

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : John O. Farmer Inc.
WELL NAME: Cooper Trust "1-34"
LOCATION : 34-30S-31W Haskell co KS
INTERVAL : 5285.00 To 5384.00 ft

DATE 5-31-00
KB 2839.00 ft TICKET NO: 12567 DST #1
GR 2828.00 ft FORMATION: Morrow
TD 5384.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 5 Rec.	10242	10242	3017			PF Fr. 0545 to 0550 hr
SI 30 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 0550 to 0620 hr
SF 90 Clock(hrs)	24 HR	24 HR	Elect			SF Fr. 0620 to 0750 hr
FS 240 Depth(ft)	5381.0	5381.0	5287.0	0.0	0.0	FS Fr. 0750 to 1150 hr

	Field	1	2	3	4	
A. Init Hydro	2659.0	2643.0	2542.0	0.0	0.0	T STARTED 0250 hr
B. First Flow	191.0	203.0	93.0	0.0	0.0	T ON BOTM 0544 hr
B1. Final Flow	196.0	205.0	157.0	0.0	0.0	T OPEN 0545 hr
C. In Shut-in	1559.0	1578.0	1554.0	0.0	0.0	T PULLED 1150 hr
D. Init Flow	238.0	261.0	178.0	0.0	0.0	T OUT 1600 hr
E. Final Flow	280.0	293.0	250.0	0.0	0.0	
F. Fl Shut-in	1702.0	1715.0	1667.0	0.0	0.0	
G. Final Hydro	2598.0	2621.0	2464.0	0.0	0.0	
Inside/Outside	I	I	I			

RECOVERY

Tot Fluid 720.00 ft of 275.00 ft in DC and 445.00 ft in DP
4558.00 ft of Gas in pipe.
230.00 ft of Clean gassy oil
0.00 ft of 45% gas 55% oil
370.00 ft of Mud cut gassy oil
0.00 ft of 33% gas 42% oil 25% mud
120.00 ft of Gassy mud cut oil
0.00 ft of 43% gas 43% oil 14% mud
0.00 ft of

RELEASED

DEC 17 2001

FROM CONFIDENTIAL

SALINITY 0.00 P.P.M. A.P.I. Gravity 28.00

BLOW DESCRIPTION

Initial Flow:

Weak 2" built to strong bottom of bucket in 4 minutes.

Initial Shut-In:

No blow back.

Final Flow:

Strong bottom of bucket immediately.
Gas to surface in 11 minutes. Gauged 21,900 CFPD. Decreased to 14,100 CFPD in 90 minutes.

Final Shut-In:

Strong bottom of bucket blow back.

Remarks: Est. 8 Ft. of Pay. Gas burned.

SAMPLES: One

SENT TO: Caraway

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	48.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	Good
% Porosity	25.00
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.	Craig Caulk
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: John O. Farmer Inc.

DATE: 5-31-00

WELL NAME: Cooper Trust "1-34"

KB Elev: 2839.00 ft TICKET #12567 DST #1

WELL LOCATION: 34-30S-31W Haskell co KS

GR Elev: 2828.00 ft FORMATION: Morrow

INTERVAL Fr.: 5285.00 To 5384.00 T.D.: 5384.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.50	0	12	21900.0
30	0.50	0	11	20900.0
40	0.50	0	10	19900.0
50	0.50	0	9	18800.0
60	0.50	0	8	17200.0
70	0.50	0	7	16700.0
80	0.50	0	6	15400.0
90	0.50	0	5	14100.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Cooper Trust "1-34"

LOCATION : 34-30S-31W Haskell co KS

TICKET No. 12567 D.S.T. No. 1 DATE 5-31-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 63

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands	Single	Total
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D.P. ANCHOR STND.Stands	1 Single	Total 63
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TOTAL ASSEMBLY 126

D.C. ABOVE TOOLS.Stands 4 Single 1 Total 275

D.P. ABOVE TOOLS.Stands 80 Single Total 5003

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5404

TOTAL DEPTH 5384

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

P.O. SUB Cir. sub	5198
C.O. SUB Top of tool	5258
Double pin	5259
S.I. TOOL Sterling	5264

HMV Sterling	5269
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JARS Bowen 5274

SAFETY JOINT Bowen 5276

PACKER Sparton 5281

PACKER Sparton 5285

DEPTH		
1 ft.		5286

ANCHOR Rec. sub 5287

Alpine	5287
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Pu. sub 5292

25 ft. perfs	5317
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Co. sub 5318

1 std DP 63 ft. 5381

AK-1 5381

Co. sub 5382

BULLNOSE 2 ft. perf
T.D. 5384

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	20003172	Analyzed:	06/01/00
Sample From:	Cooper Trust 1-34 DST 1	Pressure:	
Producer:	John O. Farmer	Temperature:	
Date:	05/31/00	Location:	34-30-31
Time:		County:	Haskell
Sampler:	Lanny Saloga	State:	Kansas
Source:		Formation:	Morrow

		Mole %	GPM
Helium	He:	0.015	0.000
Hydrogen	H2:	0.003	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	2.722	0.000
Carbon Dioxide	CO2:	0.185	0.000
Methane	C1:	67.516	0.000
Ethane	C2:	12.745	3.409
Propane	C3:	9.497	2.617
Iso Butane	iC4:	1.455	0.476
Normal Butane	nC4:	2.797	0.882
Iso Pentane	iC5:	0.692	0.253
Normal Pentane	nC5:	0.820	0.297
Hexanes Plus	C6+:	1.553	0.678

TOTAL: 100.000 8.611
Z Fact: 0.9951
SP.GR.: 0.8576
BTU (SAT): 1410.5 @ 14.73 psia
BTU (DRY): 1435.5 @ 14.73 psia
OCTANE RATING: 115.4

COMMENTS:

0.000

Operator.....: John O. Farmer
Well Name.....: Cooper Trust "1-34"
DST Number.....: 1

Location.: 34-30S-31W Haskell coKS Recorder No...: 3017
Test Type: Conventional Recorder Depth: 5287
Formation: Morrow Test Interval.: 5285-5384

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	8.00 ft
Porosity.....:	17.00 %
Bottom Hole Temp.....:	126.00 F
Specific Gravity.....:	0.038
API Gravity.....:	28.00
Compressibility.....:	0.000012 /psi
Viscosity.....:	3.7026 cp
Total Recovery.....:	720.00 ft
Total Flowing Time.....:	95.00 min.
Flow Rate.....:	33.87 bbls/d
Final Flowing Pressure.....:	250.00 psi
Horner Slope.....:	127.4674 psi/cycle
Extrapolated Pressure.....:	1685.10 psi
Formation Volume Factor.....:	1.11 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	22.291163 md
Flow Capacity.....:	178.3293 md.ft
Transmissibility.....:	48.1633 md.ft/cp
Skin Factor.....:	8.3041
Radius of Investigation.....:	63.75932 ft
Damage Ratio.....:	2.7841
Productivity Index.....:	0.0236 bbls/psi.d
Productivity Index W/O Damage.:	0.0657 bbls/psi.d

