

15-009-24429

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

4-18s-14w

COPY

Drill-Stem Test Data

Well Name & No.	MONROE #12	Test No.	1	Date	7/22/90
Company	HALLWOOD PETROLEUM INC	Zone Tested	LANSING-KS CITY		
Address	BOX 378111 DENVER COLORADO 80237	Elevation	1914 KB		
Co. Rep./Geo.	MR JIM MUSGROVE	Cont.	DUKE #1	Est. Ft. of Pay	0
Location: Sec.	4	Twp.	18S	Rge.	14W
		Co.	BARTON	State	KANSAS

Interval Tested	3153-3170	Drill Pipe Size	4.5" FH
Anchor Length	17	Top Choke — 1"	Bottom Choke — 1/4"
Top Packer Depth	3148	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3153	Wt. Pipe I.D. — 2.7 Ft. Run	909
Total Depth	3170	Drill Collar — 2.25 Ft. Run	0
Mud Wt.	9.2	lb/gal.	Viscosity 42 Filtrate 11.6
Tool Open @	7:04 PM	Initial Blow	SLID TOOL 17' TO BOTTOM-1" BLOW
DECREASING TO NO BLOW IN 20 MINUTES			
Final Blow	NO BLOW		

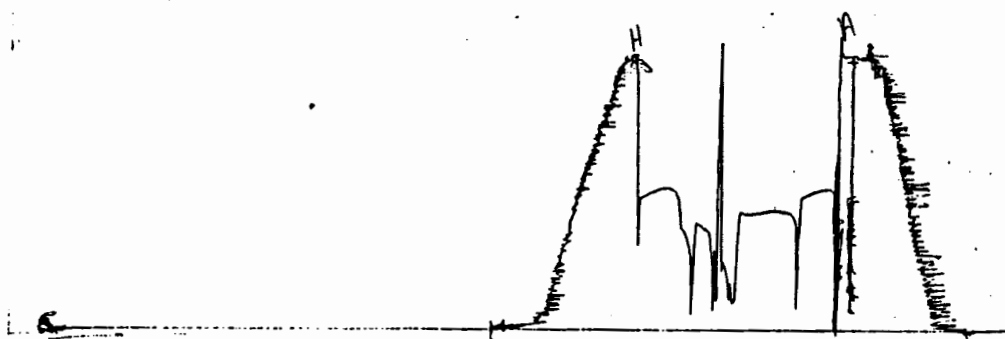
Recovery — Total Feet	90	Flush Tool?	2nd OPEN
Rec.	90	Feet of	DRILLING MUD-NO SHOW
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	104	°F Gravity	°API @ 0 °F Corrected Gravity 0 °API
RW	.93	@ 86 °F Chlorides	5500 ppm Recovery Chlorides 5500 ppm System
(A) Initial Hydrostatic Mud	1547.2	PSI	AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure	0	PSI	@ (depth) 3157 w/Clock No. 26199
(C) First Final Flow Pressure	0	PSI	AK1 Recorder No. 13849 Range 4375
(D) Initial Shut-In Pressure	0	PSI	@ (depth) 3166 w/Clock No. 26191
(E) Second Initial Flow Pressure	0	PSI	AK1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure	0	PSI	@ (depth) 0 w/Clock No. 0
(G) Final Shut-In Pressure	0	PSI	Initial Opening 30
(H) Final Hydrostatic Mud	1494.1	PSI	Initial Shut-In 45
			Final Flow 30
			Final Shut-In 45

MR DAN BANGLE

Our Representative _____

TOTAL PRICE \$ _____

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STATE CORPORATE COMMISSION
APR 7 1993
CONSERVATION DIVISION
Wichita, Kansas
350

DST# 1RECORDER# 13849

This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1547	1547.2	PSI
(B) First Initial Flow Pressure.....	0	0	PSI
(C) First Final Flow Pressure.....	0	0	PSI
(D) Initial Closed-In Pressure.....	0	0	PSI
(E) Second Initial Flow Pressure.....	0	0	PSI
(F) Second Final Flow Pressure.....	0	0	PSI
(G) Final Closed-In Pressure.....	0	0	PSI
(H) Final Hydrostatic Mud.....	1493	1494.1	PSI

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Wichita, Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

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FLUID SAMPLER DATA

Ticket No. 3027 Date 7/22/90
Company Name HALLWOOD PETROLEUM INC
Lease MONROE #12 Test No. 1
County BARTON Sec. 4 Twp. 18S Rng. 14W

SAMPLER RECOVERY

Gas 0 ML
Oil 0 ML
Mud 2400 ML
Water 0 ML
Other 0 ML
Pressure 200 PSI
Total 2400 ML

PIT MUD ANALYSIS

Chlorides 5500 ppm.
Resistivity .93 ohms @ 86 F
Viscosity 42
Mud Weight 9.2
Filtrate 11.6
Other _____

SAMPLER ANALYSIS

Resistivity .93 ohms @ 86 F
Chlorides 5,500 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .93 ohms @ 86 F
Chlorides 5,500 ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

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REGISTRATION DIVISION
Hays, Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

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Drill-Stem Test Data

Well Name & No. <u>MONROE #12</u>		Test No. <u>2</u>	Date <u>7/23/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>		Zone Tested <u>LANSING-KS CITY</u>	
Address <u>BOX 378111 DENVER COLORADO 80237</u>		Elevation <u>1914 KB</u>	
Co. Rep./Geo. <u>MR JIM MUSGROVE</u>	Cont. <u>DUKE #1</u>	Est. Ft. of Pay <u>0</u>	
Location: Sec. <u>4</u>	Twp. <u>18S</u>	Rge. <u>14W</u>	Co. <u>BARTON</u> State <u>KANSAS</u>

Interval Tested <u>3153-3190</u>	Drill Pipe Size <u>4.5" FH</u>
Anchor Length <u>37</u>	Top Choke — 1" <u>Bottom Choke — 1/4"</u>
Top Packer Depth <u>3148</u>	Hole Size — 77/8" <u>Rubber Size — 63/4"</u>
Bottom Packer Depth <u>3153</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>909</u>
Total Depth <u>3190</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>56</u> Filtrate <u>12.4</u>
Tool Open @ <u>5:00 AM</u>	Initial Blow <u>WEAK-BUILDING TO 10" STRONG BLOW</u>

Final Blow WEAK-BUILDING TO 5"

