TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KANSAS CITY LIFE #2 Test No. 1 Date 10/26/94

Company R.C. TAYLOR COMPANIES, INC. Zone MARMATON

Address 501 W. I.44,SUITE 590,OK.CITY.OK 73118 Elevation 2691

Co. Rep./Geo. ED GRIEVES Cont. ZENITH DRLG #7 Est. Ft. of Pay 10

Location: Sec. 3 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested 5205-5250 Drill Pipe Size 4.5" XH

Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 5200 Drill Collar – 2.25 Ft. Run 491

Bottom Packer Depth 5205 Mud Wt. 9.1 lb/Gal.

Total Depth 5250 Viscosity 44 Filtrate 9.2

Tool Open @ 6:10PM Initial Blow STRONG BLOW - BUILT TO BOTTOM OF BUCKET IN 30 SECONDS

ISI: BLED OFF BLOW - NO BLOW BACK

Final Blow STRONG BLOW - BUILT TO BOTTOM OF BUCKET IN 30 SECONDS

GAS TO SURFACE IN 20 MINUTES - GAUGED @ 7.12 MCF

Recovery - Total Feet 330 Flush Tool? NO

Rec. 330 Feet of GAS & OIL CUT MUD 45%GAS/5%OIL/50%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 2200 ppm System

(A) Initial Hydrostatic Mud 2599.3 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 74.3 PSI @ (depth) 5209 w / Clock No. 25813

(C) First Final Flow Pressure 74.3 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 739.6 PSI @ (depth) 5247 w / Clock No. 25814

(E) Second Initial Flow Pressure 98.9 PSI AK1 Recorder No. Range

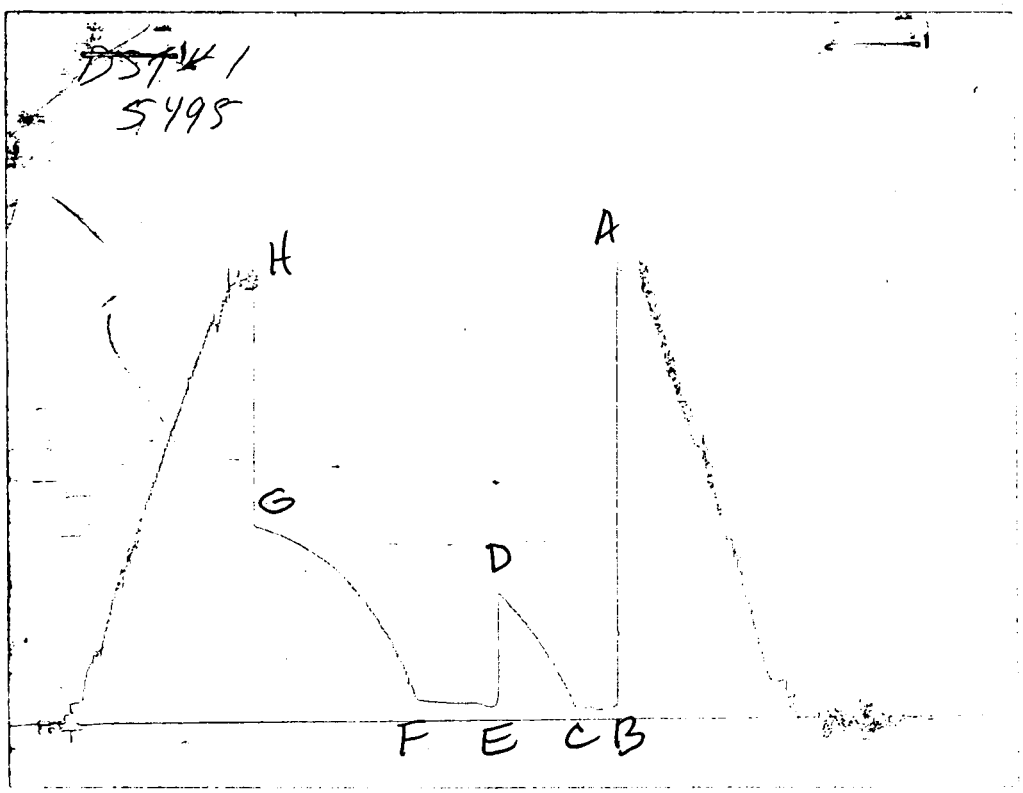
(F) Second Final Flow Pressure 128.9 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1135.1 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2565.8 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2567	2599.3
(B) FIRST INITIAL FLOW PRESSURE	95	74.3
(C) FIRST FINAL FLOW PRESSURE	109	74.3
(D) INITIAL CLOSED-IN PRESSURE	753	739.6
(E) SECOND INITIAL FLOW PRESSURE	95	98.9
(F) SECOND FINAL FLOW PRESSURE	149	128.9
(G) FINAL CLOSED-IN PRESSURE	1134	1135.1
(H) FINAL HYDROSTATIC MUD	2516	2565.8

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

R.C. TAYLOR COMPANIES, INC.

KANSAS CITY LIFE #2 DST 1

3 35S 31W SEWARD KS

****

ELEVATION:	2691 *KB*	EST. PAY:	10 FT.
DATUM:	-2519	ZONE TESTED:	MARMATON
TEST INTERVAL:	5205-5250	TIME INTERVALS:	30-60-60-120
RECORDER DEPTH:	5209	VISCOSITY:	0.01522 CP
BOTTOM HOLE TEMP:	124	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9945	GAS GRAVITY:	0.9408

****

TEMPERATURE RANKINE:	584.00	&
TRANSMISSIBILITY:	6.23	Kh/%
THEORITICAL FLOW CAPICITY:	0.09	Kh
AVERAGE EFFECTIVE PERMEABILITY:	0.01	K(md.)
RADIUS OF INVESTIGATION:	0.92	FT.
DAMAGE RATIO:	4.02	
ABSOLUTE OPEN FLOW(MAX)	7.17	MCFD
ABSOLUTE OPEN FLOW(MIN)	7.14	MCFD
THEORITICAL OPEN FLOW(MAX)	28.82	MCFD
THEORITICAL OPEN FLOW(MIN)	28.72	MCFD
POTENTIOMETRIC SURFACE	904.29	(FT.)

