0
COLLAR 2	80	0	0	50	40	0	0	50	40
3			0		0		0		0
4			0		0		0		0
TOTAL			0		90		0		40

HRS OPEN BBL/DAY

BRL OIL= 0.4401 * 0.75 14.0832
 BRL WATER 0 * 0
 BRL MUD= 0.1956

INITIAL FLOW

RECORDER # 13851

DST #4

DT (MIN)	PRESSURE	<> PRESSURE
0	26.6	26.6
3	28.8	2.199999
6	28.8	0
9	28.8	0
12	30	1.200001
15	31.1	1.1

FINAL FLOW

RECORDER # 13851

DST #4

DT (MIN)	PRESSURE	<> PRESSURE
0	38.8	38.8
3	42.2	3.400002
6	43.3	1.099999
9	44.4	1.100002
12	45.5	1.099999
15	46.6	1.099999
18	47.7	1.100002
21	48.8	1.099999
24	51.1	2.299999
27	52.2	1.100002
30	54.4	2.200001
33	55.5	1.099999
36	56.6	1.099999
39	58.8	2.200001
42	60	1.200001
45	61.1	1.099999
48	62.2	1.100002
51	63.3	1.099999
54	63.3	0
57	63.3	0
60	64.4	1.100002

INITIAL SHUT-IN BUILDUP
DST #4

RECORDER # 13851
INITIAL FLOW TIME (MIN.): 15

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	31.1	31.1
3	.778011	320	288.9
6	.5439701	614.6	294.6
9	.425892	727	112.4
12	.352119	806.7	79.70001
15	.3009757	851.5	44.79999
18	.263194	882.1	30.59998
21	.234041	914.8	32.70001
24	.2108154	935.5	20.70001
27	.191851	954.1	18.59998
30	.1760595	971.6	17.5
33	.162698	986.9	15.30005
36	.1512404	998.9	12
39	.1413037	1009.9	11
42	.1326017	1019.8	9.899963

FINAL SHUT-IN BUILDUP
DST #4

RECORDER # 13851
TOTAL FLOW TIME (MIN.): 75

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	64.4	64.4
6	1.13013	137.7	73.3
12	.8601831	382.2	244.5
18	.7130819	582.9	200.7
24	.6153131	676.8	93.89996
30	.5439701	735.8	59
36	.4889323	784.9	49.10004
42	.4448565	822	37.09998
48	.4085902	851.5	29.5
54	.3781278	877.7	26.20001
60	.352119	899.5	21.79999
66	.3296158	919.5	20
72	.309929	934.5	15
78	.2925441	947.6	13.09998
84	.2770679	962.8	15.20001
90	.263194	974.8	12

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 3303

Well Name & No. <u>Bausher B #3</u>	Test No. <u>4</u>	Date <u>10-3-90</u>
Company <u>Beren Corp.</u>	Zone Tested <u>Arbuckle</u>	
Address <u>970 4th Financial Cnt. Wichita, KS</u>	Elevation <u>2321 G.L.</u>	
Co. Rep. / Geo. <u>Jim Hall</u>	Cont. <u>Murfin Rig #24</u>	Est. Ft. of Pay <u>10</u>
Location: Sec. <u>14</u>	Twp. <u>12 S</u>	Rge. <u>21 W</u> Co. <u>Trego</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet <u>Yes</u> ☒ <u>No</u> ☒	Turnkey <u>Yes</u> ☒ <u>No</u> ☒

Interval Tested <u>3952 - 4014</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>62'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3947</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3952</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>127.64</u>
Total Depth _____	Drill Collar — 2.25 Ft. Run <u>496.17</u>
Mud Wt. <u>9.1</u> lb / gal.	Viscosity <u>44</u> Filtrate <u>10.4</u>

Tool Open @ 1:34 AM Initial Blow very weak blow 1" in bucket - Rld 2" 5 min.
No blow back

