

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	HUCK A-5 (TWIN)	Test No.	1	Date	10/21/89				
Company	QUINOCO PETROLEUM INC	Zone Tested	LANSING-KC						
Address	P.O. BOX 378111 DENVER CO 80237		Elevation	2243 KB					
Co. Rep./Geo.	MR JIM MUSGROVE	Cont.	RED TIGER #7	Est. Ft. of Pay	0				
Location: Sec.	31	Twp.	11S	Rge.	20W	Co.	ELLIS	State	KANSAS

Interval Tested	3690' -3740'	Drill Pipe Size	5" IF			
Anchor Length	50	Top Choke - 1"				
Top Packer Depth	3685	Bottom Choke - 1/4"				
Bottom Packer Depth	3690	Hole Size - 7 7/8"				
Total Depth	3740	Rubber Size - 6 3/4"				
Wt. Pipe I.D. - 2.7		Ft. Run	378			
Drill Collar - 2.25		Ft. Run	0			
Mud Wt.	9.3	lb./gal.	Viscosity	40	Filtrate	12
Tool Open @	1:23 PM	Initial Blow	WEAK 1/4" BLOW BUILDING TO 1 3/4"			

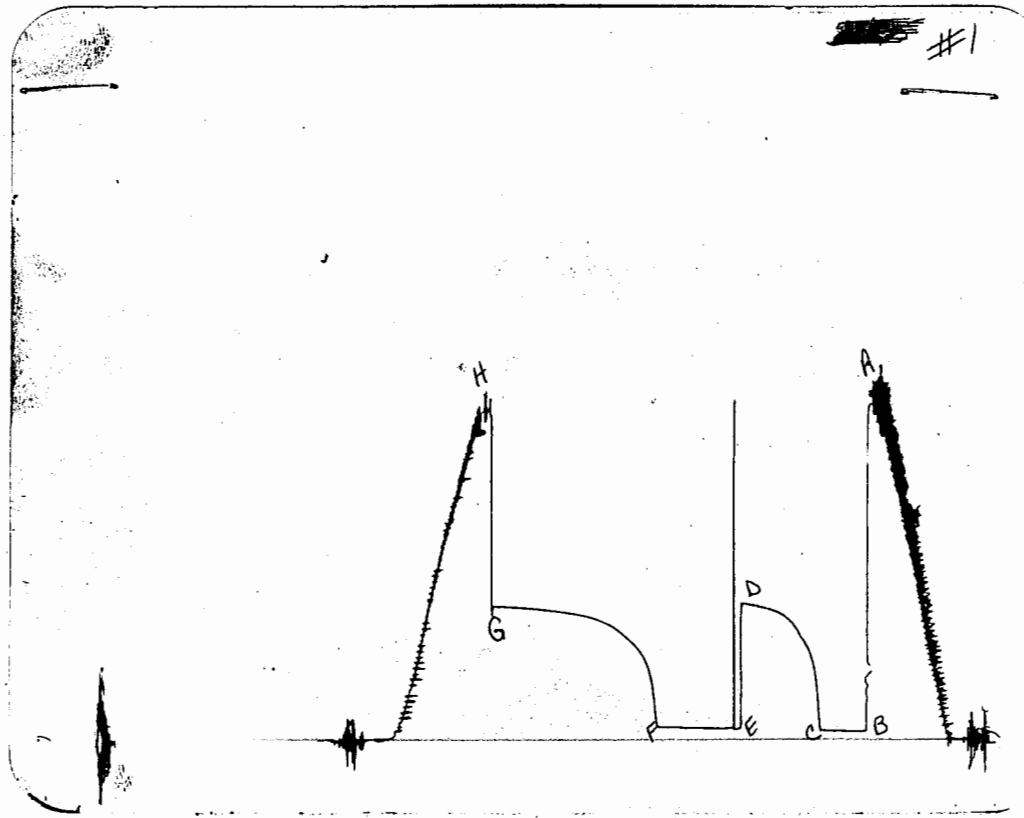
Final Blow NO BLOW-FLUSH TOOL-VERY WEAK SURFACE BLOW BUILDING TO 1"

Recovery - Total Feet	65	Flush Tool?	2ND OPEN
Rec.	65	Feet of	SLIGHTLY OIL SPECKED WATERY MUD-30% WATER/70% MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT	118	°F	Gravity		°API @	0	°F	Corrected Gravity	0	°API		
RW	.33	@	74	°F	Chlorides	19500	ppm	Recovery	Clorides	4000	ppm	System
(A) Initial Hydrostatic Mud	1730.2	PSI	AK1 Recorder No.	3975	Range	13337						
(B) First Initial Flow Pressure	40.2	PSI	@ (depth)	3739	w/Clock No.	26191						
(C) First Final Flow Pressure	50.2	PSI	AK1 Recorder No.	7437	Range	4200						
(D) Initial Shut-In Pressure	692.3	PSI	@ (depth)	3725	w/Clock No.	25810						
(E) Second Initial Flow Pressure	50.2	PSI	Initial Opening	30								
(F) Second Final Flow Pressure	60.3	PSI	Initial Shut-In	60								
(G) Final Shut-In Pressure	695.4	PSI	Final Flow	60								
(H) Final Hydrostatic Mud	1690.2	PSI	Final Shut-In	120								

Our Representative MR PAUL SIMPSON

TOTAL PRICE \$ 450



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1728	1730.2	PSI
(B) First Initial Flow Pressure.....	39	40.2	PSI
(C) First Final Flow Pressure.....	49	50.2	PSI
(D) Initial Closed-In Pressure.....	691	692.3	PSI
(E) Second Initial Flow Pressure.....	49	50.2	PSI
(F) Second Final Flow Pressure.....	59	60.3	PSI
(G) Final Closed-In Pressure.....	691	695.4	PSI
(H) Final Hydrostatic Mud.....	1689	1690.2	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2204 Date 10/21/89
Company Name QUINOCO PETROLEUM INC
Lease HUCK A-5 (TWIN) Test No. 1
ELLIS Sec. 31 Twp. 11S Rng. 20W
County _____

SAMPLER RECOVERY

Gas 0 ML
Oil 0 ML
Mud 2600 ML
Water 400 ML
Other 0 ML
Pressure 50 PSI
Total 3000 ML

PIT MUD ANALYSIS

Chlorides 4000 ppm.
Resistivity 1.4 ohms @ 75 F
Viscosity 40
Mud Weight 9.3
Filtrate 12
Other _____

SAMPLER ANALYSIS

Resistivity .33 ohms @ 74 F
Chlorides 19500 ppm.
Gravity 0 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.

MIDDLE

Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.

BOTTOM

Resistivity .33 ohms @ 74 F
Chlorides 19500 ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2204

Well Name & No. <u>Huck #5 (twin)</u>	Test No. <u>1</u>	Date <u>10/21/89</u>
Company <u>Plains Petroleum Inc</u>	Zone Tested <u>LKC</u>	
Address <u>PO Box 378111 Denver Colo 80237</u>	Elevation _____	
Co. Rep./Geo. <u>Jim Musgrave</u>	Cont. <u>Red Tiger #7</u>	Est. Ft. of Pay _____
Location: Sec. <u>31</u> Twp. <u>15</u>	Rge. <u>20W</u>	Co. <u>Ellis</u> State <u>Ks</u>

Interval Tested <u>3690 - 3740</u>	Drill Pipe Size <u>5" IF</u>
Anchor Length <u>50</u>	Top Choke - 1" _____
Top Packer Depth <u>3685</u>	Bottom Choke - 3/4" _____
Bottom Packer Depth <u>3690</u>	Hole Size - 7 7/8" _____
Total Depth <u>3740</u>	Rubber Size - 6 3/4" _____

Wt. Pipe I.D. - 2.7 _____	Ft. Run <u>378</u>
Drill Collar - 2.25 _____	Ft. Run _____
Mud Wt. <u>97</u> lb./gal.	Viscosity <u>40</u> Filtrate <u>12</u>
Tool Open @ <u>1:23 PM</u>	Initial Blow <u>weak 1/4" blow building to 1 3/4"</u>

