

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	HUCK A "11"	Test No.	1	Date	7/27/89
Company	QUINOCO PETROLEUM INC	Zone Tested	LKC		
Address	P.O. BOX 378111 DENVER CO 80237	Elevation	2293 KB		
Co. Rep./Geo.	JIM MUSGROVE	Cont.	RED TIGER #7	Est. Ft. of Pay	5
Location: Sec.	31	Twp.	11S	Rge.	20W
				Co.	ELLIS
				State	KS

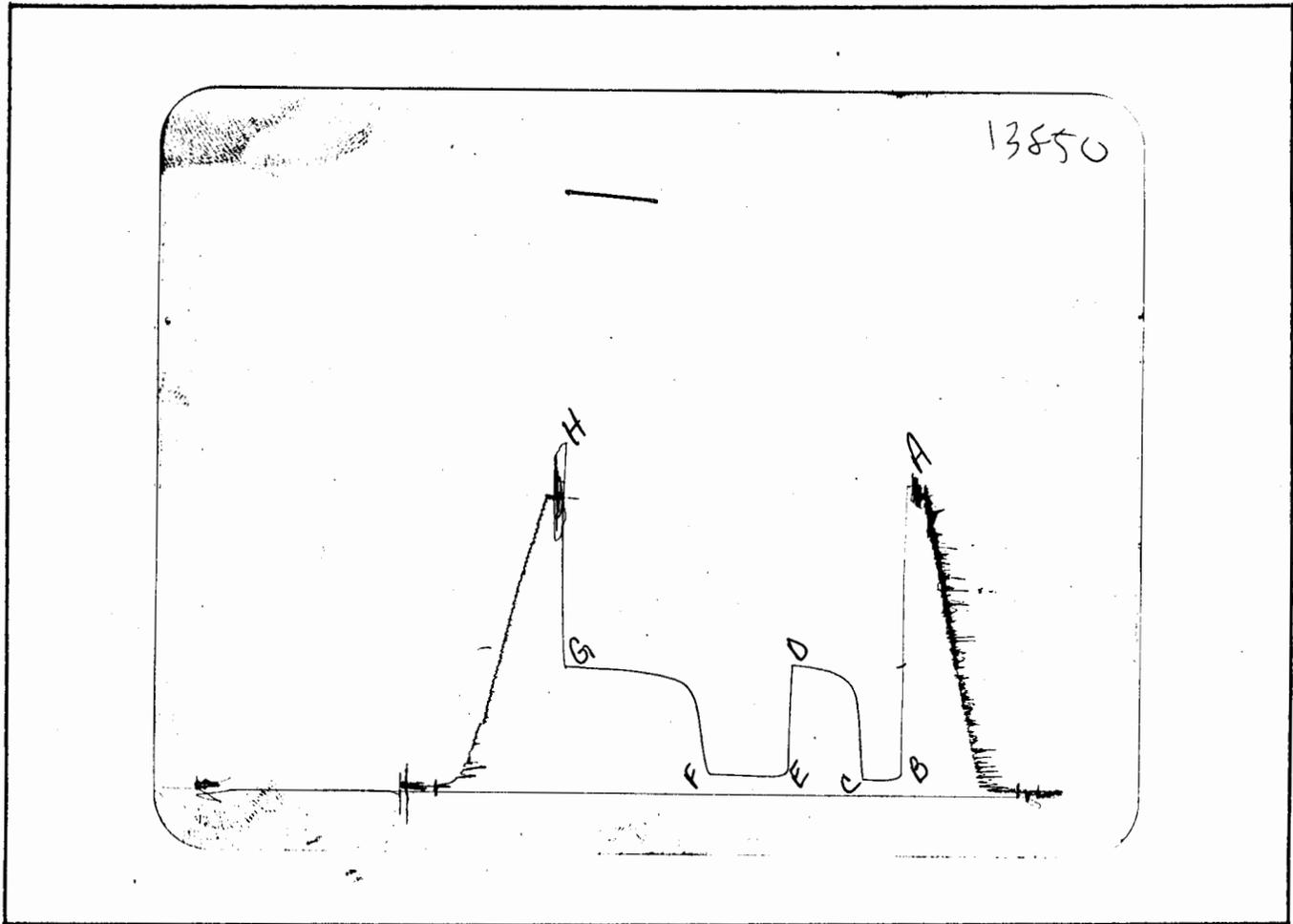
Interval Tested	-1A3B -1A61 3671-3720	Drill Pipe Size	5" IF
Anchor Length	49	Top Choke — 1"	
Top Packer Depth	3666	Bottom Choke — 3/4"	
Bottom Packer Depth	3671	Hole Size — 7 7/8"	
Total Depth	3720	Rubber Size — 6 3/4"	
Wt. Pipe I.D. — 2.7		Ft. Run	377
Drill Collar — 2.25		Ft. Run	0
Mud Wt.	9.4 lb./gal.	Viscosity	45
Tool Open @	5:20 PM	Filtrate	12.8
Initial Blow	WEAK 1/4" BLOW BUILT TO 2"		

Final Blow SURFACE BLOW BUILDING

Recovery — Total Feet	115	Flush Tool?	
Rec.	10	Feet of	CLEAN OIL
Rec.	45	Feet of	OIL CUT MUD 10% OIL 90% MUD
Rec.	60	Feet of	SLIGHTLY OIL CUT MUD 5% OIL 95% MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	112 °F	Gravity	29 °API @ 70 °F
Corrected Gravity	28 °API	RW	.3 @ 75 °F
Chlorides	21000 ppm	Recovery	5000 ppm
System		(A) Initial Hydrostatic Mud	2072.7 PSI
		AK1 Recorder No.	13849
		Range	4375
		(B) First Initial Flow Pressure	135.6 PSI
		@(depth)	3719
		w/Clock No.	26191
		(C) First Final Flow Pressure	161.1 PSI
		AK1 Recorder No.	13850
		Range	4325
		(D) Initial Shut-In Pressure	894.3 PSI
		@(depth)	3675
		w/Clock No.	27594
		(E) Second Initial Flow Pressure	173.3 PSI
		Initial Opening	30
		(F) Second Final Flow Pressure	195.6 PSI
		Initial Shut-In	60
		(G) Final Shut-In Pressure	878.9 PSI
		Final Flow	60
		(H) Final Hydrostatic Mud	1794.6 PSI
		Final Shut-In	120

Our Representative PAUL SIMPSON

TOTAL PRICE \$ 450



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1977	2072.7	PSI
(B) First Initial Flow Pressure.....	22	135.6	PSI
(C) First Final Flow Pressure.....	44	161.1	PSI
(D) Initial Closed-in Pressure.....	775	894.3	PSI
(E) Second Initial Flow Pressure.....	56	173.3	PSI
(F) Second Final Flow Pressure.....	67	195.6	PSI
(G) Final Closed-in Pressure.....	775	878.9	PSI
(H) Final Hydrostatic Mud.....	1895	1794.6	PSI

