TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name: BABCOCK "G" #3 Test No. 1 Date 7/23/94

Company: PICKRELL DRILLING COMPANY, INC. Zone TORONTO

Address: 110 N MARKET #205 WICHITA KS 67202 Elevation 2614 K.B.

Co. Rep./Geo.: BILL KLAVER Cont. PICKRELL #10 Est. Ft. of Pay

Location: Sec. 25 Twp. 16S Rge. 26W Co. NESS State KS

Interval Tested 3863-3898 Drill Pipe Size 4.5 XH

Anchor Length 35 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3858 Drill Collar – 2.25 Ft. Run 180

Bottom Packer Depth 3863 Mud Wt. 8.8 lb/Gal.

Total Depth 3898 Viscosity 43 Filtrate 10.4

Tool Open @ 3:55 P.M Initial Blow WEAK-BUILDING TO 5" FAIR BLOW

Final Blow WEAK - BUILDING TO 5" FAIR BLOW

Recovery - Total Feet 376 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD 100% MUD

Rec. 366 Feet of MUDDY WATER 85% WATER/15% MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 119 °F Gravity °API @ °F Corrected Gravity °API

RW 0.09 @ 79.6 °F Chlorides 80000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 1863.0 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 104.4 PSI @ (depth) 3867 w / Clock No. 25828

(C) First Final Flow Pressure 116.6 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1280.9 PSI @ (depth) 3894 w / Clock No. 26190

(E) Second Initial Flow Pressure 172.2 PSI AK1 Recorder No. Range

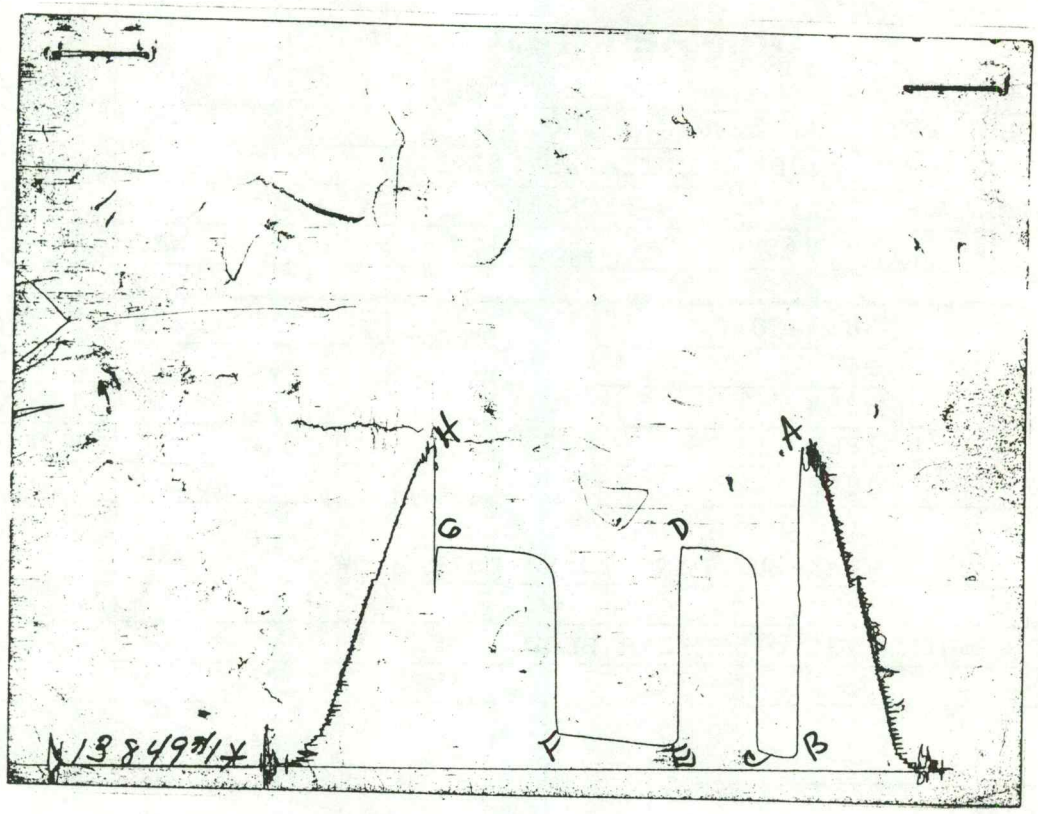
(F) Second Final Flow Pressure 205.5 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1272.1 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 1880.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart 13849

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1895	1863
(B) FIRST INITIAL FLOW PRESSURE	77	104.4
(C) FIRST FINAL FLOW PRESSURE	122	116.6
(D) INITIAL CLOSED-IN PRESSURE	1283	1280.9
(E) SECOND INITIAL FLOW PRESSURE	144	172.2
(F) SECOND FINAL FLOW PRESSURE	200	205.5
(G) FINAL CLOSED-IN PRESSURE	1272	1272.1
(H) FINAL HYDROSTATIC MUD	1852	1880.4

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BABCOCK "G" #3 Test No. 2 Date 7/25/94

Company PICKRELL DRILLING COMPANY, INC. Zone J" L.K.C

Address 110 N MARKET #205 WICHITA KS 67202 Elevation 2614 K.B.

Co. Rep./Geo. BILL KLAVER Cont. PICKRELL #10 Est. Ft. of Pay

Location: Sec. 25 Twp. 16S Rge. 26W Co. NESS State KS

Interval Tested 4120-4145

Anchor Length 25

Top Packer Depth 4115

Bottom Packer Depth 4120

Total Depth 4145

Drill Pipe Size 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run 180

Mud Wt. 8.9 lb/Gal.

