

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 175-21257-00-00

NOV 4

County Seward

C NW NW SW Sec. **CONFIDENTIAL** Rge. 32 E W

Operator: License # 30444

Name: Charter Production Company

Address 224 E. Douglas
Suite 400

City/State/Zip Wichita, KS 67202

Purchaser:

Operator Contact Person: Jerald W. Rains

Phone (316) 264-2808

Contractor: Name: Zenith Drilling Corporation

License: 5141

Wellsite Geologist: Ernie Morrison

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

7/10/92 7/24/92 8/5/92
Spud Date Date Reached TD Completion Date

2310 Feet from SYM (circle one) Line of Section

4950 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Pittman Well # 1

Field Name Wildcat

Producing Formation

Elevation: Ground 2767 KB 2778

Total Depth 6480' PBTD

Amount of Surface Pipe Set and Cemented at 1529 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 cat.

Drilling Fluid Management Plan ALT 1 12-4-92 (Data must be collected from the Reserve Pit)

Chloride content 2100 ppm Fluid volume 8067 bbls

Dewatering method used Evaporation & Deflocculation

Location of fluid disposal if hauled offsite:

RELEASED

Operator Name

Lease Name

DEC 2 2 1994

Quarter Sec. Twp. S Rng. E/W

County **FROM CONFIDENTIAL** Docket No.

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Jerry W. Rains

Title Operations Manager Date 9/18/92

Subscribed and sworn to before me this 4th day of November 1992

Notary Public Nancy Kandt

Date Commission Expires 2/4/96

NANCY KANDT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. Feb. 4, 1996

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep
 KGS Plug
NOV 15 1992
Wichita, Kansas

Operator Name Charter Production Company Lease Name Pittman Well # 1
 Sec. 10 Twp. 34 Rge. 32 County Seward
 East West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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
 (Submit Copy.)
 List All E.Logs Run:
 Microlog, Dual Induction,
 Comp SSD Neutron, Geologist Log

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 See attached
 Please keep all information confidential

PLEASE KEEP ALL INFORMATION CONFIDENTIAL

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	24#	1529'	Western Life	505	2% gel
Production	7 7/8"	5 1/2"	15.5#	5181'	Common EA-2 Premium	125 300	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth	Type of Cement	#Sacks Used	Type and Percent Additives
	Top Bottom			
<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
4	Drum 4858'-4861		
4	Iola 4829-34'		
4	Lansing "BV" 4585-88'		

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		2 7/8	4580'					
Date of First, Resumed Production, SWD or Inj.			Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Well Shut In								
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	130		160		-0-			39

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perforated Dually Comp. Commingled
 Other (Specify) _____
 Production Interval _____

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

RELEASED

DEC 2 2 1994

Drill-Stem Test Data

FROM CONFIDENTIAL

Well Name PITTMAN #1 Test No. 1 Date 12/16/94
 Company CHARTER PRODUCTION COMPANY Zone LKC-"C"
 Address 224 EAST DOUGLAS WICHITA KS 67202 Elevation 2762
 Co. Rep./Geo. ERNIE MORRISON Cont. ZENITH DRLG Est. Ft. of Pay 9
 Location: Sec. 10 Twp. 34S Rge. 32W Co. SEWARD State KS
API#15-175-21257

Interval Tested 4588-4631 Drill Pipe Size 4.5 XH
 Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4583 Drill Collar - 2.25 Ft. Run 520
 Bottom Packer Depth 4588 Mud Wt. 8.9 lb/Gal.
 Total Depth 4631 Viscosity 54 Filtrate 8.9

Tool Open @ 3:15 Initial Blow STRONG THROUGHOUT
GAS TO SURFACE IN 1 MINUTE
 Final Blow SAME AS INITIAL-SEE GAS FLOW REPORT

