

ORIGINAL

KCC

JUN 1 5

CONFIDENTIAL

DRILLSTEM TESTS

Longwood Farms #3-3  
Sec. 3-29S-33W  
Haskell County, Kansas

API#15-081-20776

**CONFIDENTIAL**

DST #1 (4619'-4643')  
15(30)60(120)

BLOW: Very weak.  
BLOW: No blow.  
IH: 2308  
IFP: 64/75  
ISIP: 1326  
FFP: 75/75  
FSIP: 1000  
FH: 2260  
T: 106  
REC: 20' drilling mud with no show.

DST #2 (5375'-5395')  
15(30)60(120)

BLOW: Strong blow off bottom of bucket in 30 seconds.  
BLOW: Strong blow immediately with GTS in 15 minutes. (see rate below)  
IH: 2604  
IFP: 86/118  
ISIP: 1166  
FFP: 150/224  
FSIP: 1196  
FH: 2492  
T: 131  
REC: 674' clean gassy oil + 174' gassy mud cut oil (60% oil,, 25% gas, 15% mud).

Gas to surface:

<u>TIME</u>	<u>MCFPD</u>
20	22.5
30	19.5
40	17.4
50	15.9
60	15.1

RELEASED

JUL 2 6 1995

FROM CONFIDENTIAL

RECEIVED  
STATE CORPORATION COMMISSION

JUN 1 6 1993

CONSERVATION DIVISION  
Wichita, Kansas

DST #3 (5399'-5410')  
15(30)120(120)

BLOW: Strong blow, bottom of bucket in 7 minutes.  
BLOW: Strong blow, bottom of bucket in 4 minutes.  
IH: 2604  
IFP: 54/65  
ISIP: 1216  
FFP: 76/224  
FSIP: 1216  
FH: 2472  
T: 131  
REC: 3690' gas in pipe + 546' clean gassy oil.

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name LONGWOOD FARMS #3 Test No. 1 Date 2/25/93  
Company BEREXCO INC Zone KS CITY "A"  
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2970  
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO RIG #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 29S Rge. 33W Co. HASKELL State KS

Interval Tested 4619-4643 Drill Pipe Size 4.5" XH  
Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4614 Drill Collar - 2.25 Ft. Run 606  
Bottom Packer Depth 4619 Mud Wt. 9 lb/Gal.  
Total Depth 4643 Viscosity 48 Filtrate 8

Tool Open @ 7:10 AM Initial Blow SURFACE BLOW BUILT TO 1/2"

Final Blow NO BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of DRILLING MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 106 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2100 ppm System

(A) Initial Hydrostatic Mud 2311.6 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 65.7 PSI @ (depth) 4624 w / Clock No. 27594

(C) First Final Flow Pressure 70.2 PSI AK1 Recorder No. 1055 Range 4100

(D) Initial Shut-in Pressure 1322.9 PSI @ (depth) 4640 w / Clock No. 3942

(E) Second Initial Flow Pressure 71.3 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

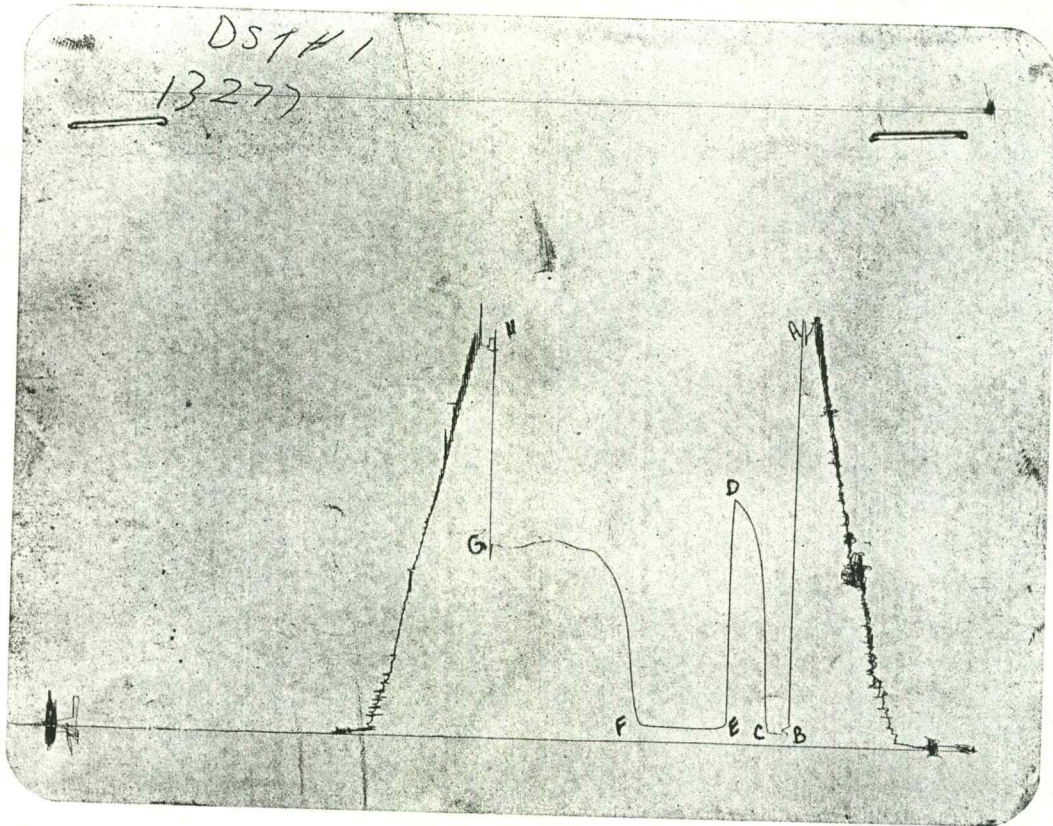
(F) Second Final Flow Pressure 71.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1005.8 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 2265.7 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative TOM HORACEK