****

INITIAL SHUT-IN VALUES:

SLOPE

THEORETICAL STATIC PRESSURE

FINAL SHUT-IN VALUES:

SLOPE	1090130.21
THEORETICAL STATIC PRESSURE	1542.27

INITIAL FLOW

RECORDER 5495 DST # 1

TIME(MIN)	PRESSURE	<>PRESSURE
3	74.3	74.3
6	74.3	0.0
9	74.3	0.0
12	74.3	0.0
15	74.3	0.0
18	74.3	0.0
21	74.3	0.0
24	74.3	0.0
27	74.3	0.0
30	74.3	0.0

FINAL FLOW

RECORDER 5495 DST # 1

TIME(MIN)	PRESSURE	<> PRESSURE
3	98.9	98.9
6	98.9	0
9	98.9	0.0
12	105.5	6.6
15	105.5	0.0
18	105.5	0.0
21	105.5	0.0
24	105.5	0.0
27	105.5	0.0
30	105.5	0.0
33	105.5	0.0
36	115.6	10.1
39	115.6	0.0
42	115.6	0.0
45	115.6	0.0
48	115.6	0.0
51	128.9	13.3
54	128.9	0.0
57	128.9	0.0
60	128.9	0.0

INITIAL SHUTIN

KANSAS CITY LIFE # DST #1

INITIAL FLOW TIME 30

SLOPE PSI/CYCLE

P* PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	101.1	1.041	101.1	11
	6	107.8	0.778	6.7	6
	9	164.4	0.637	56.6	4
	12	217.3	0.544	52.9	4
	15	268.8	0.477	51.5	3
	18	319.9	0.426	51.1	3
	21	356.8	0.385	36.9	2
	24	392.5	0.352	35.7	2
	27	429.1	0.325	36.6	2
	30	466.8	0.301	37.7	2
	33	509.6	0.281	42.8	2
	36	539.6	0.263	30.0	2
	39	567.4	0.248	27.8	2
	42	597.2	0.234	29.8	2
	45	627.0	0.222	29.8	2
	48	651.5	0.211	24.5	2
	51	681.3	0.201	29.8	2
	54	707.8	0.192	26.5	2
	57	732.2	0.184	24.4	2
X	60	739.6	0.176	7.4	2

FINAL SHUTIN

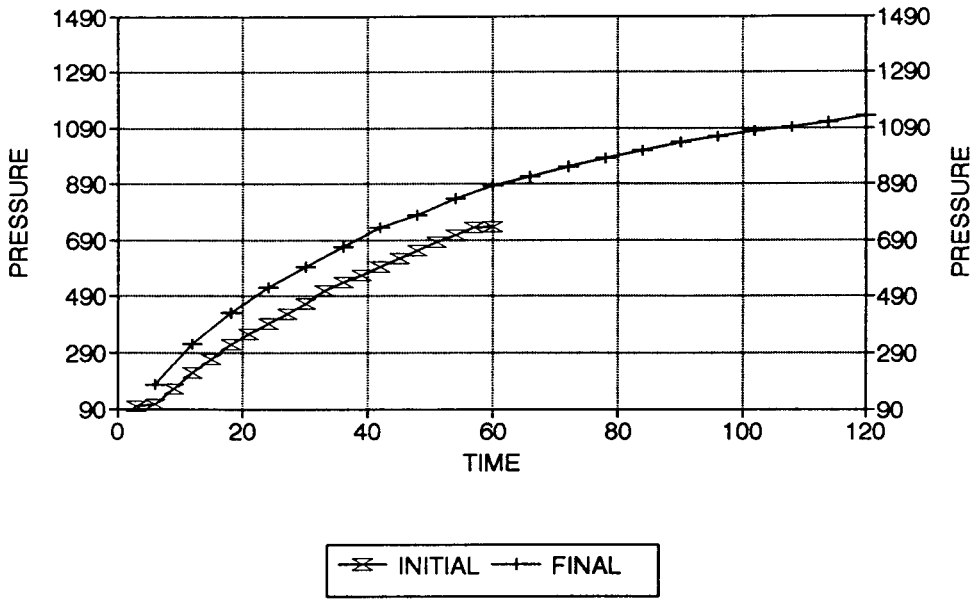
KANSAS CITY LIFE # DST #1

TOTAL FLOW TIME 90

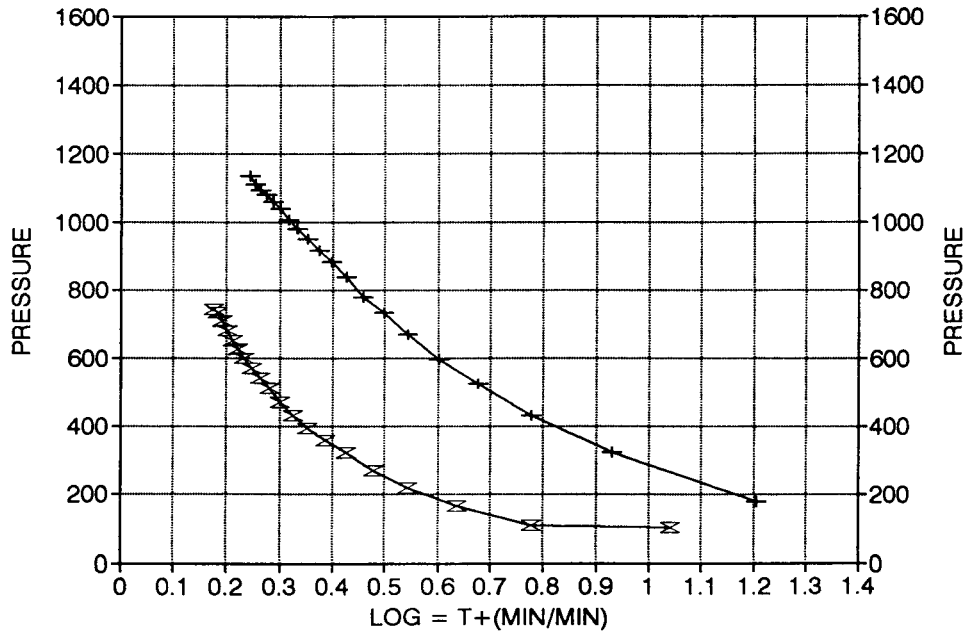
SLOPE	1090130.21 PSI/CYCLE
P*	1542.27 PSI

	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
	6	178.7	1.204	178.7	16
	12	322.1	0.929	143.4	9
	18	430.2	0.778	108.1	6
	24	521.4	0.677	91.2	5
	30	595.1	0.602	73.7	4
	36	667.4	0.544	72.3	4
	42	733.3	0.497	66	3
	48	777.8	0.459	44.5	3
	54	837.1	0.426	59.3	3
	60	883.6	0.398	46.5	3
X	66	916.4	0.374	32.8	2
	72	949.2	0.352	32.8	2
	78	979.8	0.333	30.6	2
	84	1008.4	0.316	28.6	2
	90	1036.9	0.301	28.5	2
	96	1060.1	0.287	23.2	2
	102	1079.1	0.275	19.0	2
	108	1092.9	0.263	13.8	2
	114	1109.8	0.253	16.9	2
X	120	1135.1	0.243	25.3	2

KANSAS CITY LIFE #2-DST #1
DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

R.C. TAYLOR COMPANIES, INC.