COMPUTER EVALUATION BY TRILOBITE TESTING
 QUINOCO PETROLEUM INC
 REPORT FOR DST#1 FOR THE HUCK 'A' #11
 31 11S 20W ELLIS KS

TEST PARAMETERS

LEVATION: 2233 KB EST. PAY: 5 FT
 ATUM: -1487 ZONE TESTED: LKC
 EST INTERVAL: 3671-3720
 TIME INTERVALS: 30-60-60-120
 ECORDER DEPTH: 3719 VISCOSITY: 10 CP
 OTTOM HOLE TEMP: 112 HOLE SIZE: 7.875 IN

CALCULATIONS

UBIC FEET OF GAS IN PIPE: 0
 OTAL FEET OF RECOVERY: 115
 ARRELS IN WEIGHT PIPE: .8969999
 AS OIL RATIO: 0 CU.FT./BBL
 OTAL BARRELS OF RECOVERY: .8969999
 UNCORR. INIT. PROD.: 14.352 BBL/DAY
 PI GRAVITY: 28
 FLUID GRADIENT: .384
 ORRECTED PIPE FILLUP: 509.375
 CORR. BARRELS OF RECOVERY: 5.3694 BBL
 NITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 85.9104 BBL/DAY
 NITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
 10.855

NITIAL SHUT-IN VALUES:
 HEORETICAL STATIC PRESSURE 936.9299
 LOPE 242.1338

INAL SHUT-IN VALUES
 HEORETICAL STATIC PRESSURE 929.2462
 LOPE 215.1172

TRANSMISSIBILITY 64.93684 (MD.-FT./CP.)
 PERMEABILITY 129.8737 (MD.)
 INDICATED FLOW CAPACITY 649.3684 (MD.FT)
 PRODUCTIVITY INDEX 7.337863E-02 (BARRELS/DAY/PSI)
 DAMAGE RATIO .6241122
 RADIUS OF INVESTIGATION 108.114 (FT.)
 POTENTIOMETRIC SURFACE 668.9219 (FT.)
 RAWDOWN FACTOR .8200884 (%)

INITIAL FLOW

REORDER # 13849
DST #1

DT (MIN)	PRESSURE	<> PRESSURE
0	135.6	135.6
3	140	4.399994
6	142.2	2.199997
9	146.7	4.5
12	147.8	1.100006
15	148.9	1.099991
18	151.1	2.200012
21	153.3	2.199997
24	155.6	2.300003
27	158.9	3.299998
30	161.1	2.200012

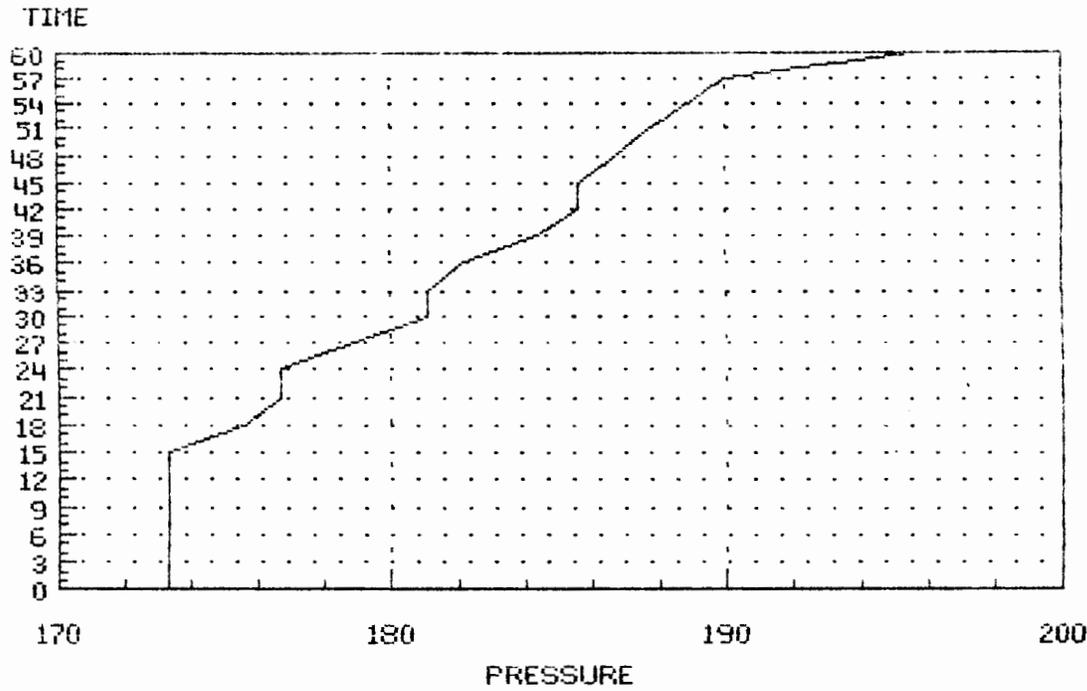
FINAL FLOW

REORDER # 13849
DST #1

DT (MIN)	PRESSURE	<> PRESSURE
0	173.3	173.3
3	173.3	0
6	173.3	0
9	173.3	0
12	173.3	0
15	173.3	0
18	175.6	2.300003
21	176.7	1.099991
24	176.7	0
27	178.9	2.199997
30	181.1	2.200012
33	181.1	0
36	182.2	1.099991
39	184.4	2.199997
42	185.6	1.200012
45	185.6	0
48	186.7	1.099991
51	187.8	1.100006
54	188.9	1.099991
57	190	1.100006
60	195.6	5.600006

DELTA T DELTA P

DST #1 FINAL FLOW
RECORDER # 13849



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 10.855 BBL/DAY

DST #1

RECORDER # 13849
INITIAL FLOW TIME (MIN.): 30

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	161.1	161.1
3	1.041205	351.1	190
6	.778011	700.4	349.3
9	.6367073	769.8	69.39996
12	.5439701	801.8	32
15	.4770353	820.5	18.70001
18	.425892	833.7	13.20001
21	.3852815	844.7	11
24	.352119	852.4	7.700012
27	.3244526	859	6.599976
30	.3009757	864.5	5.5
33	.280776	870	5.5
36	.263194	874.5	4.5
39	.2477398	878.9	4.400025
42	.234041	882.2	3.299988
45	.2218087	886.6	4.399964
48	.2108154	887.7	1.100037
51	.2008786	889.9	2.200012
54	.191851	892.1	2.199951
57	.1836113	893.2	1.100037
60	.1760595	894.3	1.099976