Viscosity 47 Filtrate 9.2

Tool Open @ 2:05 A.M Initial Blow WEAK-DIED IN 20 MIN

Final Blow NO BLOW- FLUSHED TOOL-NO HELP

Recovery - Total Feet 65 Flush Tool? NO

Rec. 65 Feet of DRILLING MUD 100% MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 120 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2023.3 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 22.6 PSI @ (depth) 4124 w / Clock No. 8179

(C) First Final Flow Pressure 22.6 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1262.9 PSI @ (depth) 4141 w / Clock No. 25810

(E) Second Initial Flow Pressure 29.5 PSI AK1 Recorder No. Range

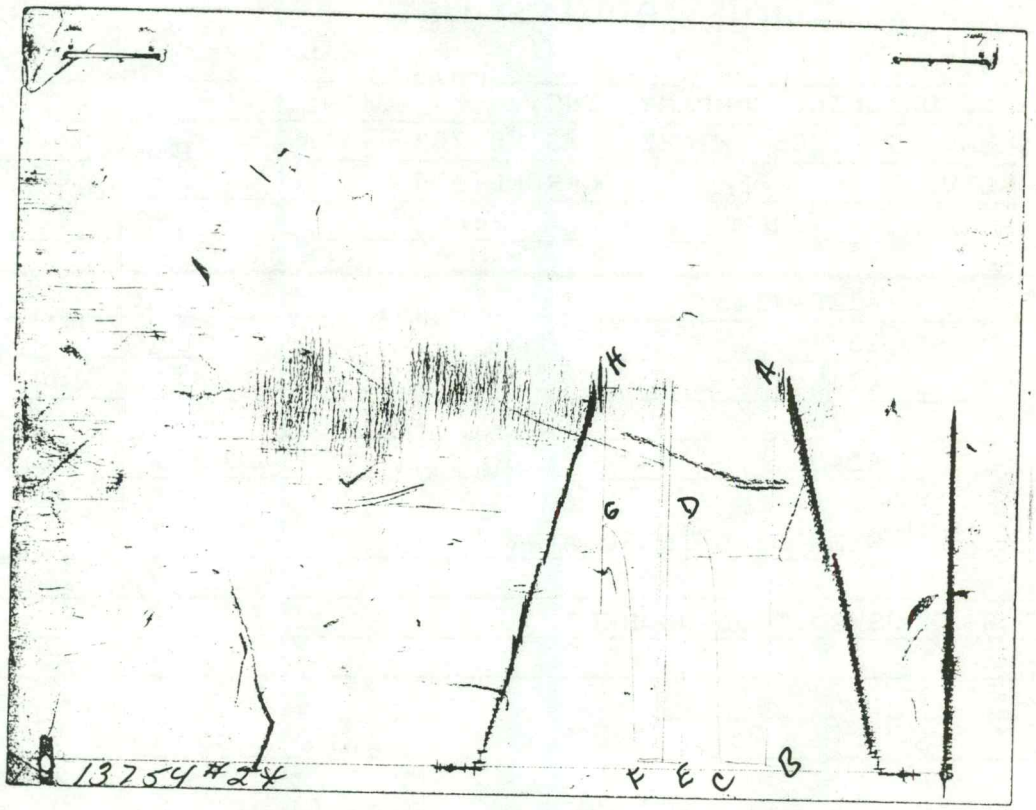
(F) Second Final Flow Pressure 29.5 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1242.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2060.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart 13754

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2087	2023.3
(B) FIRST INITIAL FLOW PRESSURE	29	22.6
(C) FIRST FINAL FLOW PRESSURE	29	22.6
(D) INITIAL CLOSED-IN PRESSURE	1286	1262.9
(E) SECOND INITIAL FLOW PRESSURE	29	29.5
(F) SECOND FINAL FLOW PRESSURE	29	29.5
(G) FINAL CLOSED-IN PRESSURE	1256	1242.9
(H) FINAL HYDROSTATIC MUD	2066	2060.7

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name: BABCOCK "G" #3 Test No. 3 Date 7/26/94

Company: PICKRELL DRILLING COMPANY, INC. Zone FORT SCOTT

Address: 110 N MARKET #205 WICHITA KS 67202 Elevation 2614 K.B.

Co. Rep./Geo.: BILL KLAVER Cont. PICKRELL #10 Est. Ft. of Pay 4

Location: Sec. 25 Twp. 16S Rge. 26W Co. NESS State KS

Interval Tested: 4394-4436

Anchor Length: 42

Top Packer Depth: 4389

Bottom Packer Depth: 4394

Total Depth: 4436

Drill Pipe Size: 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run:

Drill Collar – 2.25 Ft. Run: 180

Mud Wt.: 9.1 lb/Gal.

Viscosity: 41 Filtrate: 11.2

Tool Open @ 9:23 P.M. Initial Blow: STRONG-BOTTOM OF BUCKET IN 1 MIN-GAS TO SURFACE 30 MIN INTO ISI

Final Blow: STRONG-BOTTOM OF BUCKET IN 30 SEC

Recovery - Total Feet: 1675 Flush Tool? NO

Rec. 1365 Feet of CUT GASSY OIL 25 %GAS/75%OIL

Rec. 310 Feet of OIL CUT GASSY MUD 35%GAS/20%OIL/45%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 130 °F Gravity °API @ °F Corrected Gravity 42 °API

RW @ °F Chlorides ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2170.0 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 69.8 PSI @ (depth) 4398 w / Clock No. 8179

(C) First Final Flow Pressure 195.8 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1265.9 PSI @ (depth) 4432 w / Clock No. 25810

(E) Second Initial Flow Pressure 233.2 PSI AK1 Recorder No. Range

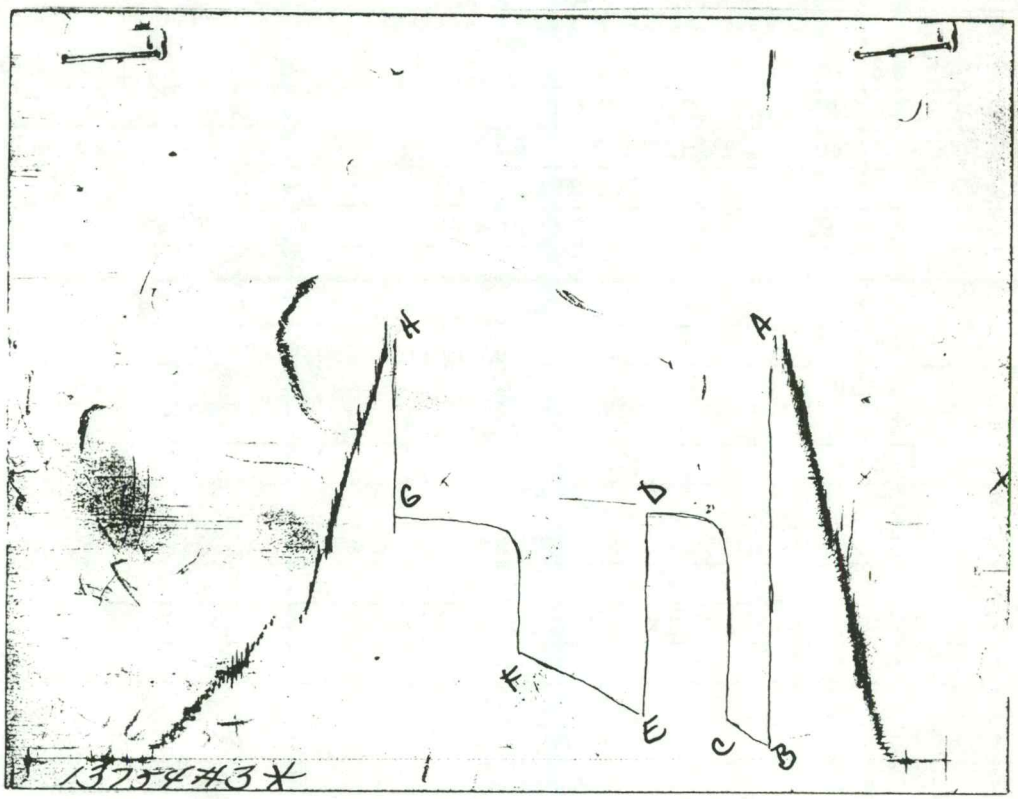
(F) Second Final Flow Pressure 549.4 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1240.9 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2132.5 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart 13754