Recovery - Total Feet 360 Flush Tool? NO

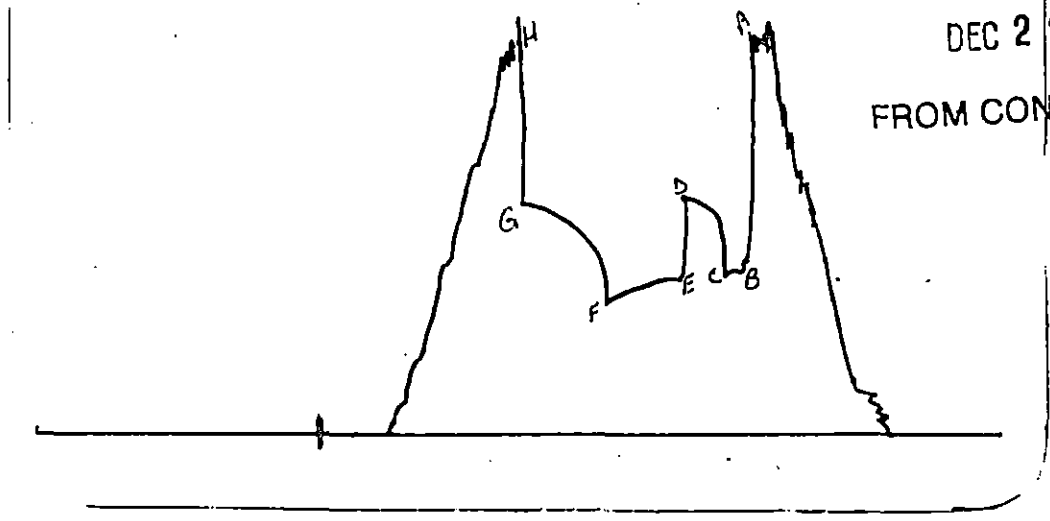
Rec. 90 Feet of GAS & MUD CUT OIL-65%GAS/25%OIL/10%MUD
 Rec. 90 Feet of GSY MUD & WTR CUT OIL-10%GAS/60%OIL/10%WTR/20%MUD
 Rec. 90 Feet of MUD & WTR CUT OIL-70%OIL/25%WTR/5%MUD
 Rec. 90 Feet of WATER
 Rec. _____ Feet of _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.2 @ 70 °F Chlorides 36000 ppm Recovery Chlorides 2900 ppm System

(A) Initial Hydrostatic Mud 2260.9 PSI AK1 Recorder No. 13851 Range 4425
 (B) First Initial Flow Pressure 955.3 PSI @ (depth) 4593 w / Clock No. 26191
 (C) First Final Flow Pressure 893.6 PSI AK1 Recorder No. 13850 Range 4325
 (D) Initial Shut-in Pressure 1334.0 PSI @ (depth) 4631 w / Clock No. 27585
 (E) Second Initial Flow Pressure 912.7 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 753.1 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 1284.4 PSI Initial Opening 15 Final Flow 60
 (H) Final Hydrostatic Mud 2260.9 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative HARRY SCHMIDT

CHART PAGE



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This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2257	2260.9
(B) FIRST INITIAL FLOW PRESSURE	906	955.3
(C) FIRST FINAL FLOW PRESSURE	885	893.6
(D) INITIAL CLOSED-IN PRESSURE	1336	1334
(E) SECOND INITIAL FLOW PRESSURE	885	912.7
(F) SECOND FINAL FLOW PRESSURE	746	753.1
(G) FINAL CLOSED-IN PRESSURE	1282	1284.4
(H) FINAL HYDROSTATIC MUD	2257	2260.9

DST.#

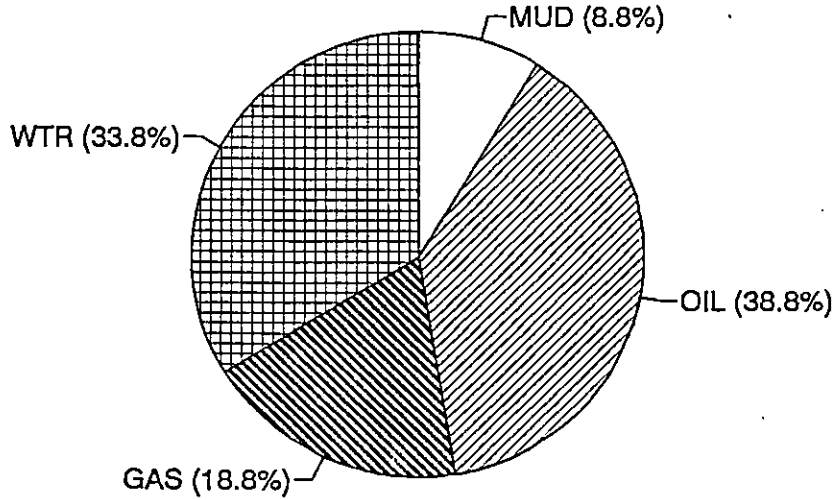
1

TICKET

4875

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	90	65	58.5	25	22.5	0	0	10	9
2	90	10	9	60	54	10	9	20	18
3	90	0	0	70	63	25	22.5	5	4.5
4	90	0	0	0	0	100	90	0	0
5			0		0		0		0
TOTAL	360	18.75	67.5	38.75	139.5	33.75	121.5	8.75	31.5

HRS OP BBL/DAY
 BBL OIL= 0.682155 * 1.25 13.097376
 BBL WATER= 0.594135 * 11.407392
 BBL MUD= 0.154035
 BBL GAS= 0.330075



MUD
 OIL
 GAS
 WTR

COMPUTER EVALUATION BY TRILOBITE TESTING, L.L.C.