Operator.....: John O. Farmer
Well Name.....: Cooper Trust "1-34"
DST Number.....: 1

Location.: 34-30S-31W Haskell coKS Recorder No...: 3017
Test Type: Conventional Recorder Depth: 5287
Formation: Morrow Test Interval.: 5285-5384

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	8.00 ft
Porosity.....:	25.00 %
Bottom Hole Temp.....:	126.00 F
Specific Gravity.....:	0.038
API Gravity.....:	28.00
Compressibility.....:	0.000012 /psi
Viscosity.....:	3.7026 cp
Total Recovery.....:	720.00 ft
Total Flowing Time.....:	95.00 min.
Flow Rate.....:	33.87 bbls/d
Final Flowing Pressure.....:	250.00 psi
Horner Slope.....:	127.4674 psi/cycle
Extrapolated Pressure.....:	1685.10 psi
Formation Volume Factor.....:	1.11 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	22.291163 md
Flow Capacity.....:	178.3293 md.ft
Transmissibility.....:	48.1633 md.ft/cp
Skin Factor.....:	8.4969
Radius of Investigation.....:	52.57728 ft
Damage Ratio.....:	2.9044
Productivity Index.....:	0.0236 bbls/psi.d
Productivity Index W/O Damage..:	0.0686 bbls/psi.d

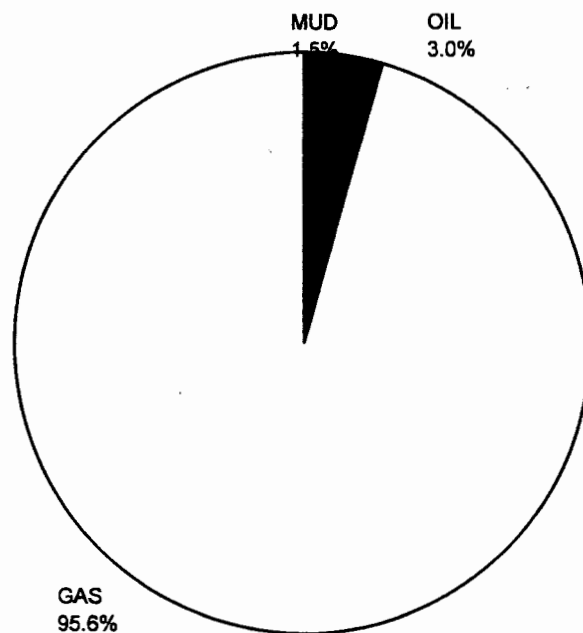
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 12567

SAMPLE		TOTAL	GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE	1	4558	100	4558	0	0	0	0	0	0
	2	230	45	103.5	55	126.5	0	0	0	0
	3	215	33	70.95	42	0	0	0	25	53.75
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT PIPE	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL COLLARS	1	155	33	51.15	42	65.1	0	0	25	38.75
	2	120	43	51.6	43	0	0	0	14	16.8
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		5278	0	4835.2	0	191.6	0	0	0	109.3

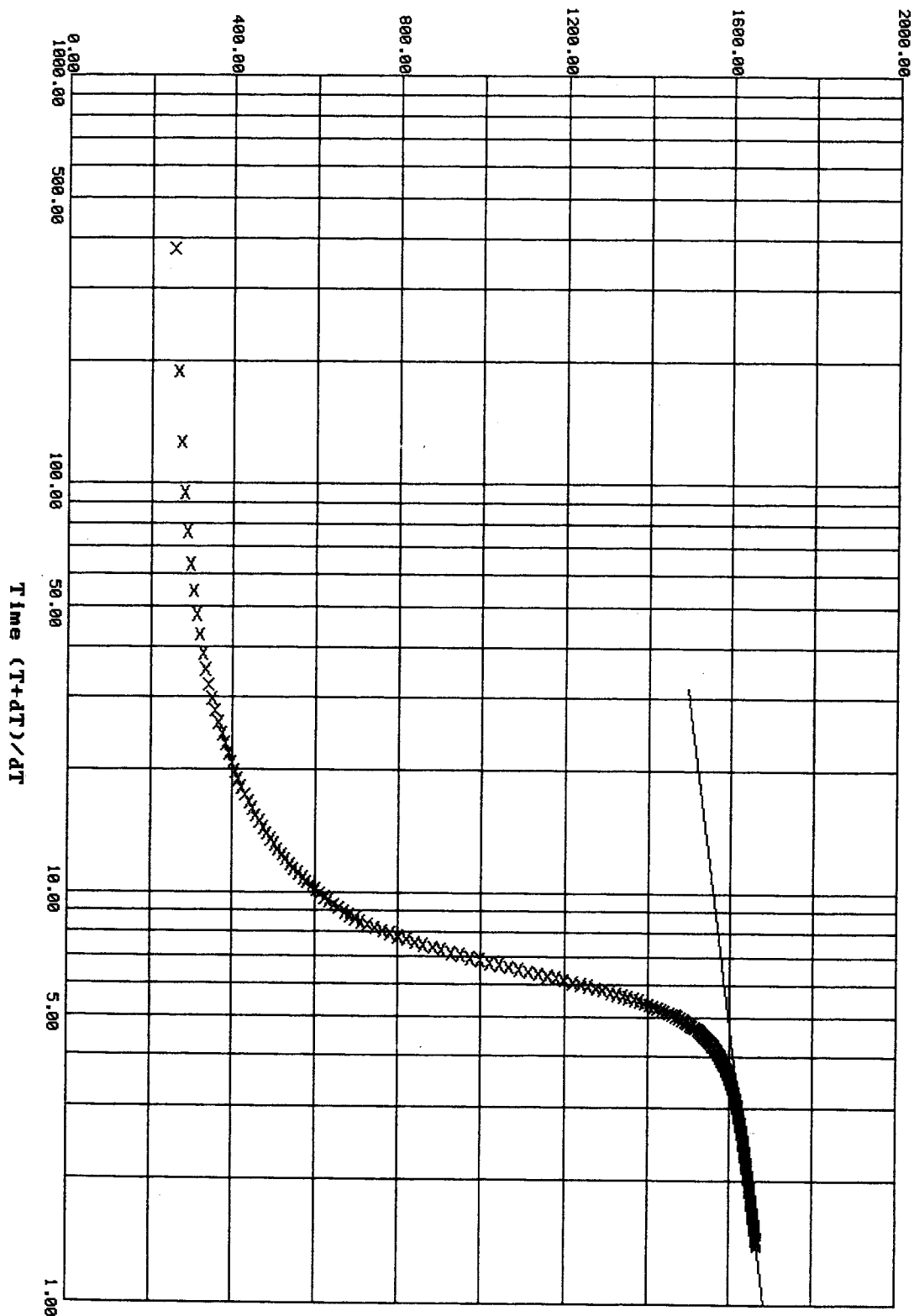
BBL OIL=	2.117169	*	HRS OPEN	1.5	=	BBL/DAY	33.874704
BBL WATER=	0	*			=		0
BBL MUD=	1.0359645						
BBL GAS =	67.797887						



