8-34-18W

15-033-21068

WELL NAME: Hoffman Trust #1
COMPANY: Crawford Oil & Gas
LOCATION: 8-34s-18w
Comanche co KS
DATE: 3/7/00

CONFIDENTIAL

ORIGINAL

KCC
MAY 2 5 2000
CONFIDENTIAL

RELEASED

MAY 29 2001

FROM CONFIDENTIAL

CONFIDENTIAL TRILOBITE TESTING L.L.C. ORIGINAL

OPERATOR : Crawford DATE 02/25/200
WELL NAME: Hoffman Trust,#1 KB 1906.00 ft TICKET NO: 12084 DST #1
LOCATION : 8-34s-18w Comanche co KS GR 1893.00 ft FORMATION: Hertha
INTERVAL : 4925.00 To 4994.00 ft TD 4994.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	10991	10991	2350		
SI	60	Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0
SF	15	Clock(hrs)	12hr.	12hr.	elec.		
FS	15	Depth(ft)	4991.0	4991.0	4931.0	0.0	0.0

TIME DATA----------
PF Fr. 0334 to 0404 hr
IS Fr. 0404 to 0504 hr
SF Fr. 0504 to 0519 hr
FS Fr. 0519 to 0534 hr

	Field	1	2	3	4
A. Init Hydro	2513.0	2524.0	2496.0	0.0	0.0
B. First Flow	32.0	40.0	23.0	0.0	0.0
B1. Final Flow	32.0	40.0	23.0	0.0	0.0
C. In Shut-in	64.0	68.0	68.0	0.0	0.0
D. Init Flow	32.0	46.0	30.0	0.0	0.0
E. Final Flow	32.0	45.0	32.0	0.0	0.0
F. Fl Shut-in	43.0	45.0	35.0	0.0	0.0
G. Final Hydro	2502.0	2484.0	2349.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0055 hr
T ON BOTM 0331 hr
T OPEN 0334 hr
T PULLED 0534 hr
T OUT 0715 hr

TOOL DATA----------

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	73000.00 lbs
Unseated Str Wt	73000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	295.42 ft
D.P. Length	4645.58 ft

RECOVERY
Tot Fluid 2.00 ft of 2.00 ft in DC and 0.00 ft in DP
0.00 ft of Trace of gas in pipe.
2.00 ft of Very slightly gas cut mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

KCC
MAY 25 2000
CONFIDENTIAL

RELEASED
MAY 29 2001
FROM CONFIDENTIAL

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	53.00 S/L
W.L.	6.80 in3
F.C.	0.32 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out	N
Tool Chased	N
Tester	Darren L.Amerine
Co. Rep.	Jim Hendricks
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	none

BLOW DESCRIPTION
Initial Flow:
Weak surface blow built to 1/4"-1/2" in water bucket.
Initial Shut-In:
Bled down for 1 minute. No blow back.

Final Flow:
Dead blow.

Final Shut-In:
Dead blow.

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

CONFIDENTIAL

WELL NAME: Hoffman Trust,#1

LOCATION : 8-34s-18w Comanche co KS

TICKET No. 12084 D.S.T. No. 1 DATE 02/25/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 37

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY 97

D.C. ABOVE TOOLS.Stands5 Single Total 295.42

D.P. ABOVE TOOLS.Stands74 Single Total 4614.58

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5007

TOTAL DEPTH 4994

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

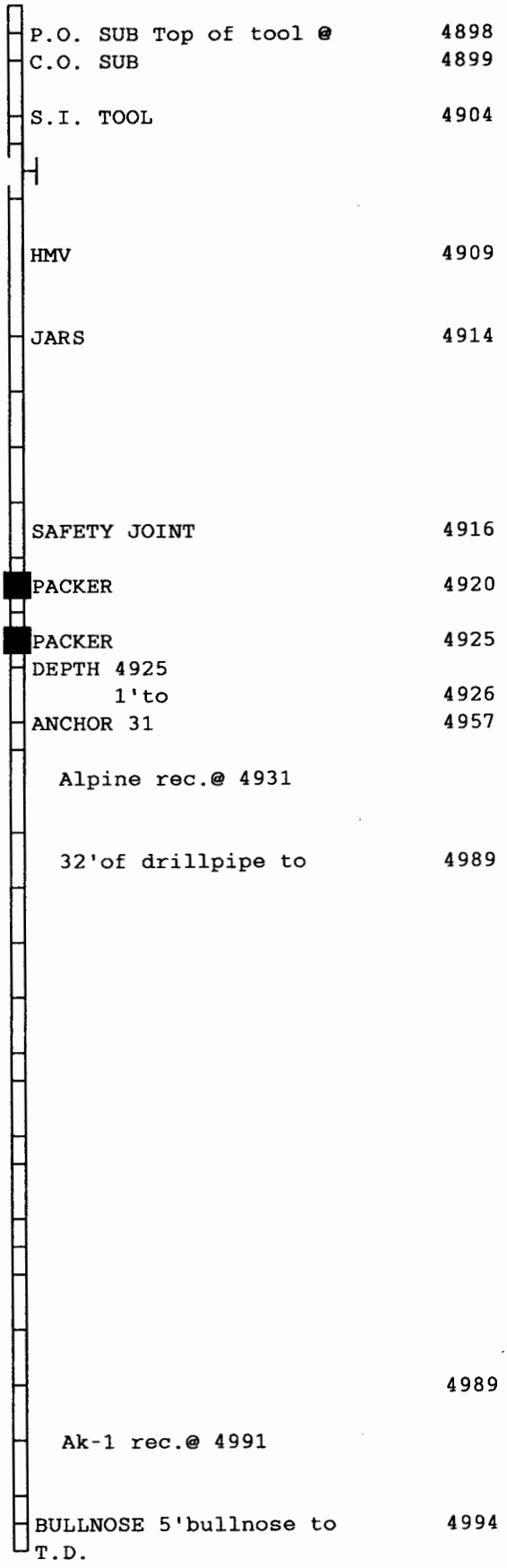
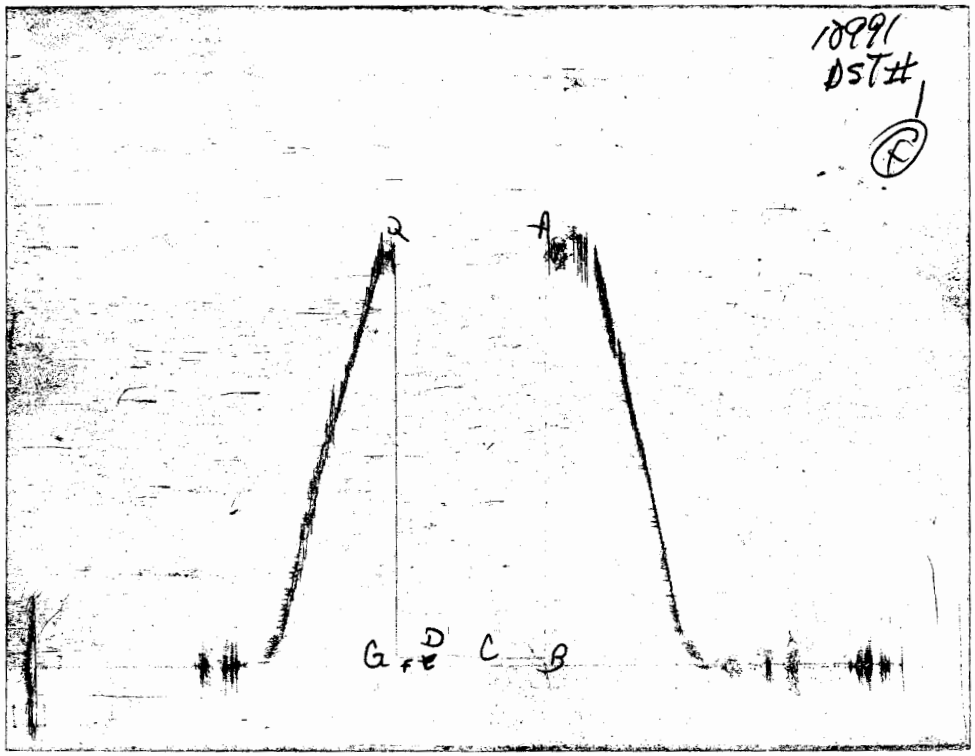