Final Blow no blow - flush tool - very weak surface blow building to 1"

Recovery - Total Feet <u>65</u>	Flush Tool <u>2 id open</u>
Rec. <u>65</u> Feet of <u>st oil specked watery mud</u>	
Rec. _____ Feet of _____	<u>30% water 170 lb mud</u>
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	

BHT <u>118</u> °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW <u>.33</u> @ <u>74</u> °F Chlorides <u>19,500</u> ppm Recovery Chlorides <u>4000</u> ppm System

(A) Initial Hydrostatic Mud <u>1728</u> PSI	AK1 Recorder No. <u>5175</u>	Range <u>13337</u>
(B) First Initial Flow Pressure <u>39</u> PSI	@ (depth) <u>3739</u>	w/Clock No. <u>3475 2619</u>
(C) First Final Flow Pressure <u>49</u> PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>
(D) Initial Shut-In Pressure <u>691</u> PSI	@ (depth) <u>3725</u>	w/Clock No. <u>25810</u>
(E) Second Initial Flow Pressure <u>49</u> PSI	Initial Opening <u>30</u>	Test <u>400</u>
(F) Second Final Flow Pressure <u>59</u> PSI	Initial Shut-In <u>60</u>	Jars _____
(G) Final Shut-In Pressure <u>691</u> PSI	Final Flow <u>60</u>	Safety Joint <u>50</u>
(H) Final Hydrostatic Mud <u>1689</u> PSI	Final Shut-In <u>120</u>	Straddle _____

Approved By <u>Paul Simpson</u>	Circ. Sub _____
Our Representative <u>Paul Simpson</u>	Sampler _____
	Extra Packer _____
	Other _____

Printcraft Printers - Hays, KS

invoice to Plainville copy to Musgrave TOTAL PRICE \$ 450

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>HUCK A-5 (TWIN)</u>	Test No. <u>2</u>	Date <u>10/22/89</u>
Company <u>QUINOCO PETROLEUM INC</u>	Zone Tested <u>ARBUCKLE</u>	
Address <u>P.O. BOX 378111 DENVER CO</u>	Elevation <u>2243 KB</u>	
Co. Rep./Geo. <u>MR JIM MUSGROVE</u>	Cont. <u>RED TIGER #7</u>	Est. Ft. of Pay <u>8</u>
Location: Sec. <u>31</u>	Twp. <u>11S</u>	Rge. <u>20W</u> Co. <u>ELLIS</u> State <u>KANSAS</u>

Interval Tested <u>3824-3832</u>	Drill Pipe Size <u>5" IF</u>
Anchor Length <u>8</u>	Top Choke — 1" _____
Top Packer Depth <u>3819</u>	Bottom Choke — 3/4" _____
Bottom Packer Depth <u>3824</u>	Hole Size — 7 7/8" _____
Total Depth <u>3832</u>	Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____	Ft. Run <u>378</u>
Drill Collar — 2.25 _____	Ft. Run <u>0</u>
Mud Wt. <u>9.4</u> lb./gal.	Viscosity <u>49</u> Filtrate <u>11.6</u>
Tool Open @ <u>10:41 AM</u>	Initial Blow <u>WEAK 1/2" BLOW BUILDING TO 9"</u>

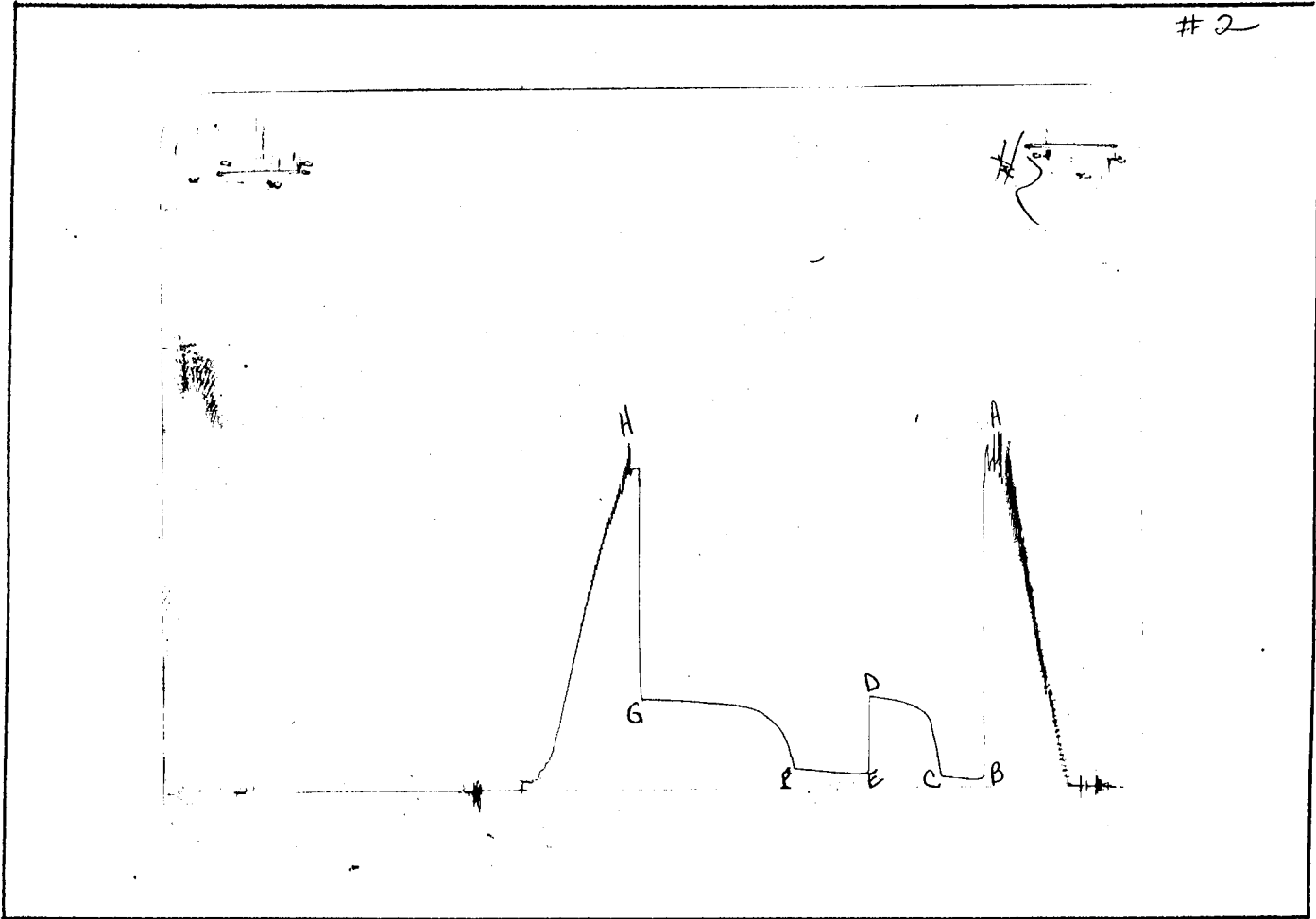
Final Blow VERY WEAK SURFACE BLOW BUILDING TO 8" - (WEAK BLOW BACK ON SHUT-IN)

Recovery — Total Feet <u>250</u>	Flush Tool? _____
Rec. <u>180</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>190</u> Feet of <u>CLEAN GASSY OIL</u>	
Rec. <u>60</u> Feet of <u>HEAVY OIL CUT WATERY MUD-30% OIL/10% WATER/60% MUD</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	

BHT <u>120</u> °F	Gravity <u>36</u> °API @ <u>80</u> °F	Corrected Gravity <u>34</u> °API
RW <u>.60</u> @ <u>85.5</u> °F	Chlorides <u>8400</u> ppm	Recovery Chlorides <u>6000</u> ppm System