Horner Plot: shut-in #2

12567 D.S.T.#1 Cooper Trust "1-34" John O. Farmer

Slope: 127.4674 PSig/cycle
Ext. Pressure: 1685.0959 PSig



12567 D.S.T.#1 Cooper Trust "1-34" John O. Farmer Inc.

TEST HISTORY

Flag Points

	t (Min.)	P (PSig)
Rt	0.00	2542.16
Bt	0.00	93.55
Ct	6.00	157.16
Dt	31.25	1554.98
Et	0.00	178.57
Ft	97.75	250.06
Ct	241.50	1687.02
Qt	0.00	2464.60

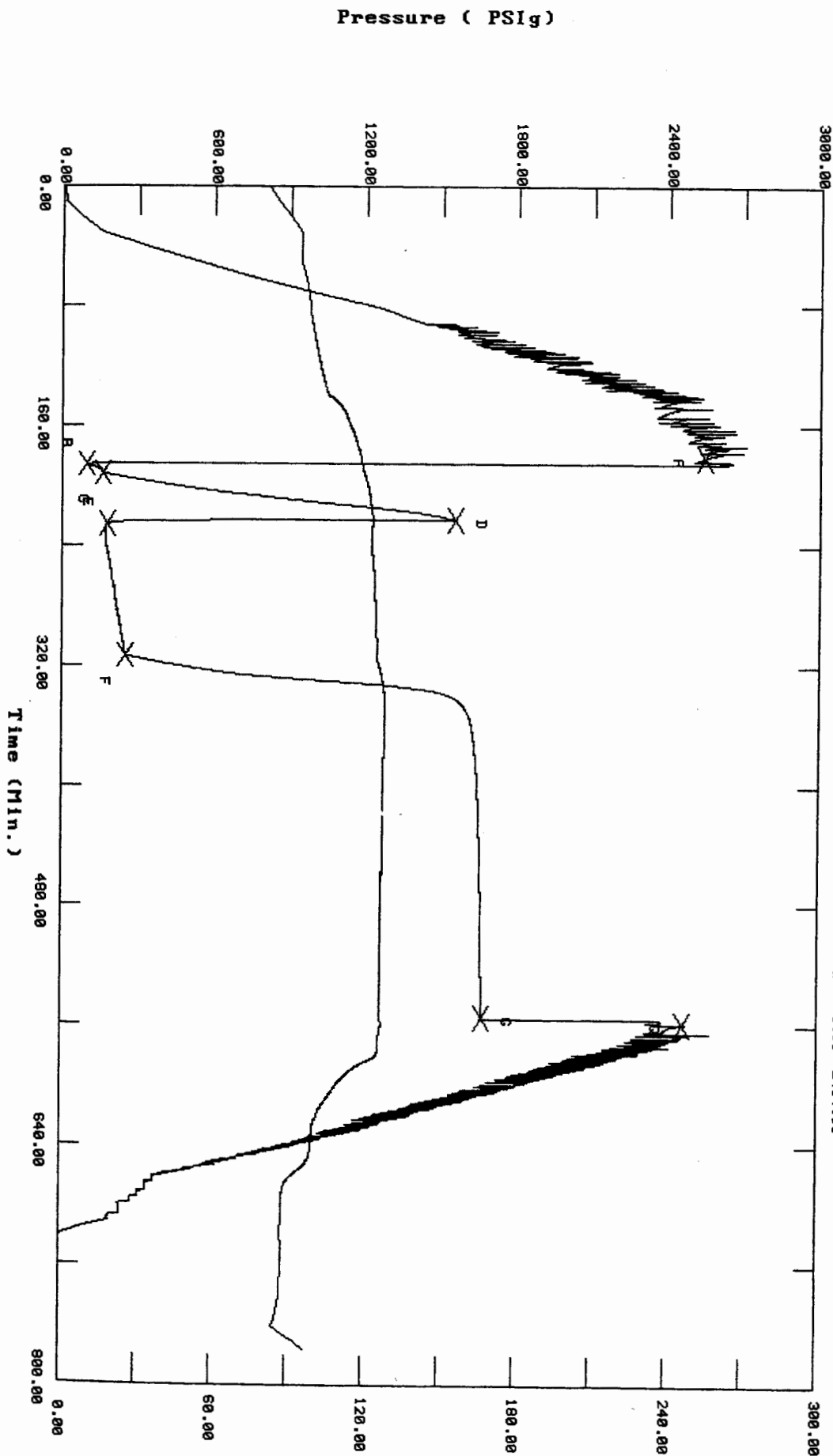
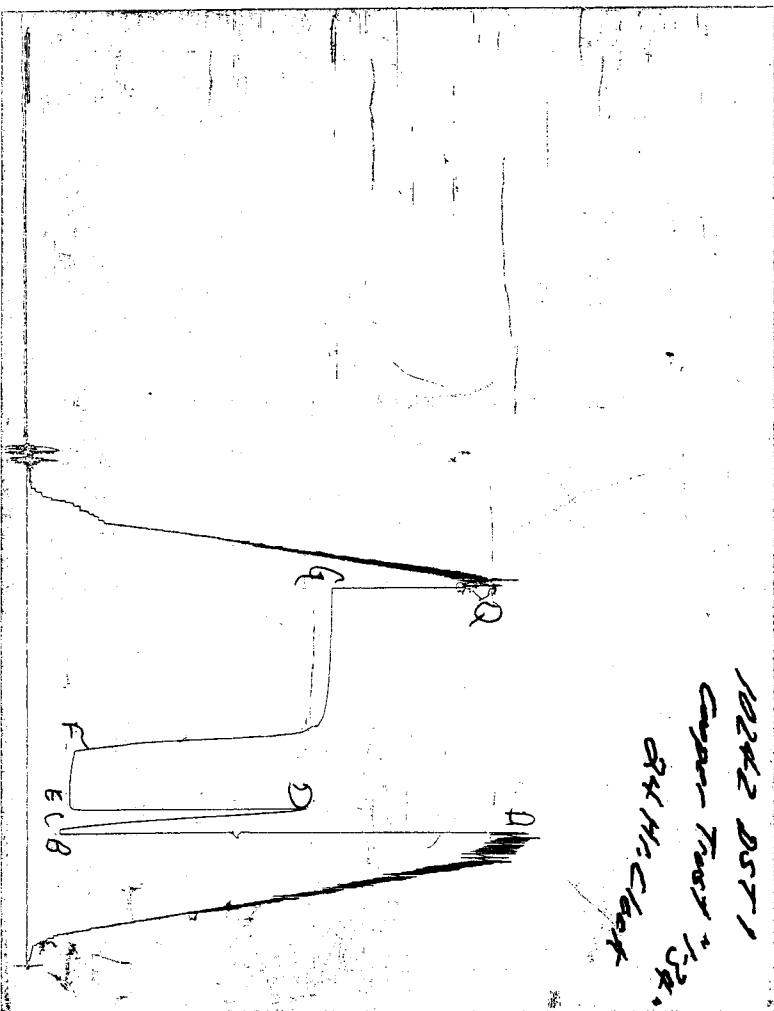