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2188	2170
(B) FIRST INITIAL FLOW PRESSURE	68	69.8
(C) FIRST FINAL FLOW PRESSURE	196	195.8
(D) INITIAL CLOSED-IN PRESSURE	1276	1265.9
(E) SECOND INITIAL FLOW PRESSURE	226	233.2
(F) SECOND FINAL FLOW PRESSURE	551	549.4
(G) FINAL CLOSED-IN PRESSURE	1236	1240.9
(H) FINAL HYDROSTATIC MUD	2127	2132.5

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

PICKRELL DRILLING COMPANY, INC.

BABCOCK "G" #3 DST 3

25 16S 26W NESS KS

****

ELEVATION:	2614 KB	EST. PAY	4	FT
DATUM:	-1785	ZONE TESTED:	FT SCOTT	
TEST INTERVAL:	4394-4436	TIME INTERVALS:	30-60-90-90	
RECORDER DEPTH:	4398	VISCOSITY:	3.09	CP
BOTTOM HOLE TEMP:	130	HOLE SIZE:	7.875	IN

****

CUBIC FEET OF GAS IN PIPE:	220			
TOTAL FEET OF RECOVERY:	1675.00	CORRECTED PIPE FILLUP:	1551.977	
TOTAL BARRELS OF RECOVERY:	22.14	CORR. BARRELS OF RECOVERY:	20.390	BBL
BARRELS IN DRILL PIPE:	21.26	API GRAVITY:	42	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.354	
BARRELS IN DRILL COLLARS:	0.88			
GAS OIL RATIO:	9.96	CU.FT/BBL		
BUBBLE POINT PRESSURE:	71			
UNCORRECTED INITIAL PRODUCTION:			265.67	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			244.68	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			164.933	

****

INITIAL SLOPE	127.15	PSI/CYCL FINAL SLOPE	98.66	PSI/CYCLE
INITIAL P*	1302.85	PSI FINAL P*	1274.92	PSI

****

TRANSMISSIBILITY	403.25	(MD.-FT./CP.)
PERMEABILITY	311.57	(MD.)
INDICATED FLOW CAPACITY	1246.29	(MD.FT)
PRODUCTIVITY INDEX	0.46	(BARREL/DAY/PSI)
DAMAGE RATIO	1.35	
RADIUS OF INVESTIGATION	193.36	(FT,)
POTENTIOMETRIC SURFACE	1172.54	(FT.)
DRAWDOWN FACTOR	2.144	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	329.27	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	221.96	

INITIAL FLOW

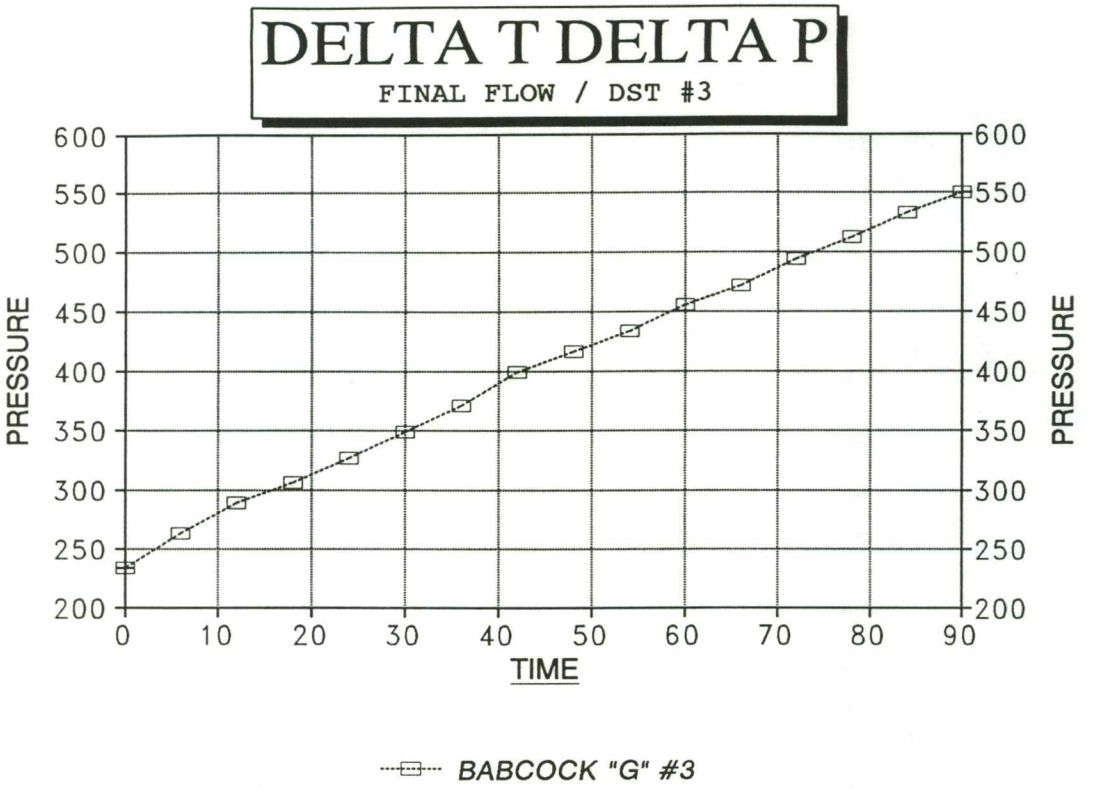
RECORDER 13754 DST # 3

TIME(MIN)	PRESSURE	<>PRESSURE
0	69.8	69.8
3	74.8	5.0
6	78.7	3.9
9	92.5	13.8
12	107.2	14.7
15	118.1	10.9
18	133.8	15.7
21	148.6	14.8
24	164.3	15.7
27	178.1	13.8
30	195.8	17.7
33	179.1	-16.7