Recovery — Total Feet <u>95</u>	Flush Tool? <u></u>
Rec. <u>340</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>90</u> Feet of <u>MUD WITH OIL SPOTS</u>	
Rec. <u>5</u> Feet of <u>OIL CUT MUD-20%OIL /80% MUD</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
BHT <u>106</u> °F Gravity <u></u> °API @ <u>0</u> °F Corrected Gravity <u>32</u> °API	
RW <u>.93</u> @ <u>86</u> °F Chlorides <u>5500</u> ppm Recovery Chlorides <u>5500</u> ppm System	
(A) Initial Hydrostatic Mud <u>1588.3</u> PSI Ak1 Recorder No. <u>13754</u> Range <u>4000</u>	
(B) First Initial Flow Pressure <u>21.2</u> PSI @ (depth) <u>3157</u> w/Clock No. <u>26199</u>	
(C) First Final Flow Pressure <u>21.2</u> PSI AK1 Recorder No. <u>13849</u> Range <u>4375</u>	
(D) Initial Shut-In Pressure <u>188.4</u> PSI @ (depth) <u>3186</u> w/Clock No. <u>26191</u>	
(E) Second Initial Flow Pressure <u>33.3</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>33.3</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>191.4</u> PSI Initial Opening <u>30</u>	
(H) Final Hydrostatic Mud <u>1510.2</u> PSI Initial Shut-In <u>45</u>	
	Final Flow <u>60</u>
	Final Shut-In <u>60</u>

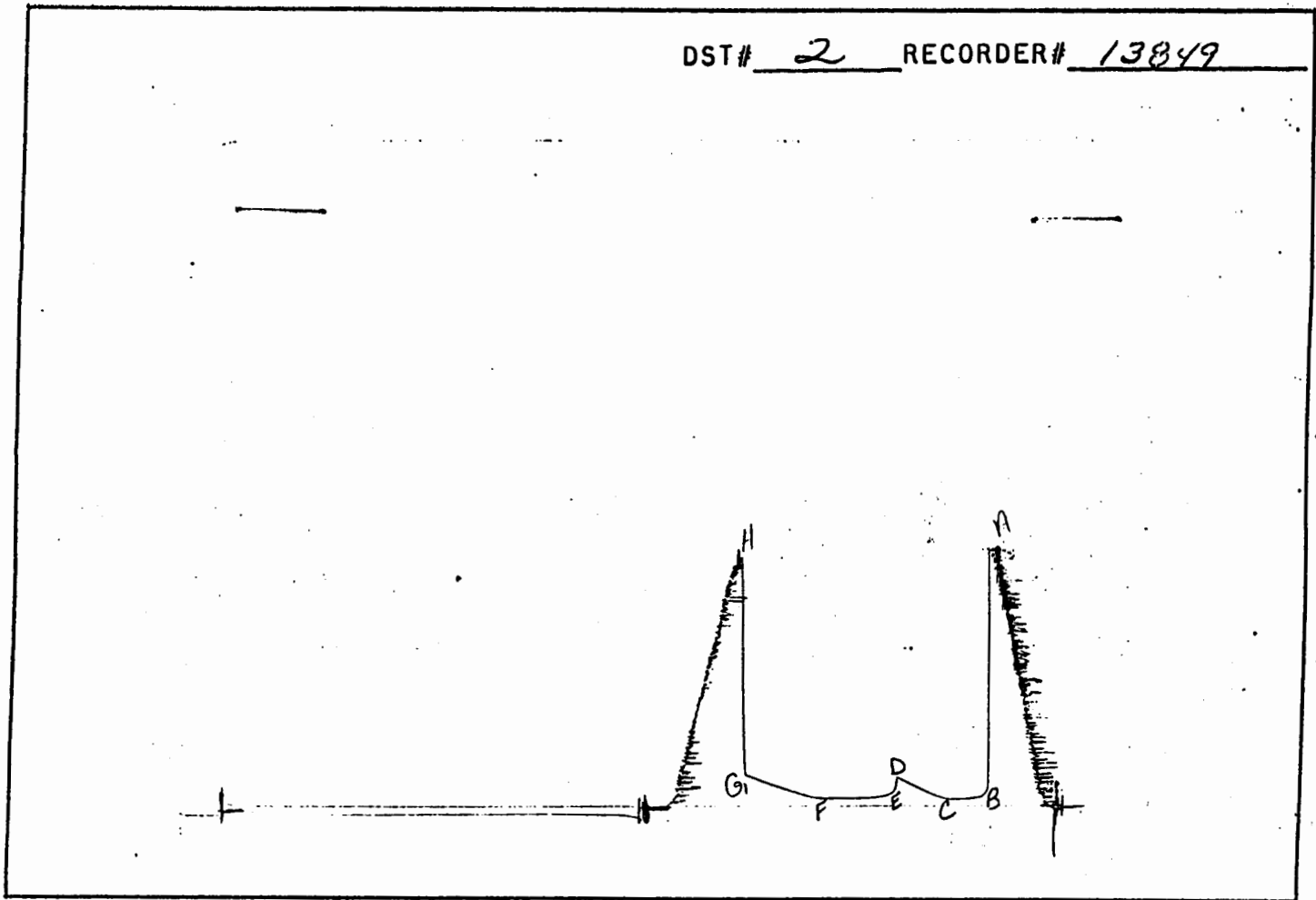
MR DAN BANGLE

Our Representative

TOTAL PRICE \$

RECEIVED
STATE CORPORATION COMMISSION
APR 7 1993
CORPORATION DIVISION
HAYS, MO
500

DST# 2 RECORDER# 13849



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1586	1588.3	PSI
(B) First Initial Flow Pressure.....	19	21.2	PSI
(C) First Final Flow Pressure.....	19	21.2	PSI
(D) Initial Closed-in Pressure.....	187	188.4	PSI
(E) Second Initial Flow Pressure.....	29	33.3	PSI
(F) Second Final Flow Pressure.....	29	33.3	PSI
(G) Final Closed-in Pressure.....	187	191.4	PSI
(H) Final Hydrostatic Mud.....	1506	1510.2	PSI

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STATE DEPARTMENT COMMISSION
APR 7 1933
CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

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Ticket No. 3028 Date 7/23/90
Company Name HALLWOOD PETROLEUM INC
Lease MONROE #12 Test No. 2
County BARTON Sec. 4 Twp. 18S Rng. 14W

SAMPLER RECOVERY

Gas 0 ML
Oil 200 ML
Mud 2200 ML
Water 0 ML
Other 0 ML
Pressure 200 PSI
Total 2400 ML

PIT MUD ANALYSIS

Chlorides 5500 ppm.
Resistivity .93 ohms @ 86 F
Viscosity 56
Mud Weight 9.3
Filtrate 12.4
Other _____

SAMPLER ANALYSIS

Resistivity .93 ohms @ 86 F
Chlorides 5,500 ppm.
Gravity 32 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .93 ohms @ 86 F
Chlorides 5,500 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

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STATE CORPORATION COMMISSION
APR 7 1993
CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