CHART PAGE

10242 DST 1
Compton Trust " 1-34.
84 H. C. Clark



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



GAS VOLUME REPORT

DST NO

GTS 11 min. into F.F.P.

IFP

FFP

1 sample to = Caraway

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12567

Well Name & No.	<u>Copper Trust "1-34"</u>	Test No.	<u>1</u>	Date	<u>5-31-00</u>
Company	<u>John O. Farmer Inc.</u>	Zone Tested	<u>Maconn</u>		
Address	<u>Box 252 Russell KS 67665</u>	Elevation	<u>2839</u>	KB	<u>2828</u> GL
Co. Rep / Geo.	<u>Craig Caulk</u>	Cont.	<u>Martin Rig 20</u>	Est. Ft. of Pay	<u>8</u> Por. <u>25</u> %
Location: Sec.	<u>34</u>	Twp.	<u>30S</u>	Rge.	<u>31W</u> Co. <u>Haskell</u> State <u>KS</u>
No. of Copies	<u>2</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u></u>

Interval Tested	<u>5285-5384</u>	Initial Str Wt./Lbs.	<u>5200</u>	Unseated Str Wt./Lbs.	<u>5500</u>
Anchor Length	<u>99'</u>	Tool =	<u>27'</u>	Wt. Set Lbs.	<u>22000</u>
Top Packer Depth	<u>5280</u>	Tool Weight	<u>2,800</u>	Wt. Pulled Loose/Lbs.	<u>2000</u>
Bottom Packer Depth	<u>5285</u>	Hole Size —	<u>7 7/8"</u>	Rubber Size —	<u>6 3/4"</u>
Total Depth	<u>5384</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>275</u>
Mud Wt.	<u>9.1</u>	LCM	<u>2#</u>	Vis.	<u>48</u>
WL	<u>8.4</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>5003 20'ip</u>
Blow Description	<u>Weak 2' built to string OBB in 4 min. I.F.P.</u>				
	<u>No blow-back. I.S.I.P.</u>				
	<u>String immob. GTS in 11 min. See Flow Chart. F.F.P.</u>				
	<u>String OBB blow-back. F.S.I.P.</u>				
Recovery — Total Feet	<u>720</u>	GIP	<u>4558</u>	Ft. in DC	<u>275</u>
				Ft. in DP	<u>445</u>
Rec.	<u>230</u>	Feet Of	<u>Clm Gassy Oil</u>	<u>45</u> %gas	<u>55</u> %oil
				%water	%mud
Rec.	<u>370</u>	Feet Of	<u>Mud and Gassy Oil</u>	<u>33</u> %gas	<u>42</u> %oil
				%water	<u>25</u> %mud
Rec.	<u>120</u>	Feet Of	<u>Gassy mud and oil</u>	<u>43</u> %gas	<u>43</u> %oil
				%water	<u>14</u> %mud
Rec.		Feet Of		%gas	%oil
				%water	%mud
Rec.		Feet Of		%gas	%oil
				%water	%mud
BHT	<u>126</u>	°F Gravity	<u>32</u>	°API D@	<u>100</u>
				°F Corrected Gravity	<u>28</u>
°API					
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>
				ppm Recovery	Chlorides <u>2000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2659</u>	<u>2542</u>	PSI	Recorder No.	<u>3017 "02:41"</u>
(B) First Initial Flow Pressure	<u>191</u>	<u>93</u>	PSI	(depth)	<u>5287</u>
(C) First Final Flow Pressure	<u>196</u>	<u>157</u>	PSI	Recorder No.	<u>10242</u>
(D) Initial Shut-In Pressure	<u>1559</u>	<u>1554</u>	PSI	(depth)	<u>5281</u>
(E) Second Initial Flow Pressure	<u>238</u>	<u>178</u>	PSI	Recorder No.	<u>—</u>
(F) Second Final Flow Pressure	<u>280</u>	<u>250</u>	PSI	(depth)	<u>—</u>
(G) Final Shut-in Pressure	<u>1702</u>	<u>1667</u>	PSI	Initial Opening	<u>5</u>
(Q) Final Hydrostatic Mud	<u>2578</u>	<u>2464</u>	PSI	Initial Shut-in	<u>30</u>
				Final Flow	<u>90</u>
				Final Shut-in	<u>240</u>
				T-On Location	<u>12:15 AM.</u>
				T-Started	<u>2:50 AM.</u>
				T-Open	<u>5:45 AM.</u>
				T-Pulled	<u>11:50 AM.</u>
				T-Out	<u>4:00 P.M.</u>
				T-Off Location	<u>—</u>
				Test	<u>✓</u>
				Jars	<u>✓</u>
				Safety Joint	<u>✓</u>
				Straddle	<u>—</u>
				Circ. Sub	<u>✓</u>
				Sampler	<u>—</u>
				Extra Packer	<u>—</u>
				Elec. Rec.	<u>✓</u>
				Mileage	<u>—</u>
				Other	<u>6 Hrs. ✓</u>
				TOTAL PRICE \$	<u>4,380.00</u>

53100241.017
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 [Signature]
Our Representative [Signature]

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : John O. Farmer Inc.