CHARTER PRODUCTION COMPANY

PITTMAN #1

DST #1

10 34S

32W

SEWARD KS

ELEVATION:	2762 KB	EST. PAY:	9 FT.
DATUM:	-1870	ZONE TESTED:	LKC-"C"
TEST INTERVAL:	4588-4631	TIME INTERVALS:	15-30-60-60
RECORDER DEPTH:	4631	VISCOSITY:	0.01422 CP
BOTTOM HOLE TEMP:	116	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9975	GAS GRAVITY:	0.8569

TEMPERATURE RANKINE:	576.00	&
TRANSMISSIBILITY:	32291.51	Kh/%
THEORITICAL FLOW CAPICITY:	459.33	Kh
AVERAGE EFFECTIVE PERMEABILITY:	51.04	K(md.)
RADIUS OF INVESTIGATION:	61.87	FT.
DAMAGE RATIO:	0.86	
ABSOLUTE OPEN FLOW(MAX)	8074.38	MCFD
ABSOLUTE OPEN FLOW(MIN)	6691.83	MCFD
THEORITICAL OPEN FLOW(MAX)	6949.67	MCFD
THEORITICAL OPEN FLOW(MIN)	5759.70	MCFD
POTENTIOMETRIC SURFACE	372738.35	(FT.)

INITIAL SHUT-IN VALUES:

SLOPE	130204.83
THEORETICAL STATIC PRESSURE	1382

FINAL SHUT-IN VALUES:

SLOPE	161538.31
THEORETICAL STATIC PRESSURE	1346

DRAWDOWN FACTOR:

2.61 (%)

GAS VOLUME REPORT

CHARTER PRODUCTION COMPANY

PITTMAN #1

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	100	1.25	4146				
10	140	1.25	5546				
15	140	1.25	5546				
20	160	1.25	6246				
25	160	1.25	6246				
30	150	1.25	5896				
35	150	1.25	5896				
40	140	1.25	5546				
45	140	1.25	5546				
50	140	1.25	5546				
50	140	1.25	5546				
55	140	1.25	5546				
60	140	1.25	5546				

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DEC 22 1994

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Remarks:

PITTMAN #1
INITIAL

DST #1
SHUTIN
15 TOTAL FLOW TIME Slope 130204.83 psi/cycle
P * 1382 psi

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	1189.6	0.778	1189.6	6
6	1241.3	0.544	51.7	4
9	1262.9	0.426	21.6	3
12	1278.0	0.352	15.1	2
15	1293.1	0.301	15.1	2
18	1311.4	0.263	18.3	2
21	1314.6	0.234	3.2	2
24	1323.2	0.211	8.6	2
27	1329.7	0.192	6.5	2
30	1334.0	0.176	4.3	2

X
X

PITTMAN #1
FINAL

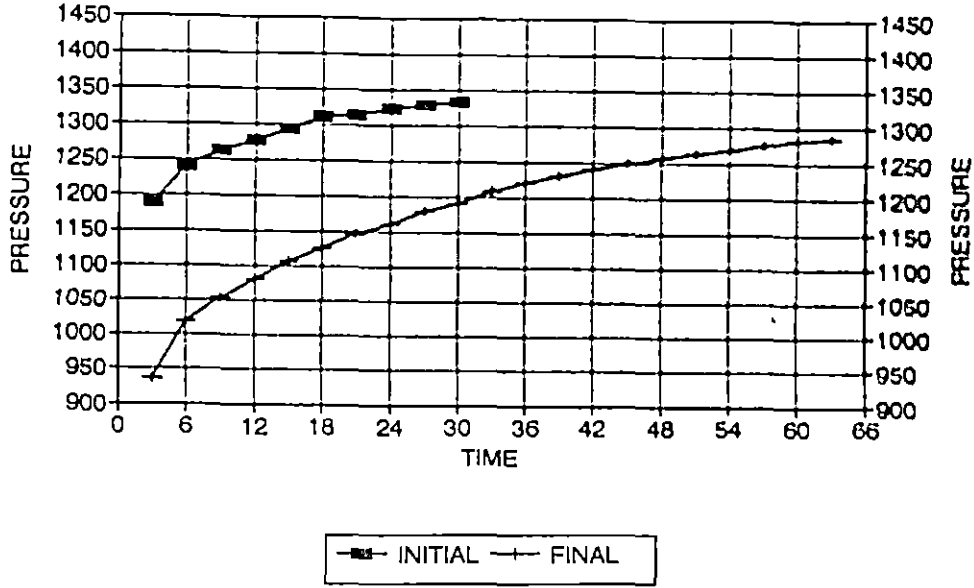
DST #1
SHUTIN
75 TOTAL FLOW TIME Slope 161538.31 psi/cycle
P * 1346 psi