COPY

Drill-Stem Test Data

Well Name & No. <u>MONROE #12</u>		Test No. <u>3</u>	Date <u>7/23/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>		Zone Tested <u>LANSING-KS CITY</u>	
Address <u>BOX 378111 DENVER COLORADO 80237</u>		Elevation <u>1914 KB</u>	
Co. Rep./Geo. <u>MR JIM MUSGROVE</u>		DUKE #1 <u>0</u>	
Co. Rep./Geo. <u>4</u>	Cont. <u>18S</u>	Est. Ft. of Pay <u>14W</u>	<u>BARTON</u>
Location: Sec. <u>4</u>	Twp. <u>18S</u>	Rge. <u>14W</u>	Co. <u>BARTON</u> State <u>KANSAS</u>

Interval Tested <u>3228-3256</u>	Drill Pipe Size <u>4.5" FH</u>
Anchor Length <u>28</u>	Top Choke — 1" <u>Bottom Choke — 1/4"</u>
Top Packer Depth <u>3223</u>	Hole Size — 77/8" <u>Rubber Size — 63/4"</u>
Bottom Packer Depth <u>3228</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>909</u>
Total Depth <u>3256</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>56</u> Filtrate <u>12.4</u>
Tool Open @ <u>4:55 PM</u> Initial Blow <u>WEAK-BUILDING TO 1"</u>	

Final Blow WEAK-BUILDING TO 1"

Recovery — Total Feet <u>125</u>	Flush Tool? <u></u>
Rec. <u>120</u> Feet of <u>MUDDY WATER -FREE OIL ON TOP</u>	
Rec. <u>5</u> Feet of <u>DRILLING MUD WITH OIL SPOTS</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	

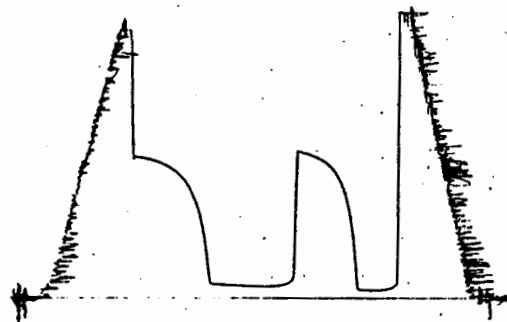
BHT <u>106</u> °F Gravity <u></u>	%API @ <u>0</u>	%F Corrected Gravity <u>0</u>	%API <u></u>
RW <u>.25</u> @ <u>86</u> °F Chlorides <u>36000</u> ppm Recovery Chlorides <u>5500</u> ppm System			
(A) Initial Hydrostatic Mud <u>1599.3</u> PSI	AK1 Recorder No. <u>13754</u>	Range <u>4000</u>	
(B) First Initial Flow Pressure <u>21.2</u> PSI	@ (depth) <u>3232</u>	w/Clock No. <u>26199</u>	
(C) First Final Flow Pressure <u>33.4</u> PSI	AK1 Recorder No. <u>13849</u>	Range <u>4375</u>	
(D) Initial Shut-In Pressure <u>841.5</u> PSI	@ (depth) <u>3252</u>	w/Clock No. <u>26191</u>	
(E) Second Initial Flow Pressure <u>41.2</u> PSI	AK1 Recorder No. <u>0</u>	Range <u>0</u>	
(F) Second Final Flow Pressure <u>60.2</u> PSI	@ (depth) <u>0</u>	w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>789.4</u> PSI	Initial Opening <u>30</u>		
(H) Final Hydrostatic Mud <u>1567.8</u> PSI	Initial Shut-In <u>45</u>		
	Final Flow <u>60</u>		
	Final Shut-In <u>60</u>		

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STATE GEOLOGICAL COMMISSION
APR 7 1993
CONSERVATION 500M
Hays, Kansas

MR DAN BANGLE

Our Representative

TOTAL PRICE \$

DST# 3 RECORDER# 13849


This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1596	1599.3	PSI
(B) First Initial Flow Pressure.....	19	21.2	PSI
(C) First Final Flow Pressure.....	29	33.4	PSI
(D) Initial Closed-In Pressure.....	837	841.5	PSI
(E) Second Initial Flow Pressure.....	39	41.2	PSI
(F) Second Final Flow Pressure.....	59	60.2	PSI
(G) Final Closed-In Pressure.....	788	789.4	PSI
(H) Final Hydrostatic Mud.....	1566	1567.8	PSI

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CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

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Ticket No. 3029 Date 7/23/90
Company Name HALLWOOD PETROLEUM INC
Lease MONROE #12 Test No. 3
County BARTON Sec. 4 Twp. 18S Rng. 14W

SAMPLER RECOVERY

Gas 0 ML Chlorides 5500 ppm.
Oil 0 ML Resistivity 0 ohms @ 0 F
Mud 0 ML Viscosity 56
Water 2400 ML Mud Weight 9.3
Other 0 ML Filtrate 12.4
Pressure 300 PSI Other N
Total 2400 ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity .25 ohms @ 86 F TOP
Chlorides 36,000 ppm.
Gravity _____ corrected @ 80 F

PIPE RECOVERY

Resistivity .25 ohms @ 86 F
Chlorides 36,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity .25 ohms @ 86 F
Chlorides 36,000 ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

COPY

Well Name & No.	MONROE #12	Test No.	4	Date	7/24/90
Company	HALLWOOD PETROLEUM INC	Zone Tested	LANSING-KS CITY		
Address	BOX 378111 DENVER COLORADO 80237	Elevation	1914 KB		
Co. Rep./Geo.	MR JIM MUSGROVE	Duke #1	0		
Location: Sec.	4	Twp.	18S	Rge.	14W
		Co.	BARTON	State	KANSAS

Interval Tested	3288-3310	Drill Pipe Size	4.5" FH
Anchor Length	22	Top Choke — 1"	Bottom Choke — 1/4"
Top Packer Depth	3283	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3288	Wt. Pipe I.D. — 2.7 Ft. Run	909
Total Depth	3310	Drill Collar — 2.25 Ft. Run	0
Mud Wt.	9.2	lb/gal.	Viscosity
			50
Tool Open @	4:04 AM	Initial Blow	WEAK-BUILDING TO 1/4"

Final Blow NO BLOW

Recovery — Total Feet	10	Flush Tool?	
Rec.	10	Feet of	OIL CUT MUD-5%OIL /95% MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	107	°F Gravity	
		%API @	0
		°F Corrected Gravity	0
RW	.85	@	86
		°F Chlorides	6500
		ppm Recovery	Chlorides
			6500
		ppm System	
(A) Initial Hydrostatic Mud	1666.1	PSI	AK1 Recorder No.
			13754
		Range	4000
(B) First Initial Flow Pressure	23.4	PSI	@ (depth)
			3292
		w/Clock No.	26199
(C) First Final Flow Pressure	23.4	PSI	AK1 Recorder No.
			13849
		Range	4375
(D) Initial Shut-In Pressure	45.8	PSI	@ (depth)
			3306
		w/Clock No.	26191
(E) Second Initial Flow Pressure	23.4	PSI	AK1 Recorder No.
			0
		Range	0
(F) Second Final Flow Pressure	23.4	PSI	@ (depth)
			0
		w/Clock No.	0
(G) Final Shut-In Pressure	35.6	PSI	Initial Opening
			30
(H) Final Hydrostatic Mud	1571.4	PSI	Initial Shut-In
			45
		Final Flow	30
		Final Shut-In	45