(A) Initial Hydrostatic Mud <u>1995.4</u> PSI	AK1 Recorder No. <u>13337</u>	Range <u>3975</u>
(B) First Initial Flow Pressure <u>24.2</u> PSI	@ (depth) <u>3831</u>	w/Clock No. <u>27501</u>
(C) First Final Flow Pressure <u>51.7</u> PSI	AK1 Recorder No. <u>5495</u>	Range <u>4200</u>
(D) Initial Shut-in Pressure <u>535.6</u> PSI	@ (depth) <u>3827</u>	w/Clock No. <u>25810</u>
(E) Second Initial Flow Pressure <u>63.4</u> PSI	Initial Opening <u>30</u>	
(F) Second Final Flow Pressure <u>104.5</u> PSI	Initial Shut-in <u>60</u>	
(G) Final Shut-in Pressure <u>524.1</u> PSI	Final Flow <u>60</u>	
(H) Final Hydrostatic Mud <u>1871.2</u> PSI	Final Shut-in <u>120</u>	

Our Representative MR PAUL SIMPSON TOTAL PRICE \$ 450
Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2000	1995.4	PSI
(B) First Initial Flow Pressure.....	11	24.2	PSI
(C) First Final Flow Pressure.....	55	51.7	PSI
(D) Initial Closed-In Pressure.....	548	535.6	PSI
(E) Second Initial Flow Pressure.....	66	63.4	PSI
(F) Second Final Flow Pressure.....	110	104.5	PSI
(G) Final Closed-in Pressure.....	548	524.1	PSI
(H) Final Hydrostatic Mud.....	1884	1871.2	PSI

COMPUTER EVALUATION BY TRILOBITE TESTING
 QUINOCO PETROLEUM INC
 REPORT FOR DST#2 FOR THE HUCK A-5 (TWIN)
 31-11S-20W ELLIS KS

 TEST PARAMETERS

ELEVATION: 2243 KB EST. PAY: 8 FT
 DATUM: -1585 ZONE TESTED: ARBUCKLE
 TEST INTERVAL: 3824-3832
 RECORDER DEPTH: 3827 TIME INTERVALS: 30-60-60-120
 BOTTOM HOLE TEMP: 120 VISCOSITY: 5.345691 CP
 HOLE SIZE: 7.875 IN

 CALCULATIONS

CUBIC FEET OF GAS IN PIPE: .65
 TOTAL FEET OF RECOVERY: 250
 BARRELS IN WEIGHT PIPE: 1.95
 GAS OIL RATIO: 4.690421 CU.FT./BBL
 BUBBLE POINT PRESSURE: ; .5202729
 TOTAL BARRELS OF RECOVERY: 1.95
 UNCORR. INIT. PROD.: 31.2 BBL/DAY
 PI GRAVITY: 34 FLUID GRADIENT: .37
 CORRECTED PIPE FILLUP: 282.4324
 CORR. BARRELS OF RECOVERY: 2.1996 BBL
 INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 35.1936 BBL/DAY
 INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
 20.18162

INITIAL SHUT-IN VALUES:
 THEORETICAL STATIC PRESSURE 592.096
 SLOPE 320.8914

FINAL SHUT-IN VALUES
 THEORETICAL STATIC PRESSURE 570.5252
 SLOPE 191.0548

TRANSMISSIBILITY 29.95203 (MD.-FT./CP.)
 PERMEABILITY 20.01429 (MD.)
 INDICATED FLOW CAPACITY 160.1143 (MD.FT)
 PRODUCTIVITY INDEX .0338458 (BARRELS/DAY/PSI)
 DAMAGE RATIO .4463778

RADIUS OF INVESTIGATION 42.44156 (FT.)
 POTENTIOMETRIC SURFACE -260.952 (FT.)
 DRAWDOWN FACTOR 3.643125 (%)

INITIAL FLOW

REORDER # 5495
DST 2

DT (MIN)	PRESSURE	<>	PRESSURE
0	24.2		24.2
3	24.2		0
6	26.3		2.099999
9	29.5		3.200001
12	33.8		4.299999
15	36.9		3.100002
18	41.1		4.199997
21	43.2		2.100002
24	45.3		2.099999
27	47.4		2.100002
30	49.6		2.199997
33	51.7		2.100002

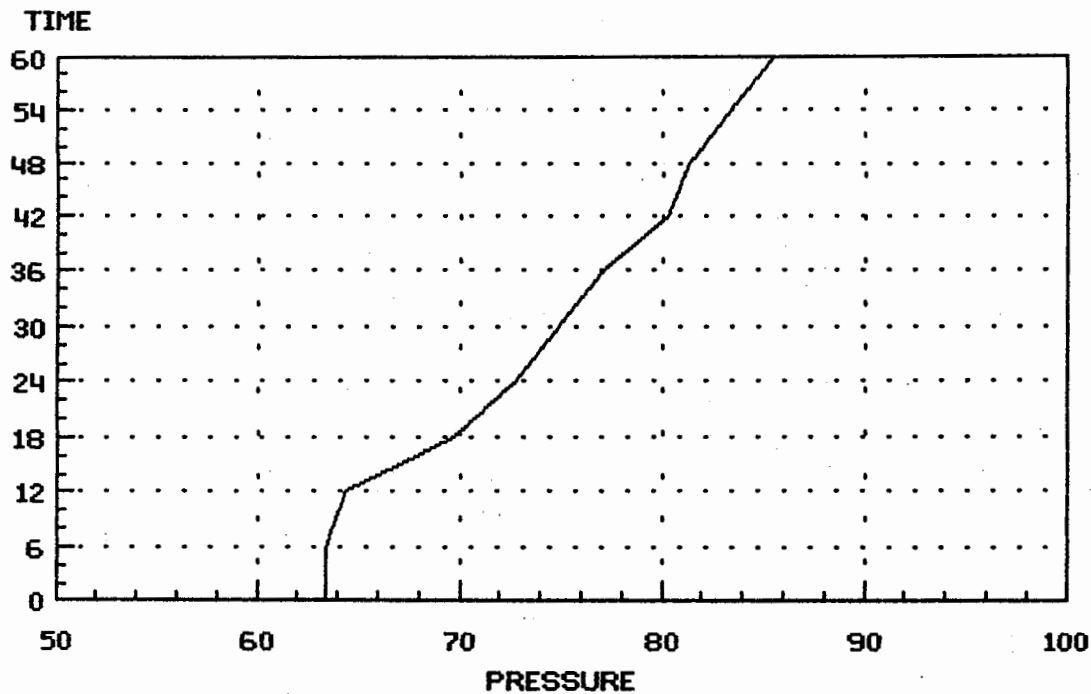
FINAL FLOW

REORDER # 5495
DST 2

DT (MIN)	PRESSURE	<>	PRESSURE
0	63.4		63.4
3	63.4		0
6	64.4		1
9	69.7		5.299996
12	72.8		3.100006
15	74.9		2.099999
18	77.1		2.199997
21	80.3		3.200005
24	81.3		1
27	83.4		2.099999
30	85.5		2.099999
33	88.7		3.199997
36	90.8		2.100006
39	91.8		1
42	91.8		0
45	93.9		2.099999
48	96.1		2.199997
51	97.2		1.099999
54	98.2		1
57	99.3		1.100006
60	104.5		5.199997

DELTA T DELTA P

DST #2 FINAL FLOW
RECORDER #5495



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 20.18162 BBL/DAY

INITIAL SHUT-IN BUILDUP
DST #2

RECORDER # 5495
INITIAL FLOW TIME (MIN.): 30

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	51.7	51.7
3	1.041205	204.8	153.1
6	.778011	301.1	96.3
9	.6367073	356.1	55
12	.5439701	394.2	38.10001
15	.4770353	432.1	37.9
18	.425892	449.1	17
21	.3852815	465.9	16.79999
24	.352119	477.6	11.70001
27	.3244526	489.1	11.5
30	.3009757	499.7	10.60001
33	.280776	506.2	6.5
36	.263194	512.4001	6.200012
39	.2477398	517.7	5.299988
42	.234041	520.8	3.099976
45	.2218087	523.1	2.299988
48	.2108154	524.1	1
51	.2008786	527.2	3.100037
54	.191851	530.4	3.200012
57	.1836113	531.4	1
60	.1760595	535.6	4.199951

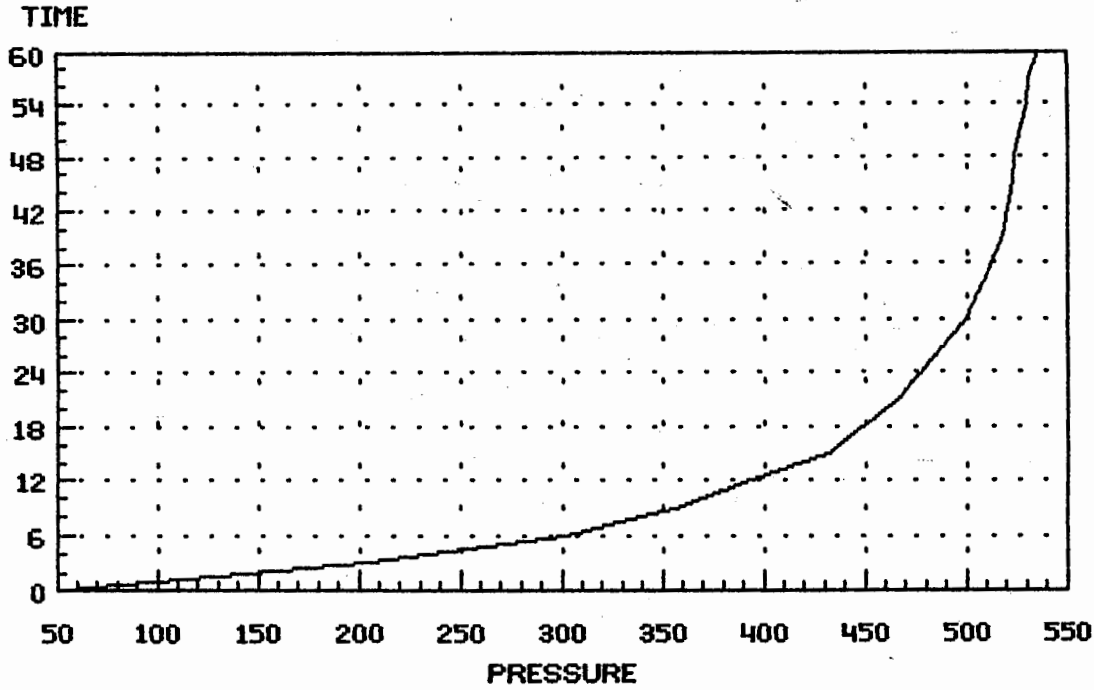
FINAL SHUT-IN BUILDUP
DST #2

RECORDER # 5495
TOTAL FLOW TIME (MIN.): 90

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	104.5	104.5
6	1.203903	286.3	181.8
12	.9292515	364.5	78.20001
18	.778011	404.6	40.10001
24	.6765717	430.1	25.5
30	.6019515	449.1	19
36	.5439701	463.8	14.69998
42	.4972351	474.8	11
48	.4585552	481.8	7
54	.425892	489.1	7.300019
60	.3978683	495.5	6.399994
66	.3735134	501.8	6.299988
72	.352119	505.1	3.300018
78	.3331547	510.3	5.199982
84	.316213	511.4	1.100006
90	.3009757	512.4001	1.000031
96	.2871899	516.6	4.199951
102	.2746515	517.7	1.100037
108	.263194	520.8	3.099976
114	.2526798	524.1	3.299988
120	.2429943	524.1	0
126	.234041	524.1	0

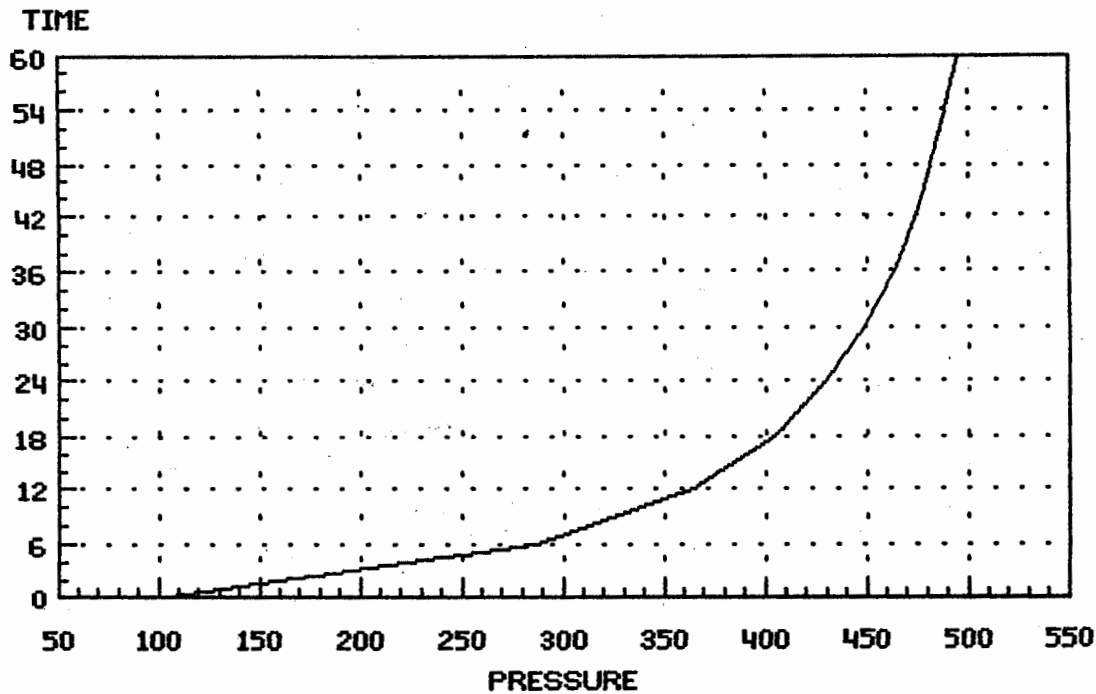
DELTA T DELTA P

DST #2 INITIAL SHUTIN
RECORDER #5495



DELTA T DELTA P

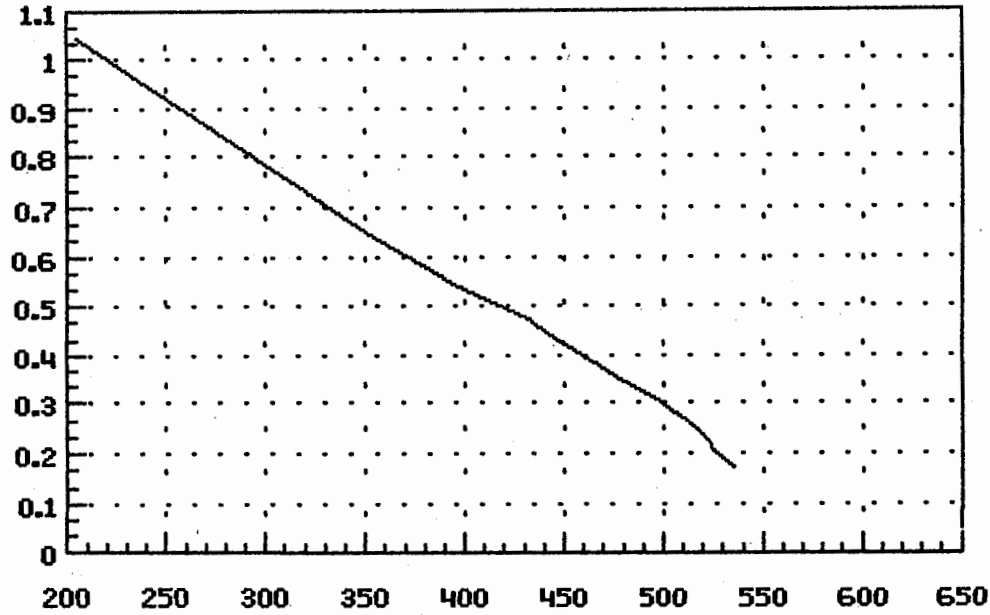
DST #2 FINAL SHUTIN
RECORDER #5495



HORNER PLOT

DST #2 INITIAL SHUTIN
RECORDER #5495

LOG = T + (MIN/MIN)

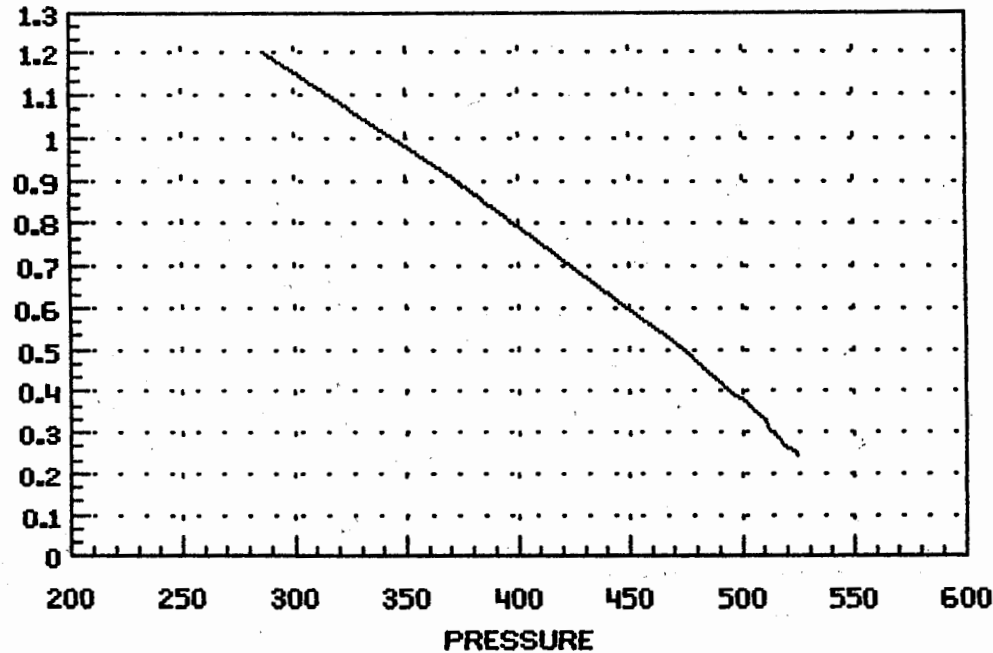


STATIC PRESSURE 592.096
SLOPE 320.8914
POINTS USED 21

HORNER PLOT

DST #2 FINAL SHUTIN
RECORDER #5495

LOG = T + (MIN/MIN)



STATIC PRESSURE 570.5252
SLOPE 191.0548
POINTS USED 21

TRILOBITE TESTING COMPANY

P.O. Box 382 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2205 Date 10/22/89
Company Name QUINOCO PETROLEUM INC
Lease HUCK A-5 (TWIN) Test No. 2
County ELLIS Sec. 31 Twp. 11S Rng. 20W

SAMPLER RECOVERY

Gas 300 ML
Oil 3500 ML
Mud 200 ML
Water 0 ML
Other 0 ML
Pressure 260 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 6000 ppm.
Resistivity 1.4 ohms @ 70 F
Viscosity 49
Mud Weight 9.4
Filtrate 11.6
Other _____

SAMPLER ANALYSIS

Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
Gravity 34 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
MIDDLE
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
BOTTOM
Resistivity .6 ohms @ 85.5 F
Chlorides 8400 ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2205

Well Name & No. Huck A-5 (Twin) Test No. 2 Date 10/22/89
 Company Quinoco Petroleum Inc Zone Tested Arb
 Address P.O. Box 37811 Denver Colo 80237 Elevation _____
 Co. Rep./Geo. Jim Musgrave cont. (Red Tiger #) Est. Ft. of Pay 8
 Location: Sec. 31 Twp. 11s Rge. 20w Co. Ells State Ks

Interval Tested 3824-3832 Drill Pipe Size 5" IF
 Anchor Length 8 Top Choke — 1" _____
 Top Packer Depth 3819 Bottom Choke — 3/4" _____
 Bottom Packer Depth 3824 Hole Size — 7 7/8" _____
 Total Depth 3832 Rubber Size — 6 3/4" _____
 Wt. Pipe I.D. — 2.7 _____ Ft. Run 378
 Drill Collar — 2.25 _____ Ft. Run _____
 Mud Wt. 94 lb./gal. Viscosity 49 Filtrate 11.6
 Tool Open @ 10:41 AM Initial Blow weak 1/2" blow building to 911

Final Blow very weak surface blow building to 8"
(weak blow back on shut-in)

Recovery — Total Feet _____ Flush Tool? _____
 Rec. 180 Feet of gas in pipe
 Rec. 190 Feet of clean gassy oil
 Rec. 60' Feet of Very Heavy oil cut mud — mud cut oil
 Rec. _____ Feet of Heavy oil cut water, mud 30% oil 10% water 60% mud
 Rec. _____ Feet of _____

BHT 120 °F Gravity 36 °API @ 80 °F Corrected Gravity 34 °API
 RW 160 @ 85.5 °F Chlorides 8400 ppm Recovery Chlorides 6000 ppm System
 (A) Initial Hydrostatic Mud 2000 PSI AK1 Recorder No. 13337 Range 3975
 (B) First Initial Flow Pressure 10 PSI @ (depth) 3831 w/Clock No. 27501
 (C) First Final Flow Pressure 455 PSI AK1 Recorder No. 5439 Range 5495 4200
 (D) Initial Shut-In Pressure 548 PSI @ (depth) 3827 w/Clock No. 25810
 (E) Second Initial Flow Pressure 66 PSI Initial Opening 30 Test 1100
 (F) Second Final Flow Pressure 110 PSI Initial Shut-In 60 Jars Y
 (G) Final Shut-In Pressure 548 PSI Final Flow 60 Safety Joint Y
 (H) Final Hydrostatic Mud 1884 PSI Final Shut-In 120 Straddle _____

Approved By Jim Musgrave
 Our Representative Paul Simpson

Circ. Sub _____
 Sampler Y 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-5 (TWIN)	Test No.	3	Date	10/23/89				
Company	QUINOCO PETROLEUM INC	Zone Tested	ARBUCKLE						
Address	P.O. BOX 378111 DENVER COLORADO		Elevation	2243 KB					
Co. Rep./Geo.	MR JIM MUSGROVE	cont.	RED TIGER #7	Est. Ft. of Pay	11				
Location: Sec.	31	Twp.	11S	Rge.	20W	Co.	ELLIS	State	KANSAS

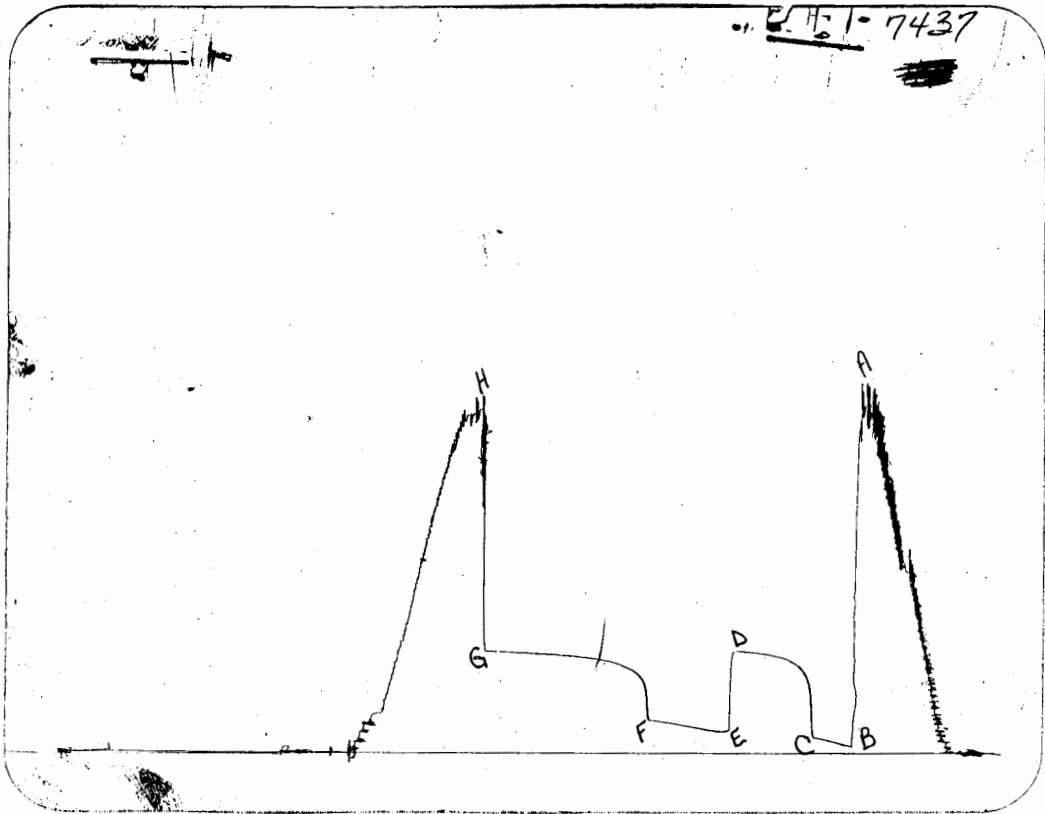
Interval Tested	3835' - 3846'	Drill Pipe Size	5" IF			
Anchor Length	11	Top Choke - 1"				
Top Packer Depth	3830	Bottom Choke - 3/4"				
Bottom Packer Depth	3835	Hole Size - 7 7/8"				
Total Depth	3846	Rubber Size - 6 3/4"				
Wt. Pipe I.D. - 2.7		Ft. Run	378			
Drill Collar - 2.25		Ft. Run	0			
Mud Wt.	9.4	lb./gal.	Viscosity	46	Filtrate	11.4
Tool Open @	12:31 AM	Initial Blow	1" BLOW BUILDING TO 12"			

Final Blow VERY WEAK SURFACE BLOW BUILDING TO BOTTOM OF BUCKET IN 35 MINUTES

Recovery - Total Feet	320	Flush Tool?	
Rec.	120	Feet of	GAS IN PIPE
Rec.	114	Feet of	CLEAN GASSY OIL
Rec.	60	Feet of	OIL & WATER CUT MUD-5%OIL/15%WATER/80%MUD
Rec.	146	Feet of	OIL SPECKED WATER
Rec.	0	Feet of	

BHT	122 °F	Gravity	35	°API @	60	°F	Corrected Gravity	35	°API	
RW	.256 @	71.8 °F	Chlorides	27000	ppm	Recovery	Clorides	6000	ppm	System
(A) Initial Hydrostatic Mud	2106.9	PSI	AK1 Recorder No.	7437	Range	4200				
(B) First Initial Flow Pressure	24.3	PSI	@ (depth)	3845	w/Clock No.	26199				
(C) First Final Flow Pressure	80.3	PSI	AK1 Recorder No.	5495	Range	4200				
(D) Initial Shut-In Pressure	560	PSI	@ (depth)	3840	w/Clock No.	25810				
(E) Second Initial Flow Pressure	104.5	PSI	Initial Opening	30						
(F) Second Final Flow Pressure	170.1	PSI	Initial Shut-In	60						
(G) Final Shut-In Pressure	546.3	PSI	Final Flow	60						
(H) Final Hydrostatic Mud	1955.4	PSI	Final Shut-In	120						

Our Representative MR PAUL SIMPSON TOTAL PRICE \$ 450



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1926	2106.9	PSI
(B) First Initial Flow Pressure.....	11	24.3	PSI
(C) First Final Flow Pressure.....	77	80.3	PSI
(D) Initial Closed-in Pressure.....	579	560	PSI
(E) Second Initial Flow Pressure.....	99	104.5	PSI
(F) Second Final Flow Pressure.....	187	170.1	PSI
(G) Final Closed-in Pressure.....	579	546.3	PSI
(H) Final Hydrostatic Mud.....	1894	1955.4	PSI

COMPUTER EVALUATION BY TRILUBITE TESTING
 QUINOCO PETROLEUM INC
 REPORT FOR DST#3 FOR THE HUCK A-5 (TWIN)
 31-11S-20W ELLIS KS

TEST PARAMETERS

ELEVATION:	2243 KB	EST. PAY:	11 FT
DATUM:	-1598	ZONE TESTED:	ARBUCKLE
TEST INTERVAL:	3835'-3846'		
RECORDER DEPTH:	3840	TIME INTERVALS:	30-60-60-120
BOTTOM HOLE TEMP:	122	VISCOSITY:	4.988997 CP
		HOLE SIZE:	7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE:	.65		
TOTAL FEET OF RECOVERY:	320		
BARRELS IN WEIGHT PIPE:	2.496		
GAS OIL RATIO:	2.889925 CU.FT./BBL		
BUBBLE POINT PRESSURE:	; .3220632		
TOTAL BARRELS OF RECOVERY:	2.496	UNCORR. INIT. PROD.:	39.936 BBL/DAY
API GRAVITY:	35	FLUID GRADIENT:	.368
CORRECTED PIPE FILLUP:	462.2283	CORR. BARRELS OF RECOVERY:	4.494 BBL
		INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:	71.904 BBL/DAY
		INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE	
			36.51304

INITIAL SHUT-IN VALUES:
 THEORETICAL STATIC PRESSURE 600.446
 LOPE 229.729

FINAL SHUT-IN VALUES
 THEORETICAL STATIC PRESSURE 578.9415
 LOPE 134.3301

PERMEABILITY	87.03628 (MD.-FT./CP.)
PERMEABILITY	39.47489 (MD.)
INDICATED FLOW CAPACITY	434.2237 (MD.FT)
PRODUCTIVITY INDEX	9.835099E-02 (BARRELS/DAY/PSI)
SKIN EFFECT COEFFICIENT	.5569712
DIAMETER OF INVESTIGATION	59.60486 (FT.)
DRIFT SURFACE	-254.4346 (FT.)
SKIN FACTOR	3.581417 (%)

INITIAL FLOW

RECORDER # 5495
DST 3

DT (MIN)	PRESSURE	<> PRESSURE
0	24.3	24.3
3	31.7	7.400002
6	35.9	4.200001
9	40.1	4.199997
12	45.3	5.200001
15	53.8	8.5
18	60.2	6.400002
21	67.6	7.399998
24	72.8	5.200005
27	78.1	5.299996
30	80.3	2.200005

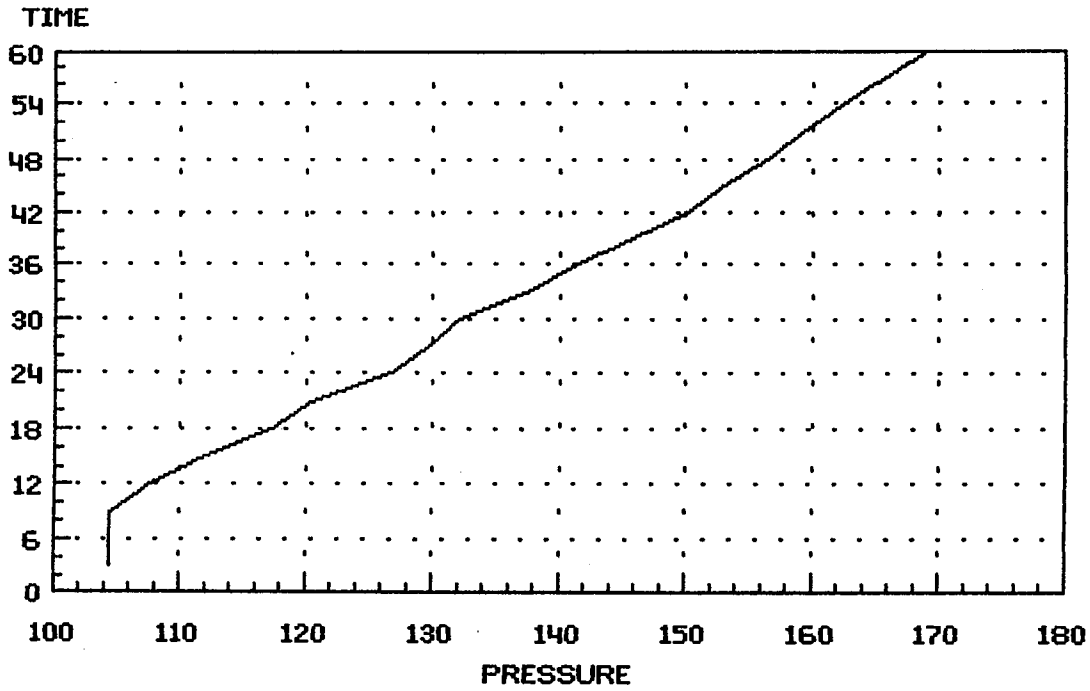
FINAL FLOW

RECORDER # 5495
DST 3

DT (MIN)	PRESSURE	<> PRESSURE
0	104.5	104.5
3	104.5	0
6	104.5	0
9	107.7	3.199997
12	112.1	4.400002
15	117.3	5.200005
18	120.4	3.099999
21	126.8	6.400002
24	129.9	3.099991
27	132.1	2.200012
30	137.3	5.199997
33	141.5	4.199997
36	145.8	4.300003
39	150.1	4.300003
42	153.1	3
45	156.4	3.299988
48	159.5	3.100006
51	162.7	3.199997
54	165.8	3.100006
57	169.1	3.300003
60	170.1	1

DELTA T DELTA P

DST #3 FINAL FLOW
RECORDER # 5495



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 36.51304 BBL/DAY

INITIAL SHUT-IN BUILDUP
DST #3

RECORDER # 5495
INITIAL FLOW TIME (MIN.): 30

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	80.3	80.3
3	1.041205	257.8	177.5
6	.778011	420.6	162.8
9	.6367073	463.8	43.19998
12	.5439701	479.7	15.90003
15	.4770353	495.5	15.79999
18	.425892	502.9	7.399994
21	.3852815	514.5	11.60001
24	.352119	520.8	6.299988
27	.3244526	526.2	5.400025
30	.3009757	531.5	5.299988
33	.280776	535.5	4
36	.263194	541	5.5
39	.2477398	542.1	1.099976
42	.234041	544.2	2.100037
45	.2218087	546.2	2
48	.2108154	549.4	3.200012
51	.2008786	552.7	3.299988
54	.191851	555.8	3.099976
57	.1836113	559.5	3.700012
60	.1760595	560	.5

FINAL SHUT-IN BUILDUP
DST #3

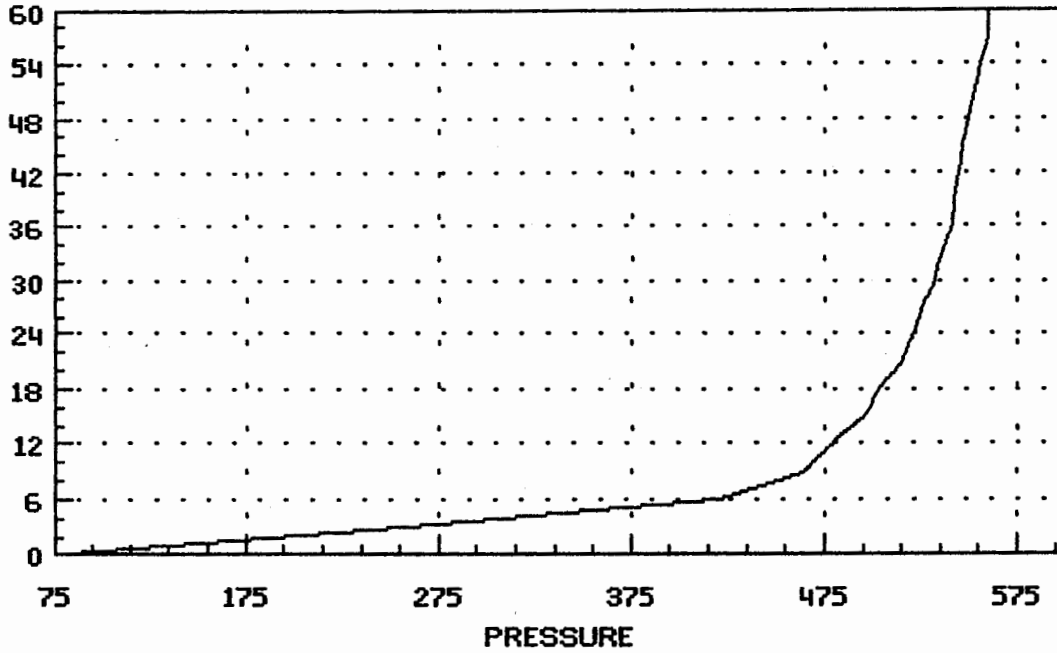
RECORDER # 5495
TOTAL FLOW TIME (MIN.): 90

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	170.1	170.1
6	1.203903	412.1	242
12	.9292515	454.4	42.29999
18	.778011	478.7	24.30002
24	.6765717	490.3	11.59998
30	.6019515	498.7	8.400024
36	.5439701	507.2	8.5
42	.4972351	510.3	3.099976
48	.4585552	514.6	4.299988
54	.425892	518.7	4.100037
60	.3978683	523.1	4.399964
66	.3735134	528.3	5.200012
72	.352119	532.5	4.200012
78	.3331547	534.7	2.200012
84	.316213	537.9	3.200012
90	.3009757	538.9	1
96	.2871899	541	2.099976
102	.2746515	543.1	2.099976
108	.263194	544.2	1.100037
114	.2526798	545.3	1.099976
120	.2429943	546.3	1