Log <>

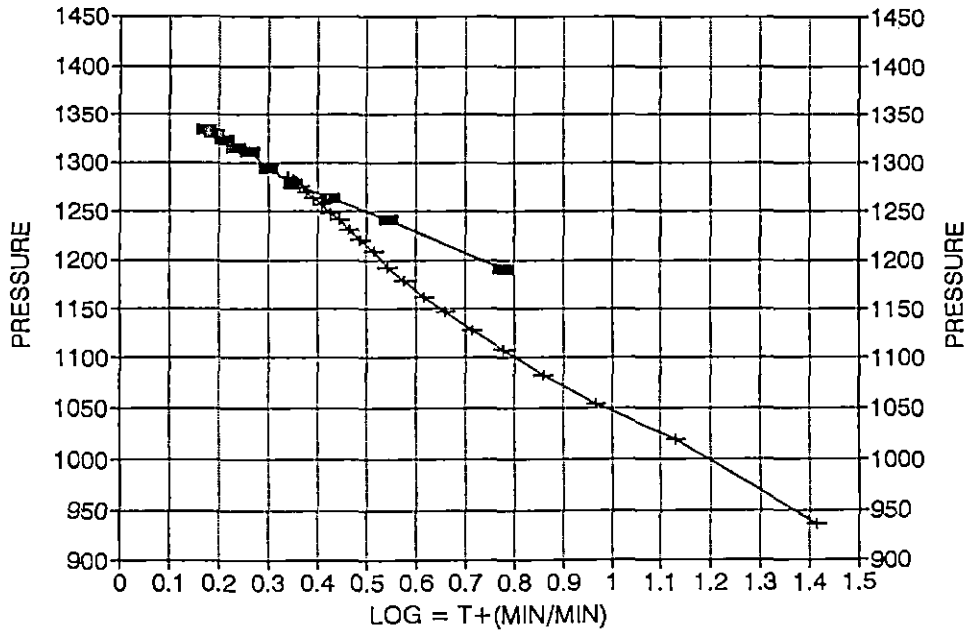
TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	936.1	1.415	936.1	26
6	1019.6	1.130	83.5	14
9	1053.9	0.970	34.3	9
12	1081.8	0.860	27.9	7
15	1107.7	0.778	25.9	6
18	1127.1	0.713	19.4	5
21	1146.5	0.660	19.4	5
24	1161.6	0.615	15.1	4
27	1178.8	0.577	17.2	4
30	1191.8	0.544	13.0	4
33	1209.0	0.515	17.2	3
36	1219.8	0.489	10.8	3
39	1230.5	0.466	10.7	3
42	1241.3	0.445	10.8	3
45	1247.8	0.426	6.5	3
48	1256.4	0.409	8.6	3
51	1262.9	0.393	6.5	2
54	1269.3	0.378	6.4	2
57	1275.8	0.365	6.5	2
60	1282.3	0.352	6.5	2
63	1284.4	0.341	2.1	2

X
X

PITTMAN #1 / DST #1 DELTA T DELTA P



HORNER PLOT



INITIAL FLOW

RECORDER #	13850	DST # 1
TIME(MIN)	PRESSURE	<>PRESSURE
0	955.3	955.3
3	911.7	-43.6
6	913.8	2.1
9	906.3	-7.5
12	901	-5.3
15	893.6	-7.4

FINAL FLOW

RECORDER #	13850	DST # 1
TIME(MIN)	PRESSURE	<> PRESSURE
0	912.7	912.7
3	878.7	-34
6	876.5	-2.2
9	876.5	0
12	874.4	-2.1
15	872.3	-2.1
18	870.2	-2.1
21	863.8	-6.4
24	855.3	-8.5
27	844.6	-10.7
30	836.1	-8.5
33	825.5	-10.6
36	814.9	-10.6
39	808.5	-6.4
42	800	-8.5
45	791.4	-8.6
48	782.9	-8.5
51	772.3	-10.6
54	765.9	-6.4
57	757.4	-8.5
60	753.1	-4.3

RELEASED

DEC 2 2 1994

FROM CONFIDENTIAL

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4875

Well Name & No. PITTMAN #1 Test No. ONE Date 7-16-92
Company CHARTER PROD. CO. Zone Tested 416-C
Address 224 E ROYALS SWITE 400 WICHITA KS 67202 Elevation 2762
Co. Rep./Geo. ERDIE MARRISON Cont. ZANITH Est. Ft. of Pay 9
Location: Sec. 10 Twp. 34 S Rge. 32 W Co. SARAWAD State KS
No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4588 TO 4631 Drill Pipe Size 4 1/2" x 1+
Anchor Length 43' Top Choke - 1" _____ Bottom Choke - 1/4" _____
Top Packer Depth 4583 Hole Size - 7 1/8" _____ Rubber Size - 6 1/4" _____
Bottom Packer Depth 4584 Wt. Pipe I.D. - 2.7 Ft. Run _____
Total Depth 4631 Drill Collar - 2.25 Ft. Run 520
Mud Wt. 8.9 lb/gal. Viscosity 54 Filtrate 8.9
Tool Open @ 3:15 Initial Blow STRONG THROUGHOUT
G.T.S. IN 1 MIN.
Final Blow SAME AS INITIAL SEIE GAS FLOW REPORT.