KANSAS CITY LIFE #2 DST # 1

MIN	WATER	ORIFICE	MCF/D	MIN	WATER	ORIFICE	MCF/D
				20	16	0.25	6.72
				30	22	0.25	7.88
				40	22	0.25	7.88
				50	20	0.25	7.51
				60	18	0.25	7.12

Remarks: GAS TO SURFACE IN 20 MIN-2ND OPEN

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

R. C. Taylor — OPERATOR

Kansas City Life #2 — WELL NAME AND NO.

#1 — DST NO.

2nd open

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
				20	16	1/4	6.72
				30	22	1/4	7.58
				40	22	1/4	7.88
				50	20	1/4	7.51
				60	18	1/4	7.12

Remarks: GTS in 20 min 2nd open. Gas will burn.

101 NCR

K.C TAYLOR

WELL NAME KC Life #2 DST # 1 RECORDER # 5495

INIT. HYD. MUD. 2.444 2599.3 A FINAL HYD. MUD 2.412 2565.8 H

INITIAL FLOW		INITIAL SHUTIN			FINAL FLOW		FINAL SHUTIN	
MINUTES 30		MINUTES 60			MINUTES 60		MINUTES 120	
INTERVAL 3		INTERVAL 3			INTERVAL 3		INTERVAL 6	
				1				
		.090	101.1	2				
.066	74.3 B	.096	107.8	3			.160	178.7
.066	74.3	.147	164.4	4	.088	98.9 E	.241	322.1
.066	74.3	.195	217.3	5	.088	98.9	.391	430.2
.066	74.3	.242	268.8	6	.088	98.9	.476	521.4
.066	74.3	.289	319.9	7	.094	105.5	.545	595.1
.066	74.3	.323	356.8	8	.094	105.5	.613	667.4
.066	74.3	.356	392.5	9	.094	105.5	.675	733.3
.066	74.3	.390	429.1	10	.094	105.5	.717	777.8
.066	74.3	.425	466.8	11	.094	105.5	.773	837.1
.066	74.3	.465	509.6	12	.094	105.5	.817	883.6
.066	74.3 C	.493	539.6	13	.094	105.5	.848	916.4
		.519	562.4	14	.094	105.5	.879	949.2
		.547	597.2	15	.103	115.6	.908	979.8
		.575	627.0	16	.103	115.6	.935	1008.4
		.598	651.5	17	.103	115.6	.962	1036.9
		.626	681.3	18	.103	115.6	.984	1060.1
		.651	707.8	19	.103	115.6	1.002	1079.1
		.674	732.2	20	.115	128.9	1.015	1092.9
		.681	739.6 D	21	.115	128.9	1.031	1109.8
				22	.115	128.9	1.055	1135.1 G
				23	.115	128.9 F		
				24				
				25				
				26				
				27				

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KANSAS CITY LIFE #2 Test No. 2 Date 10/27/94

Company R.C. TAYLOR COMPANIES, INC. Zone MARMATON

Address 501 W. I.44,SUITE 590,OK.CITY.OK 73118 Elevation 2691

Co. Rep./Geo. ED GRIEVES Cont. ZENITH DRLG #7 Est. Ft. of Pay 11

Location: Sec. 3 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested 5300-5325 Drill Pipe Size 4.5" XH

Anchor Length 25 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 5295 Drill Collar – 2.25 Ft. Run 522

Bottom Packer Depth 5300 Mud Wt. 8.9 lb/Gal.

Total Depth 5325 Viscosity 42 Filtrate 10.0

Tool Open @ Initial Blow STRONG BLOW - GAS TO SURFACE IN 2 MINUTES - 1/2" ORIFI
OIL TO SURFACE IN 25 MINUTES - ISI: 45 MINUTES FOR BLOW TO DIE DOWN.

Final Blow FAIR TO STRONG RETURN - OIL COLUMN UNLOADED 5 MINUTES INTO
CONTINUED OIL SPRAY THROUGHOUT 30 MINUTE OPEN

Recovery - Total Feet Flush Tool? NO

Rec. Feet of OIL TO SURFACE

Rec. 60 Feet of WATER 10%GAS-TRACE OIL-90%WATER

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 130 °F Gravity 39 °API @ 62 °F Corrected Gravity 38.8 °API

RW 1.7 @ 60 °F Chlorides 4000 ppm Recovery Chlorides 2600 ppm System

(A) Initial Hydrostatic Mud 2559.6 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 591.2 PSI @ (depth) 5315 w / Clock No. 17640

(C) First Final Flow Pressure 578.2 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1384.4 PSI @ (depth) 5320 w / Clock No. 23934