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APR 7 1993

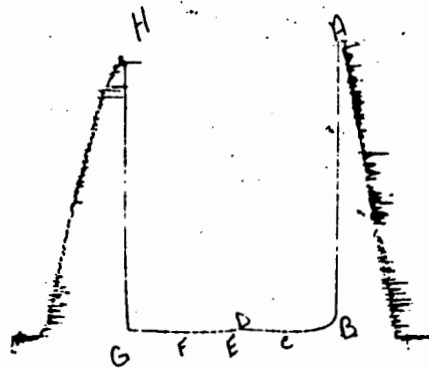
CONSERVATION DIVISION
Wichita, Kansas

MR DAN BANGLE

500

Our Representative

TOTAL PRICE \$

DST# 4 RECORDER# 13849


This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1656	1666.1
(B) First Initial Flow Pressure.....	22	23.4
(C) First Final Flow Pressure.....	22	23.4
(D) Initial Closed-In Pressure.....	44	45.8
(E) Second Initial Flow Pressure.....	22	23.4
(F) Second Final Flow Pressure.....	22	23.4
(G) Final Closed-In Pressure.....	33	35.6
(H) Final Hydrostatic Mud.....	1569	1571.4

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TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

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Ticket No. 3030 Date 7/24/90
Company Name HALLWOOD PETROLEUM INC
Lease MONROE #12 Test No. 4
County BARTON Sec. 4 Twp. 18S Rng. 14W

SAMPLER RECOVERY

Gas 0 ML
Oil 100 ML
Mud 2300 ML
Water 0 ML
Other 0 ML
Pressure 50 PSI
Total 2400 ML

PIT MUD ANALYSIS

Chlorides 6500 ppm.
Resistivity .98 ohms @ 80 F
Viscosity 50
Mud Weight 9.2
Filtrate 12.4
Other _____

SAMPLER ANALYSIS

Resistivity .85 ohms @ 86 F
Chlorides 6,500 ppm.
Gravity 36 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .85 ohms @ 86 F
Chlorides 6,500 ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

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Drill-Stem Test Data

Well Name & No.	MONROE #12	Test No.	5	Date	7/24/90
Company	HALLWOOD PETROLEUM INC	Zone Tested	ARBUCKLE		
Address	BOX 378111 DENVER COLORADO 80237	Elevation	1914 KB		
Co. Rep./Geo.	MR JIM MUSGROVE	Cont.	DUKE #1	Est. Ft. of Pay	0
Location: Sec.	4	Twp.	18S	Rge.	14W
		Co.	BARTON	State	KANSAS

Interval Tested	3360-3401	Drill Pipe Size	4.5" FH
Anchor Length	41	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	3355	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3360	Wt. Pipe I.D. — 2.7 Ft. Run	909
Total Depth	3401	Drill Collar — 2.25 Ft. Run	0
Mud Wt.	9.5	lb/gal.	Viscosity 52 Filtrate 15.2
Tool Open @	11:30 PM	Initial Blow	WEAK-DIED IN 16 MINUTES

Final Blow WEAK-DIED IN 20 MINUTES

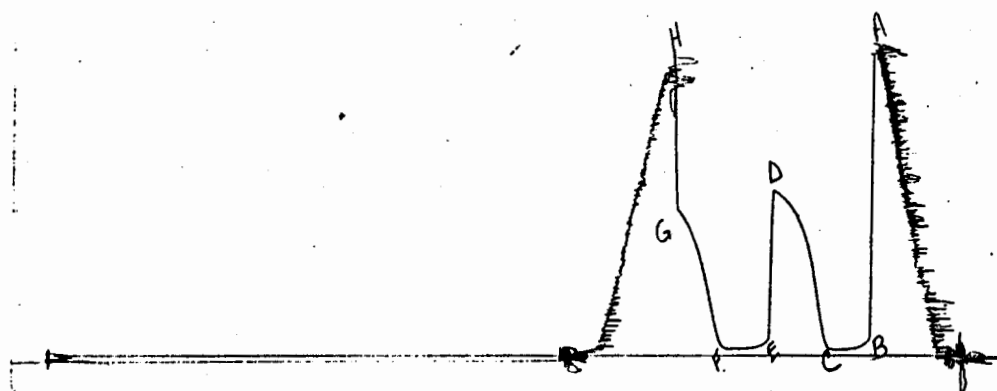
Recovery — Total Feet	15	Flush Tool?	
Rec.	15	Feet of	OIL CUT MUD-5% OIL/ 95% MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	110	°F Gravity	°API @ 0 °F Corrected Gravity 0 °API
RW	.54	@ 86 °F Chlorides	11000 ppm Recovery Chlorides 11000 ppm System
(A) Initial Hydrostatic Mud	1721.3	PSI	Ak1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure	21.2	PSI	@ (depth) 3364 w/Clock No. 26199
(C) First Final Flow Pressure	21.2	PSI	Ak1 Recorder No. 13849 Range 4375
(D) Initial Shut-In Pressure	951.4	PSI	@ (depth) 3396 w/Clock No. 26191
(E) Second Initial Flow Pressure	21.2	PSI	Ak1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure	21.2	PSI	@ (depth) 0 w/Clock No. 0
(G) Final Shut-In Pressure	831.2	PSI	Initial Opening 30
(H) Final Hydrostatic Mud	1620.1	PSI	Initial Shut-In 45
			Final Flow 30
			Final Shut-In 45

MR DAN BANGLE

500

Our Representative

TOTAL PRICE \$

DST# 5 RECORDER# 13849


This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1716	1721.3 PSI
(B) First Initial Flow Pressure.....	19	21.2 PSI
(C) First Final Flow Pressure.....	19	21.2 PSI
(D) Initial Closed-In Pressure.....	946	951.4 PSI
(E) Second Initial Flow Pressure.....	19	21.2 PSI
(F) Second Final Flow Pressure.....	19	21.2 PSI
(G) Final Closed-In Pressure.....	828	831.2 PSI
(H) Final Hydrostatic Mud.....	1616	1620.1 PSI

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TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

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Ticket No. 3031 Date 7/24/90

Company Name HALLWOOD PETROLEUM INC.