CHART PAGE



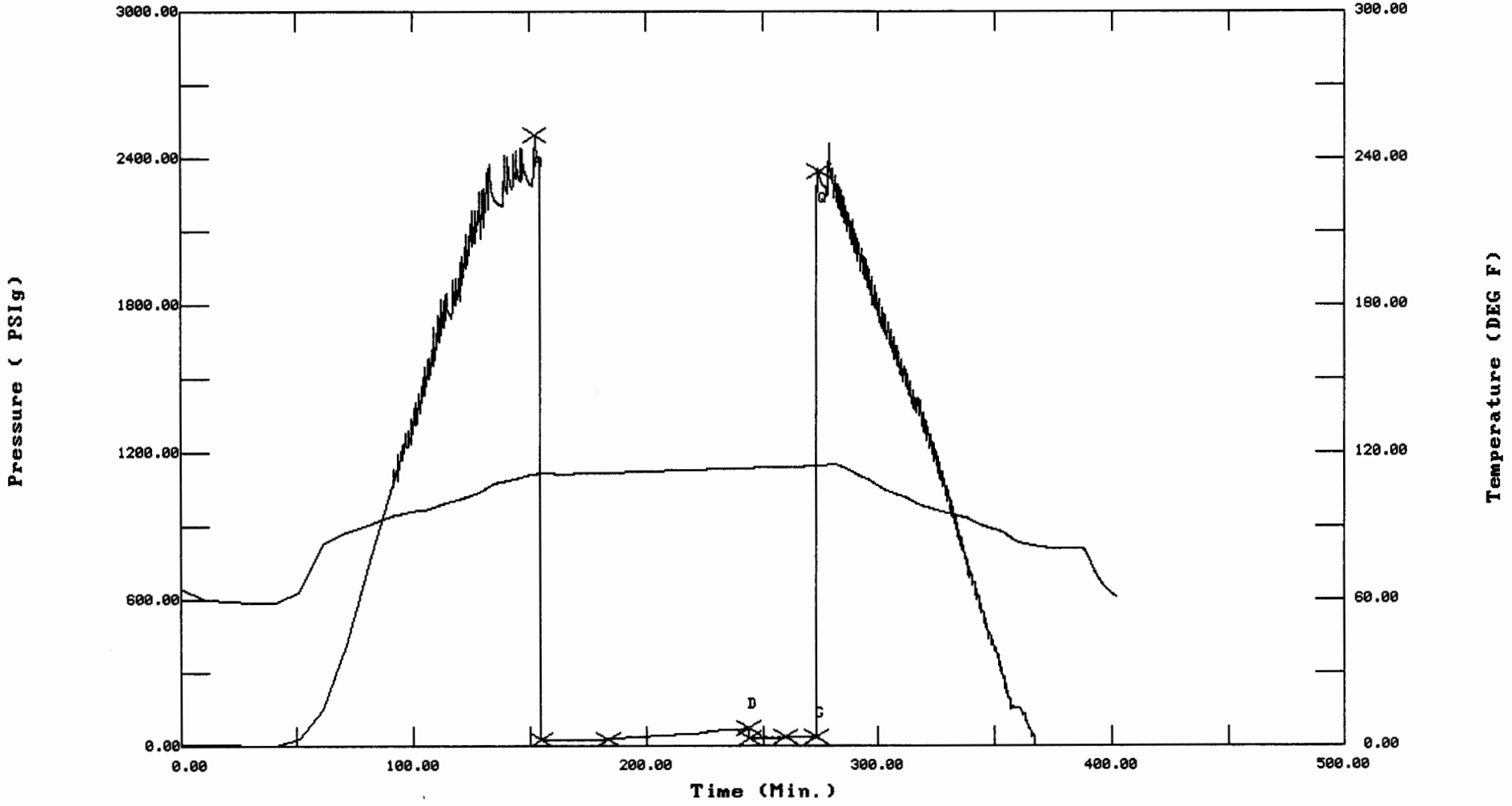
This is a photocopy of the actual AK-1 recorder chart