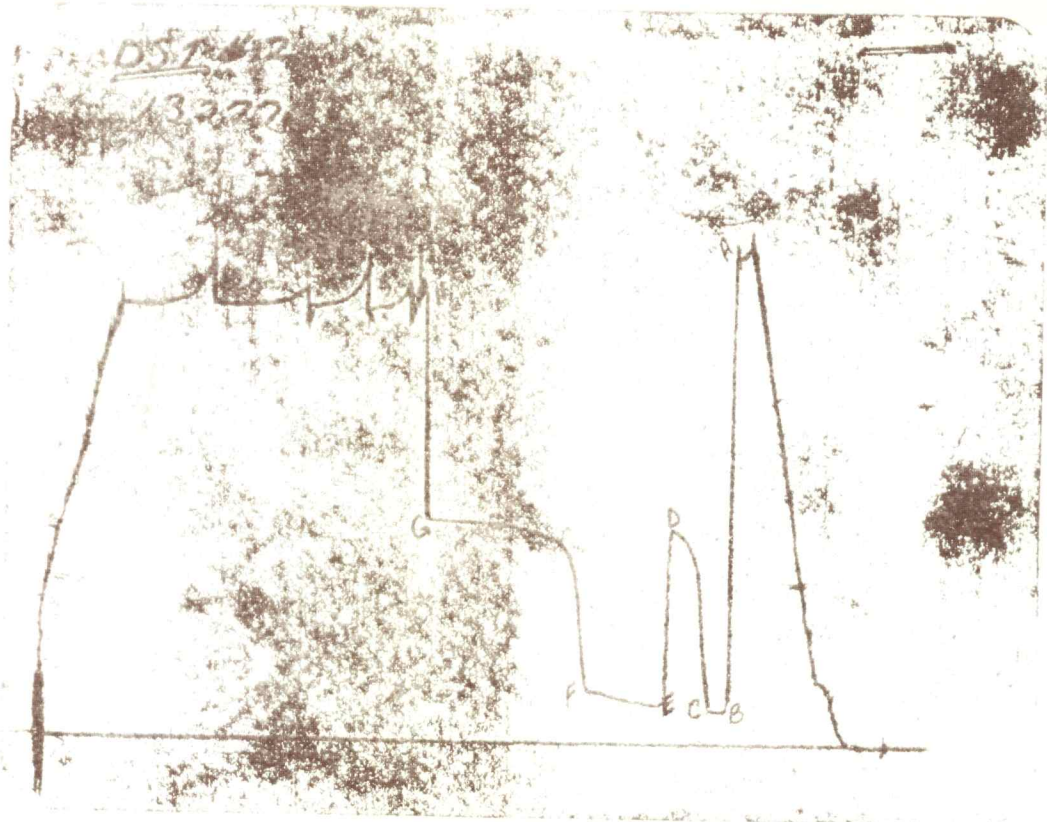
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2308	2311.6
(B) FIRST INITIAL FLOW PRESSURE	64	65.7
(C) FIRST FINAL FLOW PRESSURE	75	70.2
(D) INITIAL CLOSED-IN PRESSURE	1326	1322.9
(E) SECOND INITIAL FLOW PRESSURE	75	71.3
(F) SECOND FINAL FLOW PRESSURE	75	71.3
(G) FINAL CLOSED-IN PRESSURE	1000	1005.8
(H) FINAL HYDROSTATIC MUD	2260	2265.7

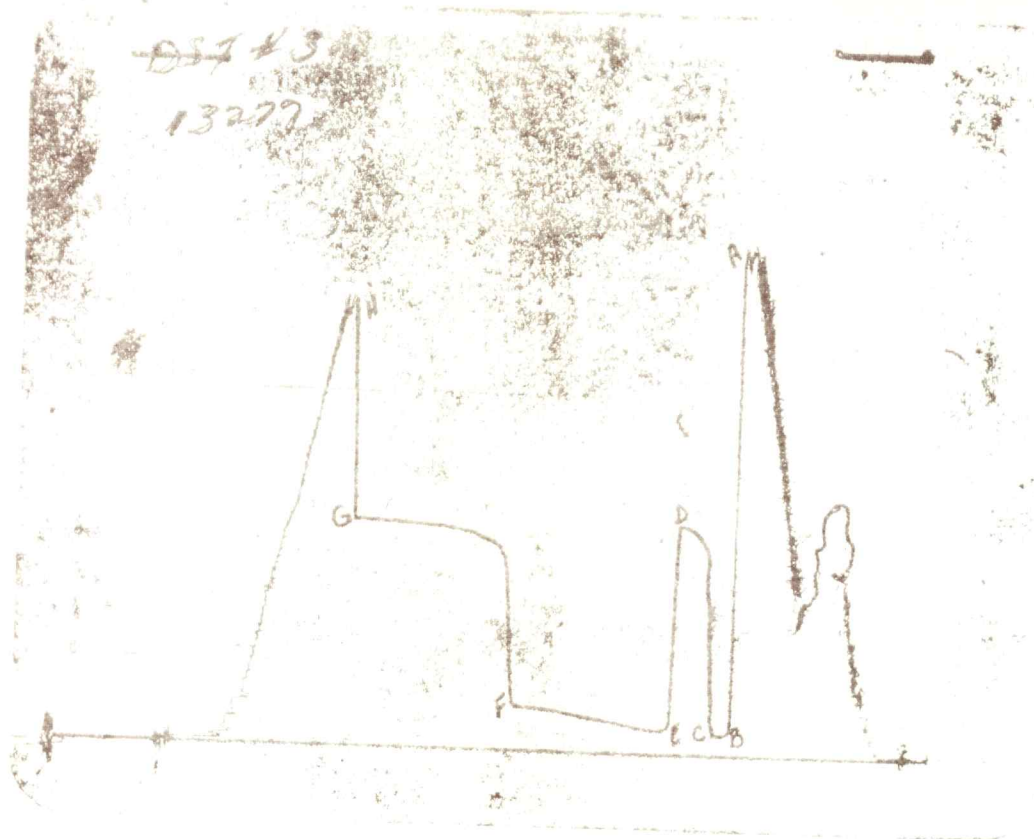
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2604	2612.8
(B) FIRST INITIAL FLOW PRESSURE	86	93.2
(C) FIRST FINAL FLOW PRESSURE	118	132.6
(D) INITIAL CLOSED-IN PRESSURE	1166	1164.7
(E) SECOND INITIAL FLOW PRESSURE	150	147.5
(F) SECOND FINAL FLOW PRESSURE	224	220.1
(G) FINAL CLOSED-IN PRESSURE	1196	1180.8
(H) FINAL HYDROSTATIC MUD	2492	2478.2