(E) Second Initial Flow Pressure 719.4 PSI AK1 Recorder No. Range

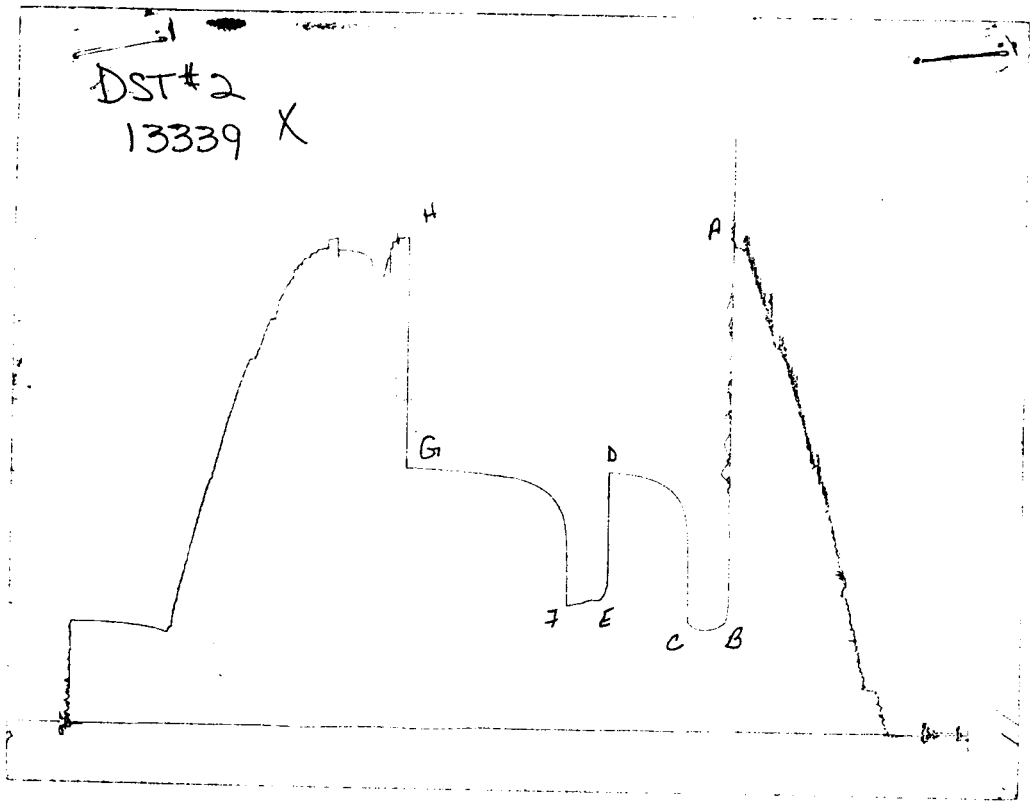
(F) Second Final Flow Pressure 683.4 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1395.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2534.2 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2553	2559.6
(B) FIRST INITIAL FLOW PRESSURE	579	591.2
(C) FIRST FINAL FLOW PRESSURE	579	578.2
(D) INITIAL CLOSED-IN PRESSURE	1361	1384.4
(E) SECOND INITIAL FLOW PRESSURE	689	719.4
(F) SECOND FINAL FLOW PRESSURE	659	683.4
(G) FINAL CLOSED-IN PRESSURE	1371	1395.5
(H) FINAL HYDROSTATIC MUD	2533	2534.2

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

R.C. TAYLOR COMPANIES, INC.

KANSAS CITY LIFE #2 DST 2

3 35S 31W SEWARD KS

ELEVATION:	2691 KB	EST. PAY	11	FT
DATUM:	-2630	ZONE TESTED:	MARMATON	
TEST INTERVAL:	5300-5325	TIME INTERVALS:	30-60-30-120	
RECORDER DEPTH:	5320	VISCOSITY:	1.07	CP
BOTTOM HOLE TEMP:	130	HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	27250			
TOTAL FEET OF RECOVERY:	5325.00	CORRECTED PIPE FILLUP:	1887.845	
TOTAL BARRELS OF RECOVERY:	70.85	CORR. BARRELS OF RECOVERY:	21.977	BBL
BARRELS IN DRILL PIPE:	68.30	API GRAVITY:	39	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.362	
BARRELS IN DRILL COLLARS:	2.55			
GAS OIL RATIO:	384.61	CU.FT/BBL		
BUBBLE POINT PRESSURE:	1410			
UNCORRECTED INITIAL PRODUCTION:			1700.43	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			527.45	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:				

INITIAL SLOPE	115.07	PSI/CYCL	FINAL SLOPE	80.57 PSI/CYCLE
INITIAL P*	1404.66	PSI	FINAL P*	1409.69 PSI

TRANSMISSIBILITY	1064.48	(MD.-FT./CP.)
PERMEABILITY	103.07	(MD.)
INDICATED FLOW CAPACITY	1133.75	(MD.FT)
PRODUCTIVITY INDEX	1.20	(BARREL/DAY/PSI)
DAMAGE RATIO	1.65	
RADIUS OF INVESTIGATION	78.64	(FT,)
POTENTIOMETRIC SURFACE	640.07	(FT.)
DRAWDOWN FACTOR	-0.358	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	870.11	

INITIAL FLOW

RECORDER 13339 DST # 2

TIME(MIN)	PRESSURE	<>PRESSURE
0	591.2	591.2
3	574.2	-17.0
6	565.2	-9.0
9	558.2	-7.0
12	554.2	-4.0
15	554.2	0.0
18	554.2	0.0
21	561.2	7.0
24	566.2	5.0
27	581.2	15.0
30	578.2	-3.0

FINAL FLOW

RECORDER 13339 DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
3	719.4	719.4
6	709.4	-10
9	709.4	0.0
12	704.4	-5.0
15	700.4	-4.0
18	692.4	-8.0
21	687.4	-5.0
24	683.4	-4.0
27	683.4	0.0
30	683.4	0.0

INITIAL SHUTIN

KANSAS CITY LIFE # DST #2

INITIAL FLOW TIME 30

SLOPE	115.07	PSI/CYCLE			
P*	1404.66	PSI			

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	1167.6	1.041	1167.6	11
	6	1220.8	0.778	53.2	6
	9	1257.9	0.637	37.1	4
	12	1279.1	0.544	21.2	4
	15	1299.1	0.477	20.0	3
	18	1316.1	0.426	17.0	3
	21	1329.2	0.385	13.1	2
	24	1338.2	0.352	9.0	2
	27	1346.3	0.325	8.1	2
	30	1354.3	0.301	8.0	2
	33	1361.3	0.281	7.0	2
	36	1368.4	0.263	7.1	2
	39	1371.4	0.248	3.0	2
	42	1374.4	0.234	3.0	2
	45	1378.4	0.222	4.0	2
X	48	1380.4	0.211	2.0	2
	51	1382.4	0.201	2.0	2
	54	1384.4	0.192	2.0	2
	57	1384.4	0.184	0.0	2
X	60	1384.4	0.176	0.0	2