TEST HISTORY

Tk#12084 DST#1 Hoffman Trust,#1 Crawford Oil&Gas, Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2495.50
B:	0.00	22.82
C:	28.75	22.82
D:	60.25	67.55
E:	0.00	29.53
F:	15.50	32.14
G:	13.25	34.99
Q:	0.00	2348.54



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 № 12084

Test Ticket

Well Name & No. Hoffman Trust #1 Test No. #1 Date 02/24/2000

Company Crawford Oil & Gas Enterprises, Inc Zone Tested Hertha

Address P.O. box 454 Meeteetse, OK 74852-0454 Elevation 1986 KB 1993 GL

Co. Rep / Geo. Jim Hendricks Cont. Duke #7 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 8 Twp. 34S Rge. 18W Co. Comanche State KS

No. of Copies 5 Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4925' - 4994' Initial Str Wt./Lbs. 23,000 Unseated Str Wt./Lbs. 75,000

Anchor Length 69' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. ___

Top Packer Depth 4920' Tool Weight 2100

Bottom Packer Depth 4925' Hole Size — 7 7/8" C Rubber Size — 6 3/4" C

Total Depth 4994' Wt. Pipe Run N/A Drill Collar Run 295.42

Mud Wt. 9.1+ LCM 0 Vis. 53 WL 6.8 Drill Pipe Size 4½ XH Ft. Run 4645.58

Blow Description IF: Weak surface blow built to ¼-½" in H20 bucket.
ISI: Bled down for 1 min. No blow back
FF: Dead blow
FSI: Dead blow.

Recovery — Total Feet 2' GIP Trace Ft. in DC 2' Ft. in DP ___

Rec. 2'	Feet Of VSOCM	%gas 4	%oil	%water 96	%mud
Rec. Trace	Feet Of Gas In Pipe	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud

BHT ___ °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 5100 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud	2513	2496	PSI	Recorder No. 2350	T-On Location 0000
(B) First Initial Flow Pressure	32	23	PSI	(depth) 4931'	T-Started 0055
(C) First Final Flow Pressure	32	23	PSI	Recorder No. 10991	T-Open 0334
(D) Initial Shut-In Pressure	64	68	PSI	(depth) 4991'	T-Pulled 0534
(E) Second Initial Flow Pressure	32	30	PSI	Recorder No. ___	T-Out 0715
(F) Second Final Flow Pressure	32	32	PSI	(depth) ___	T-Off Location 0915
(G) Final Shut-in Pressure	43	35	PSI	Initial Opening 30	Test ✓
(Q) Final Hydrostatic Mud	2502	2349	PSI	Initial Shut-in 60	Jars ✓
				Final Flow 15	Safety Joint ✓
				Final Shut-in 15	Straddle ___
				___	Circ. Sub ___
				___	Sampler ___
					Extra Packer ___
					Elec. Rec. ✓
					Mileage ___
					Other ___
					TOTAL PRICE $ ___

Approved By J.D. Hendricks

Our Representative Darren Somerville

TRILOBITE TESTING L.L.C.

OPERATOR : Crawford Oil & Gas DATE 2-29-00
WELL NAME: Hoffman Trust #1 KB 1905.00 ft TICKET NO: 12517 DST #2
LOCATION : 8-34S-18W GR 1892.00 ft FORMATION: Viola
INTERVAL : 6050.00 To 6116.00 ft TD 6116.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13630	13630	3017		
SI 60	Range(Psi)	4325.0	4325.0	5000.0	0.0	0.0
SF 60	Clock(hrs)	12 HR	12 HR	Elect		
FS 120	Depth(ft)	6113.0	6113.0	6052.0	0.0	0.0

TIME DATA----------
PF Fr. 0920 to 0950 hr
IS Fr. 0950 to 1050 hr
SF Fr. 1050 to 1150 hr
FS Fr. 1150 to 1350 hr

	Field	1	2	3	4
A. Init Hydro	2911.0	2920.0	2908.0	0.0	0.0
B. First Flow	140.0	150.0	83.0	0.0	0.0
B1. Final Flow	174.0	176.0	142.0	0.0	0.0
C. In Shut-in	2239.0	2248.0	2247.0	0.0	0.0
D. Init Flow	205.0	221.0	152.0	0.0	0.0
E. Final Flow	282.0	289.0	239.0	0.0	0.0
F. Fl Shut-in	2269.0	2275.0	2258.0	0.0	0.0
G. Final Hydro	2887.0	2908.0	2900.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 0720 hr
T ON BOTM 0917 hr
T OPEN 0920 hr
T PULLED 1350 hr
T OUT 1715 hr

RECOVERY
Tot Fluid 605.00 ft of 295.00 ft in DC and 310.00 ft in DP
5451.00 ft of Gas in pipe
90.00 ft of Oil & Gas cut Mud
0.00 ft of 5% gas 35 oil 92% mud
125.00 ft of Gassy mud cut oil
0.00 ft of 45% gas 30% oil 25% mud
390.00 ft of Clean gassy oil
0.00 ft of 38% gas 62% oil
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 37.00

TOOL DATA----------

Tool Wt.	2300.00 lbs
Wt Set On Packer	23000.00 lbs
Wt Pulled Loose	6000.00 lbs
Initial Str Wt	83000.00 lbs
Unseated Str Wt	84000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	295.00 ft
D.P. Length	5761.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong bottom of bucket in 1 minute. Cracked 2". Gas to surface in 22 minutes. Gauged 28,000 CFPD.
Initial Shut-In:
No blow back.
Final Flow:
Gauged 66,600 CFPD. Stabilized at 40,000 CFPD.
Final Shut-In:
1" blow-back.
Remarks: Est. 13 Ft. of pay. Gas burned.