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2604	2629.1
(B) FIRST INITIAL FLOW PRESSURE	54	67.4
(C) FIRST FINAL FLOW PRESSURE	65	71.7
(D) INITIAL CLOSED-IN PRESSURE	1216	1219.9
(E) SECOND INITIAL FLOW PRESSURE	76	93.2
(F) SECOND FINAL FLOW PRESSURE	224	204.3
(G) FINAL CLOSED-IN PRESSURE	1216	1205.9
(H) FINAL HYDROSTATIC MUD	2472	2433.3

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name LONGWOOD FARMS #3 Test No. 2 Date 2/27/93  
Company BEREXCO INC Zone MORROW  
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2970  
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO RIG #1 Est. Ft. of Pay 9  
Location: Sec. 3 Twp. 29S Rge. 33W Co. HASKELL State KS

Interval Tested 5375-5395 Drill Pipe Size 4.5" XH  
Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 5370 Drill Collar - 2.25 Ft. Run 606  
Bottom Packer Depth 5375 Mud Wt. 9.1 lb/Gal.  
Total Depth 5395 Viscosity 56 Filtrate 7.2

Tool Open @ 11:55 PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 30 SECONDS  
ISI: bled off blow - weak blow - built to 6"  
Final Blow BOTTOM OF BUCKET AS TOOL OPENED - GAS TO SURFACE IN 15 MINUTES  
FSI: bled off blow - weak blow - built to 10"/GAUGED @15.1 MCF/DAY

Recovery - Total Feet 848 Flush Tool? NO

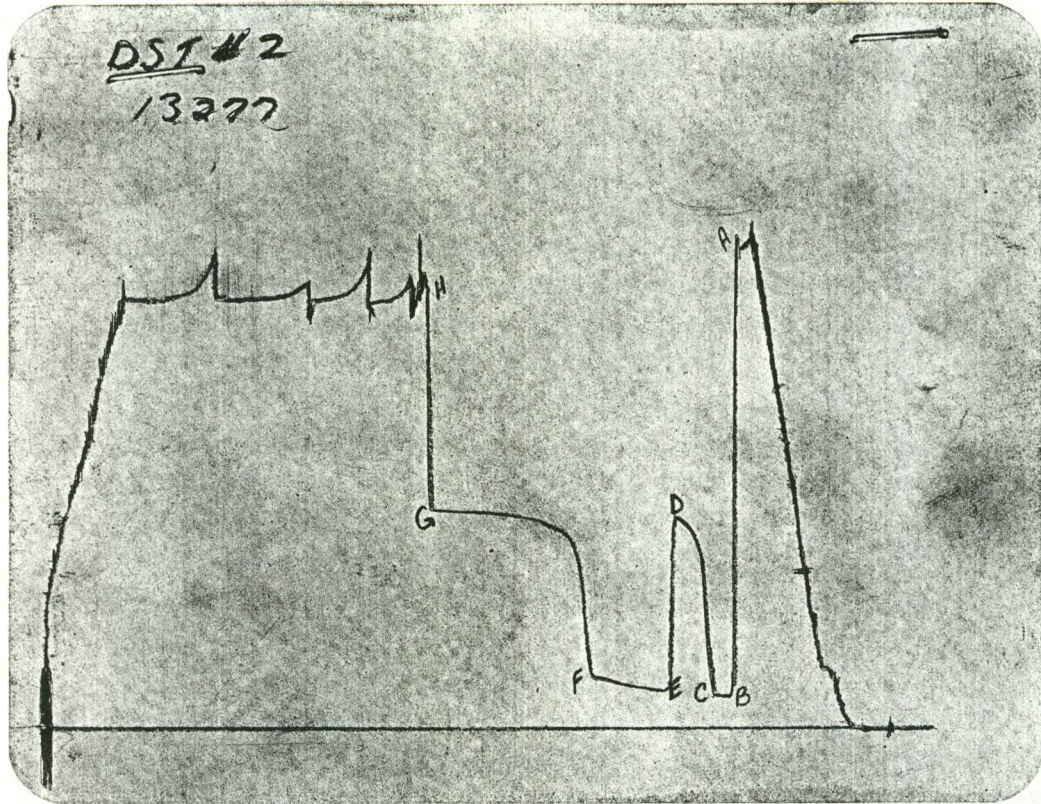
Rec. 674 Feet of CLEAN GASSY OIL-40%GAS/60%OIL  
Rec. 174 Feet of GASSY MUD CUT OIL-25%GAS / 60% OIL/ 15% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 131 °F Gravity 29 °API @ 64 °F Corrected Gravity 28.8 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2612.8 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 93.2 PSI @ (depth) 5379 w / Clock No. 25813  
(C) First Final Flow Pressure 132.6 PSI AK1 Recorder No. 1055 Range 4100  
(D) Initial Shut-in Pressure 1164.7 PSI @ (depth) 5392 w / Clock No. 27585  
(E) Second Initial Flow Pressure 147.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 220.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 1180.8 PSI Initial Opening 15 Final Flow 60  
(H) Final Hydrostatic Mud 2478.2 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