FINAL FLOW

RECORDER 13754 DST # 3

TIME(MIN)	PRESSURE	<> PRESSURE
0	233.2	233.2
6	262.7	29.5
12	289.3	26.6
18	306.1	16.8
24	326.7	20.6
30	348.4	21.7
36	371.0	22.6
42	398.6	27.6
48	416.3	17.7
54	433.0	16.7
60	455.7	22.7
66	471.4	15.7
72	494.1	22.7
78	511.8	17.7
84	532.6	20.8
90	549.4	16.8



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 206.084

BABCOCK "G" #3 DST #3
INITIAL SHUTIN

60 INITIAL FLOW TIME

SLOPE 127.15 PSI/CYCLE
P* 1302.85 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	1108.9	1.322	1108.9	21
	6	1159.9	1.041	51.0	11
	9	1189.9	0.885	30.0	8
	12	1207.9	0.778	18.0	6
	15	1216.9	0.699	9.0	5
	18	1225.9	0.637	9.0	4
	21	1231.9	0.586	6.0	4
	24	1236.9	0.544	5.0	4
	27	1241.9	0.508	5.0	3
	30	1244.9	0.477	3.0	3
	33	1248.9	0.450	4.0	3
	36	1251.9	0.426	3.0	3
	39	1253.9	0.405	2.0	3
	42	1255.9	0.385	2.0	2
	45	1256.9	0.368	1.0	2
	48	1257.9	0.352	1.0	2
X	51	1259.9	0.338	2.0	2
	54	1262.9	0.325	3.0	2
	57	1264.9	0.312	2.0	2
	60	1264.9	0.301	0.0	2
X	63	1265.9	0.291	1.0	2