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	54.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	136.00 F
Hole Condition	Good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Lanny Saloga
Co. Rep.	Jim Hendricks
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

SAMPLES: One
SENT TO:Caraway

Test Successful: Y

GAS RECOVERY

COMPANY: Crawford Oil & Gas DATE: 2-29-00
WELL NAME: Hoffman Trust #1 KB Elev: 1905.00 ft TICKET #12517 DST #2
WELL LOCATION: 8-34S-18W GR Elev: 1892.00 ft FORMATION: Viola
INTERVAL Fr.: 6050.00 To 6116.00 T.D.: 6116.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orfice

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
30	0.50	0	20	28000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	0	22	66600.0
20	0.75	0	12	49300.0
30	0.75	0	9	42500.0
40	0.75	0	8	40000.0
50	0.75	0	8	40000.0
60	0.75	0	8	40000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Hoffman Trust #1

LOCATION : 8-34S-18W

TICKET No. 12517 D.S.T. No. 2 DATE 2-29-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 35

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 93

D.C. ABOVE TOOLS.Stands 5 Single Total 295

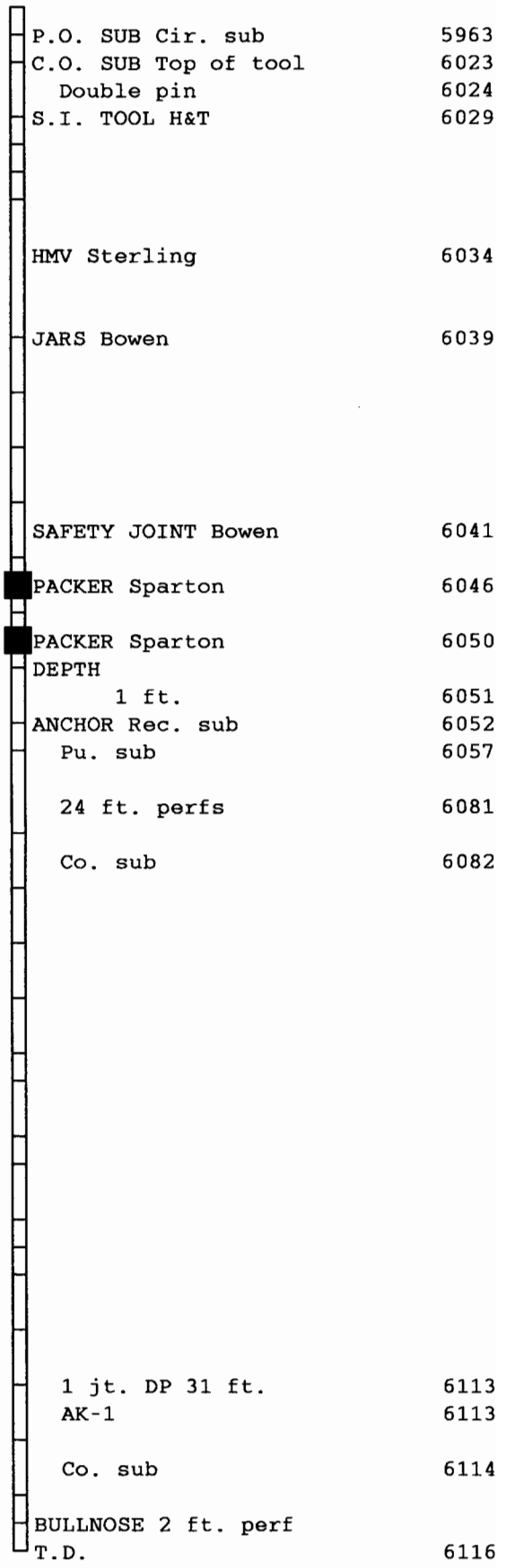
D.P. ABOVE TOOLS.Stands 92 Single 1 Total 5761

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 6149

TOTAL DEPTH 6116

TOTAL DRILL PIPE ABOVE K.B. 33

REMARKS:

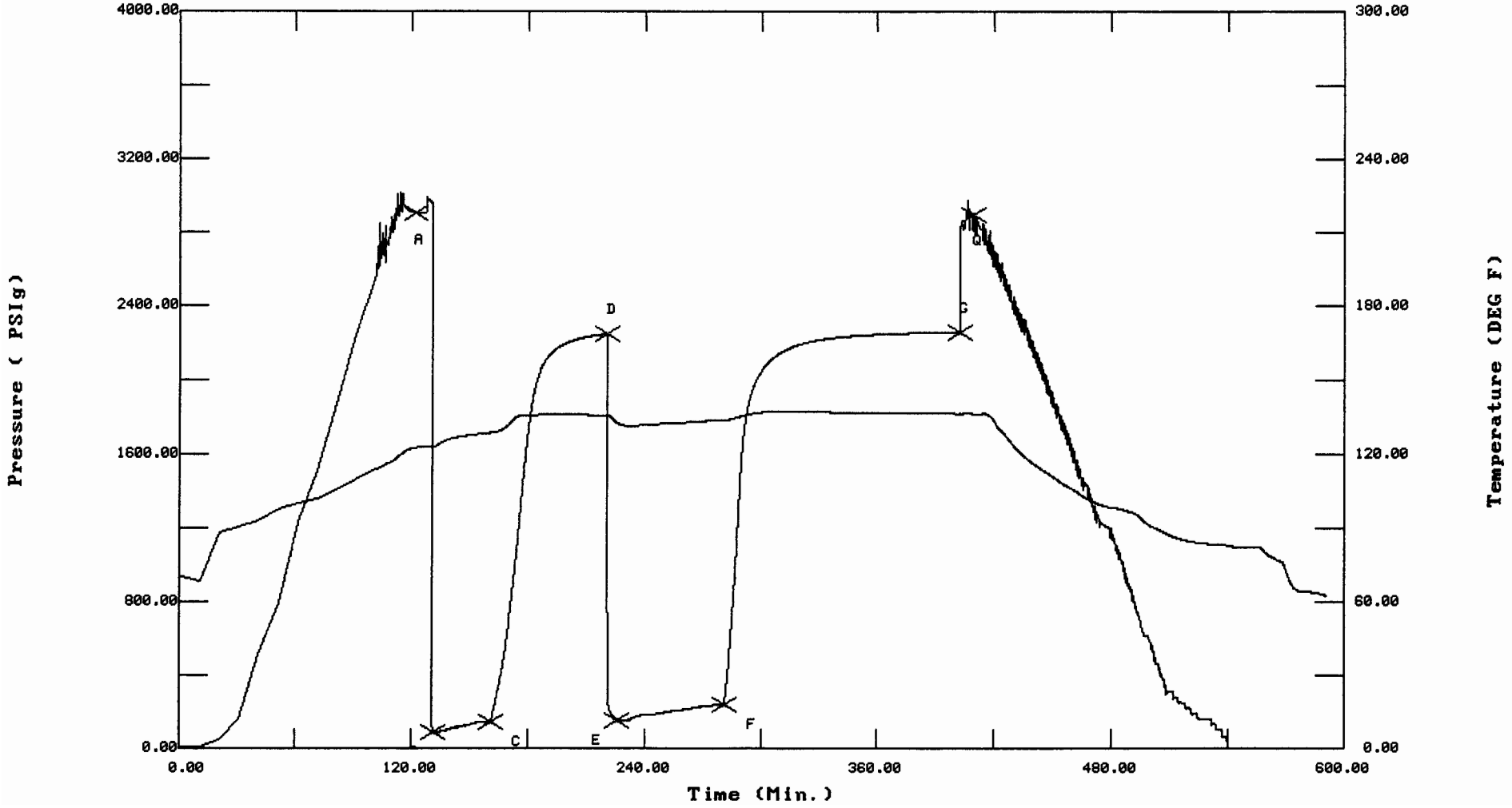


TEST HISTORY

12517 D.S.T.#2 Hoffman Trust #1 Crawford Oil & Gas

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2908.22
B:	0.00	83.48
C:	29.25	142.08
D:	59.75	2247.38
E:	0.00	152.19
F:	55.50	239.97
G:	121.00	2258.34
Q:	0.00	2900.61



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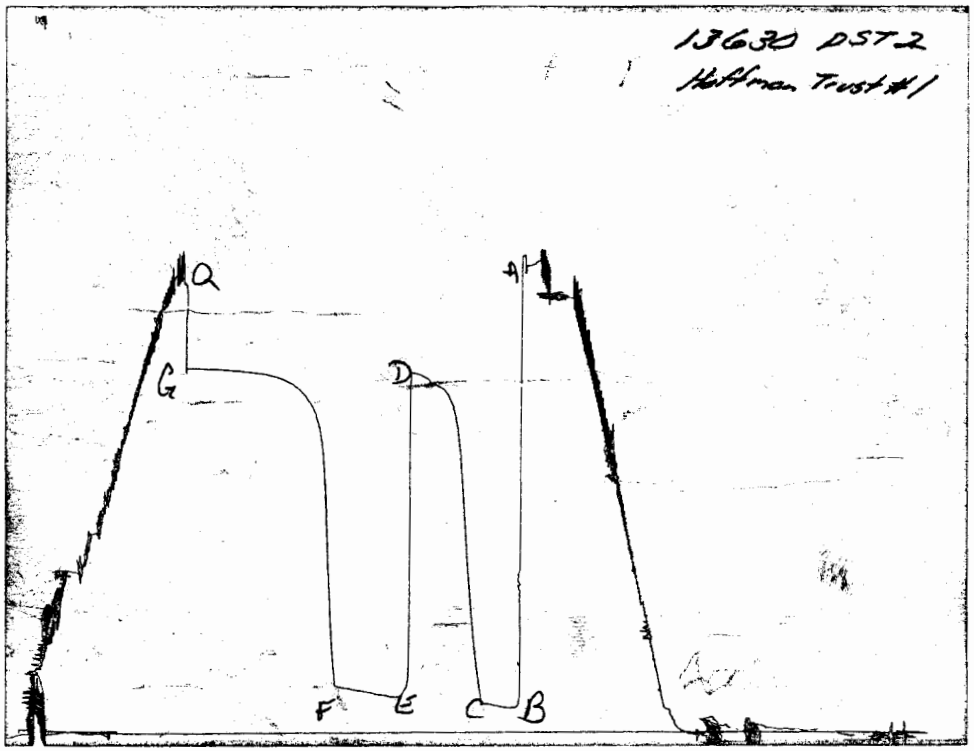


This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.
P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Cranfield Oil & Gas — OPERATOR
Hartman Trust #1 — WELL NAME AND NO.
2 — DST NO.

GTS 22 min. into I.F.P.

I.F.P.

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
30	20	1/2"	28,000	10	22	3/4"	66,600
				20	12	"	49,300
				30	9	"	42,500
				40	8	"	40,000
				50	8	"	40,000
				60	8	"	40,000

Remarks: Gas burned.
1 sample to Caraway.

01 NCR

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 12517

Well Name & No. Hoffman Trust #1 Test No. 2 Date 2-29-00

Company Crawford Oil & Gas Zone Tested Viola

Address P.O. Box 454 Moreland Ok. 73852-0454 Elevation 1905 KB 1892 GL

Co. Rep / Geo. Jim Hendricks Cont. Duke Rig 7 Est. Ft. of Pay 13 Por. 10 %

Location: Sec. 8 Twp. 34s Rge. 18w Co. Comanche State Ks.