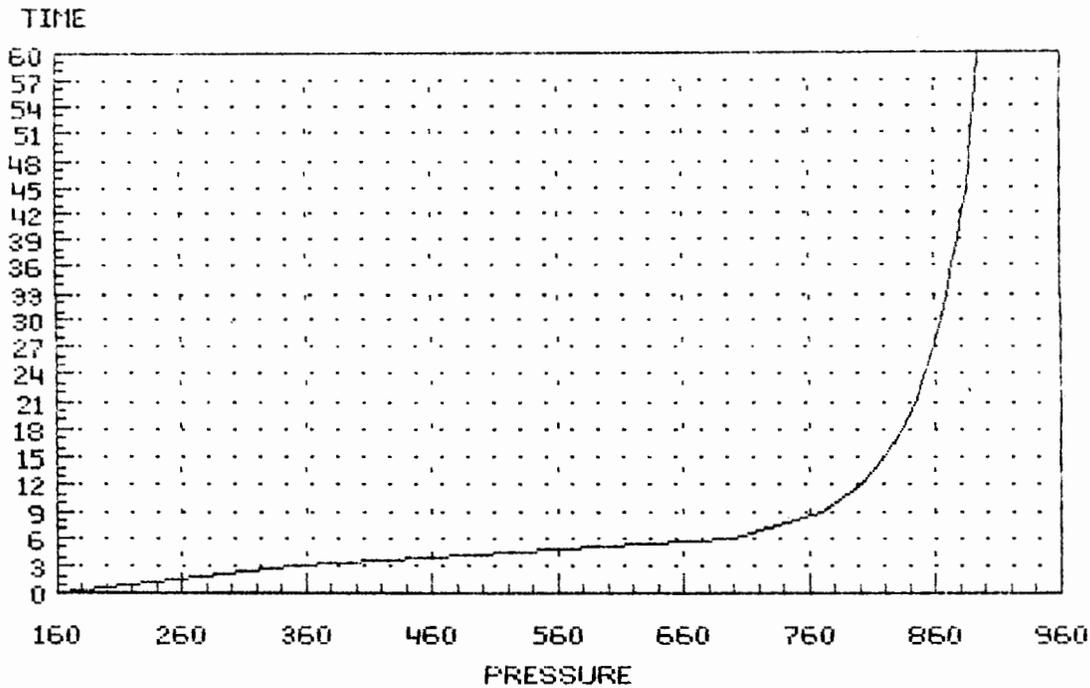
FINAL SHUT-IN BUILDUP
DST #1

RECORDER # 13849
TOTAL FLOW TIME (MIN.): 90

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	195.6	195.6
6	1.203903	351.1	155.5
12	.9292515	681.7	330.6
18	.778011	758.8	77.09998
24	.6765717	787.4	28.60004
30	.6019515	797.4	10
36	.5439701	812.8	15.39996
42	.4972351	822.7	9.900024
48	.4585852	830.4	7.700012
54	.425892	838.1	7.699951
60	.3978683	843.6	5.5
66	.3735134	850.2	6.600037
72	.352119	853.5	3.299988
78	.3331547	856.8	3.299988
84	.316213	860.1	3.299988
90	.3009757	863.4	3.300049
96	.2871899	866.7	3.299988
102	.2746515	870	3.299988
108	.263194	874.5	4.5
114	.2526798	877.8	3.299988
120	.2429943	878.9	1.100037
126	.234041	878.9	0

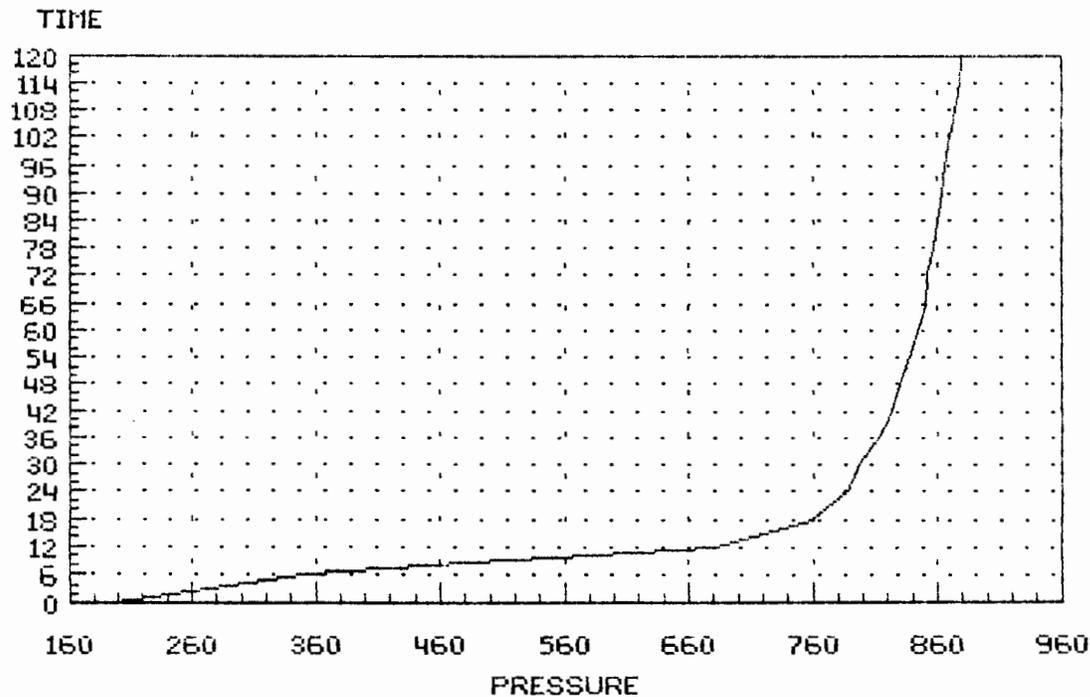
DELTA T DELTA P

DST #1 INITIAL SHUTIN
RECORDER # 13849



DELTA T DELTA P

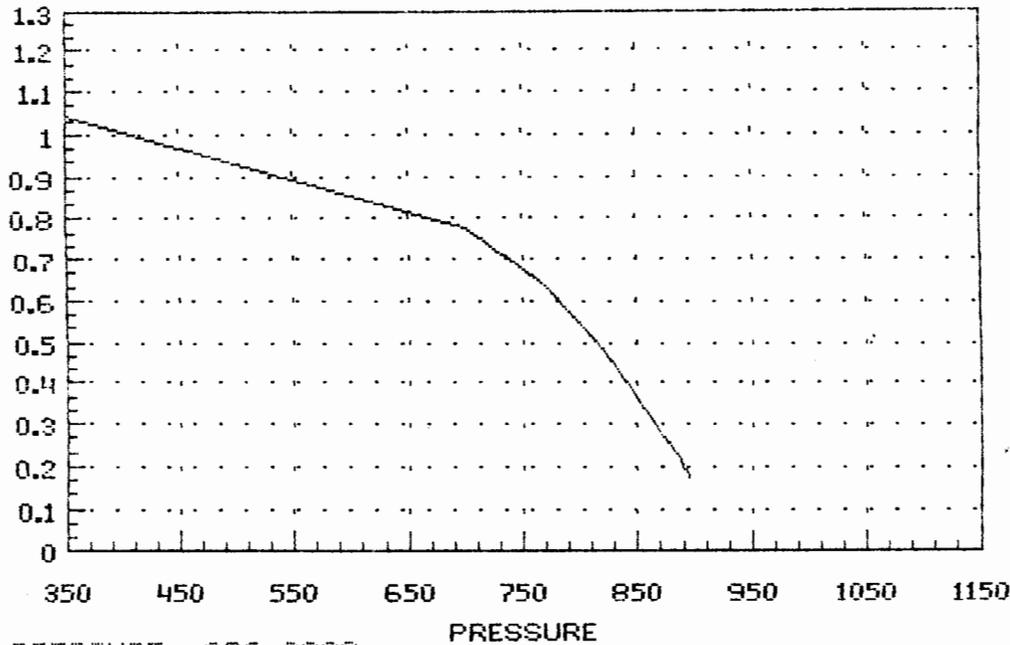
DST #1 FINAL SHUTIN
RECORDER # 13849



HORNER PLOT

DST #1 INITIAL SHUTIN
RECORDER # 13849

LOG (T+MIN/MIN)