Lease MONROE #12 Test No. 5

County BARTON Sect Twp. 18S Rng. 4W

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas 0 ML Chlorides 11000 ppm.

Oil (Oil Cut Mud-20% Oil) Resistivity .54 ohms @ 84 F

Mud 2400 ML Viscosity 52

Water 0 ML Mud Weight 9.5

Other 0 ML Filtrate 15.2

Pressure 420 PSI Other

Total 2400 ML

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity .54 ohms @ 84 F TOP

Chlorides 11,000 ppm. Resistivity .54 ohms @ 84 F

Chlorides 11,000 ppm.

Gravity corrected @ 60 F

MIDDLE

Resistivity ohms @ F

Chlorides ppm.

BOTTOM

Resistivity ohms @ F

Chlorides ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

COPY

Well Name & No.	MONROE #12		Test No.	6	Date	7/25/90
Company	HALLWOOD PETROLEUM INC		Zone Tested	ARBUCKLE		
Address	P.O. BOX 378111 DENVER COLORADO 80237		Elevation	1914 KB		
Co. Rep./Geo.	MR JIM MUSGROVE	Cont.	DUKE #1	Est. Ft. of Pay	0	
Location: Sec.	4	Twp.	18S	Rge.	14W	Co. BARTON State KANSAS

Interval Tested	3397-3407	Drill Pipe Size	4.5" FH
Anchor Length	10	Top Choke — 1"	Bottom Choke — 1/4"
Top Packer Depth	3392	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3397	Wt. Pipe I.D. — 2.7 Ft. Run	909
Total Depth	3407	Drill Collar — 2.25 Ft. Run	0
Mud Wt.	9.4	lb/gal.	Viscosity 54 Filtrate 12
Tool Open @	8:35 AM	Initial Blow	NO PACKER SEAT-RESET TOOL-WEAK
DIED IN 10 MINUTES-FLUSHED TOOL - NO HELP			
Final Blow	NO BLOW- FLUSHED TOOL - NO HELP		

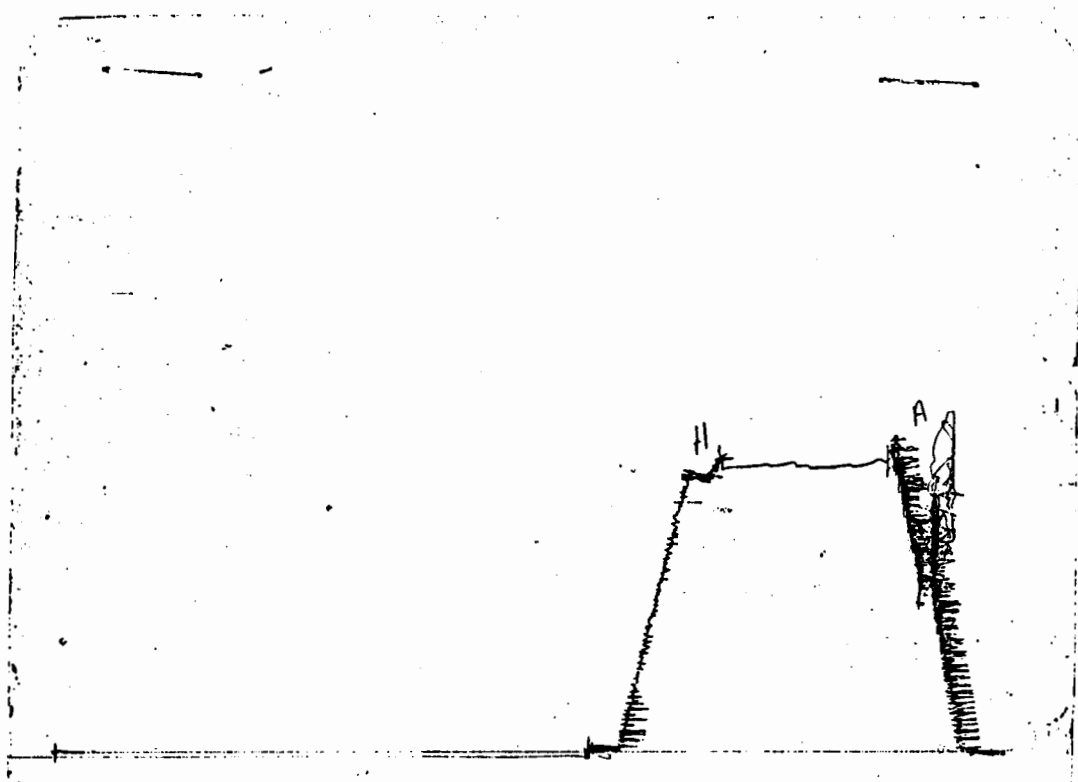
Recovery — Total Feet	90	Flush Tool?	YES
Rec.	90	Feet of	DRILLING MUD-NO SHOW
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	110	°F	Gravity
RW	.50	@	85 °F
Chlorides	10100	ppm	Recovery
Chlorides	13754	ppm	System
(A) Initial Hydrostatic Mud	1721.3	PSI	Ak1 Recorder No.
(B) First Initial Flow Pressure	0	PSI	@ (depth)
(C) First Final Flow Pressure	0	PSI	Ak1 Recorder No.
(D) Initial Shut-In Pressure	0	PSI	@ (depth)
(E) Second Initial Flow Pressure	0	PSI	Ak1 Recorder No.
(F) Second Final Flow Pressure	0	PSI	@ (depth)
(G) Final Shut-In Pressure	0	PSI	Initial Opening
(H) Final Hydrostatic Mud	1621.3	PSI	Initial Shut-In
			Final Flow
			Final Shut-In

MR DAN BANGLE

350

Our Representative

TOTAL PRICE \$

DST# 6 RECORDER# 13849


This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1716	1721.3 PSI
(B) First Initial Flow Pressure.....	0	0 PSI
(C) First Final Flow Pressure.....	0	0 PSI
(D) Initial Closed-In Pressure.....	0	0 PSI
(E) Second Initial Flow Pressure.....	0	0 PSI
(F) Second Final Flow Pressure.....	0	0 PSI
(G) Final Closed-In Pressure.....	0	0 PSI
(H) Final Hydrostatic Mud.....	1620	1621.3 PSI

COPY

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

COPY

Ticket No. 3032 Date 7/25/90
Company Name HALLWOOD PETROLEUM INC
Lease MONROE #12 Test No. 6
County BARTON Sec. 4 Twp. 18S Rng. 14W

SAMPLER RECOVERY

Gas 0 ML
Oil 0 ML
Mud 2400 ML
Water 0 ML
Other 0 ML
Pressure 0 PSI
Total 2400 ML

PIT MUD ANALYSIS

Chlorides 10200 ppm.
Resistivity .5 ohms @ 86 F
Viscosity 54
Mud Weight 9.4
Filtrate 12
Other _____