Final Blow very weak surface blow to 1/4" then out. Rld 2" 5 min.
No blow back

Recovery — Total Feet 130' Flush Tool? _____

Rec. <u>50</u> Feet of <u>Clean Oil</u>
Rec. <u>80</u> Feet of <u>Mud Cut Oil ~ 50% Oil, 50% Mud</u>
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 124 °F Gravity 35 °API @ 20 °F Corrected Gravity 34 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud <u>1984</u>	PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(B) First Initial Flow Pressure <u>44</u>	PSI	@ (depth) <u>3954</u>	w/Clock No. <u>25813</u>
(C) First Final Flow Pressure <u>55</u>	PSI	AK1 Recorder No. <u>13851</u>	Range <u>4425</u>
(D) Initial Shut-In Pressure <u>1013</u>	PSI	@ (depth) <u>4011</u>	w/Clock No. <u>31154</u>
(E) Second Initial Flow Pressure <u>66</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>88</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>991</u>	PSI	Initial Opening <u>15</u>	<u>550 °C</u>
(H) Final Hydrostatic Mud <u>1929</u>	PSI	Initial Shut-In <u>45</u>	Jars <u>200 °C</u>
		Final Flow <u>60</u>	Safety Joint <u>50 °C</u>
		Final Shut-In <u>90</u>	Straddle _____

Approved By Jim Hall

Our Representative Roger T. Sells

Printcraft Printers - Hays, KS

Circ. Sub ☒ N/C.

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 800.00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	BAUGHER B #3	Test No.	5	Date	10/3/90
Company	BEREN CORPORATION	Zone Tested	ARBUCKLE		
Address	970 4th FINANCIAL CNTR WICHITA KS 67202	Elevation	2321 GL		
Co. Rep./Geo.	MR JIM HALL	Cont.	MURFIN RIG #24	Est. Ft. of Pay	12
Location: Sec.	14	Twp.	12S	Rge.	21W
Co.	TREGO	State	KANSAS		

Interval Tested	4014-4039	Drill Pipe Size	4.5" XH			
Anchor Length	25	Top Choke — 1"	Bottom Choke — 1/4"			
Top Packer Depth	4009	Hole Size — 77/8"	Rubber Size — 63/4"			
Bottom Packer Depth	4014	Wt. Pipe I.D. — 2.7 Ft. Run	128			
Total Depth	4039	Drill Collar — 2.25 Ft. Run	496			
Mud Wt.	9.4	lb/gal.	Viscosity	53	Filtrate	10.8
Tool Open @	7:09	Initial Blow	WEAK BLOW 3" IN BUCKET-BLED 2" FOR 5 MINUTES-NO BLOW BACK			

Final Blow WEAK BLOW ON OPENING TO 4" - BLED 2" FOR 5 MINUTES-NO BLOW BACK

Recovery — Total Feet	300	Flush Tool?	NO							
Rec.	150	Feet of	CLEAN OIL							
Rec.	90	Feet of	MUD CUT OIL-52%OIL/ 48%MUD							
Rec.	60	Feet of	OIL CUT MUD-15%OIL/ 85%MUD							
Rec.	0	Feet of								
Rec.	0	Feet of								
BHT	123	°F	Gravity	35	°API @	70	°F	Corrected Gravity	34	°API

RW	@	°F	Chlorides	ppm	Recovery	Chlorides	5000	ppm	System
(A) Initial Hydrostatic Mud		1957.9	PSI	AK1 Recorder No.	13851	Range	4325		
(B) First Initial Flow Pressure		41.1	PSI	@ (depth)	4016	w/Clock No.	25813		
(C) First Final Flow Pressure		57.7	PSI	AK1 Recorder No.	13850	Range	4425		
(D) Initial Shut-In Pressure		1103.5	PSI	@ (depth)	4036	w/Clock No.	31154		
(E) Second Initial Flow Pressure		76.6	PSI	AK1 Recorder No.	0	Range	0		
(F) Second Final Flow Pressure		124.4	PSI	@ (depth)	0	w/Clock No.	0		
(G) Final Shut-In Pressure		1035.2	PSI	Initial Opening	15				
(H) Final Hydrostatic Mud		1925.8	PSI	Initial Shut-In	45				
				Final Flow	60				
				Final Shut-In	90				