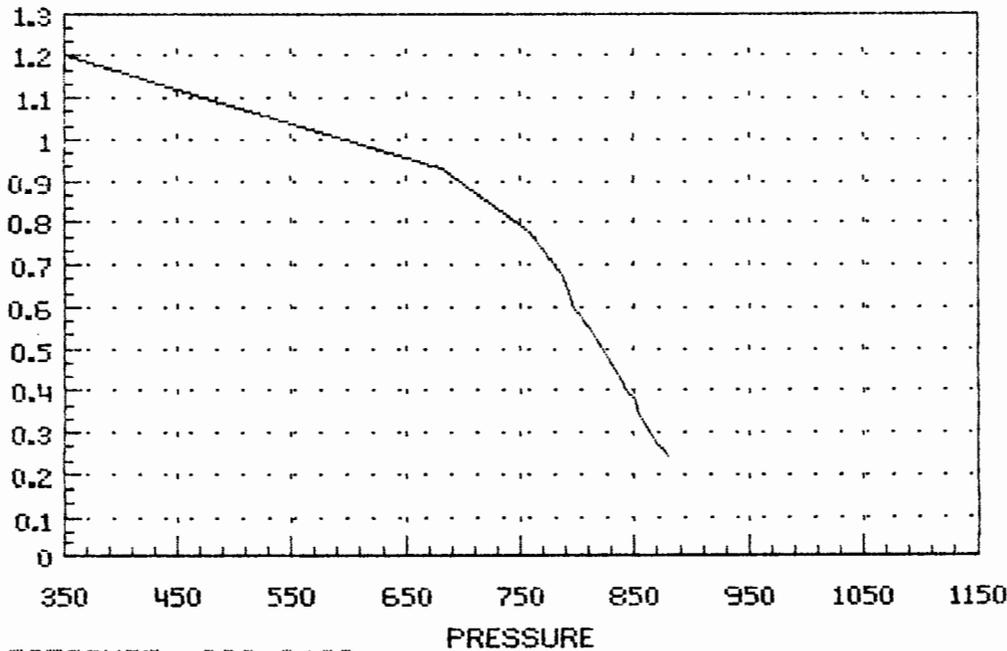


STATIC PRESSURE 936.9299
LOPE 242.1338
JOINTS USED 18

HORNER PLOT

DST #1 FINAL SHUTIN
RECORDER # 13849

LOG (T+MIN/MIN)



STATIC PRESSURE 929.2462
LOPE 215.1172
JOINTS USED 17

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67801

FLUID SAMPLER DATA

Ticket No. 2069 Date 7/27/89
Company Name QUINOCO PETROLEUM INC
Lease HUCK A "11" Test No. 1
County ELLIS Sec. 31 Twp. 11S Rng. 20W

SAMPLER RECOVERY

Gas 0 ML
Oil 500 ML
Mud 3900 ML
Water 600 ML
Other 0 ML
Pressure 120 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 5000 ppm.
Resistivity 0 ohms @ 0 F
Viscosity 45
Mud Weight 9.4
Filtrate 12.8
Other _____

SAMPLER ANALYSIS

Resistivity .3 ohms @ 75 F
Chlorides 21000 ppm.
Gravity 28 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .3 ohms @ 75 F
Chlorides 21000 ppm.
MIDDLE
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
BOTTOM
Resistivity 0 ohms @ 0 F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2069

Well Name & No. <u>Huck A #11</u>	Test No. <u>1</u>	Date <u>7/27/89</u>
Company <u>Quinoco Petroleum Inc</u>	Zone Tested <u>LKC</u>	
Address <u>PO Box 378111 Denver Colo 80237</u>	Elevation <u>2733</u>	
Co. Rep./Geo. <u>Jim Musgrave/Alex Weaver/cont. Red Tiger #7</u>	Est. Ft. of Pay <u>5</u>	
Location: Sec. <u>31</u> Twp. <u>11S</u> Rge. <u>20W</u> Co. <u>Ellis</u> State <u>Ks</u>		

Interval Tested <u>3671-3720</u>	Drill Pipe Size <u>5" IF</u>
Anchor Length <u>49</u>	Top Choke — 1" _____
Top Packer Depth <u>3666</u>	Bottom Choke — 1/4" _____
Bottom Packer Depth <u>3671</u>	Hole Size — 7 7/8" _____
Total Depth <u>3720</u>	Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____	Ft. Run <u>377</u>
Drill Collar — 2.25 _____	Ft. Run _____
Mud Wt. <u>94</u> lb./gal.	Viscosity <u>45</u> Filtrate <u>128</u>
Tool Open @ <u>5:20 PM</u> Initial Blow <u>weak "u" blow built to 2"</u>	

Final Blow surface blow building

Recovery — Total Feet <u>115</u>	Flush Tool? _____
Rec. <u>10</u> Feet of <u>Oil</u>	
Rec. <u>45</u> Feet of <u>OCM 10 9/10 oil 90 9/10 mud</u>	
Rec. <u>60</u> Feet of <u>SOCM 5 4/10 oil 95 4/10 mud</u>	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	

BHT 112 °F Gravity 29 °API @ 70 °F Corrected Gravity 28 °API
 RW .3 @ 75 °F Chlorides 21,000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud <u>1917</u> PSI AK1 Recorder No. <u>13849</u> Range <u>4375</u>
(B) First Initial Flow Pressure <u>22</u> PSI @ (depth) <u>3719</u> w/Clock No. <u>26191</u>
(C) First Final Flow Pressure <u>44</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4325</u>
(D) Initial Shut-In Pressure <u>775</u> PSI @ (depth) <u>3675</u> w/Clock No. <u>27594</u>
(E) Second Initial Flow Pressure <u>56</u> PSI Initial Opening <u>30</u> Test <u>400</u>
(F) Second Final Flow Pressure <u>67</u> PSI Initial Shut-In <u>60</u> Jars <u>4</u>
(G) Final Shut-In Pressure <u>775</u> PSI Final Flow <u>60</u> Safety Joint <u>X</u>
(H) Final Hydrostatic Mud <u>1895</u> PSI Final Shut-In <u>120</u> Straddle _____