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>270'</u>	<u>TO SURFACE</u>	<u>NO</u>
Rec. <u>90</u> Feet Of <u>GFMCO</u>	<u>65% gas 25% oil</u>	<u>%water 10% mud</u>
Rec. <u>90</u> Feet Of <u>GM+WCO</u>	<u>10% gas 60% oil</u>	<u>10% water 20% mud</u>
Rec. <u>90</u> Feet Of <u>M+WCO</u>	<u>% gas 70% oil</u>	<u>25% water 5% mud</u>
Rec. <u>90</u> Feet Of <u>WATER</u>	<u>% gas % oil</u>	<u>% water % mud</u>
Rec. _____ Feet Of _____	<u>% gas % oil</u>	<u>% water % mud</u>

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.2 @ 20 °F Chlorides 36000 ppm Recovery Chlorides 2900 ppm System
(A) Initial Hydrostatic Mud 2257 PSI AK1 Recorder No. 13851 Range 4425
(B) First Initial Flow Pressure 906 PSI @ (depth) 4593 w/Clock No. 26191
(C) First Final Flow Pressure 885 PSI AK1 Recorder No. 13850 Range 4325
(D) Initial Shut-In Pressure 1336 PSI @ (depth) 4631 w/Clock No. 22585
(E) Second Initial Flow Pressure 885 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 746 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 1282 PSI Initial Opening 15 Test 550
(H) Final Hydrostatic Mud 2257 PSI Initial Shut-In 30 Jars 200

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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 60 Safety Joint 50
Final Shut-In 60 Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Other _____
TOTAL PRICE \$ 800

Approved By Carie Meyer
Our Representative [Signature]

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name PITTMAN #1 Test No. 2 Date 7/20/92
Company CHARTER PRODUCTION COMPANY Zone MORROW
Address 224 EAST DOUGLAS WICHITA KS 67202 Elevation 2762
Co. Rep./Geo. ERNIE MORRISON Cont. ZENITH DRLG Est. Ft. of Pay _____
Location: Sec. 10 Twp. 34S Rge. 32W Co. SEWARD State KS

Interval Tested 5756-5840 Drill Pipe Size 4.5 XH
Anchor Length 84 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5751 Drill Collar - 2.25 Ft. Run 520
Bottom Packer Depth 5756 Mud Wt. 9 lb/Gal.
Total Depth 5840 Viscosity 48 Filtrate 8.4

Tool Open @ 8:15 PM Initial Blow WEAK 1.5" BLOW
Final Blow NO BLOW

Recovery - Total Feet 30 Flush Tool? NO
Rec. 30 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2860.9 PSI AK1 Recorder No. 13851 Range 4425
(B) First Initial Flow Pressure 62.3 PSI @ (depth) 5771 w / Clock No. 26191
(C) First Final Flow Pressure 63.4 PSI AK1 Recorder No. 13850 Range 4325
(D) Initial Shut-in Pressure 84.7 PSI @ (depth) 5837 w / Clock No. 17652
(E) Second Initial Flow Pressure 63.4 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 63.4 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 77.8 PSI Initial Opening 30 Final Flow 30
(H) Final Hydrostatic Mud 2744.6 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative STEVE BOWMAN

RELEASED

DEC 22 1994

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5051

Well Name & No. Pittman #1 Test No. #2 Date 7-20-92
 Company Charter Production Company Zone Tested Morcow
 Address 224 E. Douglas Suite 400 Wichita, KS Elevation 2762
 Co. Rep./Geo. Ernie Morrison cont. Zeath Drilling Rig #1 Est. Ft. of Pay _____
 Location: Sec. 10 Twp. 34 S Rge. 32 W Co. Seward state KS
 No. of Copies 10 Distribution Sheet _____ Yes No Turnkey _____ Yes No _____ Evaluation _____

Interval Tested 5256 to 5840 Drill Pipe Size 4 1/2 x H
 Anchor Length 84' Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 5251 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5256 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5840 Drill Collar — 2.25 Ft. Run 520
 Mud Wt. 9.0 + lb/gal. Viscosity 48 Filtrate 8.4
 Tool Open @ 8:15 P.M. Initial Blow weak 1 1/2 inch Blow