FINAL SHUTIN

KANSAS CITY LIFE # DST #2

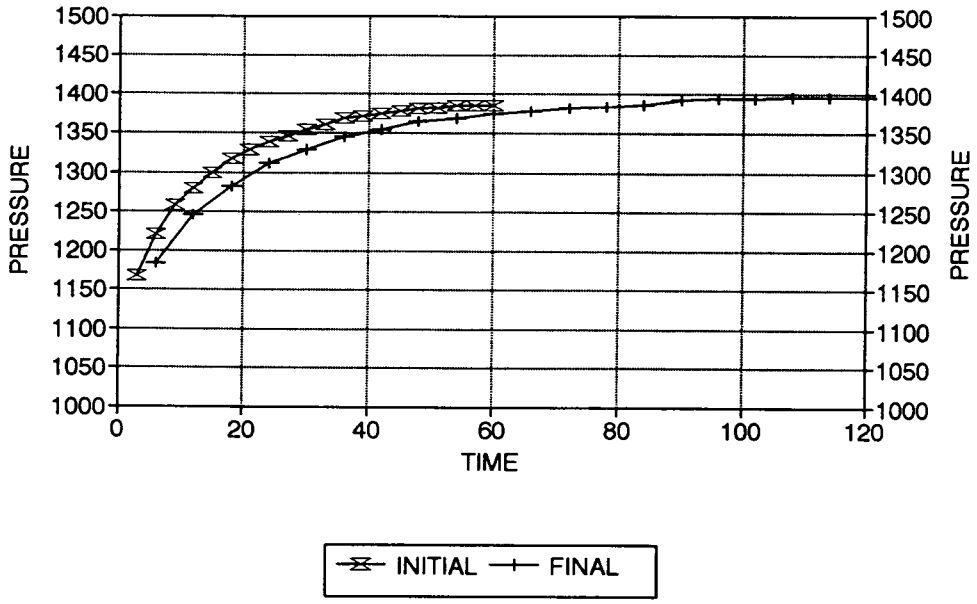
TOTAL FLOW TIME 60

SLOPE 80.57 PSI/CYCLE

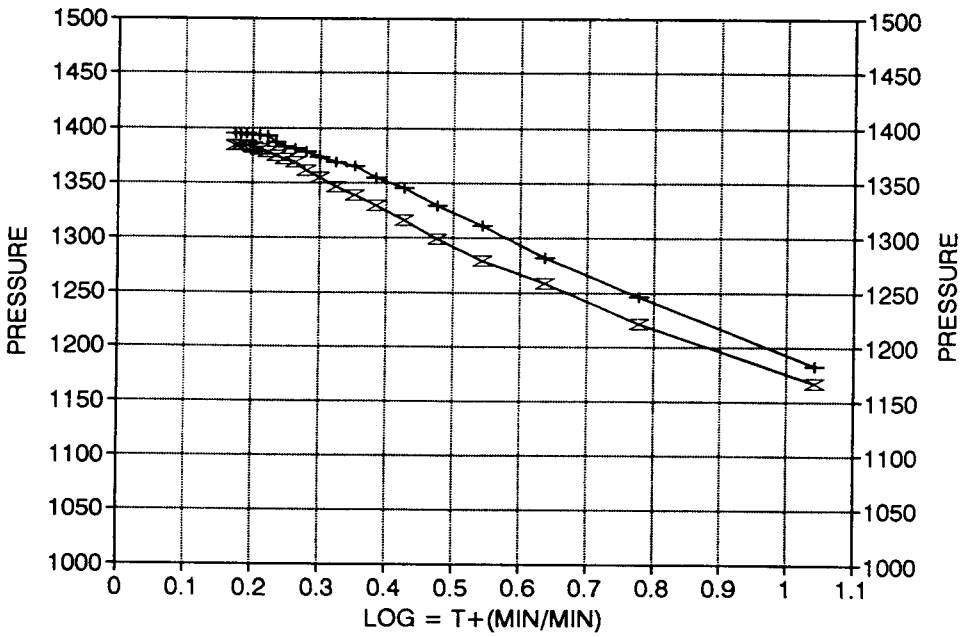
P* 1409.69 PSI

	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
	6	1183.6	1.041	1183.6	11
	12	1245.9	0.778	62.3	6
	18	1282.1	0.637	36.2	4
	24	1311.1	0.544	29.0	4
	30	1329.2	0.477	18.1	3
	36	1345.3	0.426	16.1	3
	42	1354.3	0.385	9	2
	48	1365.3	0.352	11.0	2
	54	1368.4	0.325	3.1	2
	60	1373.4	0.301	5.0	2
	66	1378.4	0.281	5.0	2
	72	1381.4	0.263	3.0	2
	78	1383.4	0.248	2.0	2
	84	1386.4	0.234	3.0	2
	90	1392.5	0.222	6.1	2
	96	1393.5	0.211	1.0	2
X	102	1393.5	0.201	0.0	2
	108	1395.5	0.192	2.0	2
	114	1395.5	0.184	0.0	2
X	120	1395.5	0.176	0.0	2

KANSAS CITY LIFE #2-DST #2
DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

R.C. TAYLOR COMPANIES, INC.

KANSAS CITY LIFE #2 DST # 2

MIN	PSIG	ORIFICE	MCF/D
2	GAS TO SURFACE		
10	6.5	1.5	995
15	4.5	1.5	814
20	3	1.5	654
24		1.5	MUD SPRAY
25		1.5	OIL TO SURFACE

MIN	WATER	ORIFICE	MCF/D
2		1.5	OIL SPRAY
			NOT ABLE
			TO GAUGE

Remarks: GAS IS FLAMMABLE

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

R.C. Taylor Companies (OPERATOR) | Kansas City Life #2 (WELL NAME AND NO.) | #2 (DST NO.)

Min.	~~Ins. of Water~~ PSIG	Orifice Size	MCF/D	Min.	~~Ins. of Water~~ PSIG	Orifice Size	MCF/D
2	GTS	1½"	~~995~~	2		1½"	Oil spray
10	6.5		995				not able to
15	4.5		814				gauge
20	3.0		654				
24			mud spray				
25		1½"	oil to surface				

Remarks: Gas is flammable

101 NCR

1	1.163	1183.68
2	1.225	1245.919
3	1.261	1282.068
4	1.29	1311.169
5	1.308	1329.238
6	1.324	1345.312
7	1.333	1354.351
8	1.344	1365.398
9	1.347	1368.41
10	1.352	1373.43
11	1.357	1378.45
12	1.36	1381.461
13	1.362	1383.469
14	1.365	1386.48
15	1.371	1392.502
16	1.372	1393.506
17	1.372	1393.506
18	1.374	1395.513
19	1.374	1395.513
20	1.374	1395.513