MR ROGER SELLS

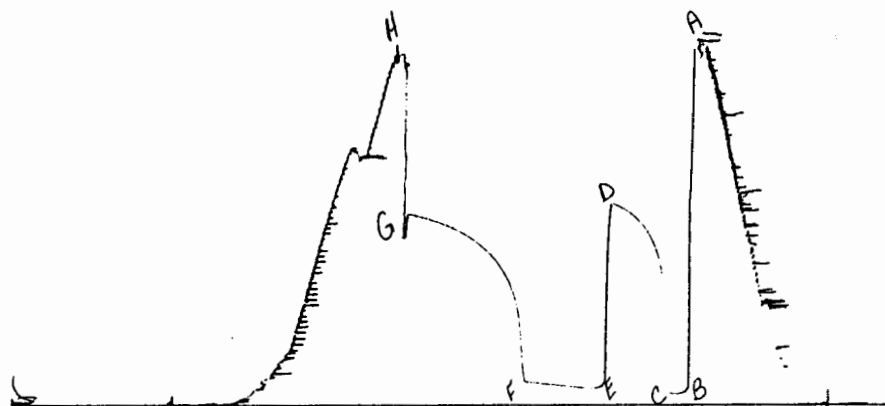
800

Our Representative _____

TOTAL PRICE \$ _____

DST# 5 RECORDER# 13850

DST# 5
13850



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1973	1957.9	PSI
(B) First Initial Flow Pressure.....	55	41.1	PSI
(C) First Final Flow Pressure.....	66	57.7	PSI
(D) Initial Closed-In Pressure.....	1112	1103.5	PSI
(E) Second Initial Flow Pressure.....	100	76.6	PSI
(F) Second Final Flow Pressure.....	133	124.4	PSI
(G) Final Closed-In Pressure.....	1068	1035.2	PSI
(H) Final Hydrostatic Mud.....	1940	1925.8	PSI

CALCULATED RECOVERY ANALYSIS

OST # 5 TICKET # 3304

SAMPLE #	TOTAL FEET	GAS	OIL	WATER	MUD
		FEET	FEET	FEET	FEET
DRILL 1		0	0	0	0
PIPE 2		0	0	0	0
3		0	0	0	0
4		0	0	0	0
5		0	0	0	0
WEIGHT 1		0	0	0	0
PIPE 2		0	0	0	0
3		0	0	0	0
4		0	0	0	0
DRILL 1	150	0	100	150	0
COLLAR 2	90	0	52	46.8	48
3	60	0	15	9	85
4		0	0	0	0
TOTAL		0	205.8	0	94.2

HRS OPEN BBL/DAY

BBL OIL= 1.006362 * 0.75 32.2035

BBL WATER 0 *

BBL MUD= 0.460638

INITIAL FLOW

REORDER # 13851
DST #5

DT(MIN)	PRESSURE	<>	PRESSURE
0	41.1	*	41.1
3	42.2		1.100002
6	45.5		3.299999
9	48.8		3.299999
12	53.3		4.5
15	57.7		4.400002

FINAL FLOW

REORDER # 13851
DST #5

DT(MIN)	PRESSURE	<>	PRESSURE
0	76.6		76.6
3	76.6		0
6	77.7		1.099999
9	78.8		1.100006
12	80		1.199997
15	82.2		2.199997
18	84.4		2.200005
21	88.8		4.400002
24	92.2		3.399994
27	94.4		2.200005
30	97.7		3.299996
33	100		2.300003
36	102.2		2.199997
39	104.4		2.200005
42	107.7		3.299996
45	110		2.300003
48	112.2		2.199997
51	114.4		2.200005
54	116.6		2.199997
57	117.7		1.099999
60	120		2.300003
63	124.4		4.400002

INITIAL SHUT-IN BUILDUP
DST #5

RECORDER # 13851
INITIAL FLOW TIME (MIN.): 15

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	57.7	57.7
3	.778011	703	645.3
6	.5439701	808.9	105.9
9	.425892	876.6	67.69995
12	.352119	915.9	39.30005
15	.3009757	948.6	32.69995
18	.263194	975.9	27.30005
21	.234041	996.7	20.79999
24	.2108154	1016.5	19.79999
27	.191851	1036.3	19.80005
30	.1760595	1052.8	16.5
33	.162698	1064.9	12.09998
36	.1512404	1077	12.09998
39	.1413037	1087	10
42	.1326017	1094.7	7.699951
45	.1249162	1103.5	8.800049

FINAL SHUT-IN BUILDUP
DST #5

RECORDER # 13851
TOTAL FLOW TIME (MIN.): 75

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	124.4	124.4
6	1.13013	531.6	407.2
12	.8601831	660.4	128.8001
18	.7130819	742.3	81.89996
24	.6153131	796.9	54.60004
30	.5439701	839.5	42.59998
36	.4889323	873.3	33.79999
42	.4448565	903.9	30.60004
48	.4085902	927.9	24
54	.3781278	949.7	21.79999
60	.352119	969.4	19.70001
66	.3296158	984.7	15.29999
72	.309929	1002.2	17.5
78	.2925441	1016.5	14.29999
84	.2770679	1027.5	11
90	.263194	1035.2	7.699951