Final Blow No Blow

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>30</u>	<u>0</u>	<u>NO</u>
Rec. <u>30</u> Feet Of <u>mud</u>	%gas _____ %oil _____ %water <u>100</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud 2858 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 64 PSI @ (depth) 5771 W/Clock No. 26191

(C) First Final Flow Pressure 64 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 85 PSI @ (depth) 5837 W/Clock No. 17652

(E) Second Initial Flow Pressure 64 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 64 PSI @ (depth) _____ W/Clock No. _____

(G) Final Shut-in Pressure 74 PSI Initial Opening 30 Test ✓ 650.00

(H) Final Hydrostatic Mud 2748 PSI Initial Shut-in 60 Jars ✓ 200.00

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 ✓ 500.00

Final Shut-in 60 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE ✓ 900.00

Approved By Ernie Morrison

Our Representative Steve Bowman Thank you

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name PITTMAN #1 Test No. 3 Date 7/21/92
Company CHARTER PRODUCTION COMPANY Zone MORROW
Address 224 EAST DOUGLAS WICHITA KS 67202 Elevation 2762
Co. Rep./Geo. ERNIE MORRISON Cont. ZENITH DRLG Est. Ft. of Pay _____
Location: Sec. 10 Twp. 34S Rge. 32W Co. SEWARD State KS

Interval Tested 5912-5951 Drill Pipe Size 4.5 XH
Anchor Length 39 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5907 Drill Collar - 2.25 Ft. Run 520
Bottom Packer Depth 5912 Mud Wt. 9 lb/Gal.
Total Depth 5951 Viscosity 45 Filtrate 8

Tool Open @ 6:20 PM Initial Blow STRONG 12" BLOW IN 1 MINUTE
VERY WEAK BLOW BACK AND DIED ON SHUT IN
Final Blow STRONG 12" BLOW IN 13 MINUTES
NO BLOW BACK ON SHUT IN

Recovery - Total Feet 1767 Flush Tool? NO

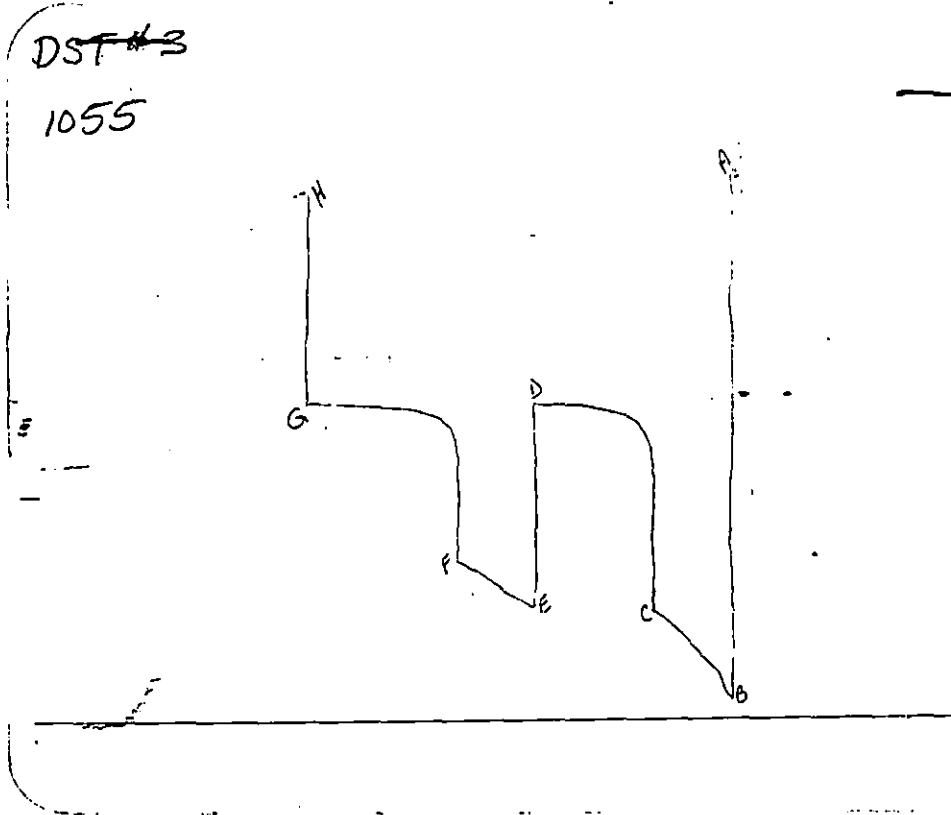
Rec. <u>93</u>	Feet of	<u>MUD</u>
Rec. <u>744</u>	Feet of	<u>GAS & MUD CUT WATER-5%GAS/70%WTR/25%MUD</u>
Rec. <u>930</u>	Feet of	<u>GAS & MUD CUT WATER-5%GAS/85%WTR/10%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.12 @ _____ °F Chlorides 30000 ppm Recovery Chlorides 2900 ppm System