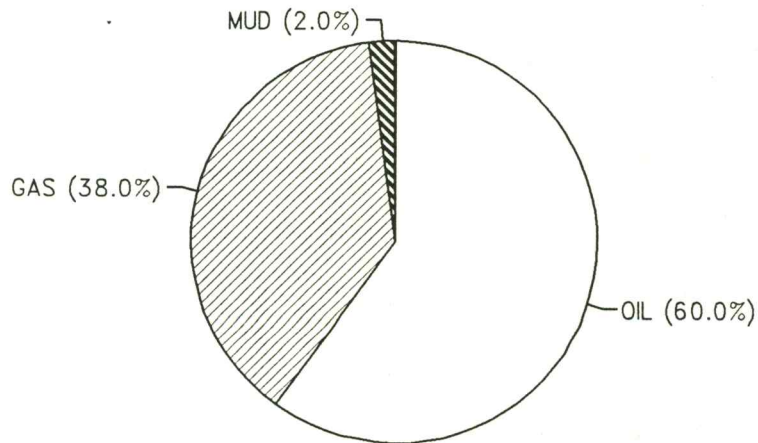
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2604	2612.8
(B) FIRST INITIAL FLOW PRESSURE	86	93.2
(C) FIRST FINAL FLOW PRESSURE	118	132.6
(D) INITIAL CLOSED-IN PRESSURE	1166	1164.7
(E) SECOND INITIAL FLOW PRESSURE	150	147.5
(F) SECOND FINAL FLOW PRESSURE	224	220.1
(G) FINAL CLOSED-IN PRESSURE	1196	1180.8
(H) FINAL HYDROSTATIC MUD	2492	2478.2

CALCULATED RECOVERY ANALYSIS

DST # 2 TICKET # 5656

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	242	40	96.8	60	145.2	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
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	432	40	172.8	60	259.2	0	0	0	0
COLLAR 2	174	25	43.5	60	104.4	0	0	15	26.1
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	848		313.1		508.8		0		26.1

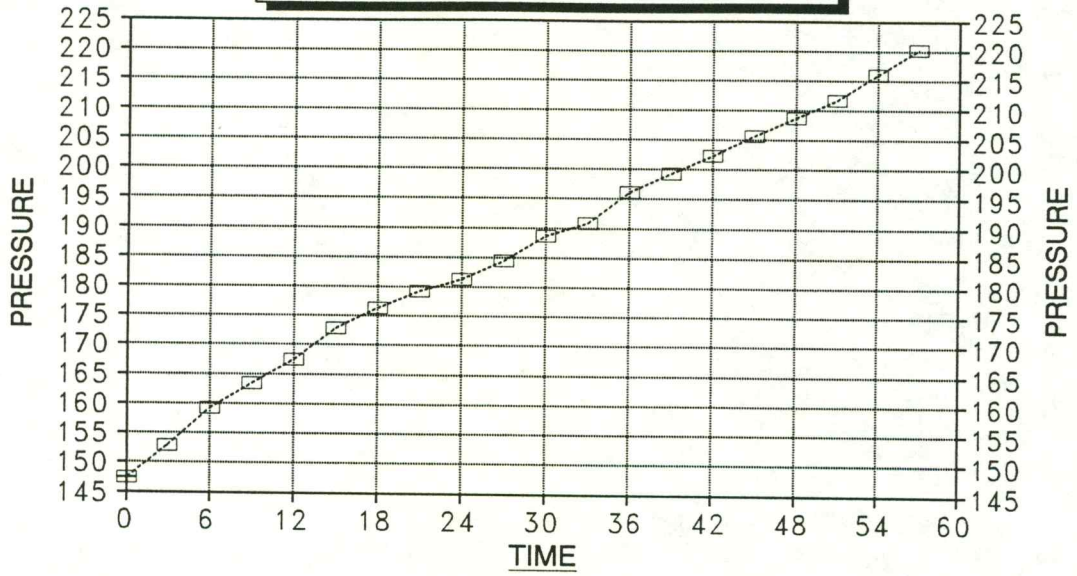
		HRS OPEN	BBL/DAY
BBL OIL=	3.842748 *	1.25	73.780762
BBL WATER=	0 *		0
BBL MUD=	0.127629		
BBL GAS =	2.434203		





# DELTA T DELTA P

FINAL FLOW - DST #2



---□--- LONGWOOD FARMS #3

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

67.494

INITIAL FLOW

RECORDER # 1055

DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
-----	-----	-----
0	93.2	93.2
3	98.5	5.3
6	101.7	3.2
9	109.2	7.5
12	118.8	9.6
15	132.6	13.8

FINAL FLOW

RECORDER # 1055

DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
-----	-----	-----
0	147.5	147.5
3	152.7	5.2
6	159.1	6.4
9	163.3	4.2
12	167.5	4.2
15	172.7	5.2
18	176.2	3.5
21	179.1	2.9
24	181.2	2.1
27	184.4	3.2
30	188.6	4.2
33	190.7	2.1
36	196	5.3
39	199.1	3.1
42	202.2	3.1
45	205.4	3.2
48	208.5	3.1
51	211.7	3.2
54	215.9	4.2
57	220.1	4.2

LONGWOOD  
INITIAL

DST #2  
SHUTIN

15 TOTAL FLOW TIME Slope 506.51 psi/cycle  
P \* 1254 psi

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Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	261.9	0.778	261.9	6
6	497.1	0.544	235.2	4
9	780.0	0.426	282.9	3
12	975.9	0.352	195.9	2
15	1054.2	0.301	78.3	2
18	1100.4	0.263	46.2	2
21	1131.5	0.234	31.1	2
24	1144.6	0.211	13.1	2
X 27	1156.7	0.192	12.1	2
X 30	1164.7	0.176	8.0	2