DATE 6-1-00

WELL NAME: Cooper Trust "1-34"

KB 2839.00 ft

TICKET NO: 12568

DST #2

LOCATION : 34-30S-31W Haskell co KS

GR 2828.00 ft

FORMATION: Morrow

INTERVAL : 5405.00 To 5441.00 ft

TD 5441.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF	0	Rec.	10242	10242	Alpine		PF Fr. 0555 to 0600 hr
SI	0	Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0 IS Fr. to hr
SF	0	Clock(hrs)	24 HR	24 HR	Elect		SF Fr. to hr
FS	0	Depth(ft)	5438.0	5438.0	5407.0	0.0	0.0 FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2610.0	0.0	0.0	T STARTED 0325 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 0553 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 0555 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0610 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0850 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2572.0	0.0	0.0	
Inside/Outside	I	I	I			

RECOVERY

Tot Fluid 570.00 ft of 275.00 ft in DC and 295.00 ft in DP

570.00 ft of Mud

0.00 ft of 100% 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

BLOW DESCRIPTION

Miss-run "Packer Failure"

RELEASED

DEC 17 2001

FROM CONFIDENTIAL

SAMPLES: None

SENT TO:

Test Successful: N

TOOL DATA-----

Tool Wt.	1800.00 lbs
Wt Set On Packer	40000.00 lbs
Wt Pulled Loose	10000.00 lbs
Initial Str Wt	52000.00 lbs
Unseated Str Wt	53000.00 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	275.00 ft
D.P. Length	5127.00 ft

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	65.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	100.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 F
Hole Condition	Good
% Porosity	30.00
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.	Craig Caulk
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

[illegible]

LOCATION : 34-30S-31W Haskell co KS

TICKET No. 12568 D.S.T. No. 2 DATE 6-1-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 63

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
31	1	1	1
32	1	1	1
33	1	1	1
34	1	1	1
35	1	1	1
36	1	1	1
37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
43	1	1	1
44	1	1	1
45	1	1	1
46	1	1	1
47	1	1	1
48	1	1	1
49	1	1	1
50	1	1	1
51	1	1	1
52	1	1	1
53	1	1	1
54	1	1	1
55	1	1	1
56	1	1	1
57	1	1	1
58	1	1	1
59	1	1	1
60	1	1	1
61	1	1	1
62	1	1	1
63	1	1	1
64	1	1	1
65	1	1	1
66	1	1	1
67	1	1	1
68	1	1	1
69	1	1	1
70	1	1	1
71	1	1	1
72	1	1	1
73	1	1	1
74	1	1	1
75	1	1	1
76	1	1	1
77	1	1	1
78	1	1	1
79	1	1	1
80	1	1	1
81	1	1	1
82	1	1	1
83	1	1	1
84	1	1	1
85	1	1	1
86	1	1	1
87	1	1	1
88	1	1	1
89	1	1	1
90	1	1	1
91	1	1	1
92	1	1	1
93	1	1	1
94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.	Stands	Single	Total
-------------------	--------	--------	-------

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands 4 Single 1 Total 275

D.P. ABOVE TOOLS.Stands 82 Single Total 5127

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5465

TOTAL DEPTH 5441

TOTAL DRILL PIPE ABOVE K.B. 24

REMARKS:

Miss-run "Packer Failure"

Tried setting tool 3 times, packers would not hold.

12568 D.S.T.#2 Cooper Trust "1-34" John O. Farmer Inc.

TEST HISTORY

Flag Points
t(Min.) P(PSig)
R1 0.00 2610.25
Q1 0.00 2572.00

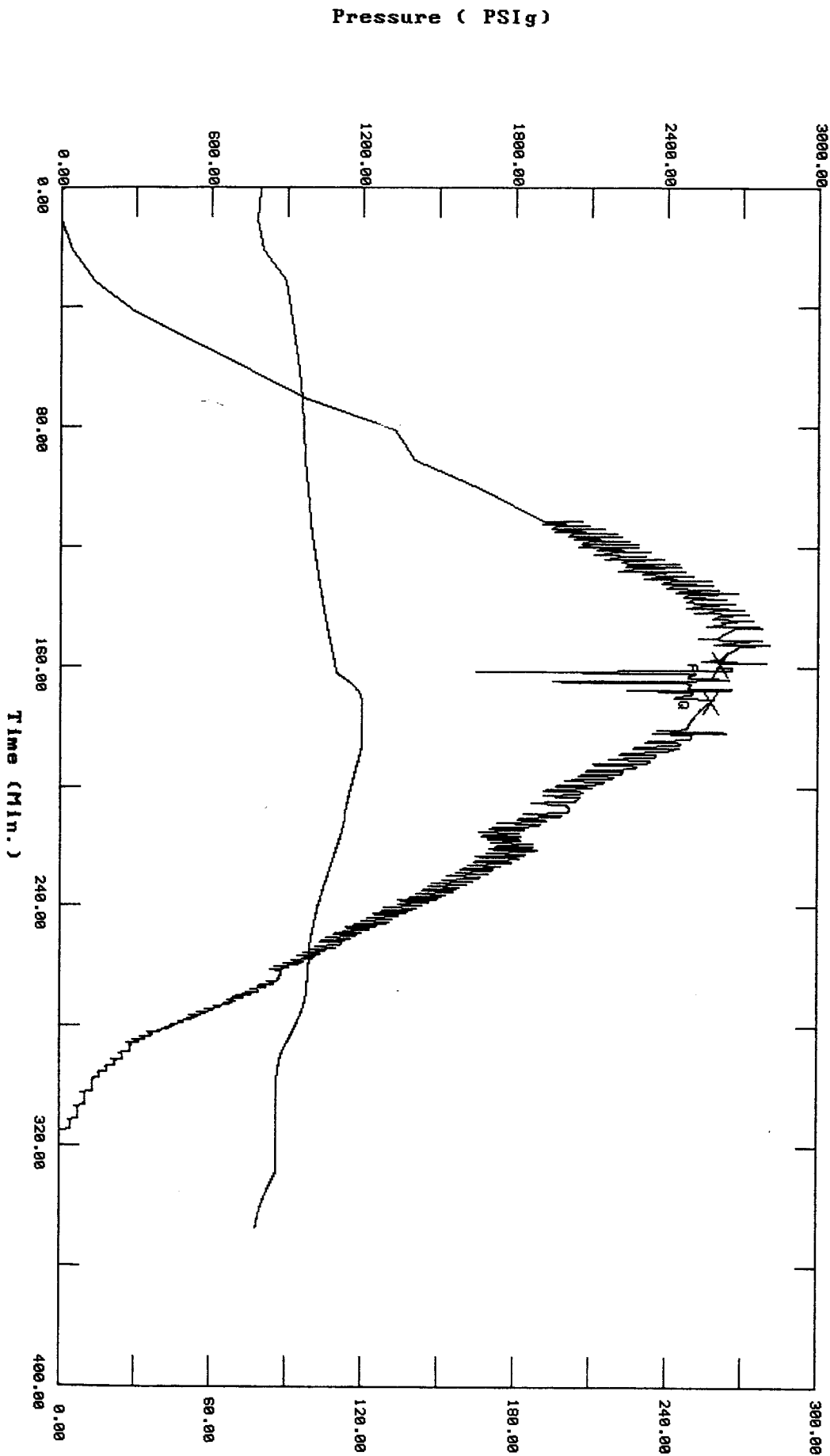
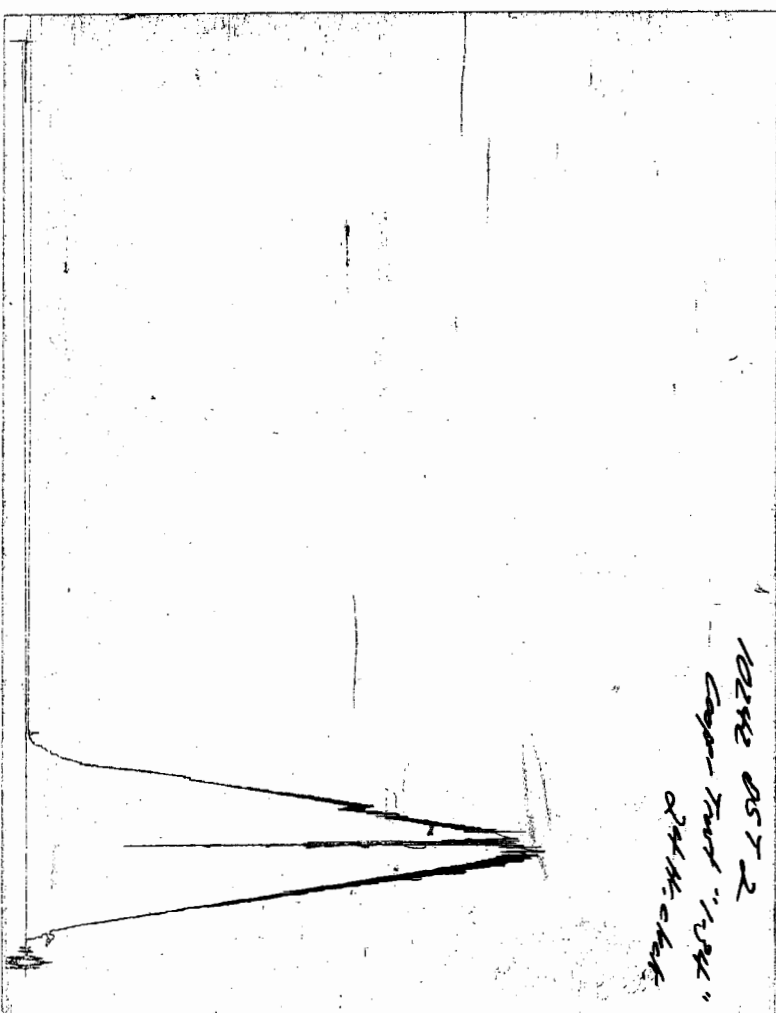