Approved By Jim Musgrave
 Our Representative Paul Simpson

Circ. Sub _____
 Sampler 50
 Extra Packer _____
 Other _____

TOTAL PRICE \$ 450

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	HUCK A "11"	Test No.	2	Date	7/28/89				
Company	QUINOCO PETROLEUM INC	Zone Tested	ARBUCKLE						
Address	P.O. BOX 37811 DENVER CO 80237		Elevation	2233					
Co. Rep./Geo.	JIM MUSGROVE	Cont.	RED TIGER #7	Est. Ft. of Pay	11				
Location: Sec.	31	Twp.	11S	Rge.	20W	Co.	ELLIS	State	KS

Interval Tested	3804-3815	Drill Pipe Size	5" IF			
Anchor Length	11	Top Choke — 1"				
Top Packer Depth	3799	Bottom Choke — 3/4"				
Bottom Packer Depth	3804	Hole Size — 7 7/8"				
Total Depth	3815	Rubber Size — 6 3/4"				
Wt. Pipe I.D. — 2.7		Ft. Run	377			
Drill Collar — 2.25		Ft. Run	0			
Mud Wt.	9.3	lb./gal.	Viscosity	40	Filtrate	9.6

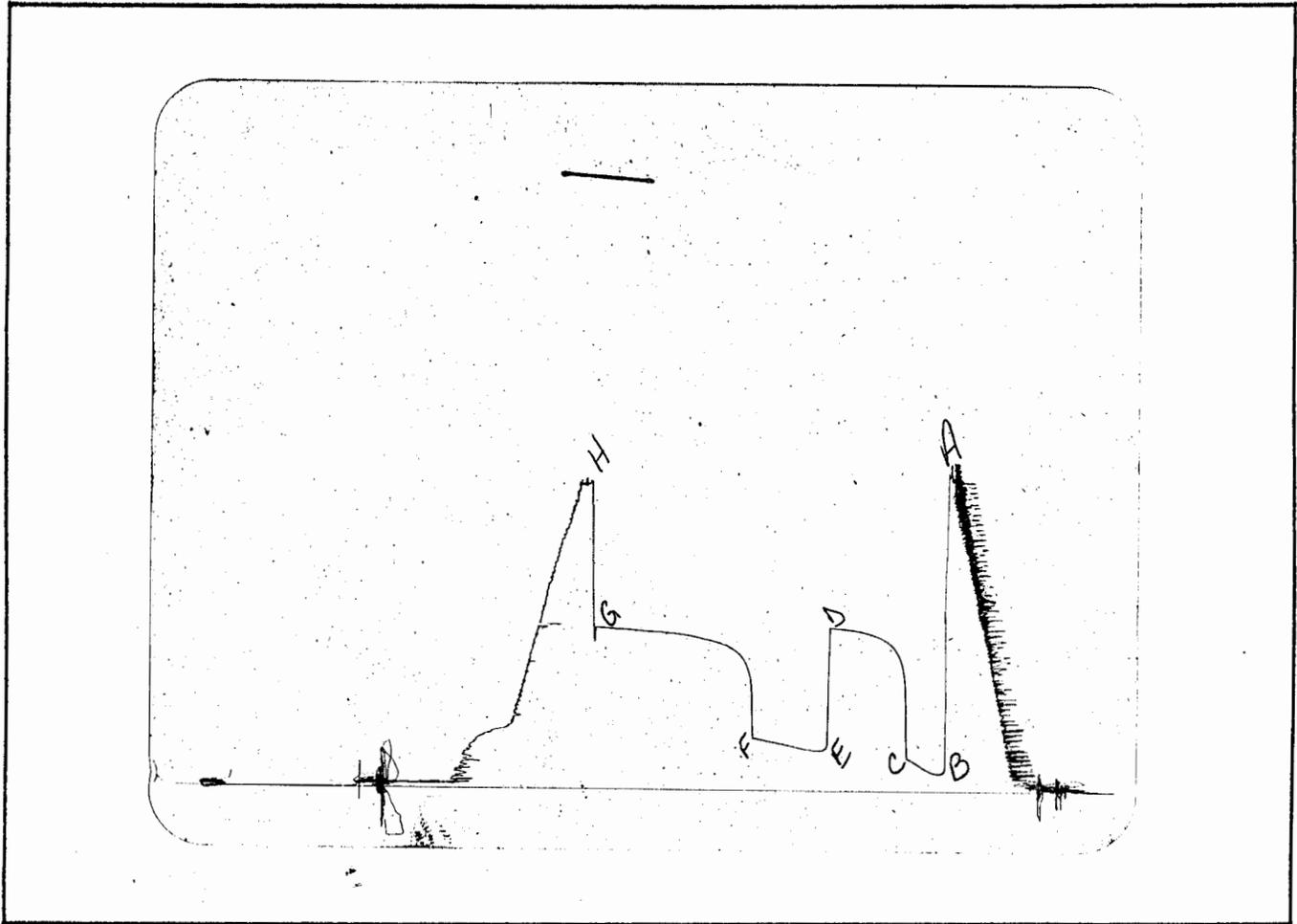
Tool Open @ 2:54 PM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET
IN 15 MIN(SURFACE BLOW BACK ON SHUTIN)

Final Blow 1/2" BLOW BUILDING TO BOTTOM OF BUCKET
IN 22 MIN(BLOW BACK BUILT TO 3 1/2")

Recovery — Total Feet	510	Flush Tool?	
Rec.	150	Feet of	GAS IN PIPE
Rec.	120	Feet of	CLEAN GASSY OIL
Rec.	90	Feet of	OIL CUT WATER 70% OIL 30% WATER
Rec.	300	Feet of	SALT WATER OIL SPECKS THROUGHOUT
Rec.	0	Feet of	

BHT	125	°F	Gravity	36	°API @	85	°F	Corrected Gravity	33.5	°API		
RW	.19	@	84	°F	Chlorides	32000	ppm	Recovery	Clorides	5000	ppm	System
(A) Initial Hydrostatic Mud	1972.8	PSI	AK1 Recorder No.	13849	Range	4375						
(B) First Initial Flow Pressure	77.7	PSI	@(depth)	3814	w/Clock No.	26191						
(C) First Final Flow Pressure	170	PSI	AK1 Recorder No.	13850	Range	4325						
(D) Initial Shut-In Pressure	1000	PSI	@(depth)	3807	w/Clock No.	27585						
(E) Second Initial Flow Pressure	232.2	PSI	Initial Opening	30								
(F) Second Final Flow Pressure	306.6	PSI	Initial Shut-In	60								
(G) Final Shut-In Pressure	991.1	PSI	Final Flow	60								
(H) Final Hydrostatic Mud	1944.5	PSI	Final Shut-In	120								