7 ST

1	1.147	1167.618
2	1.2	1220.8
3	1.237	1257.972
4	1.258	1279.057
5	1.278	1299.13
6	1.295	1316.185
7	1.308	1329.238
8	1.317	1338.28
9	1.325	1346.316
10	1.333	1354.351
11	1.34	1361.381
12	1.347	1368.41
13	1.65	~~1672.317~~ 1371.4
14	1.353	1374.434
15	1.357	1378.45
16	1.359	1380.457
17	1.361	1382.465
18	1.363	1384.472
19	1.363	1384.472
20	1.363	1384.472

ISI

1	0.572	591.265
2	0.555	574.2585
3	0.546	565.241
4	0.539	558.2207
5	0.535	554.2065
6	0.535	554.2065
7	0.535	554.2065
8	0.542	561.2302
9	0.547	566.2435
10	0.562	581.2654
11	0.559	578.2631
12		0
13	0.7	719.4
14	0.69	709.4186
15	0.69	709.4186
16	0.685	704.4246
17	0.681	700.428
18	0.673	692.4305
19	0.668	687.4293
20	0.664	683.4267
21	0.664	683.4267
22	0.664	683.4267

WELL NAME_____ DST #_____ RECORDER #_____

INIT. HYD. MUD. 2.619 _____ FINAL HYD. MUD 2.600 _____

	INITIAL FLOW MINUTES 30 INTERVAL		INITIAL SHUTIN MINUTES 60 INTERVAL			FINAL FLOW MINUTES 30 INTERVAL		FINAL SHUTIN MINUTES 120 INTERVAL 10	
1	.572		—		1	~~.669~~		1.163	
2	.555		1.147		2	.700		1.225	
3	.546		1.200		3	.690		1.261	
4	.539		1.237		4	.690		1.290	
5	.535		1.258		5	.685		1.308	
6	.535		1.278		6	.681		1.324	
7	.535		1.295		7	.673		1.333	
8	.542		1.308		8	.668		1.337	
9	.547		1.317		9	.664		1.344	
10	.562		1.325		10	.664		1.347	
11	.569		1.333		11	.664		1.350	
12			1.340		12			1.357	
13			1.347		13			1.360	
14			1.350		14			1.362	
15			1.353		15			1.365	
16			1.357		16			1.371	
17			1.359		17			1.372	
18			1.361		18			1.372	
19			1.363		19			1.374	
20			1.363		20			1.374	
21			1.363		21			1.374	
22					22				
23					23				
24					24				
25					25				
26					26				
27					27				

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name: KANSAS CITY LIFE #2 — Test No. 3 — Date 10/30/94

Company: R.C. TAYLOR COMPANIES, INC. — Zone MORROW

Address: 501 W. I-44,SUITE 590,OK.CITY.OK 73118 — Elevation 2691

Co. Rep./Geo.: ED GRIEVES — Cont. ZENITH DRLG #7 — Est. Ft. of Pay 6

Location: Sec. 3 — Twp. 35S — Rge. 31W — Co. SEWARD — State KS

Interval Tested: 5883-5910 — Drill Pipe Size: 4.5" XH

Anchor Length: 27 — Wt. Pipe I.D. - 2.7 Ft. Run:

Top Packer Depth: 5878 — Drill Collar – 2.25 Ft. Run: 522

Bottom Packer Depth: 5883 — Mud Wt.: 9.0 lb/Gal.

Total Depth: 5910 — Viscosity: 52 — Filtrate: 8.8

Tool Open @ 6:27PM — Initial Blow: STRONG BLOW - OFF BOTTOM IMMEDIATELY
GAS TO SURFACE IN 3 MINUTES

Final Blow: GAUGED 28-PSI ON 1 1/4" = 1,539 MCF/DAY

Recovery - Total Feet: 735 — Flush Tool? NO

Rec. — Feet of: GAS TO SURFACE ON INITIAL OPEN

Rec. 735 — Feet of: WATER

Rec. — Feet of:

Rec. — Feet of:

Rec. — Feet of:

BHT 132 °F — Gravity — °API — @ — °F Corrected Gravity — °API

RW 1.4 — @ 65 °F — Chlorides 4800 ppm Recovery — Chlorides 2100 ppm System

(A) Initial Hydrostatic Mud: 2855.6 PSI — AK1 Recorder No. 13309 — Range 4700

(B) First Initial Flow Pressure: 566.2 PSI — @ (depth) 5900 — w / Clock No. 17640

(C) First Final Flow Pressure: 556.2 PSI — AK1 Recorder No. 13339 — Range 4025

(D) Initial Shut-in Pressure: 578.2 PSI — @ (depth) 5905 — w / Clock No. 23934

(E) Second Initial Flow Pressure: 564.2 PSI — AK1 Recorder No. — Range

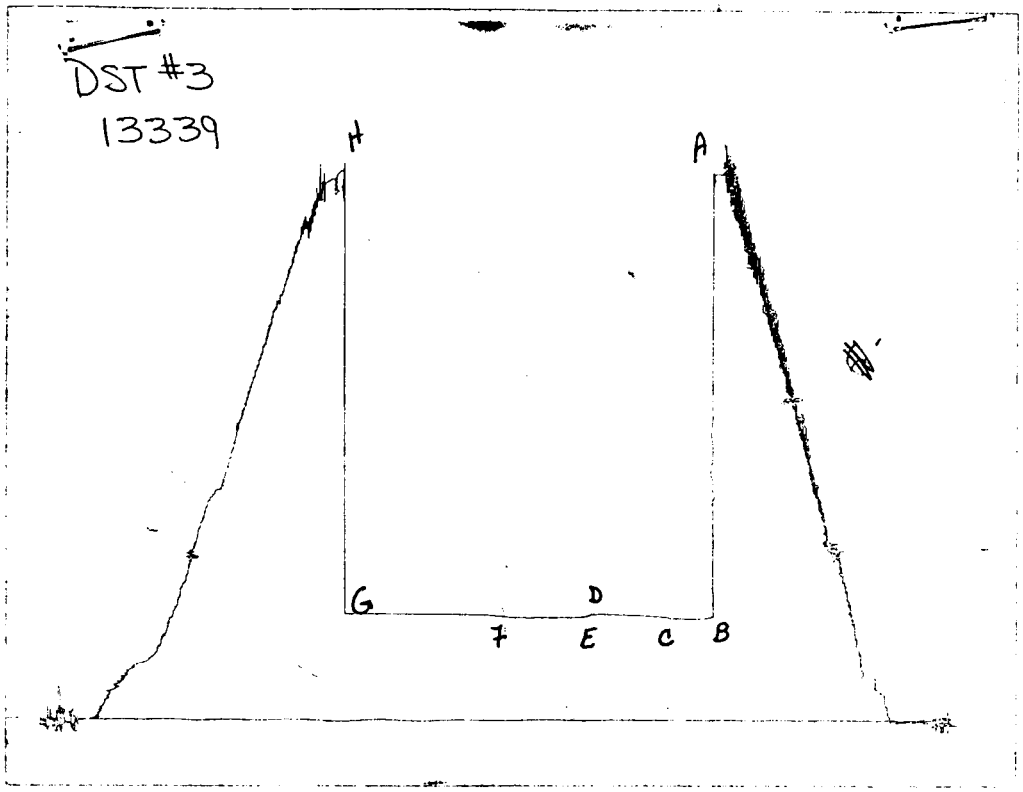
(F) Second Final Flow Pressure: 562.2 PSI — @ (depth) — w / Clock No.