No. of Copies Reg. Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 6050-6116 Initial Str Wt./Lbs. 83,000 Unseated Str Wt./Lbs. 84,000

Anchor Length 66' Tail = 27' Wt. Set Lbs. 23,000 Wt. Pulled Loose/Lbs. 6,000

Top Packer Depth 6045 Tool Weight 2,300

Bottom Packer Depth 6050 Hole Size — 7 7/8" Rubber Size — 6 3/4"

Total Depth 6116 Wt. Pipe Run — Drill Collar Run 285 (5)

Mud Wt. 9.1 LCM 6# Vis. 54 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 5761 (9241) 33' up

Blow Description Strong OBB in 1 min. Cracked 2" GTS in 22 min. See Flow Chart. I.F.P.
No blow-back. I.S.I.P.
See Flow Chart F.F.P.
1" blow-back. F.S.I.P.

Recovery — Total Feet 605 GIP 5,451 Ft. in DC 295 Ft. in DP 310

Rec.	Feet Of	%gas	%oil	%water	%mud
90	Oil & Gas cut Mud	5	3		92
125	Gassy Mud cut Oil	45	30		25
390	Cln Gassy Oil	38	62		

BHT 136 °F Gravity 37 °API D@ 60 °F Corrected Gravity 37 °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 4,300 ppm System

	AK-1	Alpine	
(A) Initital Hydrostatic Mud	2911	2908	PSI
(B) First Initial Flow Pressure	140	83	PSI
(C) First Final Flow Pressure	174	142	PSI
(D) Initial Shut-In Pressure	2239	2247	PSI
(E) Second Initial Flow Pressure	205	152	PSI
(F) Second Final Flow Pressure	282	239	PSI
(G) Final Shut-in Pressure	2269	2258	PSI
(Q) Final Hydrostatic Mud	2887	2900	PSI

Recorder No. 3017 "07:10" (depth) 6052
Recorder No. 13630 (depth) 6113
Recorder No. — (depth) —

Initial Opening 30
Initial Shut-in 60
Final Flow 60
Final Shut-in 120

T-On Location 5:30 A.M.
T-Started 7:20 A.M.
T-Open 9:20 A.M.
T-Pulled 1:50 P.M.
T-Out 5:15 P.M.
T-Off Location

Test ✓ ✓
Jars ✓ ✓
Safety Joint ✓ ✓
Straddle
Circ. Sub ✓
Sampler
Extra Packer
Elec. Rec. ✓ ✓
Mileage
Other
TOTAL PRICE $ 4,300.00

22900710.017

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By J. O. Hendricks

Our Representative Jimmy S. Salaza

TRILOBITE TESTING L.L.C.

OPERATOR : Crawford Oil & Gas DATE 3-1-00
WELL NAME: Hoffman Trust #1 KB 1905.00 ft TICKET NO: 12518 DST #3
LOCATION : 8-34S-18W Comanche co KS GR 1892.00 ft FORMATION: Simpson
INTERVAL : 6290.00 To 6315.00 ft TD 6315.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13630	13630	3017		
SI 60	Range(Psi)	4325.0	4325.0	5000.0	0.0	0.0
SF 60	Clock(hrs)	12 HR	12 HR	Elect		
FS 120	Depth(ft)	6312.0	6312.0	6292.0	0.0	0.0

TIME DATA----------
PF Fr. 1820 to 1850 hr
IS Fr. 1850 to 1950 hr
SF Fr. 1950 to 2050 hr
FS Fr. 2050 to 2250 hr

	Field	1	2	3	4
A. Init Hydro	2999.0	3011.0	3008.0	0.0	0.0
B. First Flow	271.0	293.0	253.0	0.0	0.0
B1. Final Flow	908.0	914.0	965.0	0.0	0.0
C. In Shut-in	2384.0	2399.0	2408.0	0.0	0.0
D. Init Flow	986.0	1017.0	992.0	0.0	0.0
E. Final Flow	1791.0	1813.0	1839.0	0.0	0.0
F. Fl Shut-in	2384.0	2411.0	2407.0	0.0	0.0
G. Final Hydro	2958.0	2983.0	2962.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 1620 hr
T ON BOTM 1817 hr
T OPEN 1820 hr
T PULLED 2250 hr
T OUT 0245 hr

RECOVERY
Tot Fluid 3720.00 ft of 295.00 ft in DC and 3425.00 ft in DP
3720.00 ft of Gassy Water
0.00 ft of 4% gas 96% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 66500.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	7000.00 lbs
Initial Str Wt	85000.00 lbs
Unseated Str Wt	103000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	295.00 ft
D.P. Length	5977.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong bottom of bucket in 2 minutes. Cracked 2". Decreased slightly in 30 minutes.
Initial Shut-In:
Strong bottom of bucket blow back.
Final Flow:
Strong bottom of bucket in 2 minutes. Strong throughout.
Final Shut-In:
8" blow back.
Remarks: Est. 13 Ft. of pay. Pit chlorides 5,400 PPM.
RW 0.18 Ohms at 45 F. 66,500 PPM.
SAMPLES: None
SENT TO:

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	52.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	147.00 F
Hole Condition	Good
% Porosity	20.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	Y
Tool Chased	N
Tester	Lanny Saloga
Co. Rep.	Jim Hendricks
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Hoffman Trust #1

LOCATION : 8-34S-18W Comanche co KS

TICKET No. 12518 D.S.T. No. 3 DATE 3-1-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 25