Our Representative PAUL SIMPSON TOTAL PRICE \$ 450



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1928	1972.8	PSI
(B) First Initial Flow Pressure.....	56	77.7	PSI
(C) First Final Flow Pressure.....	156	170	PSI
(D) Initial Closed-in Pressure.....	995	1000	PSI
(E) Second Initial Flow Pressure.....	211	232.2	PSI
(F) Second Final Flow Pressure.....	278	306.6	PSI
(G) Final Closed-in Pressure.....	984	991.1	PSI
(H) Final Hydrostatic Mud.....	1895	1944.5	PSI

COMPUTER EVALUATION BY TRILOBITE TESTING
QUINOCO PETROLEUM INC
REPORT FOR DST#2 FOR THE HUCK A "11"
31-11S-20W ELLIS KS

TEST PARAMETERS

ELEVATION: 2233 KB EST. PAY: 11 FT
DATUM: -1582 ZONE TESTED: ARBUCKLE
TEST INTERVAL: 3804-3815
TIME INTERVALS: 30-60-60-120
RECORDER DEPTH: 3814 VISCOSITY: 4.1 CP
BOTTOM HOLE TEMP: 125 HOLE SIZE: 7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 11.97591
TOTAL FEET OF RECOVERY: 510
BARRELS IN DRILL PIPE: 1.89126
BARRELS IN WEIGHT PIPE: 2.639
GAS OIL RATIO: 2.643536 CU.FT./BBL
TOTAL BARRELS OF RECOVERY: 4.53026
UNCORR. INIT. PROD.: 72.48416 BBL/DAY
API GRAVITY: 33 FLUID GRADIENT: .373
CORRECTED PIPE FILLUP: 821.984
CORR. BARRELS OF RECOVERY: 8.952681 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 143.2429 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
83.16173

INITIAL SHUT-IN VALUES:
THEORETICAL STATIC PRESSURE 1052.003
SLOPE 295.3694
FINAL SHUT-IN VALUES
THEORETICAL STATIC PRESSURE 1037.433
SLOPE 197.9675

TRANSMISSIBILITY 117.6521 (MD.-FT./CP.)
PERMEABILITY 43.85215 (MD.)
INDICATED FLOW CAPACITY 482.3737 (MD.FT)
PRODUCTIVITY INDEX .1329469 (BARRELS/DAY/PSI)
DAMAGE RATIO .6755777
RADIUS OF INVESTIGATION 62.82271 (FT.)
POTENTIOMETRIC SURFACE 824.8071 (FT.)
DRAWDOWN FACTOR 1.384986 (%)

INITIAL FLOW

RECORDER # 13849
DST #2

DT (MIN)	PRESSURE	<> PRESSURE
0	77.7	77.7
3	70	-7.699997
6	74.4	4.400002
9	78.8	4.400002
12	91.1	12.3
15	104.4	13.3
18	123.3	18.9
21	133.3	10
24	147.7	14.399999
27	160	12.3
30	170	10

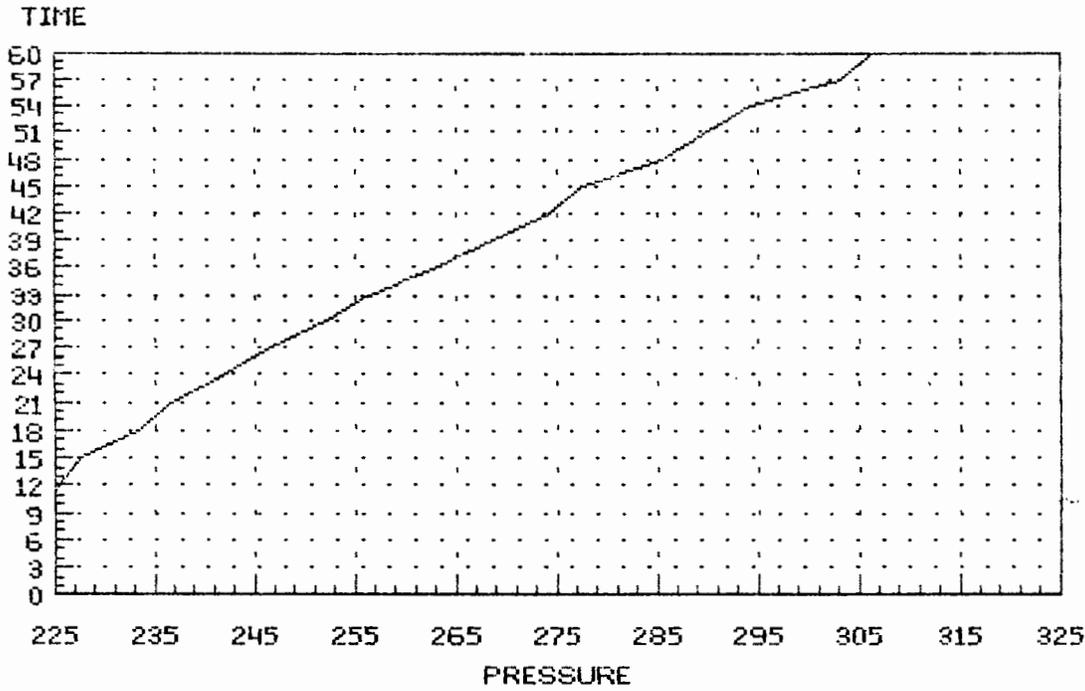
FINAL FLOW

RECORDER # 13849
DST #2

DT (MIN)	PRESSURE	<> PRESSURE
0	232.2	232.2
3	222.2	-10
6	222.2	0
9	223.3	1.100006
12	225.5	2.199997
15	227.7	2.199997
18	233.3	5.600006
21	236.6	3.300003
24	242.2	5.599991
27	246.6	4.400009
30	252.2	5.599991
33	256.6	4.400009
36	263.3	6.699982
39	268.8	5.5
42	274.4	5.600006
45	277.7	3.300018
48	285.5	7.799988
51	290	4.5
54	294.4	4.399994
57	303.3	8.899994
60	306.6	3.300018