(G) Final Shut-in Pressure: 581.2 PSI — Initial Opening 30 — Final Flow 60

(H) Final Hydrostatic Mud: 2830.9 PSI — Initial Shut-in 60 — Final Shut-in 120

Our Representative: ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2853	2855.6
(B) FIRST INITIAL FLOW PRESSURE	529	566.2
(C) FIRST FINAL FLOW PRESSURE	529	556.2
(D) INITIAL CLOSED-IN PRESSURE	559	578.2
(E) SECOND INITIAL FLOW PRESSURE	539	564.2
(F) SECOND FINAL FLOW PRESSURE	539	562.2
(G) FINAL CLOSED-IN PRESSURE	559	581.2
(H) FINAL HYDROSTATIC MUD	2820	2830.9

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

R.C. TAYLOR COMPANIES, INC.

KANSAS CITY LIFE #2 DST 3

3 35S 31W SEWARD KS

****

ELEVATION:	2691 *KB*	EST. PAY:	6 FT.
DATUM:	-2519	ZONE TESTED:	MORROW
TEST INTERVAL:	5883-5910	TIME INTERVALS:	30-60-60-120
RECORDER DEPTH:	5905	VISCOSITY:	0.01246 CP
BOTTOM HOLE TEMP:	132	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9971	GAS GRAVITY:	0.6846

****

TEMPERATURE RANKINE:	592.00	&
TRANSMISSIBILITY:	151588.35	Kh/%
THEORITICAL FLOW CAPICITY:	1888.40	Kh
AVERAGE EFFECTIVE PERMEABILITY:	314.73	K(md.)
RADIUS OF INVESTIGATION:	168.30	FT.
DAMAGE RATIO:	0.29	
ABSOLUTE OPEN FLOW(MAX)	16962.69	MCFD
ABSOLUTE OPEN FLOW(MIN)	5109.36	MCFD
THEORITICAL OPEN FLOW(MAX)	4978.88	MCFD
THEORITICAL OPEN FLOW(MIN)	1499.70	MCFD
POTENTIOMETRIC SURFACE	-1209.72	(FT.)

****

INITIAL SHUT-IN VALUES:

SLOPE	16607.61
THEORETICAL STATIC PRESSURE	592.39

FINAL SHUT-IN VALUES:

SLOPE	9813.24
THEORETICAL STATIC PRESSURE	589.58

DRAWDOWN FACTOR: 0.47 (%)

INITIAL FLOW

RECORDER 13339 DST # 3

TIME(MIN)	PRESSURE	<>PRESSURE
3	556.2	556.2
6	556.2	0.0
9	558.2	2.0
12	558.2	0.0
15	558.2	0.0
18	556.2	-2.0
21	556.2	0.0
24	556.2	0.0
27	556.2	0.0
30	556.2	0.0

FINAL FLOW

RECORDER 13339 DST # 3

TIME(MIN)	PRESSURE	<> PRESSURE
3	564.2	564.2
6	564.2	0
9	562.2	-2.0
12	562.2	0.0
15	562.2	0.0
18	562.2	0.0
21	562.2	0.0
24	562.2	0.0
27	562.2	0.0
30	562.2	0.0
33	562.2	0.0
36	562.2	0.0
39	562.2	0.0
42	562.2	0.0
45	562.2	0.0
48	562.2	0.0
51	562.2	0.0
54	562.2	0.0
57	562.2	0.0
60	562.2	0.0

INITIAL SHUTIN

KANSAS CITY LIFE #2 DST #3

INITIAL FLOW TIME 30

SLOPE 16607.61 PSI/CYCLE

P* 592.39 PSI

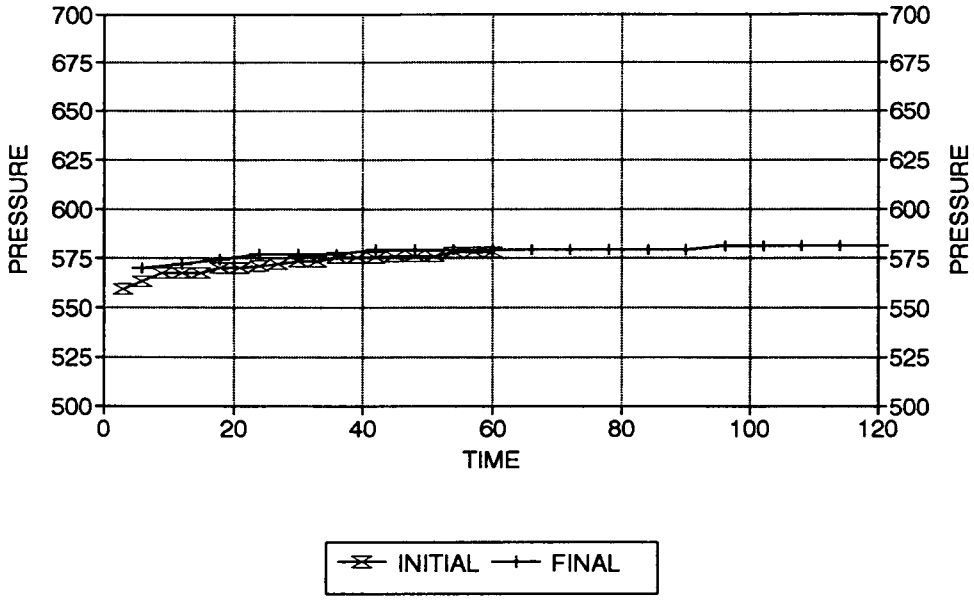
	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	559.2	1.041	559.2	11
	6	563.2	0.778	4.0	6
	9	567.2	0.637	4.0	4
	12	567.2	0.544	0.0	4
	15	567.2	0.477	0.0	3
	18	570.2	0.426	3.0	3
	21	570.2	0.385	0.0	2
	24	571.2	0.352	1.0	2
	27	572.2	0.325	1.0	2
	30	573.2	0.301	1.0	2
	33	573.2	0.281	0.0	2
	36	575.2	0.263	2.0	2
	39	575.2	0.248	0.0	2
	42	575.2	0.234	0.0	2
	45	576.2	0.222	1.0	2
	48	576.2	0.211	0.0	2
X	51	576.2	0.201	0.0	2
	54	578.2	0.192	2.0	2
	57	578.2	0.184	0.0	2
X	60	578.2	0.176	0.0	2