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 3304

Well Name & No. <u>Baughner B #3</u>	Test No. <u>5</u>	Date <u>10-3-90</u>
Company <u>Beren Corp.</u>	Zone Tested <u>Arbuckle</u>	
Address <u>970 4th Financial Cnt. Wichita, KS</u>	Elevation <u>2321 M.L.</u>	
Co. Rep. / Geo. <u>Jim Hall</u>	Cont. <u>Martin Rig #24</u>	Est. Ft. of Pay <u>12'</u>
Location: Sec. <u>14</u> Twp. <u>12S</u> Rge. <u>21W</u>	Co. <u>Trego</u>	State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet <u>Yes</u> ☒ <u>No</u> ☐	Turnkey <u>Yes</u> ☒ <u>No</u> ☐

Interval Tested <u>4014 - 4039</u>	Drill Pipe Size <u>4 1/2 x H</u>
Anchor Length <u>25'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4009</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4014</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>128'</u>
Total Depth <u>4039</u>	Drill Collar — 2.25 Ft. Run <u>496'</u>
Mud Wt. <u>9.4</u> lb / gal.	Viscosity <u>53</u> Filtrate <u>10.8</u>
Tool Open @ <u>7:09</u> Initial Blow <u>Weak blow 3" in bucket. Bled 2" 5 min.</u>	
<u>no blow back.</u>	
Final Blow <u>Weak blow on opening to 4". Bled 2" 5 min. No blow back.</u>	

Recovery — Total Feet <u>300'</u>	Flush Tool? _____
Rec. <u>150</u> Feet of <u>Clean Oil</u>	
Rec. <u>90</u> Feet of <u>Mud Cut Oil</u>	<u>52% Oil - 48% Mud</u>
Rec. <u>60</u> Feet of <u>Oil Cut Mud</u>	<u>15% Oil - 85% MD</u>
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
BHT <u>123</u> °F Gravity <u>35</u> °API @ <u>70</u> °F Corrected Gravity <u>34</u> °API	
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>5,000</u> ppm System	
(A) Initial Hydrostatic Mud <u>1973</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4325</u>	
(B) First Initial Flow Pressure <u>55</u> PSI @ (depth) <u>4016</u> w/Clock No. <u>25813</u>	
(C) First Final Flow Pressure <u>66</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4425</u>	
(D) Initial Shut-In Pressure <u>1112</u> PSI @ (depth) <u>4036</u> w/Clock No. <u>31154</u>	
(E) Second Initial Flow Pressure <u>100</u> PSI AK1 Recorder No. _____ Range _____	
(F) Second Final Flow Pressure <u>133</u> PSI @ (depth) _____ w/Clock No. _____	
(G) Final Shut-In Pressure <u>1068</u> PSI Initial Opening <u>15</u> Test <u>550⁰⁰</u>	
(H) Final Hydrostatic Mud <u>1940</u> PSI Initial Shut-In <u>45</u> Jars <u>200⁰⁰</u>	
Final Flow <u>60</u> Safety Joint <u>50⁰⁰</u>	
Final Shut-In <u>90</u> Straddle _____	

Approved By Jim Hall

Our Representative Roger A. Sells

Printcraft Printers - Hays, KS

Circ. Sub N/C

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 800⁰⁰

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>BAUGHER B #3</u>	Test No. <u>6</u>	Date <u>10/4/90</u>
Company <u>BEREN CORPORATION</u>	Zone Tested <u>ARBUCKLE</u>	
Address <u>970 4th FINANCIAL CNTR WICHITA KS 67202</u>	Elevation <u>2321 GL</u>	
Co. Rep./Geo. <u>MR JIM HALL</u>	Cont. <u>MURFIN RIG #24</u>	Est. Ft. of Pay <u>20</u>
Location: Sec. <u>14</u>	Twp. <u>12S</u>	Rge. <u>21W</u> Co. <u>TREGO</u> State <u>KANSAS</u>