SAMPLER ANALYSIS

Resistivity .50 ohms @ 85 F
Chlorides 10,100 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .50 ohms @ 85 F
Chlorides 10,100 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

COPY

Drill-Stem Test Data

Well Name & No.	MONROE #12	Test No.	7	Date	7/25/90
Company	HALLWOOD PETROLEUM INC	Zone Tested	ARBUCKLE		
Address	BOX 378111 DENVER COLORADO 80237	Elevation	1914 KB		
Co. Rep./Geo.	MR JIM MUSGROVE	Cont.	DUKE #1	Est. Ft. of Pay	6
Location: Sec.	4	Twp.	18S	Rge.	14W
		Co.	BARTON	State	KANSAS

Interval Tested	3359-3407	Drill Pipe Size	4.5" FH
Anchor Length	48	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	3354	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3359	Wt. Pipe I.D. — 2.7 Ft. Run	909
Total Depth	3407	Drill Collar — 2.25 Ft. Run	0
Mud Wt.	9.4	Viscosity	54
	lb/gal.	Filtrate	12
Tool Open @	4:40 PM	Initial Blow	WEAK-BUILDING TO 3.5"

Final Blow WEAK-BUILDING TO 1/4"

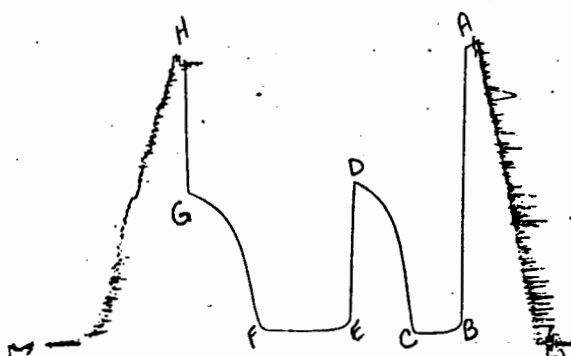
Recovery — Total Feet	115	Flush Tool?	
Rec.	120	Feet of	GAS IN PIPE
Rec.	0	Feet of	
Rec.	50	Feet of	CLEAN GASSY OIL
Rec.	65	Feet of	OIL CUT WATERY MUD-20%OIL/20%WATER/60% MUD
Rec.	0	Feet of	
BHT	110	%F Gravity	0
		%API @	34
RW	.04	@	83
		%F Chlorides	56000
		ppm Recovery	10200
		Chlorides	13754
(A) Initial Hydrostatic Mud	1733	PSI Ak1 Recorder No.	4000
(B) First Initial Flow Pressure	45.2	PSI @ (depth)	3363
		w/Clock No.	26199
(C) First Final Flow Pressure	57	PSI AK1 Recorder No.	13849
		Range	4375
(D) Initial Shut-In Pressure	932.8	PSI @ (depth)	3403
		w/Clock No.	26191
(E) Second Initial Flow Pressure	63.9	PSI AK1 Recorder No.	0
		Range	0
(F) Second Final Flow Pressure	76.7	PSI @ (depth)	0
		w/Clock No.	0
(G) Final Shut-In Pressure	869.5	PSI Initial Opening	30
(H) Final Hydrostatic Mud	1689	PSI Initial Shut-In	45
		Final Flow	60
		Final Shut-In	60

MR DAN BANGLE

Our Representative

TOTAL PRICE \$

RECEIVED
STATE CORPORATION COMMISSION
APR 7 1993
CONSERVATION DIVISION
Wichita, Kansas 67202
500

DST# 7 RECORDER# 13849


This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1746	1733
(B) First Initial Flow Pressure.....	49	45.2
(C) First Final Flow Pressure.....	59	57
(D) Initial Closed-In Pressure.....	907	932.8
(E) Second Initial Flow Pressure.....	49	63.9
(F) Second Final Flow Pressure.....	68	76.7
(G) Final Closed-In Pressure.....	857	869.5
(H) Final Hydrostatic Mud.....	1636	1689

COPY

COMPUTER EVALUATION BY TRILOBITE TESTING
HALLWOOD PETROLEUM INC
REPORT FOR DST#7 FOR THE MONROE #12
4-18S-14W BARTON KS

COPY

TEST PARAMETERS

ELEVATION: 1914 KB EST. PAY: 6 FT
DATUM: -1450 ZONE TESTED: ARBUCKLE
TEST INTERVAL: 3359-3407
RECORDER DEPTH: 3363 TIME INTERVALS: 30-45-60-60
BOTTOM HOLE TEMP: 110 VISCOSITY: 9.967501 CP
HOLE SIZE: 7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 4.682506
TOTAL FEET OF RECOVERY: 115
BARRELS IN WEIGHT PIPE: .805
GAS OIL RATIO: 5.816777 CU.FT./BBL
BUBBLE POINT PRESSURE: ; .3710643
TOTAL BARRELS OF RECOVERY: .805
API GRAVITY: 34 UNCORR. INIT. PROD.: 12.88 BBL/DAY
CORRECTED PIPE FILLUP: 207.2973 FLUID GRADIENT: .37
CORR. BARRELS OF RECOVERY: 1.4504 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 23.2064 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
6.356754

INITIAL SLOPE 725.37 PSI/CYCLE
INITIAL P* 1094 PSI

FINAL SLOPE 595.69 PSI/CYCLE
FINAL P* 1107 PSI

TRANSMISSIBILITY 6.334437 (MD.-FT./CP.)
PERMEABILITY 10.52308 (MD.)
INDICATED FLOW CAPACITY 63.13851 (MD.FT)
PRODUCTIVITY INDEX 7.157914E-03 (BARRELS/DAY/PSI)
DAMAGE RATIO .3165152
RADIUS OF INVESTIGATION 30.77463 (FT.)
POTENTIOMETRIC SURFACE 1118.133 (FT.)
DRAWDOWN FACTOR -1.188302 (%)

RECORDED
STATE OF KANSAS
APR 7 1993
CONSERVATION DIVISION
Wichita, Kansas

INITIAL FLOW

RECORDER # 13754
DST #7

COPY

DT(MIN)	PRESSURE	<> PRESSURE
0	45.2	45.2
3	49.2	4
6	51.1	1.899998
9	52.1	1
12	52.1	0
15	54.1	2
18	55.1	1
21	55.1	0
24	57	1.900002
27	57	0
30	57	0