LONGWOOD  
FINAL

DST #2  
SHUTIN

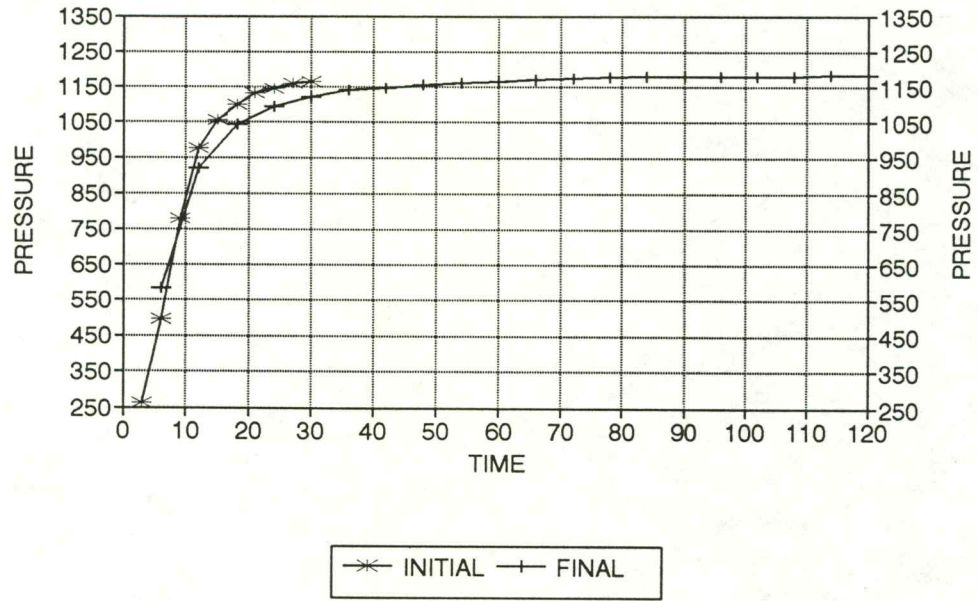
75 TOTAL FLOW TIME Slope 50.16 psi/cycle  
P \* 1191 psi

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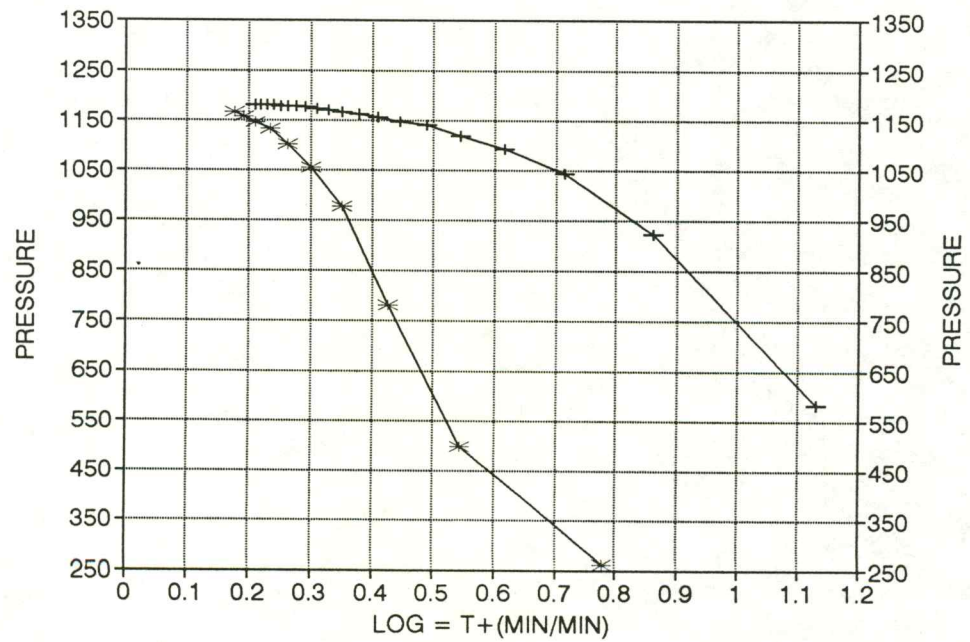
Log <>

	Pws (psi)	Horn T	PRESSURE	Horn T
6	583.3	1.130	583.3	14
12	921.6	0.860	338.3	7
18	1043.2	0.713	121.6	5
24	1092.4	0.615	49.2	4
30	1118.5	0.544	26.1	4
36	1140.6	0.489	22.1	3
42	1147.6	0.445	7.0	3
48	1155.7	0.409	8.1	3
54	1161.7	0.378	6.0	2
60	1164.7	0.352	3.0	2
66	1169.7	0.330	5.0	2
72	1172.8	0.310	3.1	2
78	1176.8	0.293	4.0	2
84	1177.8	0.277	1.0	2
90	1178.8	0.263	1.0	2
X 96	1178.8	0.251	0.0	2
102	1179.8	0.239	1.0	2
108	1179.8	0.229	0.0	2
114	1180.8	0.220	1.0	2
X 120	1180.8	0.211	0.0	2

# LONGWOOD FARMS #3 / DST #2 DELTA T DELTA P



# HORNER PLOT



# GAS VOLUME REPORT

BEREXCO INC

LONGWOOD FARMS #3

DST # 2

MIN	PSIG	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
				20	40	0.375	22.5
				30	30	0.375	19.5
				40	24	0.375	17.4
				50	20	0.375	15.9
				60	18	0.375	15.1

GAS TO SURFACE IN 15 MINUTES / 2nd OPENING

Remarks: GAS WILL BURN





DST 2

ISI

1	0.246	261.9009
2	0.475	497.1368
3	0.755	780.0402
4	0.95	975.9609
5	1.028	1054.27
6	1.074	1100.466
7	1.105	1131.572
8	1.118	1144.65
9	1.13	1156.718
10	1.138	1164.76

FSI

1	0.56	583.3811
2	0.896	921.6826
3	1.017	1043.211
4	1.066	1092.438
5	1.092	1118.52
6	1.114	1140.627
7	1.121	1147.668
8	1.129	1155.712
9	1.135	1161.745
10	1.138	1164.76
11	1.143	1169.786
12	1.146	1172.801
13	1.15	1176.82
14	1.151	1177.825
15	1.152	1178.83
16	1.152	1178.83
17	1.153	1179.835
18	1.153	1179.835
19	1.154	1180.839
20	1.154	1180.839

BPK CO  
DST #2

1	0.086	93.22486
2	0.091	98.56984
3	0.094	101.7729
4	0.101	109.2379
5	0.11	118.8367
6	0.123	132.6625