DELTA T DELTA P

DST #2 FINAL FLOW
RECORDER # 13849



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 83.16173 BBL/DAY

INITIAL SHUT-IN BUILDUP
DST #2

RECORDER # 13849
INITIAL FLOW TIME (MIN.): 30

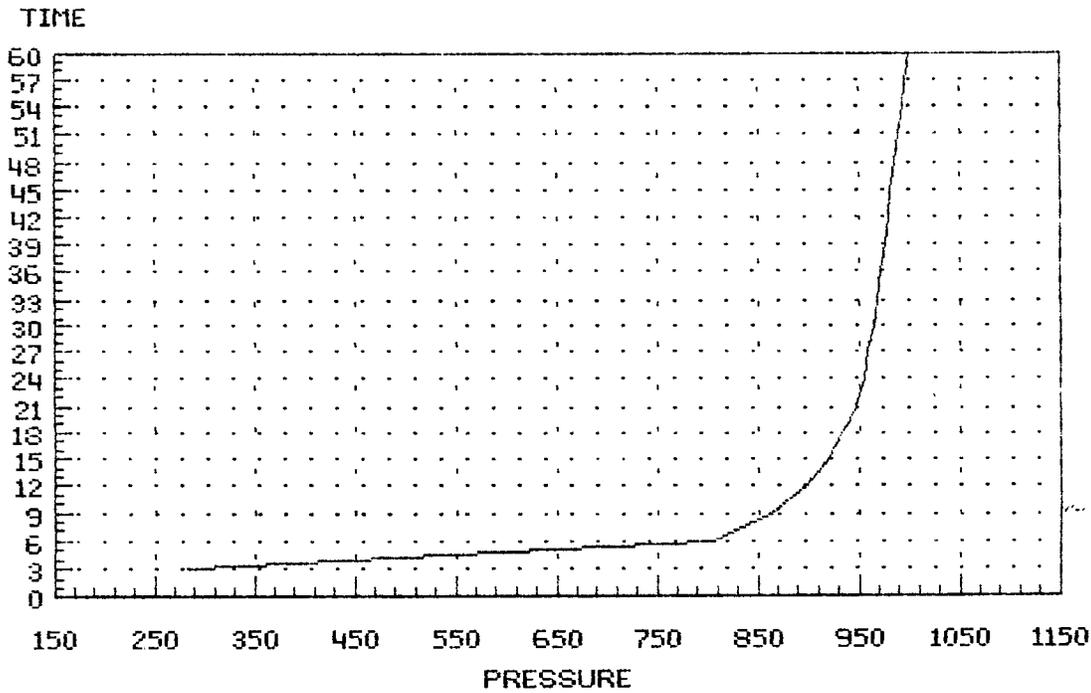
MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	170	170
3	1.041205	282.2	112.2
6	.778011	806.1	523.9
9	.6367073	862.3	56.20001
12	.5439701	899.7	37.40003
15	.4770353	920.7	21
18	.425892	932.8	12.09998
21	.3852815	948.2	15.40003
24	.352119	954.2	6
27	.3244526	959.2	5
30	.3009757	965.8	6.599976
33	.280776	968	2.200012
36	.263194	972.4	4.400025
39	.2477398	976.8	4.399964
42	.234041	980.1	3.299988
45	.2218087	981.2	1.100037
48	.2108154	985.6	4.399964
51	.2008786	988.9	3.300049
54	.191851	994.4	5.5
57	.1836113	995.5	1.099976
60	.1760595	1000	4.5

RECORDER # 13849
TOTAL FLOW TIME (MIN.): 90

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	306.6	306.6
6	1.203903	811.6	505
12	.9292515	857.9	46.30005
18	.778011	881	23.09998
24	.6765717	898.6	17.59998
30	.6019515	911.8	13.20001
36	.5439701	926.2	14.40003
42	.4972351	937.2	11
48	.4585552	946	8.799988
54	.425892	951.5	5.5
60	.3978683	954.6	3.299988
66	.3735134	955.9	1.100037
72	.352119	959.2	3.299988
78	.3331547	968	8.799988
84	.316213	976.8	8.799988
90	.3009757	979	2.200012
96	.2871899	984.5	5.5
102	.2746515	990	5.5
108	.263194	991.1	1.099976
114	.2526798	991.1	0
120	.2429943	991.1	0
126	.234041	991.1	0