FINAL FLOW

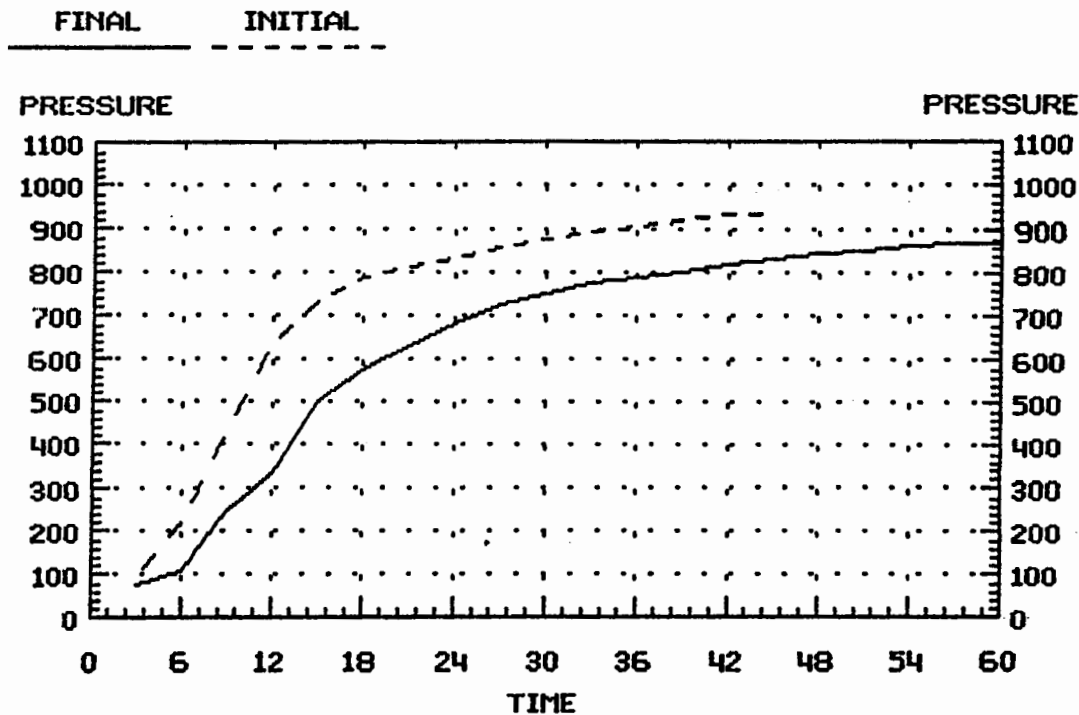
RECORDER # 13754
DST #7

DT(MIN)	PRESSURE	<> PRESSURE
0	63.9	63.9
3	64.9	1
6	66.9	2
9	66.9	0
12	66.9	0
15	66.9	0
18	66.9	0
21	67.9	1
24	68.9	1
27	68.9	0
30	69.8	.9000015
33	71.8	2
36	72.8	1
39	73.8	1
42	73.8	0
45	74.8	1
48	74.8	0
51	75.7	.8999939
54	75.7	0
57	76.7	1
60	76.7	0

DELTA T DELTA P

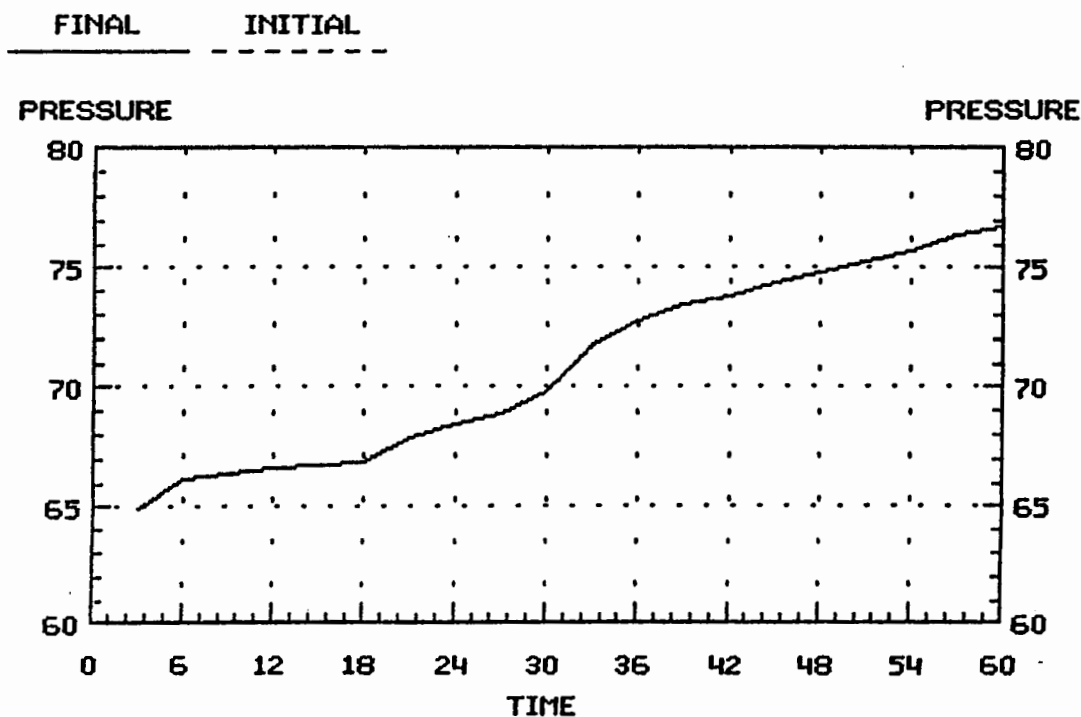
DST #7 INITIAL & FINAL SHUTIN
RECORDER # 13754