Interval Tested <u>4039-4080</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>41</u>	Top Choke — 1" Bottom Choke — $\frac{3}{4}$ "
Top Packer Depth <u>4034</u>	Hole Size — $7\frac{7}{8}$ " Rubber Size — $6\frac{3}{4}$ "
Bottom Packer Depth <u>4039</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>128</u>
Total Depth <u>4080</u>	Drill Collar — 2.25 Ft. Run <u>496</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>10.4</u>
Tool Open @ <u>2:10 PM</u> Initial Blow <u>STRONG BLOW TO BOTTOM OF BUCKET IN 1</u> <u>MINUTE-BLED 2" -NO BLOW BACK</u>	
Final Blow <u>OFF BOTTOM OF BUCKET IN 1 MINUTE-BLED 2" -</u> <u>NO BLOW BACK</u>	

Recovery — Total Feet <u>2490</u>	Flush Tool? <u>NO</u>
Rec. <u>60</u> Feet of <u>MUDDY WATER-10% WATER/ 90% MUD</u>	
Rec. <u>1030</u> Feet of <u>MUDDY WATER-66% WATER/34% MUD</u>	
Rec. <u>1280</u> Feet of <u>MUDDY WATER-90% WATER/ 10% MUD</u>	
Rec. <u>120</u> Feet of <u>CLEAN SALT WATER</u>	
Rec. <u>0</u> Feet of _____	
BHT <u>144</u> °F Gravity _____ °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API	
RW <u>.26</u> @ <u>97</u> °F Chlorides <u>18500</u> ppm Recovery Chlorides <u>4000</u> ppm System	
(A) Initial Hydrostatic Mud <u>1988.7</u> PSI Ak1 Recorder No. <u>13851</u> Range <u>4325</u>	
(B) First Initial Flow Pressure <u>291.4</u> PSI @ (depth) <u>4041</u> w/Clock No. <u>25813</u>	
(C) First Final Flow Pressure <u>770.9</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4425</u>	
(D) Initial Shut-In Pressure <u>1270.8</u> PSI @ (depth) <u>4077</u> w/Clock No. <u>31154</u>	
(E) Second Initial Flow Pressure <u>841.5</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>1162.3</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>1251.2</u> PSI Initial Opening <u>15</u>	
(H) Final Hydrostatic Mud <u>1966.3</u> PSI Initial Shut-In <u>30</u>	
	Final Flow <u>30</u>
	Final Shut-In <u>60</u>

MR ROGER SELLS

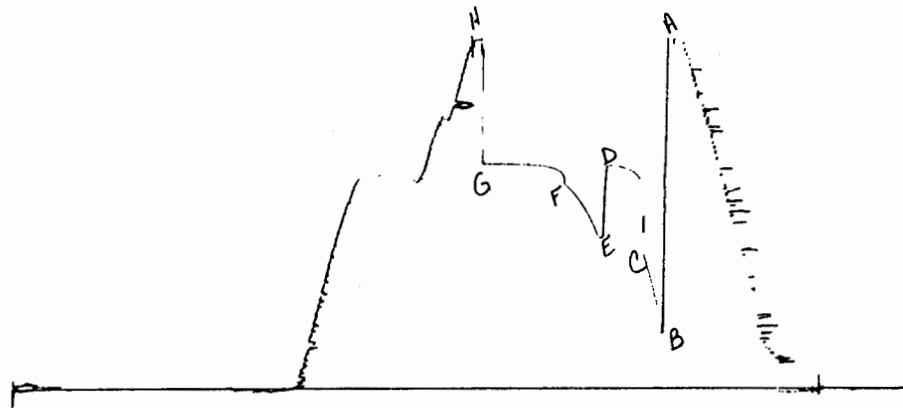
835

Our Representative _____

TOTAL PRICE \$ _____

DST# 6 RECORDER# 13850

DST# 6
13850



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1984	1988.7	PSI
(B) First Initial Flow Pressure.....	277	291.4	PSI
(C) First Final Flow Pressure.....	772	770.9	PSI
(D) Initial Closed-in Pressure.....	1266	1270.8	PSI
(E) Second Initial Flow Pressure.....	838	841.5	PSI
(F) Second Final Flow Pressure.....	1156	1162.3	PSI
(G) Final Closed-in Pressure.....	1244	1251.2	PSI
(H) Final Hydrostatic Mud.....	1962	1966.3	PSI