TOTAL TOOL 52

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 5 Single Total 295

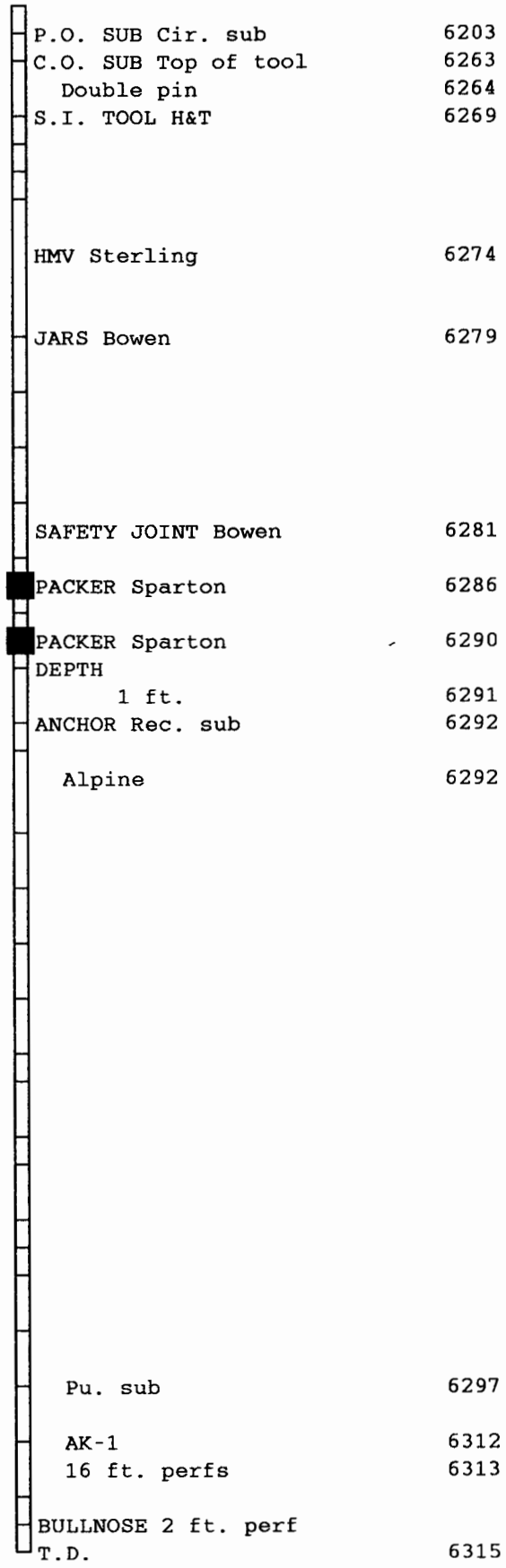
D.P. ABOVE TOOLS.Stands 96 Single Total 5977

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 6324

TOTAL DEPTH 6315

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:
Pit chlorides 5,400 PPM.
Rec. RW. 0.18 Ohms at 45 F. 66,500 PPM.
Reversed wtr to reserve pit.



TEST HISTORY

12518 D.S.T.#3 Hoffman Trust #1 Crawford Oil & Gas

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	3008.28
B:	0.00	253.47
C:	30.00	965.60
D:	60.50	2408.16
E:	0.00	992.49
F:	59.25	1839.01
G:	121.25	2407.22
Q:	0.00	2962.35

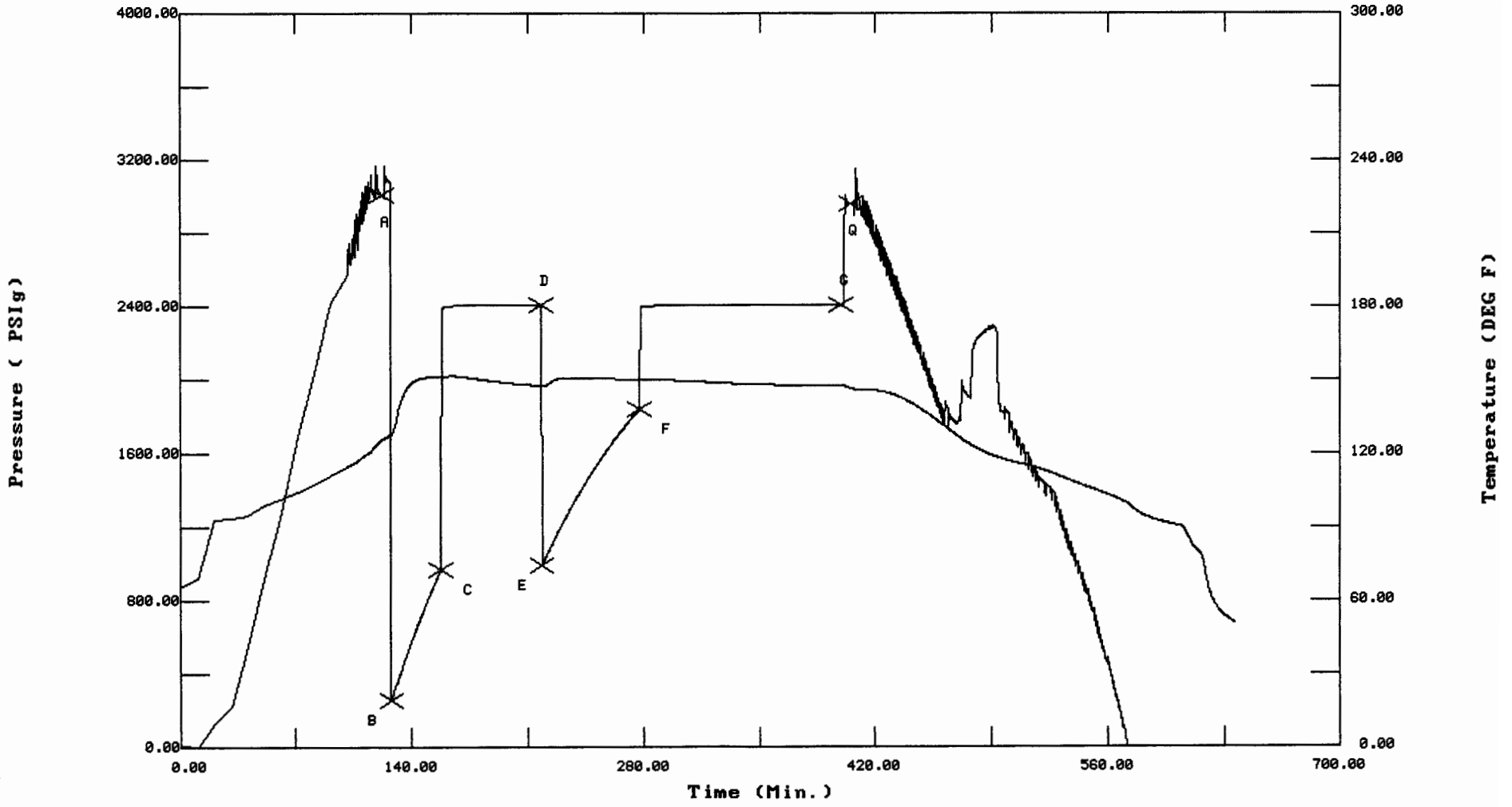
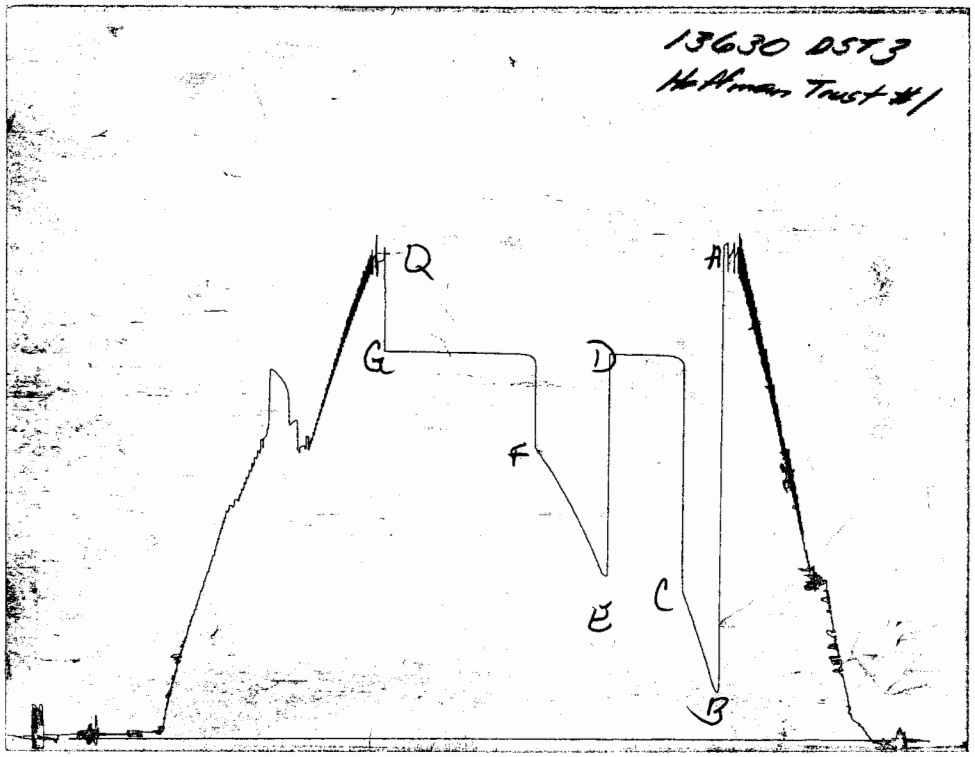