CHART PAGE



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

N^o 12568

Well Name & No.	<u>Cooper Trust "1-34"</u>	Test No.	<u>2</u>	Date	<u>6-1-00</u>
Company	<u>John O. Farmer</u>	Zone Tested	<u>Normal</u>		
Address	<u>Russell KS 67665</u>	Elevation	<u>2839</u>	KB	<u>2828</u> GL
Co. Rep / Geo.	<u>Craig Caulk</u>	Cont.	<u>Martin Rig 20</u>	Est. Ft. of Pay	<u>13</u> Por. <u>30</u> %
Location: Sec.	<u>34</u>	Twp.	<u>30S</u>	Rge.	<u>31W</u> Co. <u>Haskell</u> State <u>KS</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) _____

Interval Tested	<u>5405-5441</u>	Initial Str Wt./Lbs.	<u>5200</u>	Unseated Str Wt./Lbs.	<u>5300</u>
Anchor Length	<u>36'</u> Tail= <u>27'</u>	Wt. Set Lbs.	<u>4000</u>	Wt. Pulled Loose/Lbs.	<u>1000</u>
Top Packer Depth	<u>5400</u>	Tool Weight	<u>1800</u>		
Bottom Packer Depth	<u>5405</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>5441</u>	Wt. Pipe Run	<u>441</u>	Drill Collar Run	<u>275</u>
Mud Wt.	<u>9.0</u> LCM <u>3#</u> Vis. <u>6.5</u> WL <u>8.8</u>	Drill Pipe Size	<u>4 1/2 x 14</u>	Ft. Run	<u>5127 24' up</u>
Blow Description	<u>Miss-Run "Packer Failure"</u>				

Recovery — Total Feet	<u>570</u>	GIP	<u>—</u>	Ft. in DC	<u>275</u>	Ft. in DP	<u>275</u>
Rec.	<u>570</u>	Feet Of	<u>Mud</u>	%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
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>110</u>	°F Gravity	<u>—</u>	°API D@	<u>—</u>	°F Corrected Gravity	<u>—</u> °API
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	Chlorides <u>2,100</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2610</u>	PSI	Recorder No.	<u>3017 "03-14"</u>	T-On Location <u>2:00 AM</u>
(B) First Initial Flow Pressure	<u>—</u>	PSI	(depth)	<u>5407</u>	T-Started <u>3:25 AM</u>
(C) First Final Flow Pressure	<u>—</u>	PSI	Recorder No.	<u>10242</u>	T-Open <u>5:55 AM</u>
(D) Initial Shut-In Pressure	<u>—</u>	PSI	(depth)	<u>5438</u>	T-Pulled <u>6:10 AM</u>
(E) Second Initial Flow Pressure	<u>—</u>	PSI	Recorder No.	<u>—</u>	T-Out <u>8:50 AM</u>
(F) Second Final Flow Pressure	<u>—</u>	PSI	(depth)	<u>—</u>	T-Off Location
(G) Final Shut-in Pressure	<u>—</u>	PSI	Initial Opening	<u>—</u>	Test <u>1 Miss-Run</u>
(Q) Final Hydrostatic Mud	<u>2572</u>	PSI	Initial Shut-in	<u>—</u>	Jars <u>1</u>
			Final Flow	<u>—</u>	Safety Joint <u>1</u>
			Final Shut-in	<u>—</u>	Straddle

60100314.017
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Approved By [Signature]

Our Representative [Signature]

SHALE Extra Packer 1 ✓
Elec. Rec. 1 ✓
Mileage _____
Other _____
TOTAL PRICE \$ 1150.00

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : John O. Farmer Inc.

DATE 6-1-00

WELL NAME: Cooper Trust "1-34"

KB 2839.00 ft

TICKET NO: 12569

DST #3

LOCATION : 34-30S-31W Haskell co KS

GR 2828.00 ft

FORMATION: Morrow

INTERVAL : 5411.00 To 5441.00 ft

TD 5441.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 4 Rec.	10242	10242	3017			PF Fr. 1120 to 1124 hr
SI 0 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. to hr
SF 0 Clock(hrs)	24 HR	24 HR	Elect			SF Fr. to hr
FS 0 Depth(ft)	5438.0	5438.0	5413.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2652.0	0.0	0.0	T STARTED 0920 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 1118 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 1120 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 1140 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1400 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2565.0	0.0	0.0	TOOL DATA-----
Inside/Outside	I	I	I			Tool Wt. 1800.00 lbs

RECOVERY

Tot Fluid 490.00 ft of 275.00 ft in DC and 215.00 ft in DP

490.00 ft of Mud

0.00 ft of 100% 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

BLOW DESCRIPTION

Lost 15 ft. of mud. Packers held for 3 to 4 min. Had a 4 1/2" blow that was stable. Lost packer seat. Tried re-setting tool. Packers held for 30 sec. I.F.P.