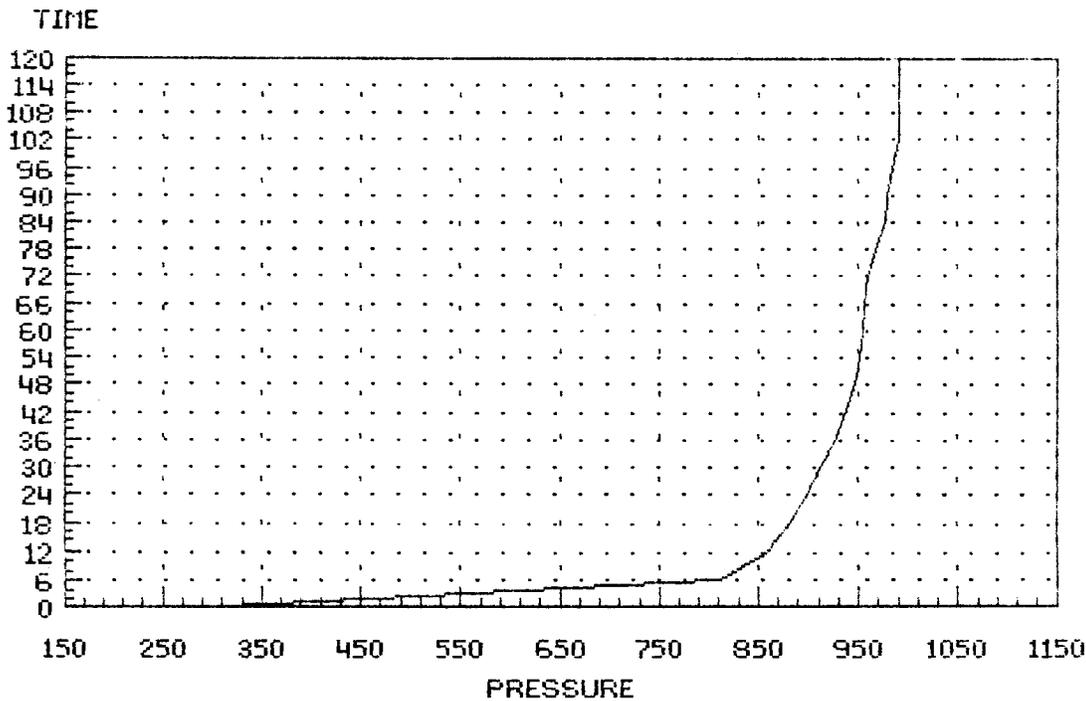
DELTA T DELTA P

DST #2 INITIAL SHUTIN
RECORDER # 13849



DELTA T DELTA P

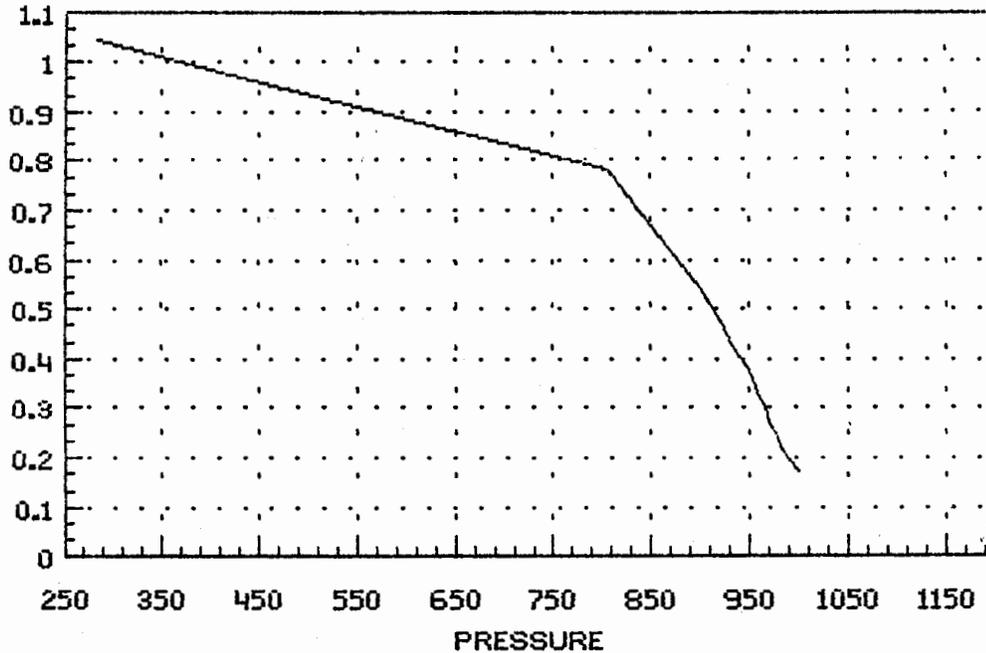
DST #2 FINAL SHUTIN
RECORDER # 13849



HORNER PLOT

DST #2 INITIAL SHUTIN
RECORDER # 13849

LOG(T+MIN/MIN)

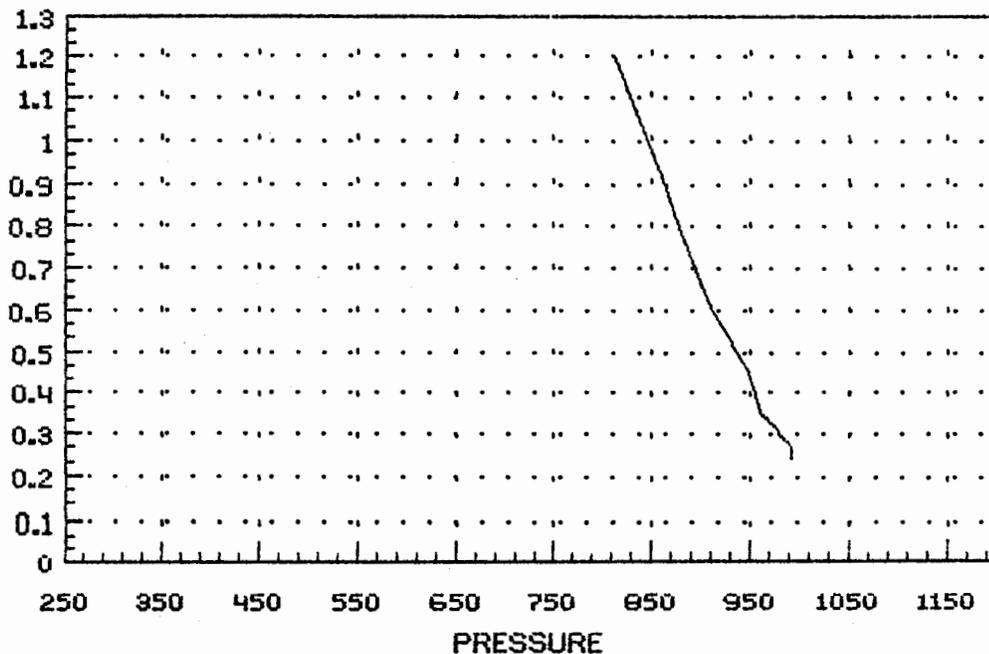


STATIC PRESSURE 1052.003
SLOPE 295.3694
POINTS USED 18

HORNER PLOT

DST #2 FINAL SHUTIN
RECORDER # 13849

LOG(T+MIN/MIN)



STATIC PRESSURE 1037.433
SLOPE 197.9675
POINTS USED 20

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2070

Well Name & No. <u>Huck A "11"</u>	Test No. <u>2</u>	Date <u>7/28/89</u>
Company <u>Quinoco Petroleum Inc</u>	Zone Tested <u>Arbuckle</u>	
Address <u>PO Box 37811 Denver Colo 80237</u>	Elevation <u>2233</u>	
Co. Rep./Geo. <u>Sam Murguie</u>	Cont. _____	Est. Ft. of Pay <u>11</u>
Location: Sec. <u>31</u> Twp. <u>11S</u>	Rge. <u>20W</u> Co. <u>Ellis</u>	State <u>KS</u>

Interval Tested <u>3804-3815</u>	Drill Pipe Size <u>5" IF</u>
Anchor Length <u>11</u>	Top Choke - 1" _____
Top Packer Depth <u>3799</u>	Bottom Choke - 3/4" _____
Bottom Packer Depth <u>3804</u>	Hole Size - 7 7/8" _____
Total Depth <u>3815</u>	Rubber Size - 6 3/4" _____

Wt. Pipe I.D. - 2.7 _____	Ft. Run <u>377</u>
Drill Collar - 2.25 _____	Ft. Run _____
Mud Wt. <u>93</u> lb./gal.	Viscosity <u>40</u> Filtrate <u>96</u>
Tool Open @ <u>2:54 PM</u>	Initial Blow <u>1" blow building to bottom of bucket in 15 minutes (surface blow back on shut in)</u>
Final Blow <u>1/2" blow building to bottom of bucket in 22 minutes (blow back built to 3 1/2")</u>	

Recovery - Total Feet <u>510</u>	Flush Tool? _____
Rec. <u>150</u> Feet of <u>gas in pipe</u>	
Rec. <u>120</u> Feet of <u>oil gassy</u>	
Rec. <u>90</u> Feet of <u>OCW 70% oil 30% H₂O</u>	
Rec. <u>300</u> Feet of <u>salt water oil specks throughout</u>	
Rec. _____ Feet of _____	

BHT <u>125</u> °F Gravity <u>36</u> °API @ <u>85</u> °F Corrected Gravity <u>33.5</u> °API
RW <u>19</u> @ <u>84</u> °F Chlorides <u>37,000</u> ppm Recovery Chlorides <u>5000</u> ppm System

(A) Initial Hydrostatic Mud <u>1928</u> PSI AK1 Recorder No. <u>13849</u> Range <u>4375</u>
(B) First Initial Flow Pressure <u>56</u> PSI @ (depth) <u>3814</u> w/Clock No. <u>26191</u>
(C) First Final Flow Pressure <u>156</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4325</u>
(D) Initial Shut-In Pressure <u>995</u> PSI @ (depth) <u>3807</u> w/Clock No. <u>27585</u>
(E) Second Initial Flow Pressure <u>211</u> PSI Initial Opening <u>30</u> Test _____
(F) Second Final Flow Pressure <u>278</u> PSI Initial Shut-In <u>60</u> Jars _____
(G) Final Shut-In Pressure <u>984</u> PSI Final Flow <u>60</u> Safety Joint _____
(H) Final Hydrostatic Mud <u>1895</u> PSI Final Shut-In <u>120</u> Straddle _____

Approved By <u>[Signature]</u>	Circ. Sub _____
Our Representative <u>[Signature]</u>	Sampler <u>X</u>
	Extra Packer _____
	Other _____

TOTAL PRICE \$ 450