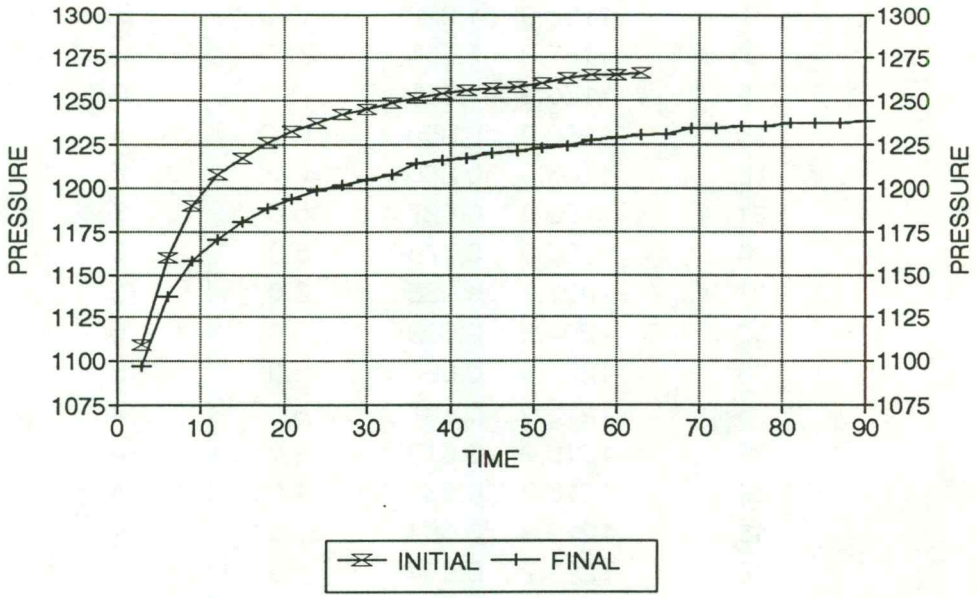
BABCOCK "G" #3 DST #3
FINAL SHUTIN

120 TOTAL FLOW TIME

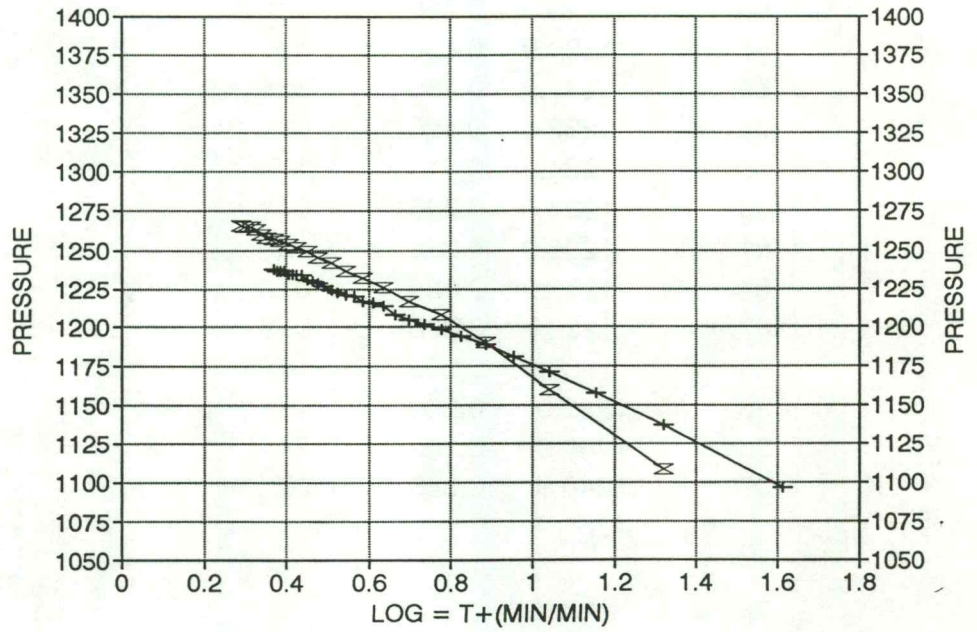
SLOPE 98.66 PSI/CYCLE
P* 1274.92 PSI

	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
	3	1096.9	1.613	1096.9	41
	6	1136.9	1.322	40.0	21
	9	1157.9	1.156	21.0	14
	12	1170.9	1.041	13.0	11
	15	1180.9	0.954	10.0	9
	18	1188.9	0.885	8.0	8
	21	1193.9	0.827	5.0	7
	24	1198.9	0.778	5.0	6
	27	1201.9	0.736	3.0	5
	30	1204.9	0.699	3.0	5
	33	1207.9	0.666	3.0	5
	36	1213.9	0.637	6.0	4
	39	1215.9	0.610	2.0	4
	42	1216.9	0.586	1.0	4
	45	1219.9	0.564	3.0	4
	48	1220.9	0.544	1.0	4
	51	1222.9	0.525	2.0	3
	54	1223.9	0.508	1.0	3
	57	1226.9	0.492	3.0	3
	60	1228.9	0.477	2.0	3
	63	1229.9	0.463	1.0	3
	66	1230.9	0.450	1.0	3
	69	1233.9	0.438	3.0	3
	72	1233.9	0.426	0.0	3
	75	1234.9	0.415	1.0	3
	78	1234.9	0.405	0.0	3
	81	1236.9	0.395	2.0	2
X	84	1236.9	0.385	0.0	2
	87	1236.9	0.376	0.0	2
	90	1237.9	0.368	1.0	2
	93	1238.9	0.360	1.0	2
	96	1240.9	0.352	2.0	2
X	99	1240.9	0.345	0.0	2

BABCOCK "G" #3 DST #3
DELTA T DELTA P



HORNER PLOT

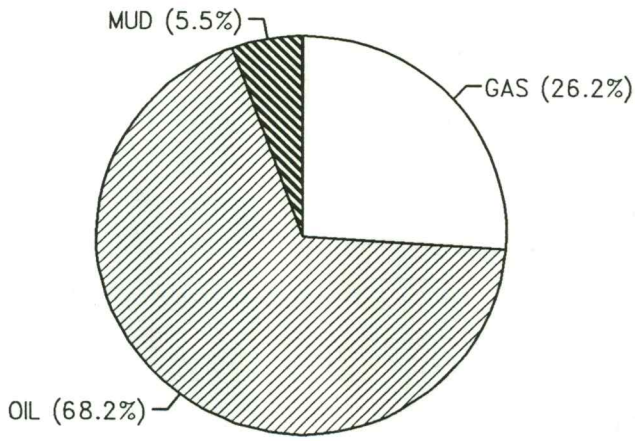


CALCULATED RECOVERY ANALYSIS

DST 3 TICKET # 7126

SAMPLE #	TOTAL FEET	%	GAS FEET	%	OIL FEET	%	WATER FEET	%	MUD FEET
DRILL 1	1365	25	341.25	75	1023.75		0		0
PIPE 2	130	35	45.5	20	26		0	45	58.5
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			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	180	35	63	20	36		0	45	81
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1675		449.75		1085.75		0		139.5

			HRS OPEN	BBL/DAY
BBL OIL=	15.103485	*	2	181.24182
BBL WATER=	0	*		0
BBL MUD=	1.22796			
BBL GAS =	5.807655			



WELL NAME Babcock 'G' #3 DST # 3 RECORDER # 13754

INIT. HYD. MUD. 2.182 2170.0 A FINAL HYD. MUD [redacted] 2132.5 H

INITIAL FLOW MINUTES 30 INTERVAL		INITIAL SHUTIN MINUTES 60 INTERVAL			FINAL FLOW 2.145 MINUTES 90 INTERVAL		FINAL SHUTIN MINUTES 90 INTERVAL	
.071	69.8 B	1.123	1108.9	1	.237	233.2 E	1.111	1096.9
.076	74.8	1.174	1159.9	2	.253	249.0	1.151	1136.9
.080	78.7	1.204	1189.9	3	.267	262.7	1.172	1157.9
.094	92.5	1.222	1207.9	4	.283	278.5	1.185	1170.9
.109	107.2	1.231	1216.9	5	.294	289.3	1.195	1180.9
.120	118.1	1.240	1225.9	6	.306	301.1	1.203	1188.9
.136	133.8	1.246	1231.9	7	.311	306.1	1.208	1193.9
.151	148.6	1.251	1236.9	8	.319	313.9	1.213	1198.9
.167	164.3	1.256	1241.9	9	.332	326.7	1.216	1201.9
.181	178.1	1.259	1244.9	10	.341	335.6	1.219	1204.9
.199	195.8 C	1.263	1248.9	11	.354	348.4	1.222	1207.9
		1.266	1251.9	12	.366	360.2	1.228	1213.9
		1.268	1253.9	13	.377	371.0	1.230	1215.9
		1.270	1255.9	14	.387	380.9	1.231	1216.9
		1.271	1256.9	15	.405	398.6	1.234	1219.9
		1.272	1257.9	16	.414	407.4	1.235	1220.9
		1.274	1259.9	17	.423	416.3	1.237	1222.9
		1.277	1262.9	18	.432	425.1	1.238	1223.9
		1.279	1264.9	19	.440	433.0	1.241	1226.9
		1.279	1264.9 D	20	.451	443.8	1.243	1228.9
		1.280	1265.9	21	.463	455.7	1.244	1229.9
				22	.471	463.5	1.245	1230.9
				23	.479	471.4	1.248	1233.9
				24	.491	483.2	1.248	1233.9
				25	.502	494.1	1.249	1234.9
				26	.511	502.9	1.249	1234.9
				27	.520	511.8	1.251	1236.9
					.529	520.7 F	1.252	1236.9
					.541	532.6	1.251	1236.9
					.548	539.5	1.252	1237.9

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BABCOCK "G" #3 Test No. 4 Date 7/27/94

Company PICKRELL DRILLING COMPANY, INC. Zone MISS

Address 110 N MARKET #205 WICHITA KS 67202 Elevation 2614 K.B.

Co. Rep./Geo. BILL KLAVER Cont. PICKRELL #10 Est. Ft. of Pay 5

Location: Sec. 25 Twp. 16S Rge. 26W Co. NESS State KS

Interval Tested 4468-4494

Anchor Length 26

Top Packer Depth 4463

Bottom Packer Depth 4468

Total Depth 4494

Drill Pipe Size 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run 180

Mud Wt. 8.9 lb/Gal.