(A) Initial Hydrostatic Mud 2916.5 PSI AK1 Recorder No. 1055 Range 4050
(B) First Initial Flow Pressure 151.2 PSI @ (depth) 5915 w / Clock No. 26191
(C) First Final Flow Pressure 584.7 PSI AK1 Recorder No. 13850 Range 4325
(D) Initial Shut-in Pressure 1684.3 PSI @ (depth) 5948 w / Clock No. 17652
(E) Second Initial Flow Pressure 639.8 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 873.2 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1683.2 PSI Initial Opening 60 Final Flow 60
(H) Final Hydrostatic Mud 2780.4 PSI Initial Shut-in 90 Final Shut-in 90

Our Representative STEVE BOWMAN

CHART PAGE



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This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2912	2916.5
(B) FIRST INITIAL FLOW PRESSURE	149	151.2
(C) FIRST FINAL FLOW PRESSURE	587	584.7
(D) INITIAL CLOSED-IN PRESSURE	1681	1684.3
(E) SECOND INITIAL FLOW PRESSURE	640	639.8
(F) SECOND FINAL FLOW PRESSURE	874	873.2
(G) FINAL CLOSED-IN PRESSURE	1681	1683.2
(H) FINAL HYDROSTATIC MUD	2781	2780.4

Test Ticket

N^o 5052

Well Name & No. Pittman #1 Test No. # 3 Date 7-21-92
 Company Charter Production Company Zone Tested Morrow
 Address 224 E Douglas Suite 400 Wichita, KS Elevation 2762
 Co. Rep./Geo. Ernie Morrison Cont. Zenith Rig #1 Est. Ft. of Pay _____
 Location: Sec. 10 Twp. 34S Rge. 32W Co. Seward State KS
 No. of Copies _____ Distribution Sheet _____ Yes No Turnkey _____ Yes No Evaluation _____

Interval Tested 5912 to 5951 Drill Pipe Size 4 1/2 x H
 Anchor Length 39' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5907 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5912 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5951 Drill Collar — 2.25 Ft. Run 520
 Mud Wt. 9.0 lb/gal. Viscosity 45 Filtrate 8.0
 Tool Open @ 6:20 P.M. Initial Blow Strong 12 inch Blow in 1 min
Very weak Blow Back and died on Shut-in
 Final Blow Strong 12 inch Blow in 13 min
No Blow Back on Shut-in

Recovery — Total Feet 1767 Feet of Gas In Pipe 0 Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>93</u>	<u>Mud</u>			<u>100</u>	<u>0</u>
<u>744</u>	<u>Gas + mud cut water</u>	<u>5</u>		<u>70</u>	<u>25</u>
<u>930</u>	<u>Gas + mud cut water</u>	<u>5</u>		<u>85</u>	<u>10</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.12 @ 86 °F Chlorides 30,000 ppm Recovery Chlorides 2900 ppm System

(A) Initial Hydrostatic Mud 2912 PSI AK1 Recorder No. 1055 Range 4050
 (B) First Initial Flow Pressure 149 PSI @ (depth) 5915 w/Clock No. 26191
 (C) First Final Flow Pressure 587 PSI AK1 Recorder No. 13850 Range 4325
 (D) Initial Shut-In Pressure 1681 PSI @ (depth) 5948 w/Clock No. 17652
 (E) Second Initial Flow Pressure 640 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 874 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1681 PSI Initial Opening 60 Test 650.00
 (H) Final Hydrostatic Mud 2781 PSI Initial Shut-In 90 Jars 200.00

Final Flow 60 Safety Joint 50.00
 Final Shut-In 90 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 100.00

Approved By Ernie Morrison
 Our Representative Steve Bowman Thank you

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.

DUPLICATE



The Western Company
of North America

REMIT TO: P.O. BOX 911543
DALLAS, TX 75391-1543

INVOICE NO. 401142	YOUR RECEIPT NO. 240323	DATE 07/11/92
YOUR ORDER NO.		
16461	1225	

CHARTER PRODUCTION CO.
224 E. DOUGLAS #400
WICHITA KS 67202

SERVICES FROM OUR STATION AT PERRYTON CEMENTING	OUR ENGINEER ARRINGTON	SIGNED FOR YOU BY GERHARDT
FOR SERVICING WELL NAME PITMAN 1	COUNTY SEWARD	STATE KS 15