CALCULATED RECOVERY ANALYSIS

DST # 6 TICKET # 3305

SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL 1	60	0	0	0	0	10	6	90	54
PIPE 2	1030	0	0	0	0	66	679.8	34	350.2
3	776	0	0	0	0	90	698.4	10	77.6
4			0		0		0		0
5			0		0		0		0
WEIGHT 1	128	0	0	0	0	90	115.2	10	12.8
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	376	0	0	0	0	90	338.4	10	37.6
COLLAR 2	120	0	0	0	0	100	120	0	0
3			0		0		0		0
4			0		0		0		0
TOTAL			0		0		1957.8		532.2

HRS OPEN 88L/DAY

BBL OIL = 0 * 0.75 0
 88L WATER 30.06336 * 962.027
 BBL MUD = 9.543254

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 3305

Well Name & No. <u>Baughner B#3</u>	Test No. <u>6</u>	Date <u>10-4-90</u>
Company <u>Beren Corp.</u>	Zone Tested <u>Arbuckle</u>	
Address <u>970 4th Financial Bldg. Wichita, KS</u>	Elevation <u>2321 AL</u>	
Co. Rep. / Geo. <u>Jim Hall</u>	Cont. <u>Martin Rig #24</u>	Est. Ft. of Pay <u>20'</u>
Location: Sec. <u>14</u> Twp. <u>12S</u> Rge. <u>21W</u> Co. <u>Trego</u> State <u>KS</u>		
No. of Copies <u>5</u> Distribution Sheet <u>Yes</u> ☒ No ☐ Turnkey <u>Yes</u> ☒ No ☐		

Interval Tested <u>4039-4080</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>41'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>4034</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>4039</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>128'</u>
Total Depth <u>4080</u>	Drill Collar — 2.25 Ft. Run <u>496'</u>
Mud Wt. <u>9.2</u> lb / gal.	Viscosity <u>46</u> Filtrate <u>10.4</u>

Tool Open @ 2:10 PM Initial Blow Strong blow bottom bucket in 1 min.
Bled 2" - No blow back
 Final Blow off bottom of bucket in 1 min. - Bled 2". No blow back.

Recovery — Total Feet <u>2490</u>	Flush Tool? <u> </u>
Rec. <u>60</u> Feet of <u>Muddy Water</u>	<u>10% Water - 90% Mud</u>
Rec. <u>1030</u> Feet of <u>Muddy Water</u>	<u>66% Water - 34% Mud</u>
Rec. <u>1280</u> Feet of <u>Muddy Water</u>	<u>90% Water 10% "</u>
Rec. <u>120</u> Feet of <u>Clean Salt Water</u>	

BHT <u>144</u> °F Gravity <u> </u> °API @ <u> </u> °F Corrected Gravity <u> </u> °API
RW <u>0.26</u> @ <u>97</u> °F Chlorides <u>18,500</u> ppm Recovery Chlorides <u>4,000</u> ppm System

(A) Initial Hydrostatic Mud <u>1984</u> PSI	AK1 Recorder No. <u>13851</u>	Range <u>4325</u>
(B) First Initial Flow Pressure <u>277</u> PSI	@ (depth) <u>4041</u>	w/Clock No. <u>25813</u>
(C) First Final Flow Pressure <u>772</u> PSI	AK1 Recorder No. <u>13850</u>	Range <u>4425</u>
(D) Initial Shut-In Pressure <u>1266</u> PSI	@ (depth) <u>4077</u>	w/Clock No. <u>31154</u>
(E) Second Initial Flow Pressure <u>838</u> PSI	AK1 Recorder No. <u> </u>	Range <u> </u>
(F) Second Final Flow Pressure <u>1156</u> PSI	@ (depth) <u> </u>	w/Clock No. <u> </u>
(G) Final Shut-In Pressure <u>1244</u> PSI	Initial Opening <u>15</u>	Test <u>550⁰⁰</u>
(H) Final Hydrostatic Mud <u>1962</u> PSI	Initial Shut-In <u>30</u>	Jars <u>200⁰⁰</u>
	Final Flow <u>30</u>	Safety Joint <u>50⁰⁰</u>
	Final Shut-In <u>60</u>	Straddle <u> </u>

Approved By [Signature]

Our Representative Roger F. Selb

Printcraft Printers - Hays, KS

Circ. Sub X 35⁰⁰
 Sampler
 Extra Packer
 Other
 TOTAL PRICE \$ 835⁰⁰