Viscosity 46 Filtrate 9.6

Tool Open @ 6:55 P.M. Initial Blow WEAK-BUILIDING TO 6" FAIR BLOW

Final Blow WEAK-BUILDING TO 1" FAIR BLOW

Recovery - Total Feet 304 Flush Tool? NO

Rec. 372 Feet of GAS IN PIPE

Rec. 124 Feet of CUT GASSY OIL 1-% GAS/90% OIL

Rec. 180 Feet of MUD CUT GASSY OIL 10% GAS/65% OIL/25% MUD

Rec. Feet of

Rec. Feet of

BHT 120 °F Gravity °API @ °F Corrected Gravity 39 °API

RW @ °F Chlorides ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2180.1 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 8.8 PSI @ (depth) 4472 w / Clock No. 8179

(C) First Final Flow Pressure 57.0 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 815.2 PSI @ (depth) 4490 w / Clock No. 25810

(E) Second Initial Flow Pressure 60.0 PSI AK1 Recorder No. Range

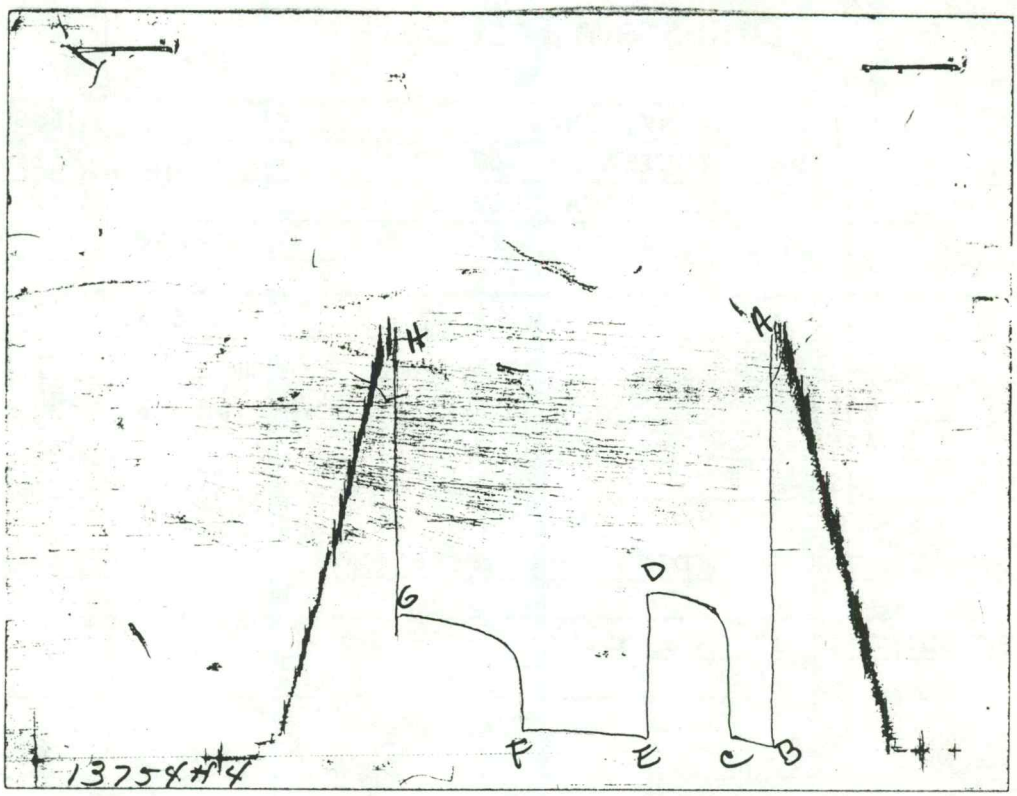
(F) Second Final Flow Pressure 105.3 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 710.4 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2164.9 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart 13754

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2218	2180.1
(B) FIRST INITIAL FLOW PRESSURE	19	8.8
(C) FIRST FINAL FLOW PRESSURE	59	57
(D) INITIAL CLOSED-IN PRESSURE	818	815.2
(E) SECOND INITIAL FLOW PRESSURE	78	60
(F) SECOND FINAL FLOW PRESSURE	108	105.3
(G) FINAL CLOSED-IN PRESSURE	719	710.4
(H) FINAL HYDROSTATIC MUD	2178	2164.9

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

PICKRELL DRILLING COMPANY, INC.

BABCOCK "G" #3 DST 4

25 16S 26W NESS KS

ELEVATION:	2614	KB	EST. PAY	5	FT
DATUM:	-1859		ZONE TESTED:	MISS	
TEST INTERVAL:	4468-4494		TIME INTERVALS:	30-60-90-90	
RECORDER DEPTH:	4472		VISCOSITY:	3.93	CP
BOTTOM HOLE TEMP:	120		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	30			
TOTAL FEET OF RECOVERY:	304.00	CORRECTED PIPE FILLUP:	293.315	
TOTAL BARRELS OF RECOVERY:	2.64	CORR. BARRELS OF RECOVERY:	2.491	BBL
BARRELS IN DRILL PIPE:	1.76	API GRAVITY:	39	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.359	
BARRELS IN DRILL COLLARS:	0.88			
GAS OIL RATIO:	11.24	CU.FT/BBL		
BUBBLE POINT PRESSURE:	85			
UNCORRECTED INITIAL PRODUCTION:			31.72	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			29.90	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			24.679	

INITIAL SLOPE	252.19	PSI/CYCL	FINAL SLOPE	282.51	PSI/CYCLE
INITIAL P*	891.12	PSI	FINAL P*	809.89	PSI

TRANSMISSIBILITY	17.21	(MD.-FT./CP.)
PERMEABILITY	13.51	(MD.)
INDICATED FLOW CAPACITY	67.54	(MD.FT)
PRODUCTIVITY INDEX	0.02	(BARREL/DAY/PSI)
DAMAGE RATIO	0.46	
RADIUS OF INVESTIGATION	40.26	(FT,)
POTENTIOMETRIC SURFACE	20.14	(FT.)
DRAWDOWN FACTOR	9.115	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	0.00	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	0.00	