COPY



DELTA T DELTA P

DST #7 FINAL FLOW
RECORDER # 13754



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE

RECEIVED
STATE CORPORATION COMMISSION

APR 7 1993

CONSERVATION DIVISION
6.356754 BBL/DAY

MONROE #12 DST #7
 INITIAL SHUTIN
 30 INITIAL FLOW TIME

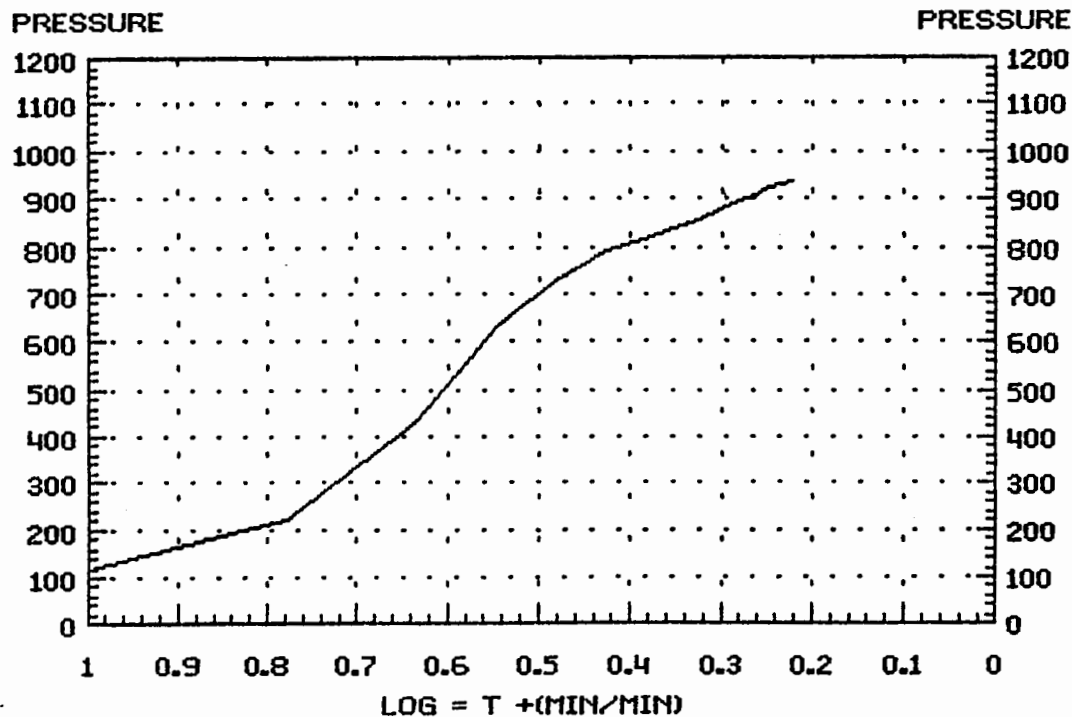
Slope -725.37 psi/cycle
 P * 1,094 psi

COPY

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
3	97.4	11	1.041	97.4
6	222.4	6	0.778	125.0
9	431.1	4	0.637	208.7
12	638.3	4	0.544	207.2
15	735.1	3	0.477	96.8
18	792.4	3	0.426	57.3
21	814.2	2	0.385	21.8
24	835.9	2	0.352	21.7
27	856.7	2	0.325	20.8
30	879.4	2	0.301	22.7
33	895.2	2	0.281	15.8
36	909.0	2	0.263	13.8
39	922.9	2	0.248	13.9
42	931.8	2	0.234	8.9
45	932.8	2	0.222	1.0

HORNER PLOT

DST #7 INITIAL SHUTIN
 RECORDER # 13754



MONROE #12 DST #7
FINAL SHUTIN
90 TOTAL FLOW TIME

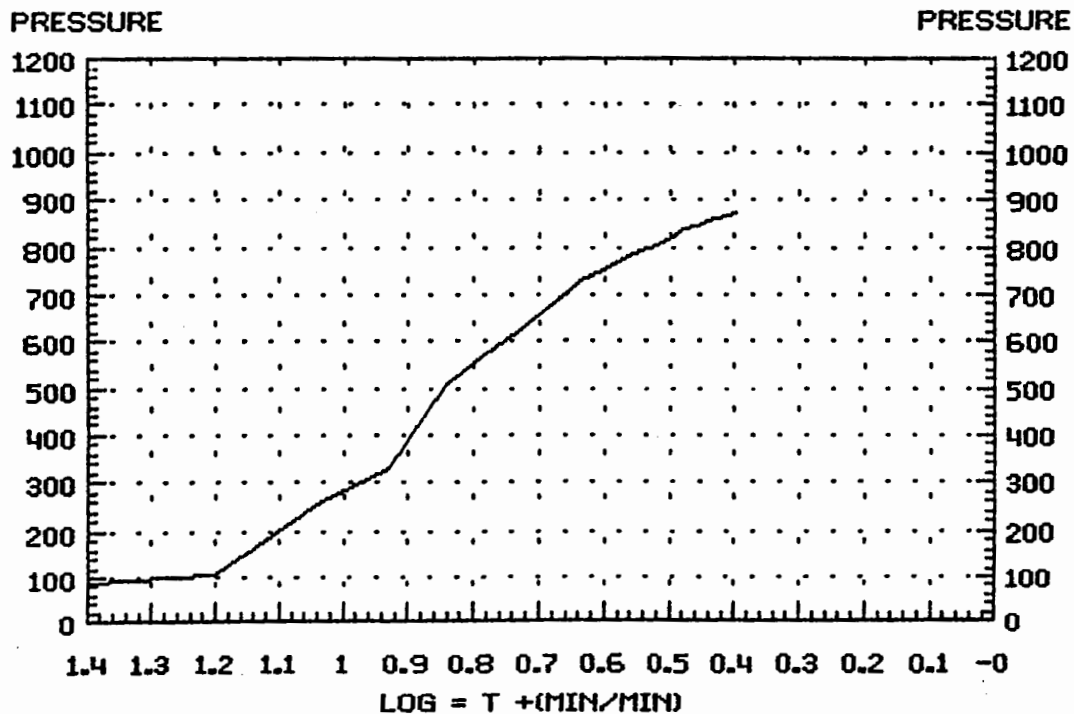
Slope -595.69 psi/cycle
P * 1,107 psi

COPY

TIME(MIN)	Pws (psi)	Horn T	Log Horn T	<> PRESSURE
3	79.7	31	1.491	79.7
6	108.2	16	1.204	28.5
9	253.9	11	1.041	145.7
12	332.6	9	0.929	78.7
15	503.9	7	0.845	171.3
18	578.0	6	0.778	74.1
21	632.4	5	0.723	54.4
24	681.8	5	0.677	49.4
27	727.2	4	0.637	45.4
30	752.9	4	0.602	25.7
33	774.7	4	0.571	21.8
36	790.5	4	0.544	15.8
39	804.3	3	0.520	13.8
42	822.1	3	0.497	17.8
45	834.9	3	0.477	12.8
48	843.8	3	0.459	8.9
51	852.7	3	0.442	8.9
54	862.6	3	0.426	9.9
57	868.5	3	0.411	5.9
60	869.5	3	0.398	1.0

HORNER PLOT

DST #7 FINAL SHUTIN
RECORDER # 13754



TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

COPY

Ticket No. 3033 Date 7/25/90
Company Name HALLWOOD PETROLEUM INC
Lease MONROE #12 Test No. 7
County BARTON Sec. 4 Twp. 18S Rng. 14W

SAMPLER RECOVERY

Gas 0 ML
Oil 200 ML
Mud 2200 ML
Water 100 ML
Other 0 ML
Pressure 420 PSI
Total 2500 ML

PIT MUD ANALYSIS

Chlorides 10200 ppm.
Resistivity .5 ohms @ 86 F
Viscosity 54
Mud Weight 9.4
Filtrate 12
Other _____

SAMPLER ANALYSIS

Resistivity .04 ohms @ 83 F
Chlorides 56,000 ppm.
Gravity 34 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .04 ohms @ 83 F
Chlorides 56,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.