Miss-run "Packer Failure"

SAMPLES: None

SENT TO:

Test Successful: N

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	65.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	50.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	Good
% Porosity	30.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny
Co. Rep.	Craig Caulk
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

[illegible]

Miss-run "Packer Failure"

12569 D.S.T.#3 Cooper Trust "1-34" John O. Farmer Inc.

TEST HISTORY

Flag Points
 t(Min.) P(PSig)
 R1 0.00 2652.15
 Q1 0.00 2565.83

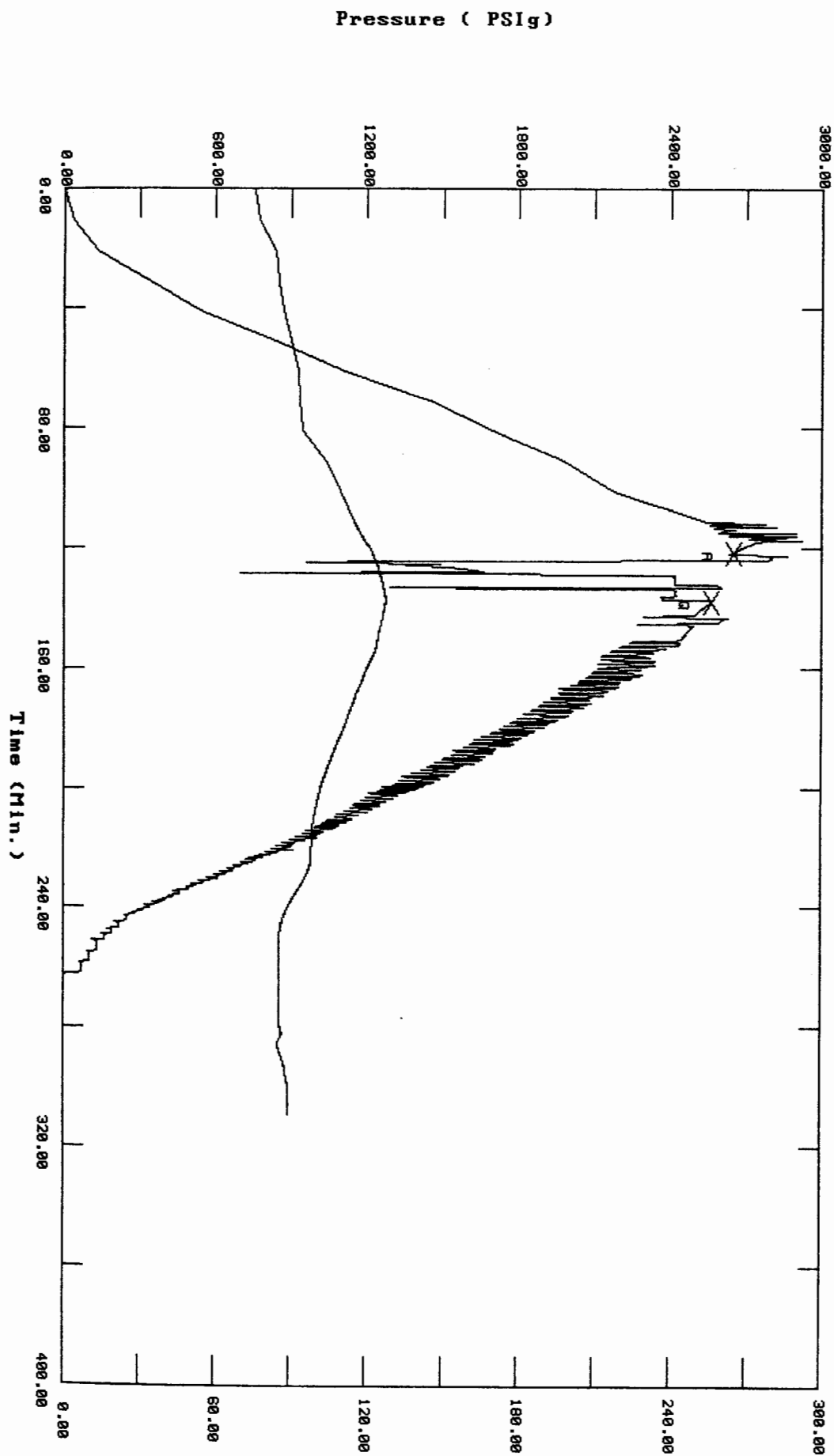
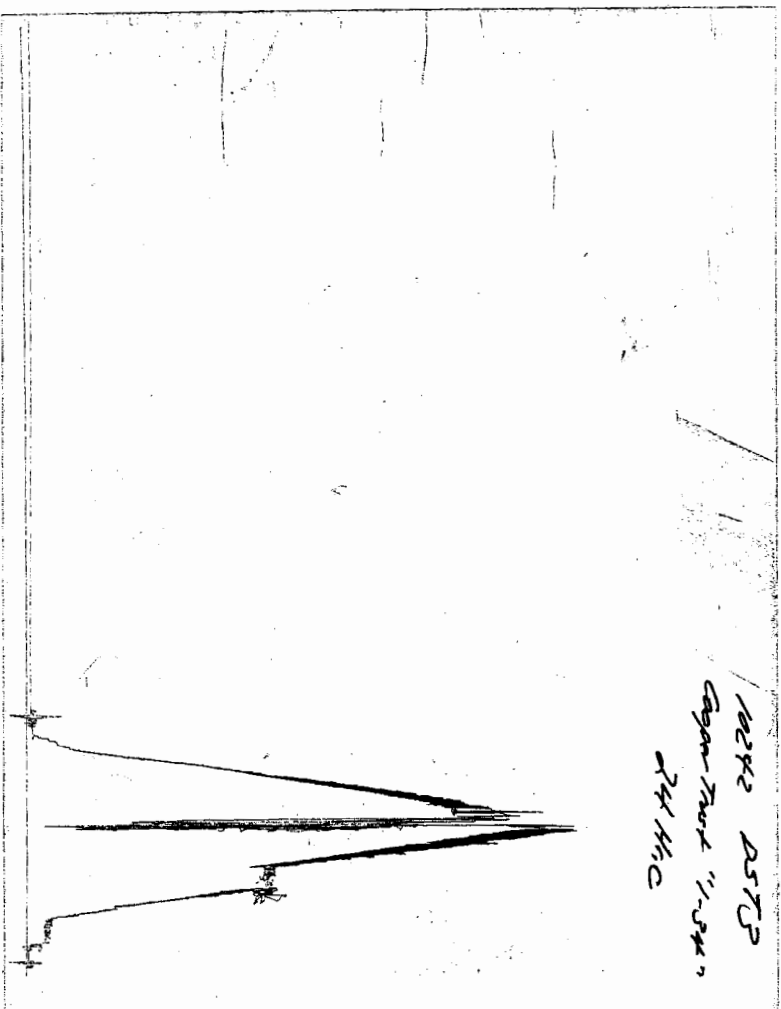