FINAL SHUTIN
KANSAS CITY LIFE #2 DST #3
TOTAL FLOW TIME 90

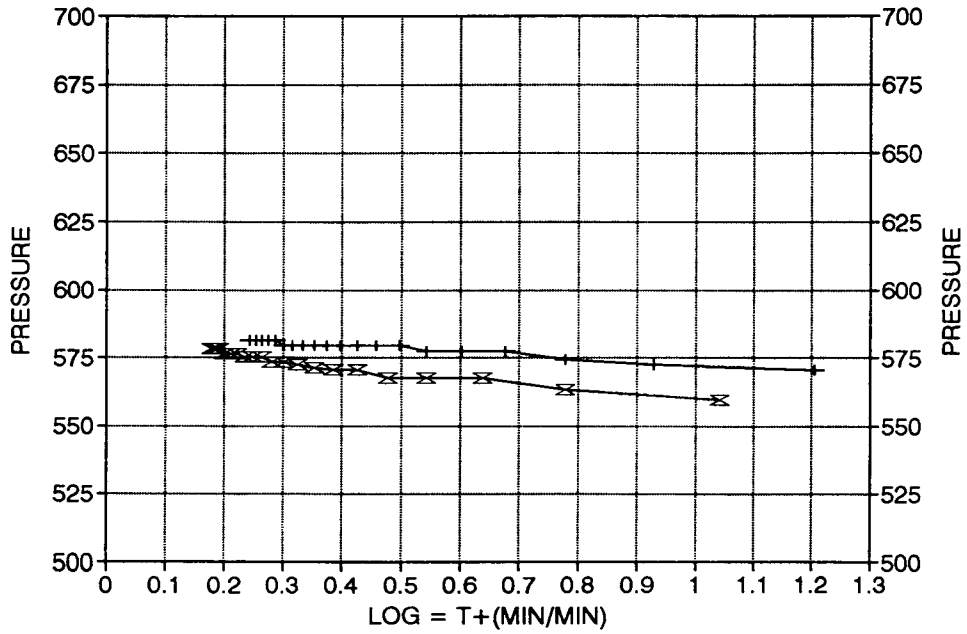
SLOPE 9813.24 PSI/CYCLE
P* 589.58 PSI

	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
	6	570.2	1.204	570.2	16
	12	572.2	0.929	2.0	9
	18	574.2	0.778	2.0	6
	24	577.2	0.677	3.0	5
	30	577.2	0.602	0.0	4
	36	577.2	0.544	0.0	4
	42	579.2	0.497	2	3
	48	579.2	0.459	0.0	3
	54	579.2	0.426	0.0	3
	60	579.2	0.398	0.0	3
	66	579.2	0.374	0.0	2
	72	579.2	0.352	0.0	2
	78	579.2	0.333	0.0	2
	84	579.2	0.316	0.0	2
X	90	579.2	0.301	0.0	2
	96	581.2	0.287	2.0	2
	102	581.2	0.275	0.0	2
	108	581.2	0.263	0.0	2
	114	581.2	0.253	0.0	2
X	120	581.2	0.243	0.0	2

KANSAS CITY LIFE #2 / DST #3
DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

R.C. TAYLOR COMPANIES, INC.

KANSAS CITY LIFE #2 DST # 3

MIN	PSIG	ORIFICE	MCF/D
3	GAS TO SURFACE		
10	56	1	1,509
20	62	1	1,639
30	62	1	1,639

MIN	WATER	ORIFICE	MCF/D
10	27	1.25	1,506
20	28	1.25	1,539
30		1.25	
40	28	1.25	1,539
45	28		MIST

Remarks:

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

R.C. Taylor (OPERATOR) | Kansas City Life #2 (WELL NAME AND NO.) | #3 (DST NO.)

Min.	~~Ins. of Water~~ PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
3	GTS	1"		10	27	1¼"	1506
10	56	〃	1509	20	28	〃	1539
20	62		1639	30			
30	62	1"	1639	40	28	1¼"	1539
				45	28		mist

Remarks:

WELL NAME_____ DST # 3 RECORDER # 13339

INIT. HYD. MUD. 2.873 _____ FINAL HYD. MUD ~~2.909~~ 2.874

INITIAL FLOW MINUTES 30 INTERVAL		INITIAL SHUTIN MINUTES 60 INTERVAL			FINAL FLOW MINUTES 60 INTERVAL		FINAL SHUTIN MINUTES 120 INTERVAL	
.547	566.2	—		1	.545	564.2	—	
.543	562.2	.540	559.2	2	.545		.551	570.2
.539	558.2	.544	563.2	3	.543	562.2	.553	572.2
.539		.548	567.2	4	.543		.555	574.2
.539		.548		5			.558	577.2
.537	556.2	.548		6			.558	
.537		.551	570.2	7			.558	
.537		.551		8			.560	579.2
.537		.552	571.2	9			.560	
.537		.553	572.2	10			.560	
.532		.554	573.2	11				
		.554		12				
		.556	575.2	13				
		.556		14				
		.556		15				
		.557	576.2	16			.560	
		.557		17			.562	581.2
		.557		18	.543			
		.559	578.2	19				
		.559		20	.543			
		.559		21				
		.559		22			.562	
				23				
				24				
				25				
				26				
				27				