FF

1	0.137	147.5001
2	0.142	152.7863
3	0.148	159.1207
4	0.152	163.3447
5	0.156	167.5712
6	0.163	174.9589
7	0.165	177.0676
8	0.167	179.1753
9	0.169	181.2821
10	0.172	184.4406
11	0.176	188.6488
12	0.178	190.7514
13	0.183	196.0041
14	0.186	199.1529
15	0.189	202.2997
16	0.192	205.4444
17	0.195	208.587
18	0.198	211.7275
19	0.202	215.919
20	0.206	220.1147

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name LONGWOOD FARMS #3 Test No. 3 Date 2/28/93  
Company BEREXCO INC Zone MORROW  
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2970  
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO RIG #1 Est. Ft. of Pay 7  
Location: Sec. 3 Twp. 29S Rge. 33W Co. HASKELL State KS

Interval Tested <u>5399-5410</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>11</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>5394</u>	Drill Collar - 2.25 Ft. Run <u>606</u>
Bottom Packer Depth <u>5399</u>	Mud Wt. _____ <u>9</u> lb/Gal.
Total Depth <u>5410</u>	Viscosity <u>60</u> Filtrate <u>6.4</u>

Tool Open @ 10:35 PM Initial Blow 1" BLOW - BOTTOM OF BUCKET IN 7 MINUTES  
ISI: BLED OFF BLOW - NO BLOW BACK  
Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 4 MINUTES  
FSI: BLED OFF BLOW - WEAK BLOW BUILT TO 7"

Recovery - Total Feet 546 Flush Tool? NO

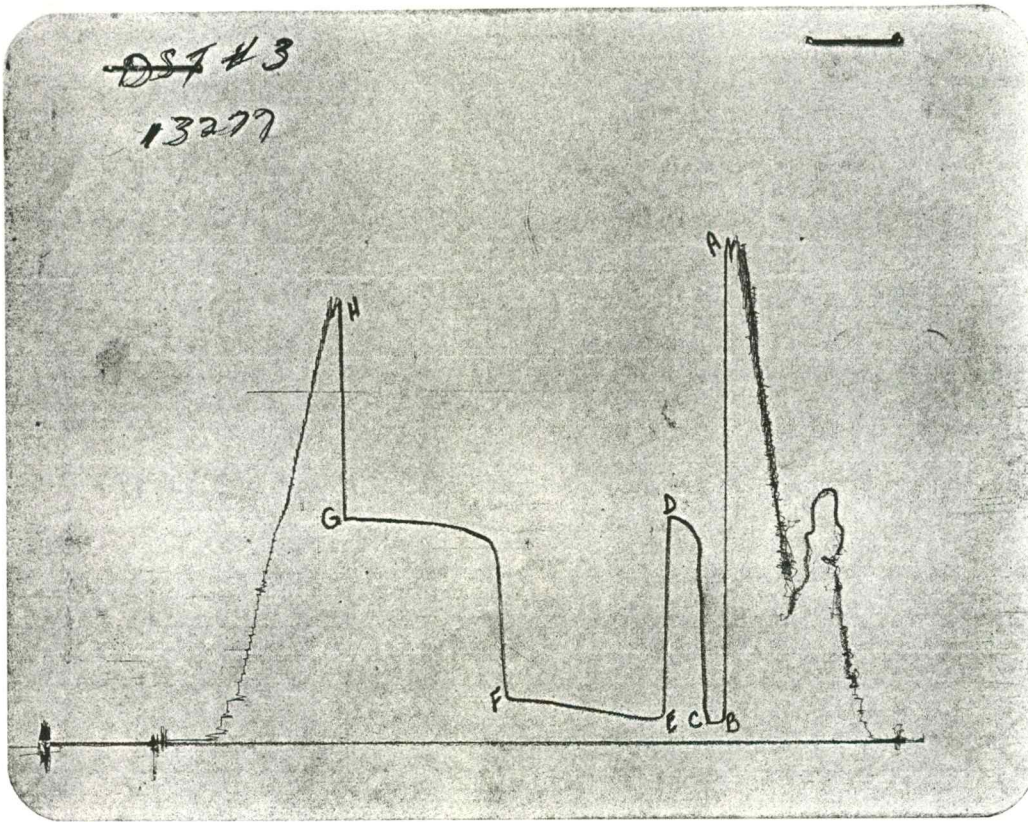
Rec. 3690 Feet of GAS IN PIPE  
Rec. 546 Feet of CLEAN OIL-10% GAS / 90% OIL  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 131 °F Gravity 29 °API @ 70 °F Corrected Gravity 29 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1900 ppm System

(A) Initial Hydrostatic Mud 2629.1 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 67.4 PSI @ (depth) 5401 w / Clock No. 25813  
(C) First Final Flow Pressure 71.7 PSI AK1 Recorder No. 1055 Range 4100  
(D) Initial Shut-in Pressure 1219.9 PSI @ (depth) 5407 w / Clock No. 27585  
(E) Second Initial Flow Pressure 93.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 204.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 1205.9 PSI Initial Opening 15 Final Flow 120  
(H) Final Hydrostatic Mud 2433.3 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2604	2629.1
(B) FIRST INITIAL FLOW PRESSURE	54	67.4
(C) FIRST FINAL FLOW PRESSURE	65	71.7
(D) INITIAL CLOSED-IN PRESSURE	1216	1219.9
(E) SECOND INITIAL FLOW PRESSURE	76	93.2
(F) SECOND FINAL FLOW PRESSURE	224	204.3
(G) FINAL CLOSED-IN PRESSURE	1216	1205.9
(H) FINAL HYDROSTATIC MUD	2472	2433.3



DST #

3

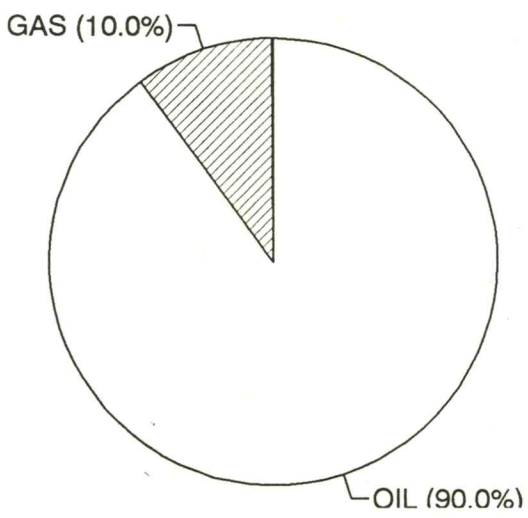
TICKET

5657

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SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	546	10	54.6	90	491.4	0	0	0	0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	546	10.00	54.6	90.00	491.4	0.00	0	0	0