FEDERAL I.D. NO. C 75-0763484

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
F0035	CEMENT CASING, 1501 - 2000	BARS	1.0	1021.000	1021.00	45.00	561.55
K1005	MILEAGE CHARGE, PER UNIT	MILE	10.0	2.600	26.00	45.00	14.30
K1025	MILEAGE AUTO/PICK-UP/TREATING VAN	MILE	10.0	1.350	13.50	45.00	7.43
M1005	BULK MATERIALS SVC CHG-LAND JOBS	CU FT	718.2	1.200	861.84	45.00	474.01
M2305	DELIVERY CHG BULK MATLS	TONMI	315.3	.800	252.24	45.00	138.73
P0527	CALCIUM CHLORIDE-TEXAS PANHANDLE	LB	160.0	.350	56.00	45.00	30.80
P0827	SODIUM CHLORIDE-TX PANHANDLE	LB	1700.0	.100	170.00	45.00	93.50
P1715	CELLO-SEAL	LB	63.0	1.750	110.25	45.00	60.64
P3255	THREAD LOCKING COMPOUND	BOX	1.0	21.600	21.60	45.00	11.88
P3625	CMT PLUG, RUBBER, TOP 8-5/8"	EACH	1.0	97.200	97.20	45.00	53.46
P392F	PREM PLUS CMT, PERRYTON, TX	SACK	125.0	8.000	1000.00	45.00	550.00
P452F	PACESETTER LITE II, PERRYTON, TX	SACK	505.0	8.500	4292.50	45.00	2,360.88
13156	GUIDE SHOE/LONG BOX 8 5/8" BRD	EACH	1.0	216.000	216.00	45.00	118.80
17068	CENTRALIZER W/ PIN 8 5/8"	EACH	3.0	63.000	189.00	45.00	103.95
17299	FLOAT CL/ALINS/FV AF LJC 8 5/8" BRD	EACH	1.0	313.000	313.00	45.00	172.15
	SUB TOTAL				8640.13		4,752.08

CONFIDENTIAL

NOV 4

FROM CONFIDENTIAL
RELEASED
DEC 2 2 1994

RECEIVED
NOV 5 1992
CONSPIRACY DIVISION
MICHIGAN COMMISSION

PHONE: (713) 629-2600

TERMS: NET 30 DAYS

PAY THIS AMOUNT →

4,752.08

ORIGINAL

AUG 4 1992



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

NOV 4

A Halliburton Company

ORIGINAL

INVOICE NO.	DATE
250658	07/24/1992

WELL LEASE NO./PLANT NAME ITTMAN 1		WELL/PLANT LOCATION SEWARD		STATE KS	WELL/PLANT OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR ZENITH	JOB PURPOSE CEMENT PRODUCTION CASING		TICKET DATE 07/24/1992
COCT NO. 35799	CUSTOMER AGENT ROBERT MOOREHEAD	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 37467

CHARTER PRODUCTION
224 E. DOUGLAS, SUITE 400
WICHITA, KS 67202

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
00-117	PRICING AREA - EASTERN AREA1 MILEAGE	15	MI	2.60	39.00
09-308	PLUG-BACK & CASING JOB COMBO	1	HR	840.00	840.00
01-016	CEMENTING CASING	5181	FT	1,440.00	1,440.00
19-241	CASING SWIVEL W/O WALL CLEANER	1	UNT		
30-016	CEMENTING PLUG SW ALUM TOP	5 1/2	IN	50.00	50.00
2A	GUIDE SHOE - 5 1/2" BRD THD.	1	EA	121.00	121.00
825.205					
4A	INSERT FLOAT VALVE - 5 1/2" BRD	1	EA	83.00	83.00
815.19251					
7	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
815.19311					
0	CENTRALIZER 5-1/2" X 7 7/8"	10	EA	44.00	440.00
807.93022					
18-317	SUPER FLUSH	10	SK	98.00	980.00
09-968	SALT	200	LB	.10	20.00
04-043	PREMIUM CEMENT	300	SK	7.94	2,382.00
07-775	HALAD-322	141	LB	6.30	888.30
08-127	CAL SEAL	16	SK	19.70	315.20
08-291	GILSONITE BULK	1500	LB	.35	525.00
09-968	SALT	1796	LB	.10	179.60
00-207	BULK SERVICE CHARGE	377	CFT	1.15	433.55
00-306	MILEAGE CMTG MAT DEL OR RETURN	664.74	TMI	.80	531.79

RELEASED

DEC 2 2 1994

FROM CONFIDENTIAL

INVOICE SUBTOTAL
DISCOUNT-(BID)
INVOICE BID AMOUNT

Completion
APPROVED

RECEIVED
OPERATION DIVISION
7,563.76
NOV 15 1992
CONFIDENTIAL
Wichita

***** CONTINUED ON NEXT PAGE *****

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND