TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. HUCK A #13 Test No. 1 Date 8/19/89

Company QUINOCO PETROLEUM INC Zone Tested LKC

Address P.O. BOX 37811 DENVER CO 80237 Elevation 2262

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 3702-3750 Drill Pipe Size 5 IF

Anchor Length 45 Top Choke — 1"

Top Packer Depth 3697 Bottom Choke — ¾"

Bottom Packer Depth 3702 Hole Size — 7⅞"

Total Depth 3750 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 377

Drill Collar — 2.25 Ft. Run 0

Mud Wt. 9.3 lb./gal. Viscosity 47 Filtrate 10.4

Tool Open @ 11:40 Initial Blow 2" BLOW BUILDING TO BOTTOM OF BUCKET IN 90 SEC (BLOWBACK BUILT TO BOTTOM IN 12 MIN)

Final Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 6 MIN (BLOWBACK BUILT TO 6")

Recovery — Total Feet 1050 Flush Tool? NO

Rec. 1250 Feet of GAS IN PIPE

Rec. 990 Feet of GASSY OIL

Rec. 60 Feet of MUD CUT OIL 75% OIL 25% MUD

Rec. 0 Feet of REVERSED OIL INTO TANK TRUCK

Rec. 0 Feet of

BHT 113 °F Gravity 31 °API @ 80 °F Corrected Gravity 29 °API

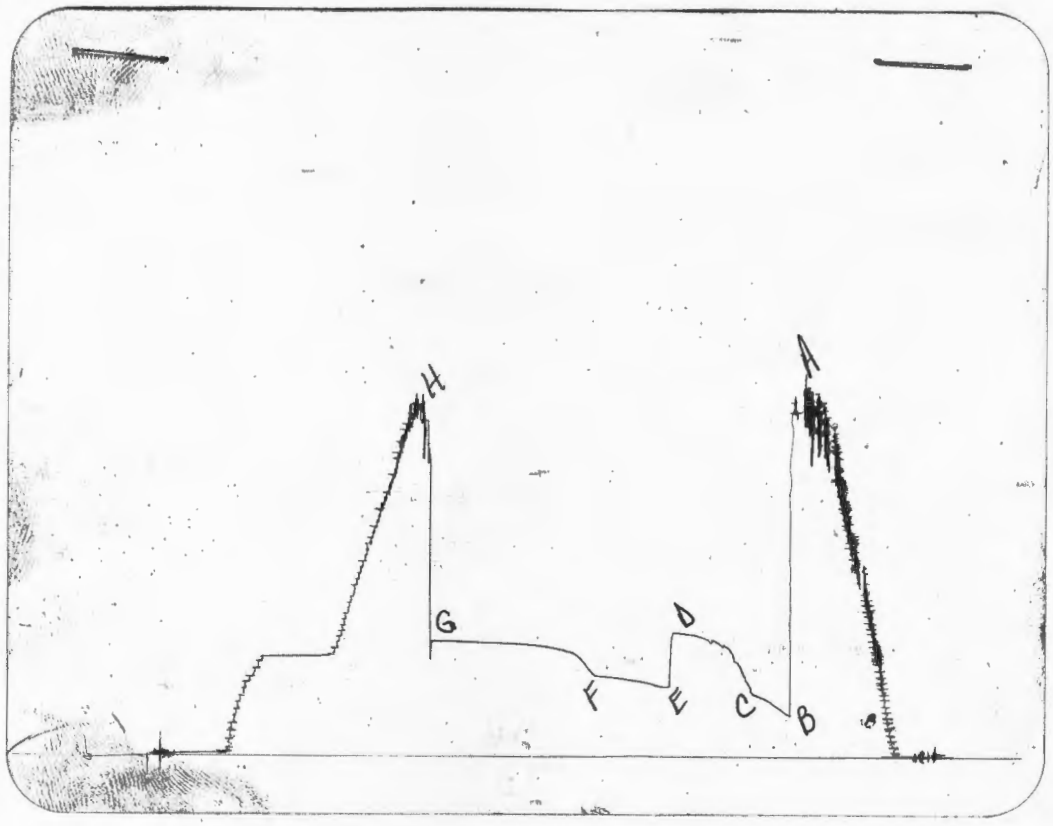
RW @ °F Chlorides ppm Recovery Clorides ppm System

(A)	Initial Hydrostatic Mud	1928.4 PSI	AK1 Recorder No.	13277	Range 4125
(B)	First Initial Flow Pressure	247.3 PSI	@ (depth)	3749	w/Clock No. 25828
(C)	First Final Flow Pressure	363.9 PSI	AK1 Recorder No.	7437	Range 4200
(D)	Initial Shut-In Pressure	696.6 PSI	@ (depth)	3743	w/Clock No. 26199
(E)	Second Initial Flow Pressure	384.4 PSI	Initial Opening	30	
(F)	Second Final Flow Pressure	470.8 PSI	Initial Shut-In	60	
(G)	Final Shut-In Pressure	658.8 PSI	Final Flow	60	
(H)	Final Hydrostatic Mud	1992.6 PSI	Final Shut-In	120	

Our Representative PAUL SIMPSON TOTAL PRICE ..... $ 470

Printcraft Printers - Hays, KS

DST #1



This is an actual photograph of recorder chart.

POINT	PRESSURE Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1963	1928.4	PSI
(B) First Initial Flow Pressure	245	247.3	PSI
(C) First Final Flow Pressure	349	363.9	PSI
(D) Initial Closed-in Pressure	674	696.6	PSI
(E) Second Initial Flow Pressure	380	384.4	PSI
(F) Second Final Flow Pressure	451	470.8	PSI
(G) Final Closed-in Pressure	634	658.8	PSI
(H) Final Hydrostatic Mud	1933	1992.6	PSI

COMPUTER EVALUATION BY TRILOBITE TESTING

QUINOCO PETROLEUM INC

REPORT FOR DST#1 FOR THE HUCK A #13

31-11S-20W ELLIS KS

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TEST PARAMETERS

ELEVATION:	2262 KB	EST. PAY:	5 FT
DATUM:	-1488	ZONE TESTED:	LOWER KC
TEST INTERVAL:	3702-3750		
		TIME INTERVALS:	30-60-60-120
RECORDER DEPTH:	3749	VISCOSITY:	9 CP
BOTTOM HOLE TEMP:	113	HOLE SIZE:	7.875 IN

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CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 99.79923

TOTAL FEET OF RECOVERY: 1050
BARRELS IN DRILL PIPE: 12.3832
BARRELS IN WEIGHT PIPE: 2.9406
GAS OIL RATIO: 6.512696 CU.FT./BBL
TOTAL BARRELS OF RECOVERY: 15.3238
UNCORR. INIT. PROD.: 245.1808 BBL/DAY
API GRAVITY: 30
FLUID GRADIENT: .379
CORRECTED PIPE FILLUP: 1242.216
CORR. BARRELS OF RECOVERY: 18.8566 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 301.7056 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
68.58695

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INITIAL SHUT-IN VALUES:
THEORETICAL STATIC PRESSURE 763.3563
SLOPE 379.1693

FINAL SHUT-IN VALUES
THEORETICAL STATIC PRESSURE 692.3544
SLOPE 138.0871

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TRANSMISSIBILITY	355.2637 (MD.-FT./CP.)
PERMEABILITY	639.4747 (MD.)
INDICATED FLOW CAPACITY	3197.373 (MD.FT)
PRODUCTIVITY INDEX	.401448 (BARRELS/DAY/PSI)
DAMAGE RATIO	.2936151
RADIUS OF INVESTIGATION	239.9015 (FT.)
POTENTIOMETRIC SURFACE	118.5698 (FT.)
DRAWDOWN FACTOR	9.301287 (%)

INITIAL FLOW

RECORDER # 13277
DST #1

DT(MIN)	PRESSURE	<> PRESSURE
0	247.3	247.3
3	251.5	4.199997
6	260.2	8.700012
9	272.1	11.89999
12	299.1	27
15	309.9	10.79999
18	318.5	8.600006
21	342.4	23.9
24	344.4	2
27	351.9	7.5
30	363.9	12

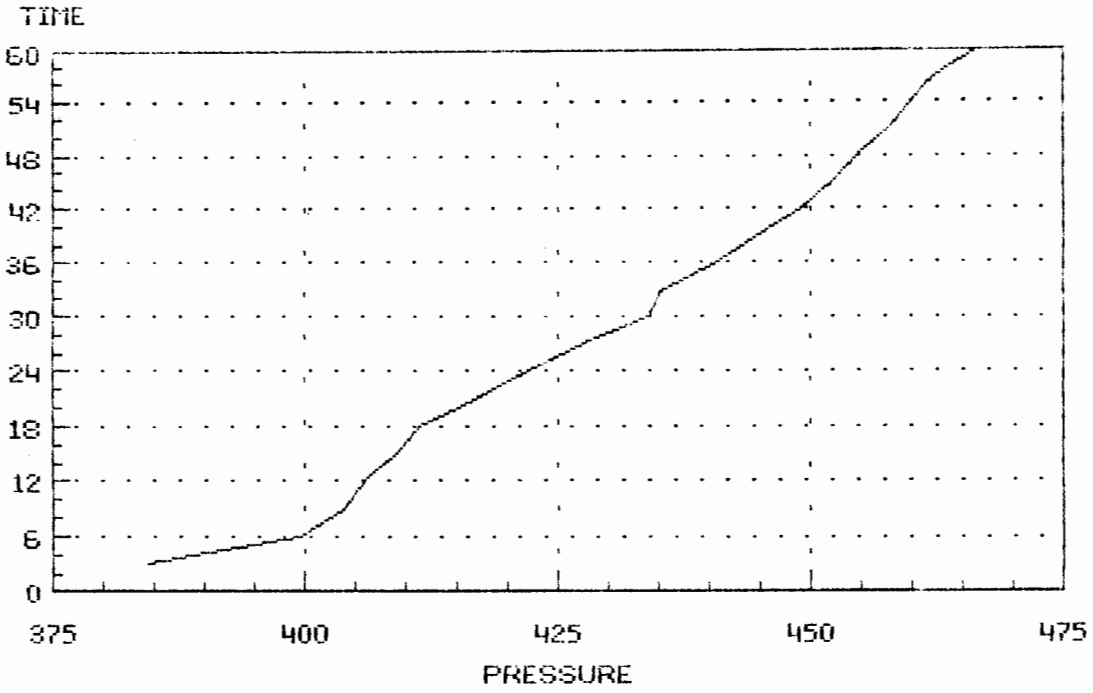
FINAL FLOW

RECORDER # 13277
DST #1

DT(MIN)	PRESSURE	<> PRESSURE
0	384.4	384.4
3	399.6	15.20001
6	403.9	4.299988
9	406	2.100006
12	409.2	3.200012
15	411.4	2.199982
18	418.9	7.5
21	421.2	2.300018
24	427.6	6.399994
27	434.1	6.5
30	435.2	1.100006
33	442.8	7.599976
36	444.9	2.100006
39	450.2	5.300019
42	452.2	2
45	454.6	2.399994
48	457.9	3.299988
51	460	2.100006
54	462.2	2.200012
57	466.5	4.299988
60	470.8	4.299988

DELTA T DELTA P

DST #1 FINAL FLOW
RECORDER # 13277



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 68.58695 BBL/DAY

INITIAL SHUT-IN BUILDUP
DST #1

RECORDER # 13277
INITIAL FLOW TIME (MIN.): 30

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	363.9	363.9
3	1.041205	403.9	40
6	.778011	444.9	41
9	.6367073	478.5	33.60001
12	.5439701	541.5	63
15	.4770353	577.8	36.29999
18	.425892	608.6	30.79999
21	.3852815	626	17.40003
24	.352119	635.2	9.200012
27	.3244526	648.5	13.29999
30	.3009757	653.6	5.099976
33	.280776	659.8	6.200012
36	.263194	668	8.200013
39	.2477398	672.1	4.099976
42	.234041	676.1	4
45	.2218087	681.3	5.200012
48	.2108154	684.4	3.100037
51	.2008786	691.5	7.099976
54	.191851	692.6	1.099976
57	.1836113	696.6	4
60	.1760595	696.6	0

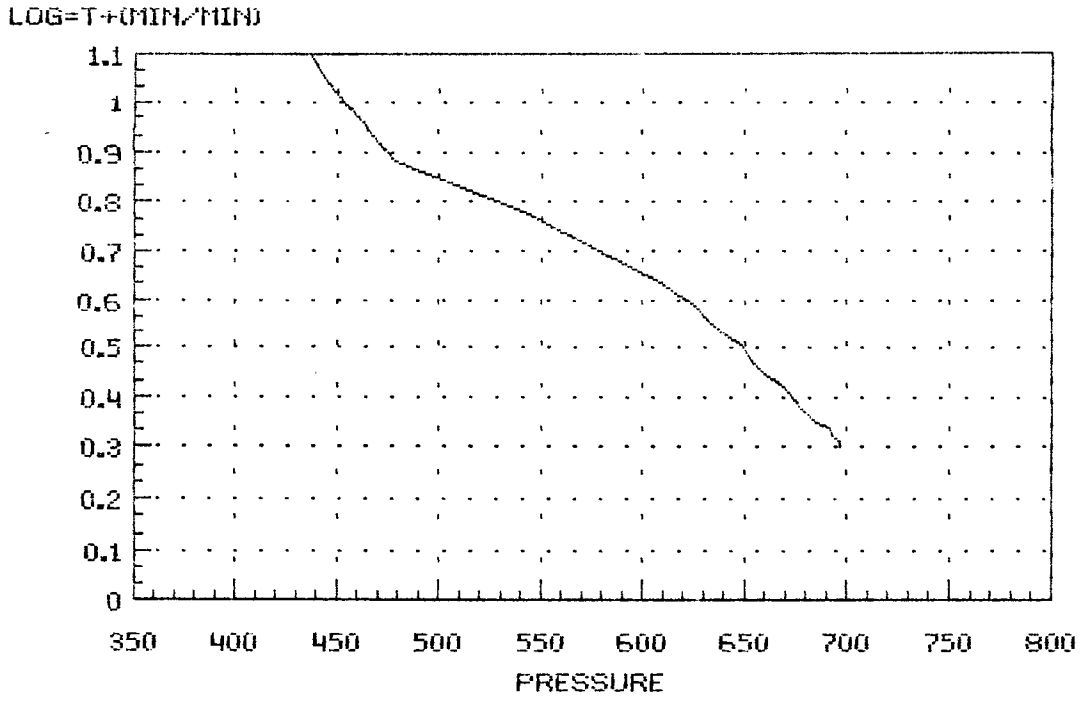
FINAL SHUT-IN BUILDUP
DST #1

RECORDER # 13277
TOTAL FLOW TIME (MIN.): 90

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	470.8	470.8
6	1.203903	486	15.20001
12	.9292515	535.8	49.79999
18	.778011	576.8	41
24	.6765717	594.2	17.40003
30	.6019515	612.6	18.39996
36	.5439701	622.9	10.30005
42	.4972351	631.9	9
48	.4585552	634.2	2.299988
54	.425892	637.2	3
60	.3978683	641.4	4.200012
66	.3735134	642.4	1
72	.352119	644.4	2
78	.3331547	647.5	3.099976
84	.316213	650.6	3.099976
90	.3009757	654.7	4.100037
96	.2871899	654.7	0
102	.2746515	655.7	1
108	.263194	656.7	1
114	.2526798	657.8	1.099976
120	.2429943	658.8	1

HORNER PLOT

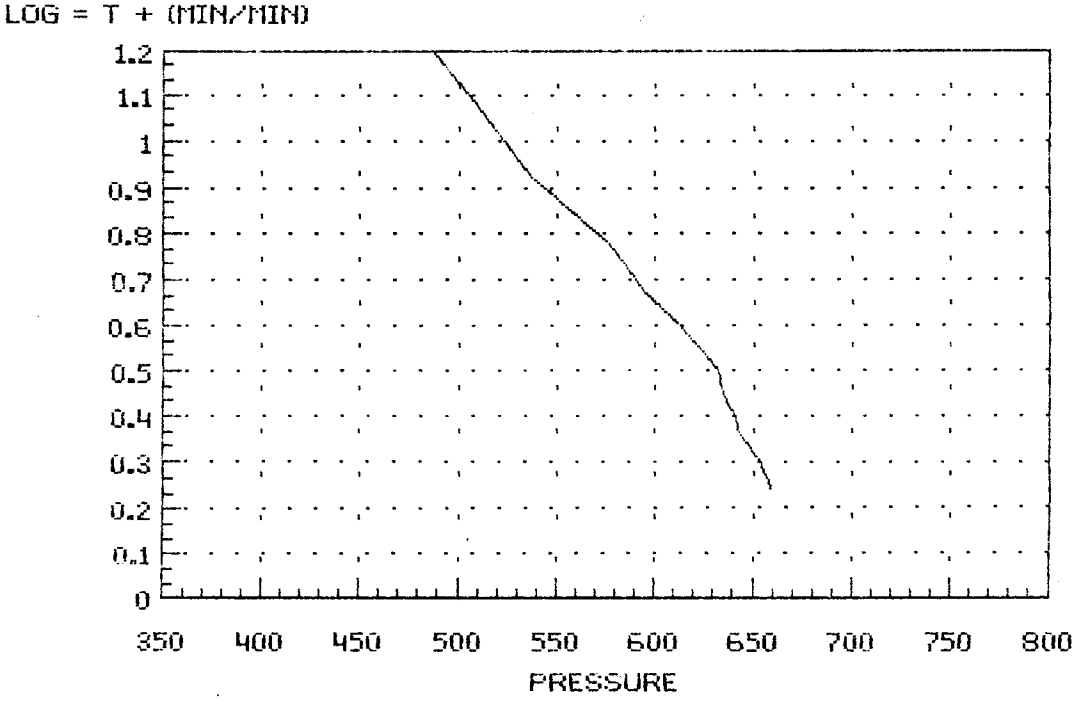
DST #1 INITIAL SHUTIN
RECORDER #13277



STATIC PRESSURE 763.3563
SLOPE 379.1693
POINTS USED 19

HORNER PLOT

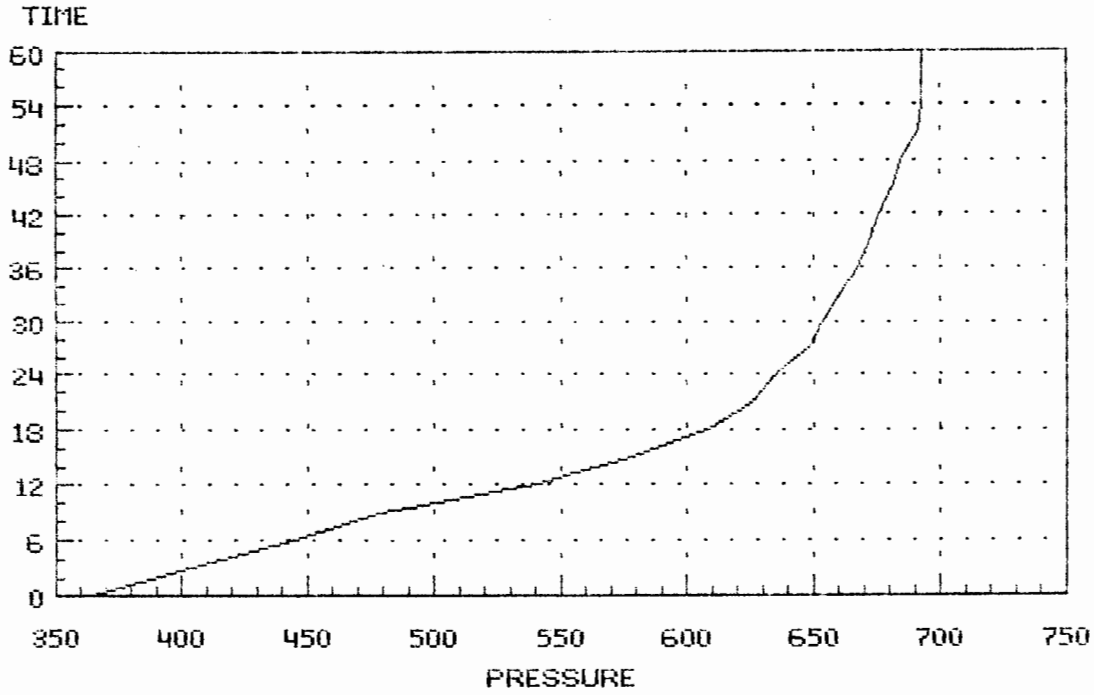
DST #1 FINAL SHUTIN
RECORDER #13277



STATIC PRESSURE 692.3544
SLOPE 138.0871
POINTS USED 19

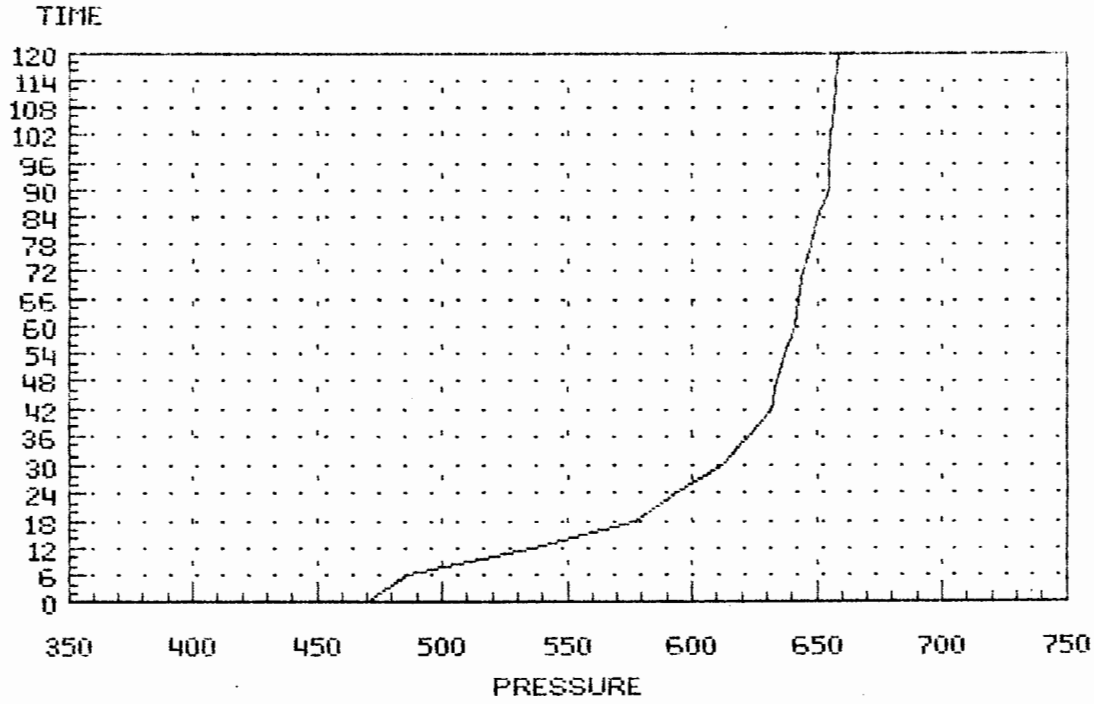
DELTA T DELTA P

DST #1 INITIAL SHUTIN
RECORDER #13277



DELTA T DELTA P

DST #1 FINAL SHUTIN
RECORDER #13277



TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2179 Date 8/19/89

Company Name QUINOCO PETROLEUM INC

Lease HUCK A # 13 Test No. 1

County ELLIS Sec. 31 Twp. 11s Rng. 20w

SAMPLER RECOVERY

Gas 850 ML

Oil 3100 ML

Mud 50 ML

Water ML

Other ML

Pressure 210 PSI

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 4100 ppm.

Resistivity 1.4 ohms @ 75 F

Viscosity 47

Mud Weight 9.3

Filtrate 10.4

Other

SAMPLER ANALYSIS

Resistivity ohms @ F

Chlorides ppm.

Gravity 29 corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity ohms @ F

Chlorides ppm.

MIDDLE

Resistivity ohms @ F

Chlorides ppm.

BOTTOM

Resistivity ohms @ F

Chlorides ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2179

Well Name & No. Hudy A #13 Test No. 1 Date 8/19/89

Company Quinoco Petroleum Inc Zone Tested LKC

Address PO Box 37811 Denver Co 80237 Elevation 2262

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 3702-3750 Drill Pipe Size 5" IF

Anchor Length 48 Top Choke — 1" _____

Top Packer Depth 3697 Bottom Choke — ¾" _____

Bottom Packer Depth 3702 Hole Size — 7⅞" _____

Total Depth 3750 Rubber Size — 6¾" _____

Wt. Pipe I.D. — 2.7 _____ Ft. Run 377

Drill Collar — 2.25 _____ Ft. Run _____

Mud Wt. 9.3 lb./gal. Viscosity 47 Filtrate 10.4

Tool Open @ 11:40 PM Initial Blow 2" blow building to bottom of bucket in 90 seconds (blowback built to bottom in 12 Min

Final Blow 1" blow building to bottom of bucket in 6 minutes (blowback built to 6")

Recovery — Total Feet 1050 Flush Tool? _____

Rec. 125 Feet of GIP

Rec. 990 Feet of Gassy Oil

Rec. 60 Feet of MCO | 75% O 25% M

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 113 °F Gravity 31 °API @ 80 °F Corrected Gravity 29 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A)	Initial Hydrostatic Mud	1963	PSI	AK1 Recorder No.	13277	Range	4125
(B)	First Initial Flow Pressure	245	PSI	@ (depth)	3749	w/Clock No.	25828
(C)	First Final Flow Pressure	349	PSI	AK1 Recorder No.	7437	Range	4200
(D)	Initial Shut-In Pressure	674	PSI	@ (depth)	3743	w/Clock No.	26199
(E)	Second Initial Flow Pressure	380	PSI	Initial Opening	30	Test	400
(F)	Second Final Flow Pressure	451	PSI	Initial Shut-In	60	Jars	X
(G)	Final Shut-In Pressure	634	PSI	Final Flow	60	Safety Joint	X
(H)	Final Hydrostatic Mud	1933	PSI	Final Shut-In	120	Straddle	_____
						Circ. Sub	20
						Sampler	50
						Extra Packer	_____
						Other	_____
						TOTAL PRICE	$ 470

Approved By Jim Musgrove

Our Representative Paul Simpson

Remarks; copies to Jim Musgrove Box 1162 Great Bend KS 67530.

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. HUCK A #13 Test No. 2 Date 8/21/89

Company QUINOCO PETROLEUM INC Zone Tested ARBUCKLE

Address P.O. BOX 37811 DENVER CO 80237 Elevation 2262

Co. Rep./Geo. JIM MUSGROVE Cont. RED TIGER #7 Est. Ft. of Pay 12

Location: Sec. 31 Twp. 11S Rge. 20W Co. ELLIS State KS

Interval Tested 3842-3854 Drill Pipe Size 5" IF

Anchor Length 12 Top Choke — 1" _____

Top Packer Depth 3837 Bottom Choke — ¾" _____

Bottom Packer Depth 3842 Hole Size — 7⅞" _____

Total Depth 3854 Rubber Size — 6¾" _____

Wt. Pipe I.D. — 2.7 _____ Ft. Run 377

Drill Collar — 2.25 _____ Ft. Run 0

Mud Wt. 9.4 lb./gal. Viscosity 51 Filtrate 12

Tool Open @ 1:53 AM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 11 MIN (1/2" BLOW BACK ON SHUTIN)

Final Blow 3/4" BLOW BUILDING TO BOTTOM OF BUCKET IN 15 MIN(4" BLOW BACK ON SHUTIN)

Recovery — Total Feet 646 Flush Tool? _____

Rec. 180 Feet of GAS IN PIPE

Rec. 194 Feet of CLEAN GASSY OIL

Rec. 32 Feet of MUD CUT OIL (TRACE WATER)

Rec. 420 Feet of WATER-TRACE OF OIL

Rec. 0 Feet of _____

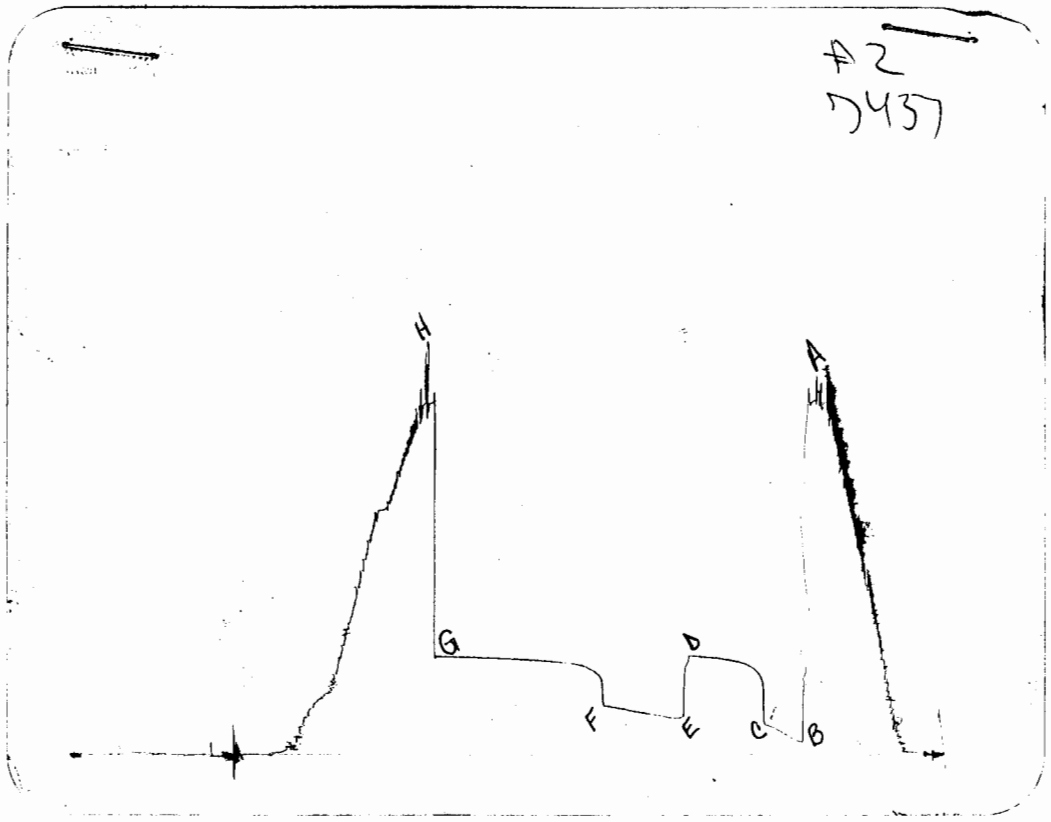
BHT 112 °F Gravity 34 °API @ 78 °F Corrected Gravity 32 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Clorides _____ ppm System

(A)	Initial Hydrostatic Mud	2030.1 PSI	AK1 Recorder No.	13277	Range 4125
(B)	First Initial Flow Pressure	72.3 PSI	@ (depth)	3853	w/Clock No. 14389
(C)	First Final Flow Pressure	182.4 PSI	AK1 Recorder No.	7437	Range 4200
(D)	Initial Shut-In Pressure	576.8 PSI	@ (depth)	3848	w/Clock No. 26199
(E)	Second Initial Flow Pressure	208.3 PSI	Initial Opening	30	
(F)	Second Final Flow Pressure	300.2 PSI	Initial Shut-In	60	
(G)	Final Shut-In Pressure	570.6 PSI	Final Flow	60	
(H)	Final Hydrostatic Mud	2005.1 PSI	Final Shut-In	120	

Our Representative PAUL SIMPSON TOTAL PRICE ..... $ 450

Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart.

POINT	PRESSURE Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2084	2030.1	PSI
(B) First Initial Flow Pressure	77	72.3	PSI
(C) First Final Flow Pressure	176	182.4	PSI
(D) Initial Closed-in Pressure	509	576.8	PSI
(E) Second Initial Flow Pressure	209	208.3	PSI
(F) Second Final Flow Pressure	286	300.2	PSI
(G) Final Closed-in Pressure	569	570.6	PSI
(H) Final Hydrostatic Mud	1989	2005.1	PSI

COMPUTER EVALUATION BY TRILOBITE TESTING
QUINOCO PETROLEUM INC
REPORT FOR DST#2 FOR THE HUCK A #13
31-11S-20W ELLIS KS

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TEST PARAMETERS

ELEVATION: 2262 KB
DATUM: -1592
TEST INTERVAL: 3842-3854

RECORDER DEPTH: 3853
BOTTOM HOLE TEMP: 112

EST. PAY: 12 FT
ZONE TESTED: ARBUCKLE

TIME INTERVALS: 30-60-60-120
VISCOSITY: 6.9 CP
HOLE SIZE: 7.875 IN

****

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 14.37109

TOTAL FEET OF RECOVERY: 646
BARRELS IN DRILL PIPE: 4.9496
BARRELS IN WEIGHT PIPE: 2.9406
GAS OIL RATIO: 1.821385 CU.FT./BBL
TOTAL BARRELS OF RECOVERY: 7.8902

UNCORR. INIT. PROD.: 126.2432 BBL/DAY

API GRAVITY: 32

FLUID GRADIENT: .375

CORRECTED PIPE FILLUP: 800.5334

CORR. BARRELS OF RECOVERY: 10.733 BBL

INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 171.728 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
76.99454

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INITIAL SHUT-IN VALUES:
THEORETICAL STATIC PRESSURE 608.6721
SLOPE 189.6503

FINAL SHUT-IN VALUES
THEORETICAL STATIC PRESSURE 593.709
SLOPE 105.9962

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TRANSMISSIBILITY	263.4337	(MD.-FT./CP.)
PERMEABILITY	151.4744	(MD.)
INDICATED FLOW CAPACITY	1817.693	(MD.FT)
PRODUCTIVITY INDEX	.2976801	(BARRELS/DAY/PSI)
DAMAGE RATIO	.5067366	
RADIUS OF INVESTIGATION	116.7591	(FT.)
POTENTIOMETRIC SURFACE	-214.1889	(FT.)
DRAWDOWN FACTOR	2.49036	(%)

INITIAL FLOW

RECORDER # 13277
DST #2

DT(MIN)	PRESSURE	<> PRESSURE
0	72.3	72.3
3	74.4	2.099999
6	78.8	4.400002
9	91.7	12.89999
12	109.2	17.5
15	124.1	14.9
18	138.2	14.1
21	149	10.8
24	161.1	12.10001
27	171.5	10.39999
30	182.4	10.89999

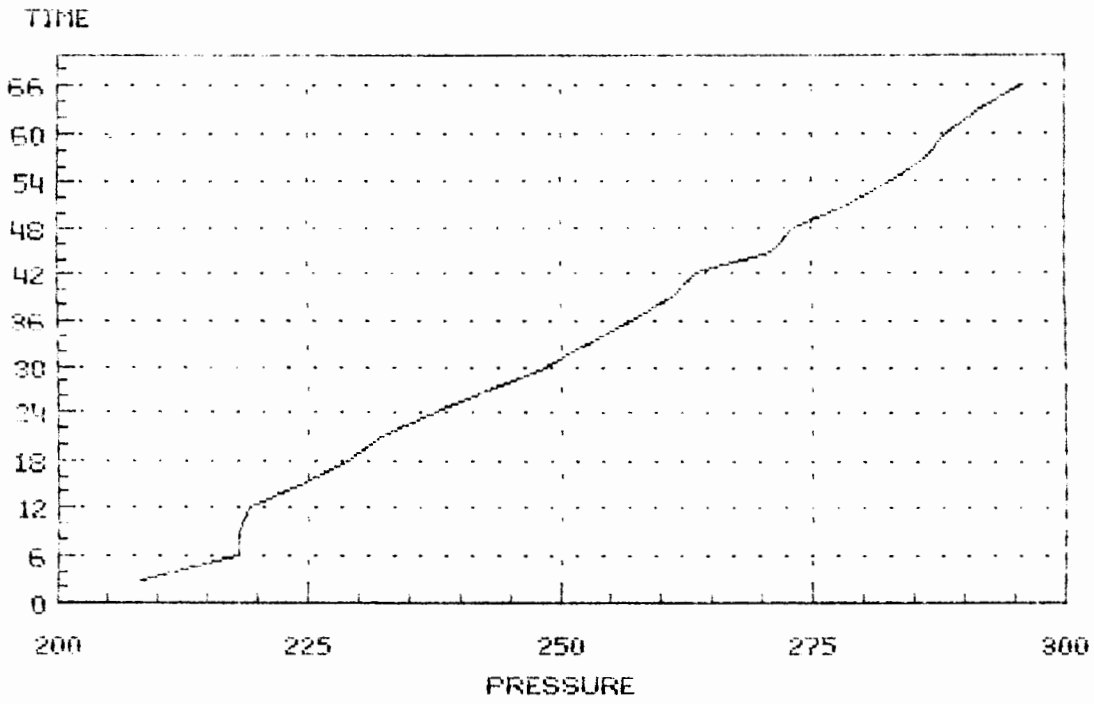
FINAL FLOW

RECORDER # 13277
DST #2

DT(MIN)	PRESSURE	<> PRESSURE
0	209.3	208.3
3	218.1	9.800003
6	218.1	0
9	219.2	1.099991
12	224.6	5.400009
15	228.9	4.299988
18	232.2	3.300003
21	237.6	5.400009
24	243.5	5.899994
27	248.4	4.899994
30	252.7	4.300003
33	257	4.300003
36	261.3	4.299988
39	263.5	2.200012
42	271.1	7.600006
45	273.2	2.100006
48	278.6	5.399994
51	282.9	4.299988
54	286.2	3.300018
57	288.3	2.099976
60	291.6	3.300018
63	295.9	4.299988
66	300.2	4.300019

DELTA T DELTA P

DST #1 FINAL FLOW
RECORDER # 13277



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 76.99454 BBL/DAY

INITIAL SHUT-IN BUILDUP
DST #2

RECORDER # 13277
INITIAL FLOW TIME (MIN.): 30

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	182.4	182.4
3	1.041205	186.7	4.300003
6	.778011	450.2	263.5
9	.6367073	486	35.79999
12	.5439701	506.1	20.10001
15	.4770353	519.4001	13.30002
18	.425892	531.7	12.29999
21	.3852815	542	10.29999
24	.352119	544	2
27	.3244526	546.1	2.099976
30	.3009757	550.1	4
33	.280776	555.2	5.100037
36	.263194	558.3	3.099976
39	.2477398	560.4	2.100037
42	.234041	563.4	3
45	.2218087	566.5	3.099976
48	.2108154	568.6	2.099976
51	.2008786	569.6	1
54	.191851	570.6	1
57	.1836113	572.7	2.100037
60	.1760595	572.7	0
63	.1691119	576.3	4.099976
66	.162698	576.6	0

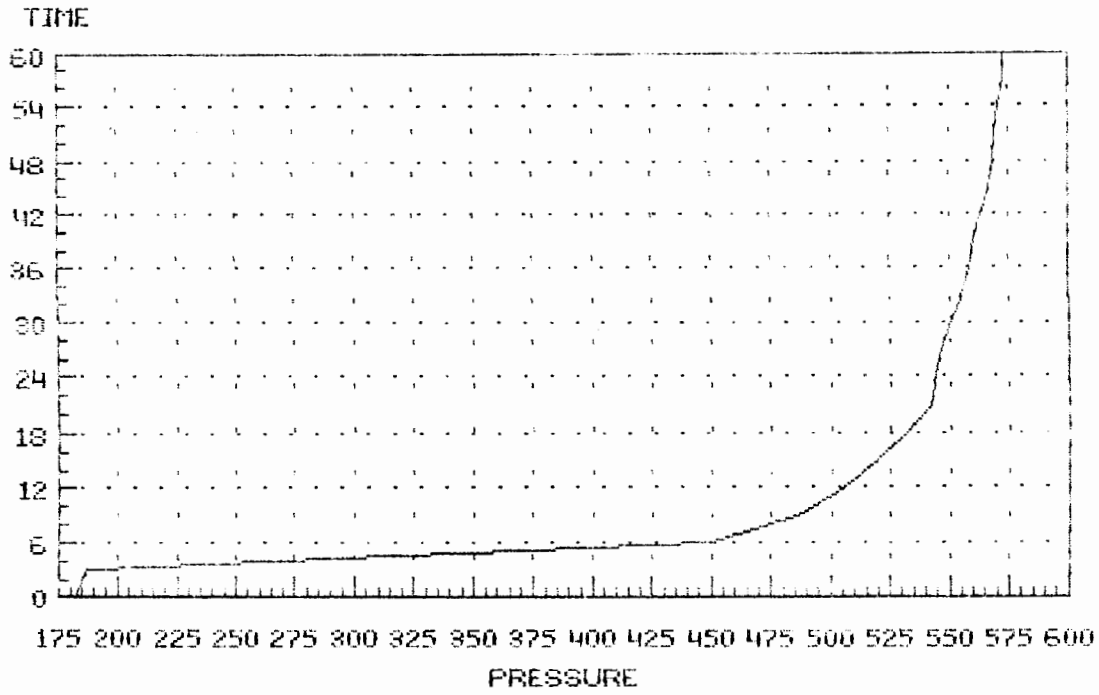
FINAL SHUT-IN BUILDUP
DST #2

RECORDER # 13277
TOTAL FLOW TIME (MIN.): 90

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	300.2	300.2
6	1.203903	472.5	172.3
12	.9292515	501	28.5
18	.778011	511.2	10.20001
24	.6765717	523.5	12.29999
30	.6019515	531.7	8.200013
36	.5439701	537.9	6.200012
42	.4972351	544	6.099976
48	.4585552	545.1	1.099976
54	.425892	548.1	3
60	.3978683	550.1	2
66	.3735134	554.2	4.100037
72	.352119	555.2	1
78	.3331547	557.3	2.099976
84	.316213	559.3	2
90	.3009757	562.4	3.100037
96	.2871899	562.4	0
102	.2746515	564.5	2.099976
108	.263194	564.5	0
114	.2526798	565.5	1
120	.2429943	566.5	1
126	.234041	567.5	1
132	.2257384	570.6	3.099976
138	.2180165	570.6	0

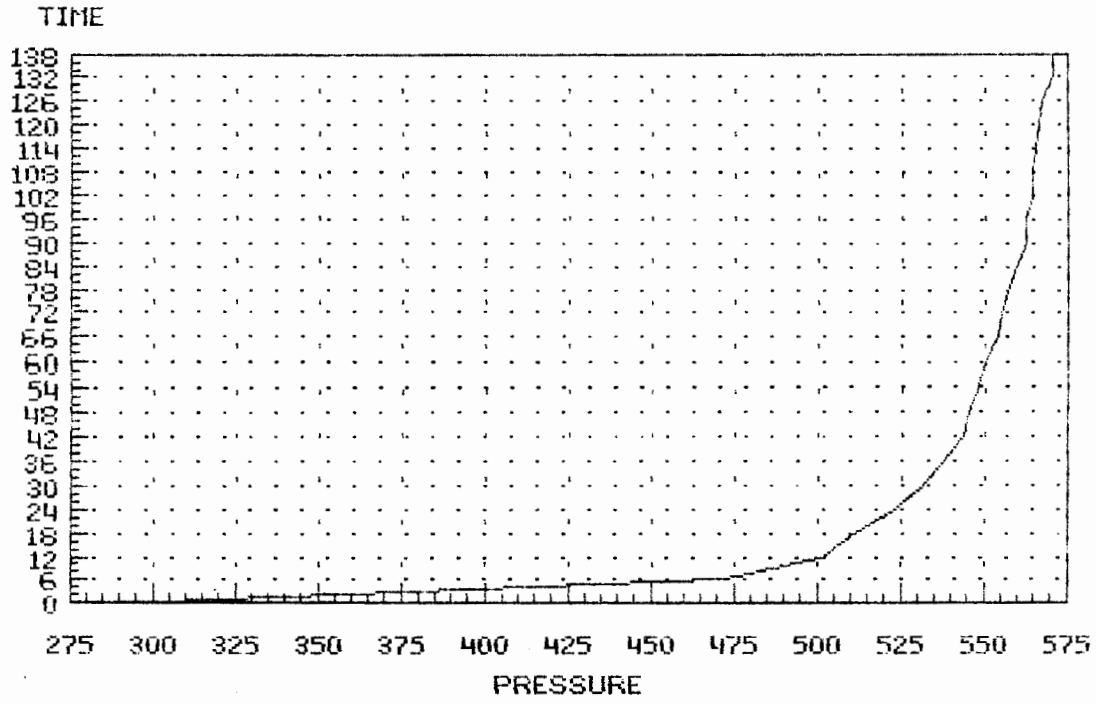
DELTA T DELTA P

DST #2 INITIAL SHUTIN
RECORDER #13277



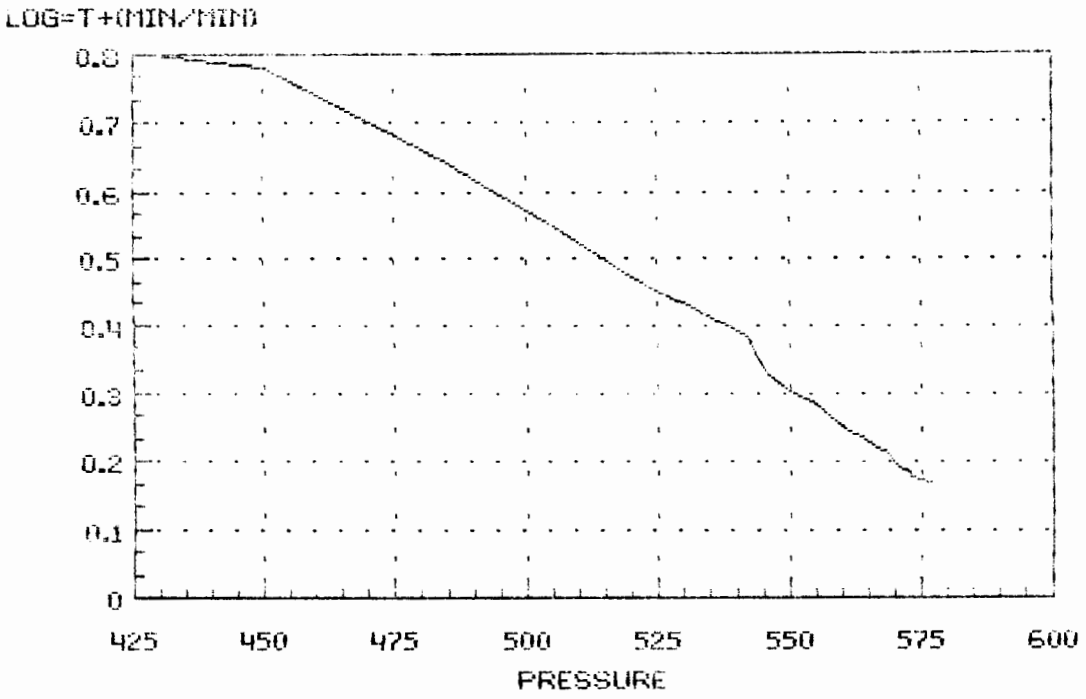
DELTA T DELTA P

DST #2 FINAL SHUTIN
RECORDER #13277



HORNER PLOT

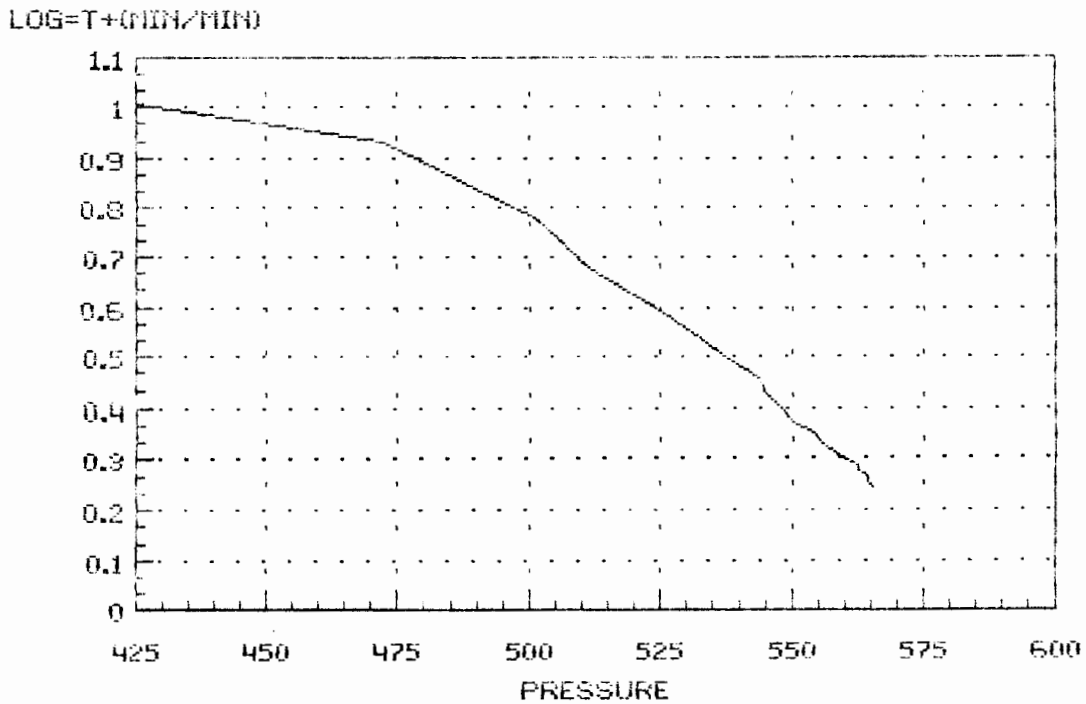
DST #2 INITIAL SHUTIN
RECORDER #13277



STATIC PRESSURE 608.8721
SLOPE 189.6503
POINTS USED 16

HORNER PLOT

DST #2 FINAL SHUTIN
RECORDER #13277



STATIC PRESSURE 593.709
SLOPE 105.9962
POINTS USED 22

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2180 Date 8/21/89

Company Name QUINOCO

Lease HUCK A # 13 Test No. 2

County ELLIS Sec. 31 Twp. 11s Rng. 20w

SAMPLER RECOVERY

Gas _____ ML

Oil 1400 ML

Mud _____ ML

Water 2600 ML

Other _____ ML

Pressure 50 PSI

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 4200 ppm.

Resistivity 1.6 ohms @ 75 F

Viscosity 51

Mud Weight 9.4

Filtrate 12

Other _____

SAMPLER ANALYSIS

Resistivity .268 ohms @ 75 F

Chlorides 24,000 ppm.

Gravity 32 corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity .28 ohms @ 75 F

Chlorides 23,000 ppm.

BOTTOM

Resistivity .271 ohms @ 75 F

Chlorides 24,000 ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

№ 2180

Well Name & No. Huck A #13 Test No. 2 Date 8/21

Company Quinoco Zone Tested A, b

Address _____ Elevation 2262

Co. Rep./Geo. Jim Musgrove Cont. Red Tiger Drlg Est. Ft. of Pay 12

Location: Sec. 31 Twp. 11s Rge. 20w Co. Ellis State Ks

Interval Tested 3842-3854 Drill Pipe Size 5" IF

Anchor Length 12 Top Choke — 1" _____

Top Packer Depth 3837 Bottom Choke — ¾" _____

Bottom Packer Depth 3842 Hole Size — 7⅞" _____

Total Depth 3854 Rubber Size — 6¾" _____

Wt. Pipe I.D. — 2.7 _____ Ft. Run 377

Drill Collar — 2.25 _____ Ft. Run _____

Mud Wt. 9+/ lb./gal. Viscosity 51 Filtrate 12

Tool Open @ 1:53 AM Initial Blow 1" blow building to bottom of bucket in 11 minutes (½" blow back on shut in)

Final Blow ¾" blow building to bottom of bucket in 15 minutes (4" blow back on shut in)

Recovery — Total Feet _____ Flush Tool? _____

Rec. 180 Feet of gas in pipe

Rec. 194 Feet of clean gassy oil

Rec. 32 Feet of mud cut oil (trace water)

Rec. 420 Feet of water, trace of oil

Rec. _____ Feet of _____

BHT 112 °F Gravity 34 °API @ 78 °F Corrected Gravity 32 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A)	Initial Hydrostatic Mud	2084	PSI	AK1 Recorder No.	13277	Range	4125
(B)	First Initial Flow Pressure	77	PSI	@ (depth)	3853	w/Clock No.	14389
(C)	First Final Flow Pressure	176	PSI	AK1 Recorder No.	7437	Range	4200
(D)	Initial Shut-In Pressure	569	PSI	@ (depth)	3848	w/Clock No.	26199
(E)	Second Initial Flow Pressure	209	PSI	Initial Opening	30	Test	4100
(F)	Second Final Flow Pressure	286	PSI	Initial Shut-In	60	Jars	
(G)	Final Shut-In Pressure	569	PSI	Final Flow	60	Safety Joint	
(H)	Final Hydrostatic Mud	1989	PSI	Final Shut-In	120	Straddle	
						Circ. Sub	
						Sampler	50
						Extra Packer	
						Other	
						TOTAL PRICE	$ 450

Approved By Jim Musgrove

Our Representative Paul Svoyen

Copies sent to H&L & G.B. Ks.

Mail Invoice to Plainville

Printcraft Printers - Hays, KS