DELTA T DELTA P

DST #3 INITIAL SHUTIN
RECORDER #5495

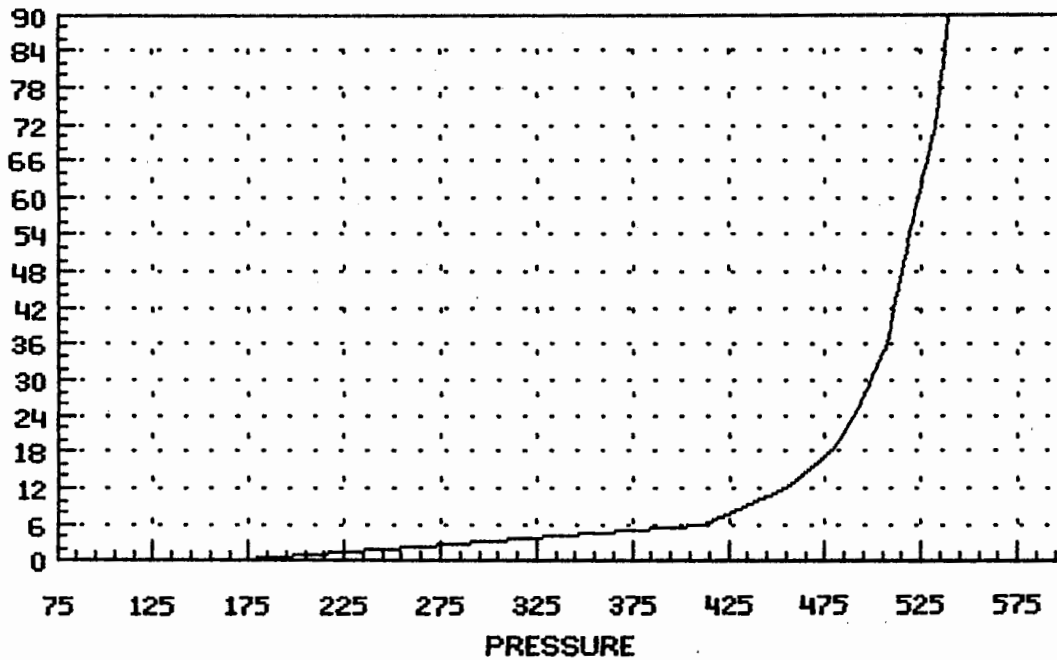
TIME



DELTA T DELTA P

DST #3 FINAL SHUTIN
RECORDER #5495

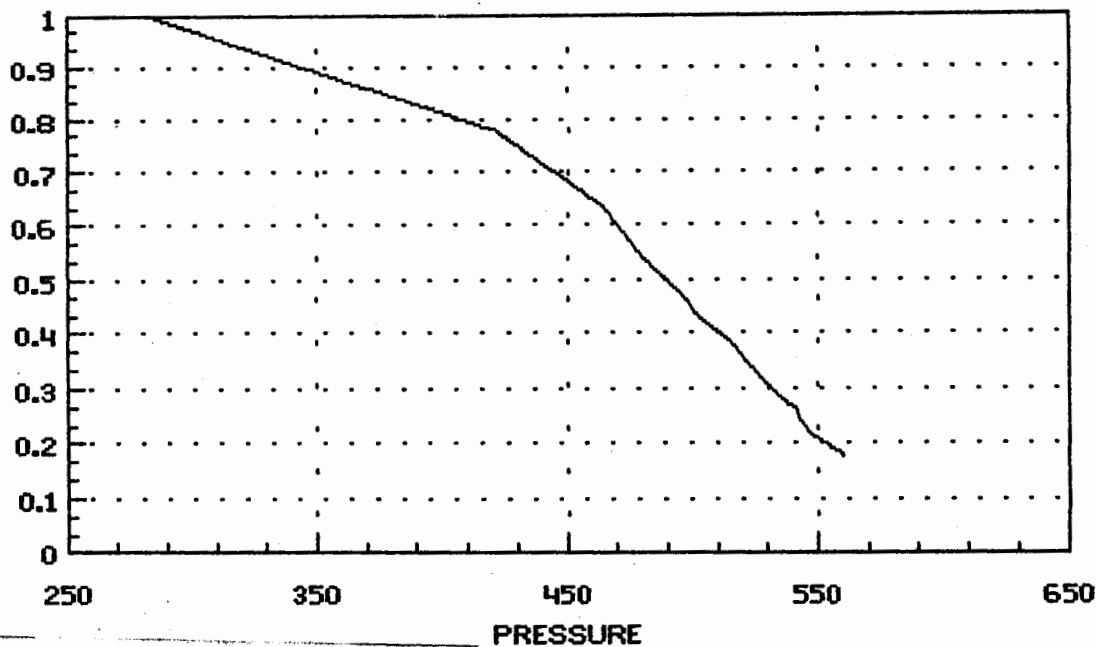
TIME



HORNER PLOT

DST #3 INITIAL SHUTIN
RECORDER #5495

LOG = T+(MIN/MIN)

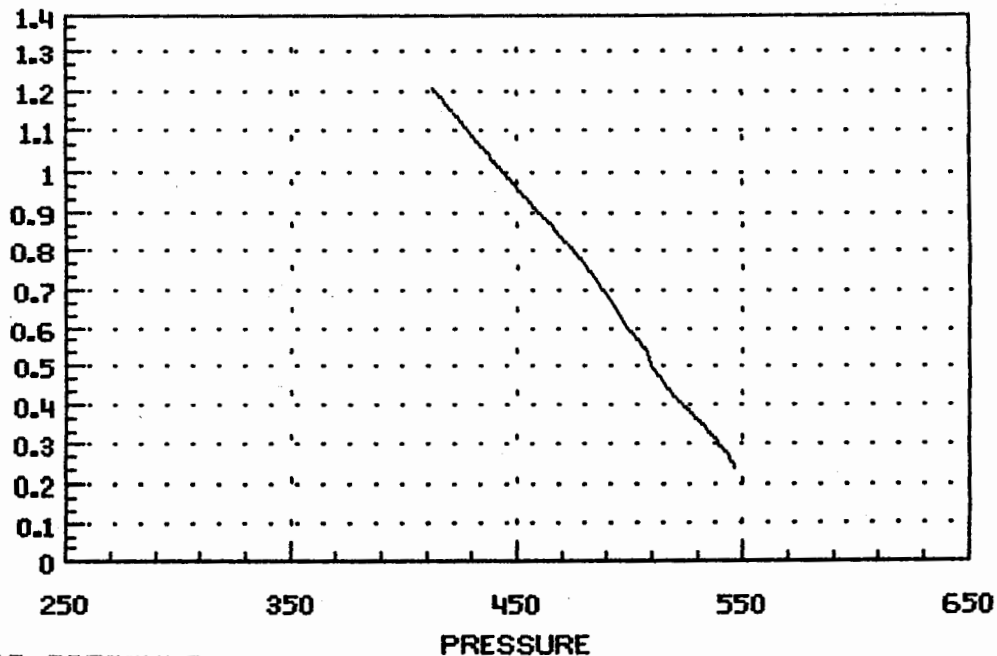


STATIC PRESSURE 600.446
SLOPE 229.729
POINTS USED 19

HORNER PLOT

DST #3 FINAL SHUTIN
RECORDER #5495

LOG = T+(MIN/MIN)



STATIC PRESSURE 578.9415
SLOPE 134.3301
POINTS USED 20

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2206 Date 10/23/89
Company Name QUINOCO PETROLEUM INC
Lease HUCK A-5 (TWIN) Test No. 3
County ELLIS Sec. 31 Twp. 11S Rng. 20W

SAMPLER RECOVERY

Gas 200 ML
Oil 600 ML
Mud 0 ML
Water 3200 ML
Other 0 ML
Pressure 150 PSI
Total 400 ML

PIT MUD ANALYSIS

Chlorides 6000 ppm.
Resistivity 1.1 ohms @ 70 F
Viscosity 46
Mud Weight 9.4
Filtrate 11.4
Other _____

SAMPLER ANALYSIS

.255 72.7
Resistivity _____ ohms @ _____ F
Chlorides 26500 ppm.
Gravity 35 corrected @ 80 F

PIPE RECOVERY

TOP
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
MIDDLE
Resistivity .268 ohms @ 71.1 F
Chlorides 26000 ppm.
BOTTOM
Resistivity .256 ohms @ 71.8 F
Chlorides 27000 ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No. 2206

Well Name & No. Huck A-3 (twin) Test No. 3 Date 10/23/89
Company Quinoco Zone Tested Albuckle
Address _____ Elevation 2243
Co. Rep./Geo. Jim Musgrave cont. Red Tiger #7 Est. Ft. of Pay 11
Location: Sec. 31 Twp. 16s Rge. 20w Co. Ellis State Ks

Interval Tested 3835-3846 Drill Pipe Size 5" IF
Anchor Length 11 Top Choke — 1" _____
Top Packer Depth 3830 Bottom Choke — 3/4" _____
Bottom Packer Depth 3835 Hole Size — 7 1/8" _____
Total Depth 3846 Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____ Ft. Run 378
Drill Collar — 2.25 _____ Ft. Run _____
Mud Wt. 94 lb./gal. Viscosity 46 Filtrate 114
Tool Open @ 12:31 AM Initial Blow 1" blow building to 12"

Final Blow very weak surface blow building to bottom of bucket in 35 minutes

Recovery — Total Feet 320 Flush Tool? _____
Rec. 120 Feet of WIP
Rec. 114 Feet of Cl gassy oil
Rec. 60 Feet of O & W CM 5 9/10 oil 15 9/10 H2O 80 9/10 mud
Rec. 146 Feet of oil specked water

BHT 122 °F Gravity 35 °API @ 60 °F Corrected Gravity 35 °API
RW .256 @ 71.8 °F Chlorides 27,000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1926 PSI AK1 Recorder No. 743 Range 4200
(B) First Initial Flow Pressure 11 PSI @ (depth) 3845 w/Clock No. 26199
(C) First Final Flow Pressure 77 PSI AK1 Recorder No. 5495 Range 4200
(D) Initial Shut-In Pressure 579 PSI @ (depth) 3840 w/Clock No. 25810
(E) Second Initial Flow Pressure 99 PSI Initial Opening 30 Test 400
(F) Second Final Flow Pressure 187 PSI Initial Shut-In 60 Jars _____
(G) Final Shut-In Pressure 579 PSI Final Flow 60 Safety Joint _____
(H) Final Hydrostatic Mud 1894 PSI Final Shut-In 120 Straddle _____

Approved By Jim Musgrave Circ. Sub 50
Our Representative Paul Johnson Sampler _____
Extra Packer _____
Other _____
TOTAL PRICE \$ 450