INITIAL FLOW

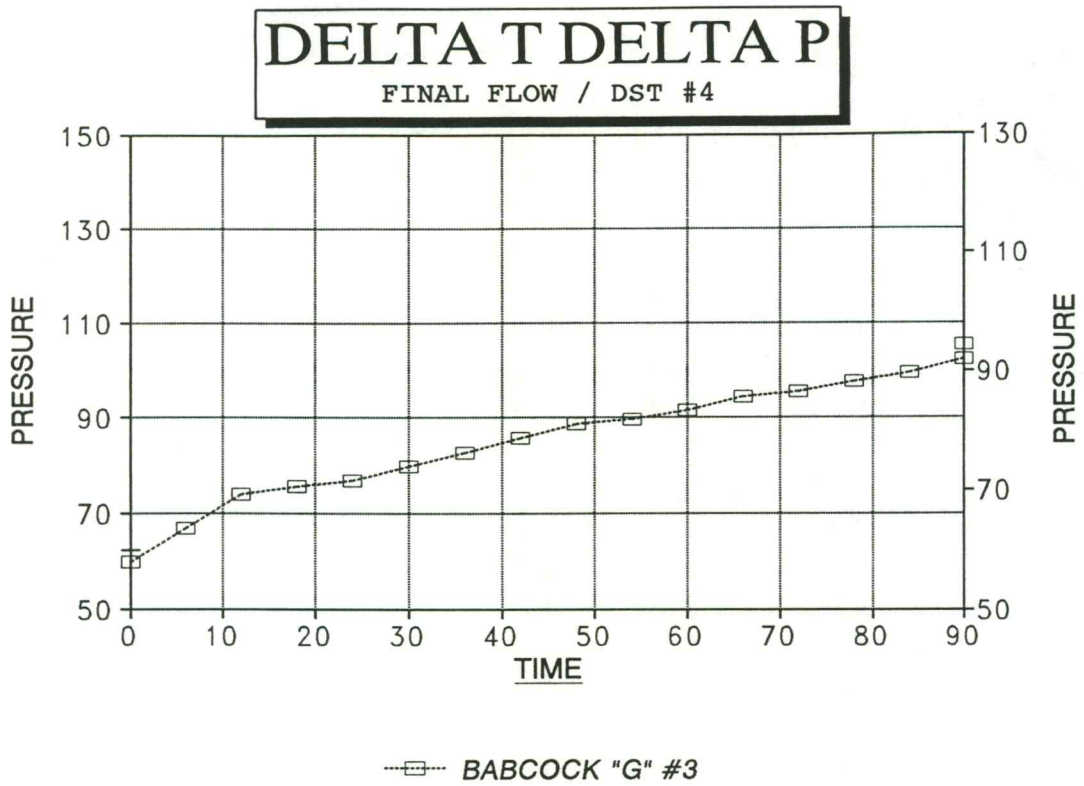
RECORDER 13754 DST # 4

TIME(MIN)	PRESSURE	<>PRESSURE
0	8.8	69.8
3	11.8	5.0
6	14.7	3.9
9	18.7	13.8
12	25.5	14.7
15	29.5	10.9
18	34.4	15.7
21	39.3	14.8
24	44.2	15.7
27	48.2	13.8
30	52.1	17.7
33	57.0	-16.7

FINAL FLOW

RECORDER 13754 DST # 4

TIME(MIN)	PRESSURE	<> PRESSURE
0	60.0	233.2
6	66.9	29.5
12	73.8	26.6
18	75.7	16.8
24	76.7	20.6
30	79.7	21.7
36	82.6	22.6
42	85.6	27.6
48	88.5	17.7
54	89.5	16.7
60	91.5	22.7
66	94.4	15.7
72	95.4	22.7
78	97.4	17.7
84	99.4	20.8
90	102.3	16.8
96	105.3	-133.1



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 24.679

BABCOCK "G" #3 DST #4
INITIAL SHUTIN

60 INITIAL FLOW TIME

SLOPE 252.19 PSI/CYCLE
P* 891.12 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	605.7	1.322	605.7	21
	6	655.1	1.041	49.4	11
	9	681.8	0.885	26.7	8
	12	704.5	0.778	22.7	6
	15	720.3	0.699	15.8	5
	18	734.1	0.637	13.8	4
	21	744.0	0.586	9.9	4
	24	753.9	0.544	9.9	4
	27	762.8	0.508	8.9	3
	30	768.7	0.477	5.9	3
	33	776.6	0.450	7.9	3
	36	781.6	0.426	5.0	3
	39	787.5	0.405	5.9	3
	42	794.4	0.385	6.9	2
	45	798.4	0.368	4.0	2
X	48	802.3	0.352	3.9	2
	51	804.3	0.338	2.0	2
	54	808.2	0.325	3.9	2
	57	810.2	0.312	2.0	2
X	60	815.2	0.301	5.0	2