		HRS OP	BBL/DAY
BBL OIL=	2.402946	*	2.25 25.631424
BBL WATER=	0	*	0
BBL MUD=	0		
BBL GAS=	0.266994		



INITIAL FLOW

RECORDER # 1055

DST # 3

TIME(MIN)	PRESSURE	<> PRESSURE
-----	-----	-----
0	67.4	67.4
3	67.4	0
6	68.5	1.1
9	69.6	1.1
12	70.7	1.1
15	71.7	1

FINAL FLOW

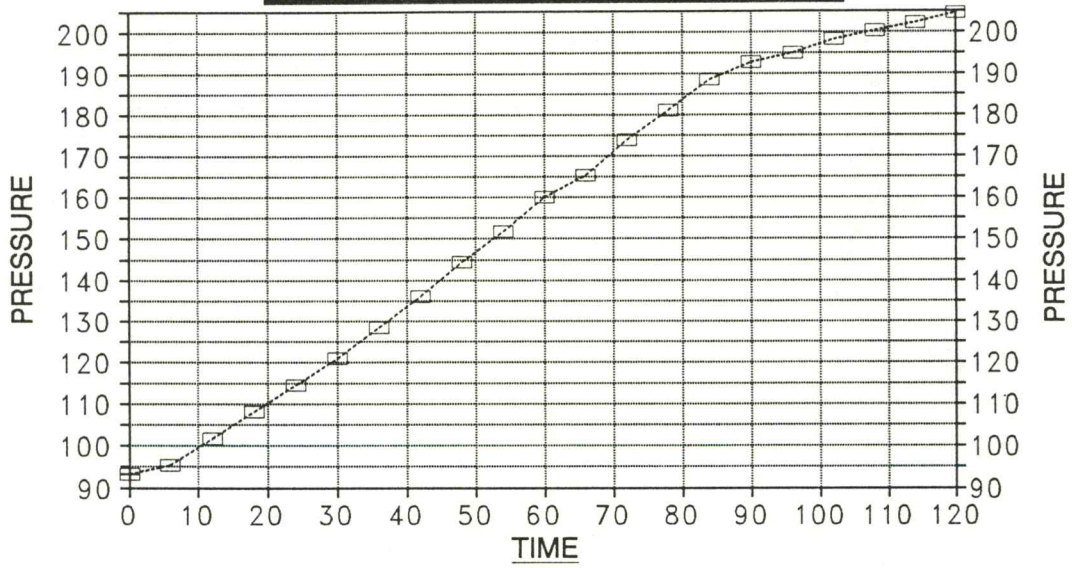
RECORDER # 1055

DST # 3

TIME(MIN)	PRESSURE	<> PRESSURE
-----	-----	-----
0	93.2	93.2
6	95.3	2.1
12	101.7	6.4
18	108.1	6.4
24	114.5	6.4
30	120.9	6.4
36	128.4	7.5
42	136	7.6
48	144.3	8.3
54	151.7	7.4
60	160.1	8.4
66	165.4	5.3
72	173.9	8.5
78	181.2	7.3
84	188.6	7.4
90	192.8	4.2
96	194.9	2.1
102	198.1	3.2
108	200.2	2.1
114	202.2	2
120	204.3	2.1

# DELTA T DELTA P

FINAL FLOW - DST #3



---□--- LONGWOOD FARMS #3

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

17.533

LONGWOOD  
INITIAL

DST #3  
SHUTIN  
15 TOTAL FLOW TIME

-----  
Slope 189.94 psi/cycle  
P \* 1253 psi  
-----

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	372.4	0.778	372.4	6
6	957.8	0.544	585.4	4
9	1152.6	0.426	194.8	3
12	1177.8	0.352	25.2	2
15	1193.8	0.301	16.0	2
18	1202.9	0.263	9.1	2
21	1210.9	0.234	8.0	2
24	1213.9	0.211	3.0	2
X 27	1216.9	0.192	3.0	2
X 30	1219.9	0.176	3.0	2

LONGWOOD  
FINAL

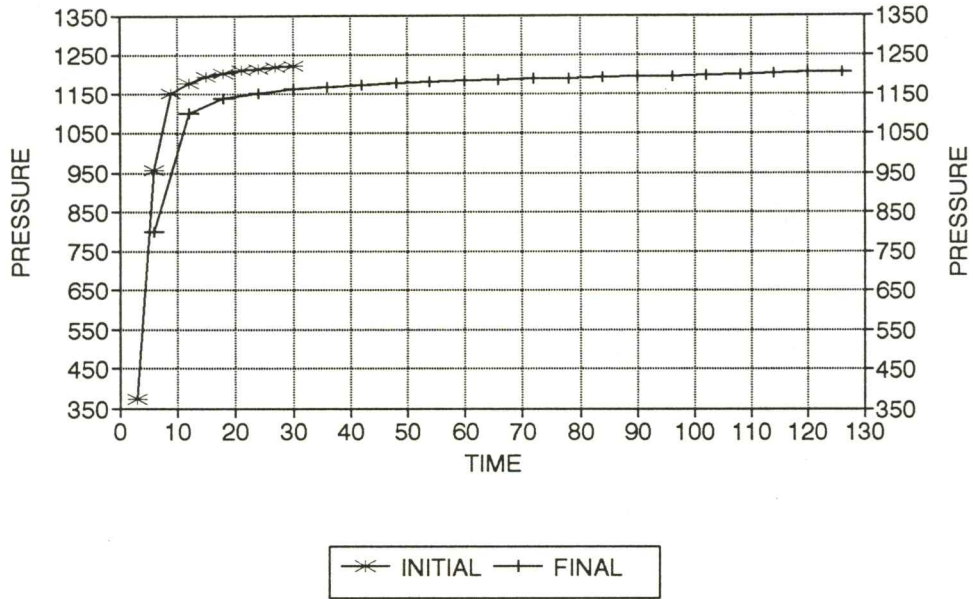
DST #3  
SHUTIN  
135 TOTAL FLOW TIME

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Slope 141.15 psi/cycle  
P \* 1251 psi  
-----