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 12518

Well Name & No. Hoffman Trust #1 Test No. 3 Date 3-1-00

Company Crawford Oil & Gas Zone Tested Simpson

Address Moorland OK. 73852 Elevation 1905 KB 1892 GL

Co. Rep / Geo. Jim Hendricks Cont. Duke Rig 7 Est. Ft. of Pay 23 Por. 20 %

Location: Sec. 8 Twp. 34S Rge. 18W Co. Comanche State KS.

No. of Copies Reg. Distribution Sheet (Y, N) N. Turnkey (Y, N) N. Evaluation (Y, N) _____

Interval Tested 6290-6345 Initial Str Wt./Lbs. 85,000 Unseated Str Wt./Lbs. 103,000

Anchor Length 25' Tool = 27' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 7,000

Top Packer Depth 6285 Tool Weight 1,800

Bottom Packer Depth 6290 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 6345 Wt. Pipe Run — Drill Collar Run 225

Mud Wt. 9.0 LCM 6# Vis. 52 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 5977 9'up

Blow Description Strong OBB in 2 min. Cracked 2" & Decreased slightly in 30 min. I.F.P.

Strong OBB blow-back.

Strong OBB in 2 min. Strong throughout. F.F.P.

8" blow-back. F.S.I.P.

Recovery — Total Feet 3,720 GIP 0 Ft. in DC 225 Ft. in DP 3,425

Rec. 3,720	Feet Of Gassy W&C.	4 %gas	%oil	96 %water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 147 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW 0.18 @ 45 °F Chlorides 66,500 ppm Recovery Chlorides 5,400 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	2999	3008	PSI	Recorder No.	3017 "16=13"	T-On Location 3:00 P.M.
(B) First Initial Flow Pressure	271	253	PSI	(depth)	6292	T-Started 4:20 P.M.
(C) First Final Flow Pressure	908	965	PSI	Recorder No.	13630	T-Open 6:20 P.M.
(D) Initial Shut-In Pressure	2384	2408	PSI	(depth)	6312	T-Pulled 10:50 P.M.
(E) Second Initial Flow Pressure	986	992	PSI	Recorder No.	—	T-Out 2:45 A.M.
(F) Second Final Flow Pressure	1791	1839	PSI	(depth)	—	T-Off Location _____
(G) Final Shut-in Pressure	2384	2407	PSI	Initial Opening	30	Test ✓
(Q) Final Hydrostatic Mud	2958	2962	PSI	Initial Shut-in	60	Jars ✓
				Final Flow	60	Safety Joint ✓
				Final Shut-in	120	Straddle _____
						Circ. Sub ✓ Reversed
						Sampler _____
						Extra Packer _____
						Elec. Rec. ✓
						Mileage _____
						Other 1 Ho.
						TOTAL PRICE $ 1,365.00

3010164.017

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Approved By J. D. Hendricks

Our Representative Tommy L. Labaye