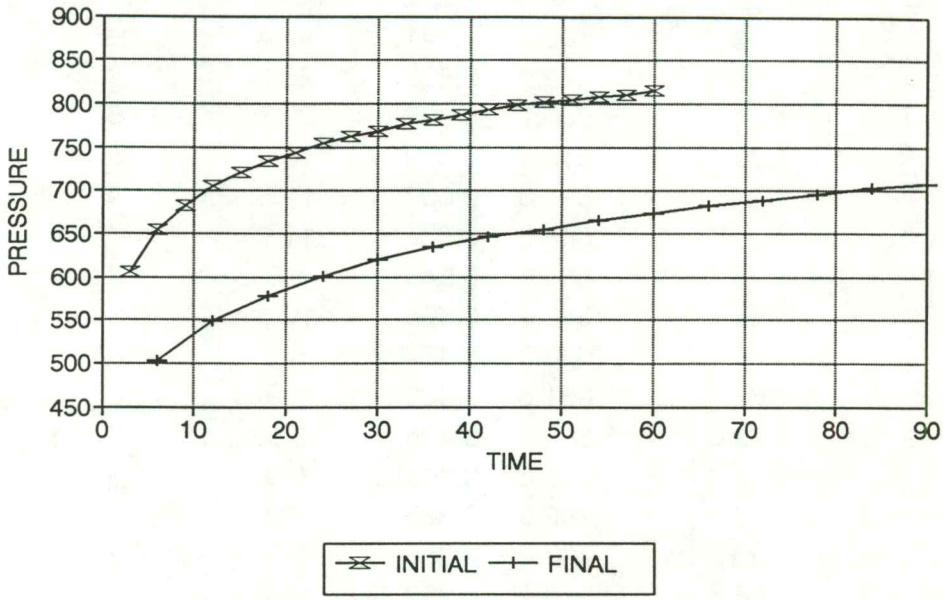
BABCOCK "G" #3 DST #4
FINAL SHUTIN

120 TOTAL FLOW TIME

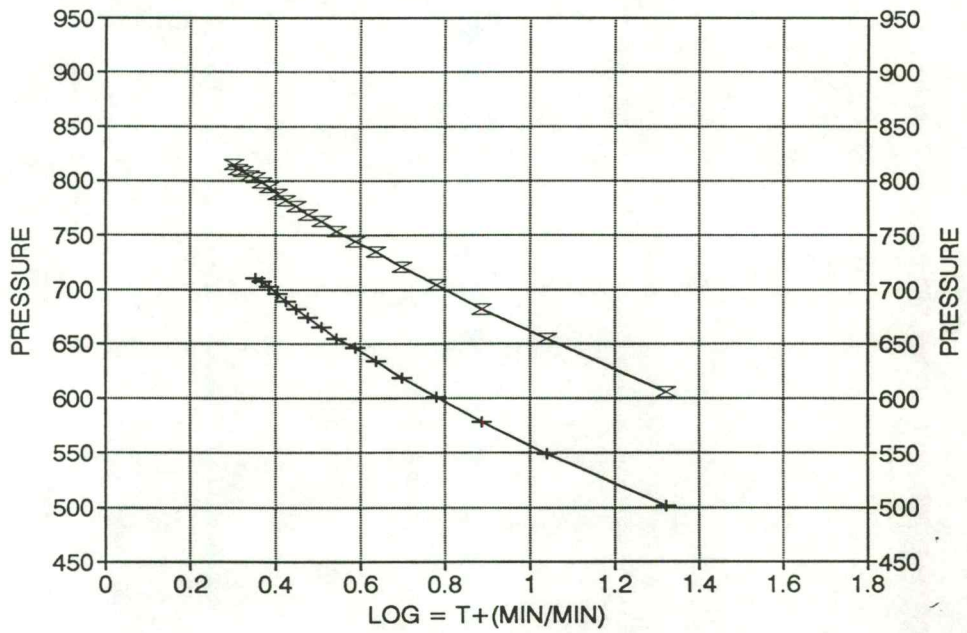
SLOPE 282.51 PSI/CYCLE
P* 809.89 PSI

	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
	6	502.0	1.322	502.0	21
	12	549.4	1.041	47.4	11
	18	578.0	0.885	28.6	8
	24	600.7	0.778	22.7	6
	30	619.5	0.699	18.8	5
	36	634.3	0.637	14.8	4
	42	646.2	0.586	11.9	4
	48	655.1	0.544	8.9	4
	54	665.9	0.508	10.8	3
	60	673.9	0.477	8.0	3
	66	681.8	0.450	7.9	3
	72	688.7	0.426	6.9	3
	78	695.6	0.405	6.9	3
X	84	702.5	0.385	6.9	2
	90	707.5	0.368	5.0	2
X	96	710.4	0.352	2.9	2

BABCOCK "G" #3 DST #4
DELTA T DELTA P



HORNER PLOT

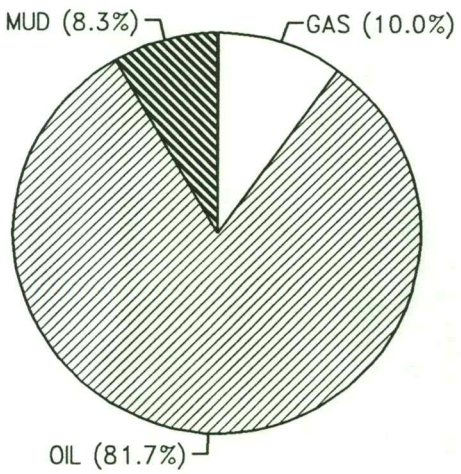


CALCULATED RECOVERY ANALYSIS

DST 4 TICKET # 7127

SAMPLE #	TOTAL FEET		GAS FEET	%	OIL FEET	%	WATER FEET	%	MUD FEET
DRILL 1	124	10	12.4	90	111.6		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			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	180	10	18	65	117		0	25	45
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	304		30.4		228.6		0		45

			HRS OPEN	BBL/DAY
BBL OIL=	2.159082	*	2	25.908984
BBL WATER=	0	*		0
BBL MUD=	0.22005			
BBL GAS =	0.264348			



Pickrell

WELL NAME BABCOCK "6" #3 DST # 4 RECORDER # 13754

INIT. HYD. MUD 2192 2180.1 A FINAL HYD. MUD 2177 2164.9 H

NITIAL FLOW INUTES 30 NTERVAL 3 min		INITIAL SHUTIN MINUTES 60 INTERVAL 3 min			FINAL FLOW MINUTES 90 INTERVAL 6 MIN.		FINAL SHUTIN MINUTES 90 INTERVAL 6 min.	
.009	8.8 B	.615	605.7	1	.061	60.0 E	.510	502.0
.012	11.8	.665	655.1	2	.068	66.9	.558	549.4
.015	14.7	.692	681.8	3	.075	73.8	.587	578.0
.019	18.7	.715	704.5	4	.077	75.7	.610	600.7
.026	25.5	.731	720.3	5	.078	76.7	.629	619.5
.030	29.5	.745	734.1	6	.081	79.7	.644	634.3
.035	34.4	.755	744.0	7	.084	82.6	.656	646.2
.040	39.3	.765	753.9	8	.087	85.6	.665	655.1
.045	44.2	.774	762.8	9	.090	88.5	.676	665.9
.049	48.2	.780	768.7	10	.091	89.5	.684	673.9
.053	52.1	.788	776.6	11	.093	91.5	.692	681.8
.058	57.0 C	.793	781.6	12	.096	94.4	.699	688.7
		.799	787.5	13	.097	95.4	.706	695.6
		.806	794.4	14	.099	97.4	.713	702.5
		.810	798.4	15	.101	99.4	.718	707.5
		.814	802.3	16	.104	102.3	.721	710.4 G
		.816	804.3	17	.107	105.3 F		
		.820	808.2	18				
		.822	810.2	19				
		.829	815.2 D	20				
				21				
				22				
				23				
				24				
				25				
				26				
				27				