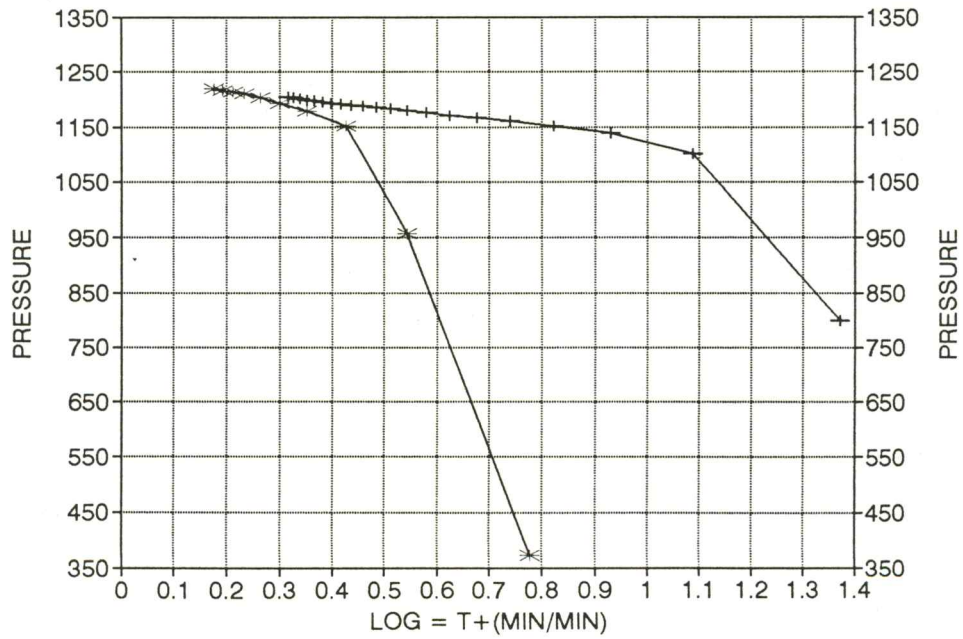
Log <>

	Pws (psi)	Horn T	PRESSURE	Horn T	
	6	800.1	1.371	800.1	24
	12	1101.4	1.088	301.3	12
	18	1138.6	0.929	37.2	9
	24	1152.6	0.821	14.0	7
	30	1160.7	0.740	8.1	6
	36	1166.7	0.677	6.0	5
	42	1171.7	0.625	5.0	4
	48	1176.8	0.581	5.1	4
	54	1180.8	0.544	4.0	4
	60	1183.8	0.512	3.0	3
	66	1186.8	0.484	3.0	3
	72	1188.8	0.459	2.0	3
	78	1189.8	0.436	1.0	3
X	84	1191.8	0.416	2.0	3
	90	1193.8	0.398	2.0	3
	96	1194.9	0.381	1.1	2
	102	1196.9	0.366	2.0	2
	108	1198.9	0.352	2.0	2
	114	1201.9	0.339	3.0	2
	120	1203.9	0.327	2.0	2
X	126	1205.9	0.316	2.0	2

# LONGWOOD FARMS #3 / DST #3 DELTA T DELTA P



# HORNER PLOT



INIT. HYD. MUD. 2584 2629.1

FINAL HYD. MUD 2392

2433.3

INITIAL FLOW MINUTES	INITIAL SHUTIN MINUTES	FINAL FLOW MINUTES	FINAL SHUTIN MINUTES
15	30	120	120
INTERVAL	INTERVAL	INTERVAL	INTERVAL
62	65	86	191
62	353	88	775
62	932	94	1075
62	1126	100	1112
62	1151	106	1126
65	1167	112	1134
	1176	119	1140
	1184	127	1145
	1187	134	1150
	1190	141	1154
	1193	149	1157
	1219.9	154	1160
		162	1162
		169	1163
		176	1165
		180	1167
		182	1168
		185	1170
		187	1172
		189	1175
		191	1177
		204.3	1179
			1205.9

DST#3  
ISI

1	0.353	372.4855
2	0.932	957.8774
3	1.126	1152.696
4	1.151	1177.825
5	1.167	1193.897
6	1.176	1202.934
7	1.184	1210.965
8	1.187	1213.976
9	1.19	1216.986
10	1.193	1219.997

FSI

1	0.775	800.1384
2	1.075	1101.47
3	1.112	1138.615
4	1.126	1152.696
5	1.134	1160.739
6	1.14	1166.771
7	1.145	1171.796
8	1.15	1176.82
9	1.154	1180.839
10	1.157	1183.853
11	1.16	1186.867
12	1.162	1188.876
13	1.163	1189.88
14	1.165	1191.889
15	1.167	1193.897
16	1.168	1194.901
17	1.17	1196.91
18	1.172	1198.918
19	1.175	1201.93
20	1.177	1203.938
21	1.179	1205.946

#3

I.F.

1	0.062	67.4932
2	0.062	67.4932
3	0.063	68.5692
4	0.064	69.6448
5	0.065	70.72
6	0.066	71.7948

FF

1	0.086	93.22486
2	0.088	95.36384
3	0.094	101.7729
4	0.1	108.17
5	0.106	114.5733
6	0.112	120.9667
7	0.119	128.4133
8	0.127	136.9073
9	0.134	144.3251
10	0.141	151.7296
11	0.149	160.1755
12	0.154	165.4584
13	0.162	173.9042
14	0.169	181.2821
15	0.176	188.6488
16	0.18	192.8532
17	0.182	194.954
18	0.185	198.1036
19	0.187	200.2021
20	0.189	202.2997
21	0.191	204.3964