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12569

Well Name & No. Cooper Trust "134" Test No. 3 Date 6-1-00
Company John O. Farmer Zone Tested Maximum
Address Russell KS 67665 Elevation 2839 KB 2828 GL
Co. Rep / Geo. Craig Cault Cont. Marlin Rig 20 Est. Ft. of Pay 12 Por. 30 %
Location: Sec. 34 Twp. 30S Rge. 31W Co. Haskell State KS
No. of Copies 89 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 5411-5441
Anchor Length 30' Tail=27'
Top Packer Depth 5406
Bottom Packer Depth 5411
Total Depth 5441
Mud Wt. 9.0 LCM 3# Vis. 6.5 WL 8.8

Initial Str Wt./Lbs. 54000 Unseated Str Wt./Lbs. 55,000
Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 10,000
Tool Weight 6800
Hole Size — 7 7/8" Rubber Size — 6 3/4"
Wt. Pipe Run — Drill Collar Run 275
Drill Pipe Size 4 1/2 XH Ft. Run 5127 18' up

Blow Description Last 15' mud. Packers held for 3 to 4 min. Had a 4 1/2" blow that was stable. T.F.P.
Last Packer seat. Tried to re-set tool. Packers held for 30 sec.
Miss-Run "Packer Failure"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP		
<u>490</u>	<u>—</u>	<u>275</u>	<u>215</u>		
Rec. <u>490</u> Feet Of <u>mud</u>		%gas	%oil	%water	%mud
Rec. <u>—</u> Feet Of <u>—</u>		%gas	%oil	%water	%mud
Rec. <u>—</u> Feet Of <u>—</u>		%gas	%oil	%water	%mud
Rec. <u>—</u> Feet Of <u>—</u>		%gas	%oil	%water	%mud
Rec. <u>—</u> Feet Of <u>—</u>		%gas	%oil	%water	%mud

BHT 123 °F Gravity — °API D@ — °F Corrected Gravity — °API
RW — @ — °F Chlorides — ppm Recovery Chlorides 2,100 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2652</u>	<u>—</u>	<u>—</u>	<u>3017 "09:13"</u>	<u>2:00 AM</u>
(B) First Initial Flow Pressure	<u>—</u>	<u>—</u>	<u>—</u>	<u>5413</u>	<u>9:20 AM</u>
(C) First Final Flow Pressure	<u>—</u>	<u>—</u>	<u>—</u>	<u>10242</u>	<u>11:20 + 25 AM</u>
(D) Initial Shut-In Pressure	<u>—</u>	<u>—</u>	<u>—</u>	<u>5438</u>	<u>11:40 AM</u>
(E) Second Initial Flow Pressure	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>2:00 PM</u>
(F) Second Final Flow Pressure	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
(G) Final Shut-in Pressure	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
(Q) Final Hydrostatic Mud	<u>2565</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

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Approved By Craig Cault

Our Representative Jerry L. Salge

PSI Initial Opening 4 Test Miss-Run ✓
PSI Initial Shut-in — Jars 1 ✓
Final Flow — Safety Joint 1 ✓
Final Shut-in — Straddle —

Circ. Sub 1 ✓
Sampler —

SHALE Extra Packer ✓
Elec. Rec. 1 ✓

Mileage —

Other —

TOTAL PRICE \$ 4,150.00

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : John O. Farmer Inc.

DATE 6-1-00

WELL NAME: Cooper Trust "1-34"

KB 2839.00 ft

TICKET NO: 12570

DST #4

LOCATION : 34-30S-31W Haskell co KS

GR 2828.00 ft

FORMATION: Morrow

INTERVAL : 5376.00 To 5441.00 ft

TD 5441.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 5 Rec.	10242	10242	3017			PF Fr. 1700 to 1705 hr
SI 30 Range(Psi)	4175.0	4175.0	5000.0	0.0	0.0	IS Fr. 1705 to 1735 hr
SF 90 Clock(hrs)	24 HR	24 HR	Elect			SF Fr. 1735 to 1905 hr
FS 240 Depth(ft)	5438.0	5438.0	5378.0	0.0	0.0	FS Fr. 1905 to 2305 hr

	Field	1	2	3	4	
A. Init Hydro	2791.0	2802.0	2693.0	0.0	0.0	T STARTED 1445 hr
B. First Flow	177.0	146.0	101.0	0.0	0.0	T ON BOTM 1658 hr
B1. Final Flow	128.0	146.0	58.0	0.0	0.0	T OPEN 1700 hr
C. In Shut-in	224.0	253.0	229.0	0.0	0.0	T PULLED 2305 hr
D. Init Flow	95.0	120.0	41.0	0.0	0.0	T OUT 0300 hr
E. Final Flow	102.0	116.0	51.0	0.0	0.0	
F. Fl Shut-in	606.0	628.0	595.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2637.0	2662.0	2506.0	0.0	0.0	Tool Wt. 2300.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 11000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 54000.00 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 275.00 ft
						D.P. Length 5097.00 ft

RECOVERY

Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP

110.00 ft of Gas in pipe.

70.00 ft of Slightly gas cut mud

0.00 ft of 3% gas 97% 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

BLOW DESCRIPTION

Initial Flow:

Weak 1/2" built to 2 1/2" in 5 minutes.

Initial Shut-In:

No blow back.

Final Flow:

Fair 6" built to strong bottom of bucket in 20 minutes.

Final Shut-In:

No blow back.

Remarks: Est. 13 Ft. of pay.

Had plugging on I.F.P.

SAMPLES: None

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	65.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	Good
% Porosity	15.00
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.	Craig Caulk
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

Test Successful: Y

[illegible]

No Gas to surface. Flow rate 50 thru 70 min.
12 Inches Wtr. thru 1/8" choke. 1,830 CFPD.
80 & 90 min. 13 Inches Wtr. thru 1/8" choke.
1,910 CFPD.

12570 D.S.T. #4 Cooper Trust "1-34" John O. Farmer Inc.

TEST HISTORY

Flag Points
t(Min.) P(PSig)

Rt	0.00	2693.05
Bt	0.00	101.14
Ct	5.50	58.24
Dt	30.75	229.74
Et	0.00	41.30
Ft	90.00	51.27
Gt	241.25	595.11
At	0.00	2506.37

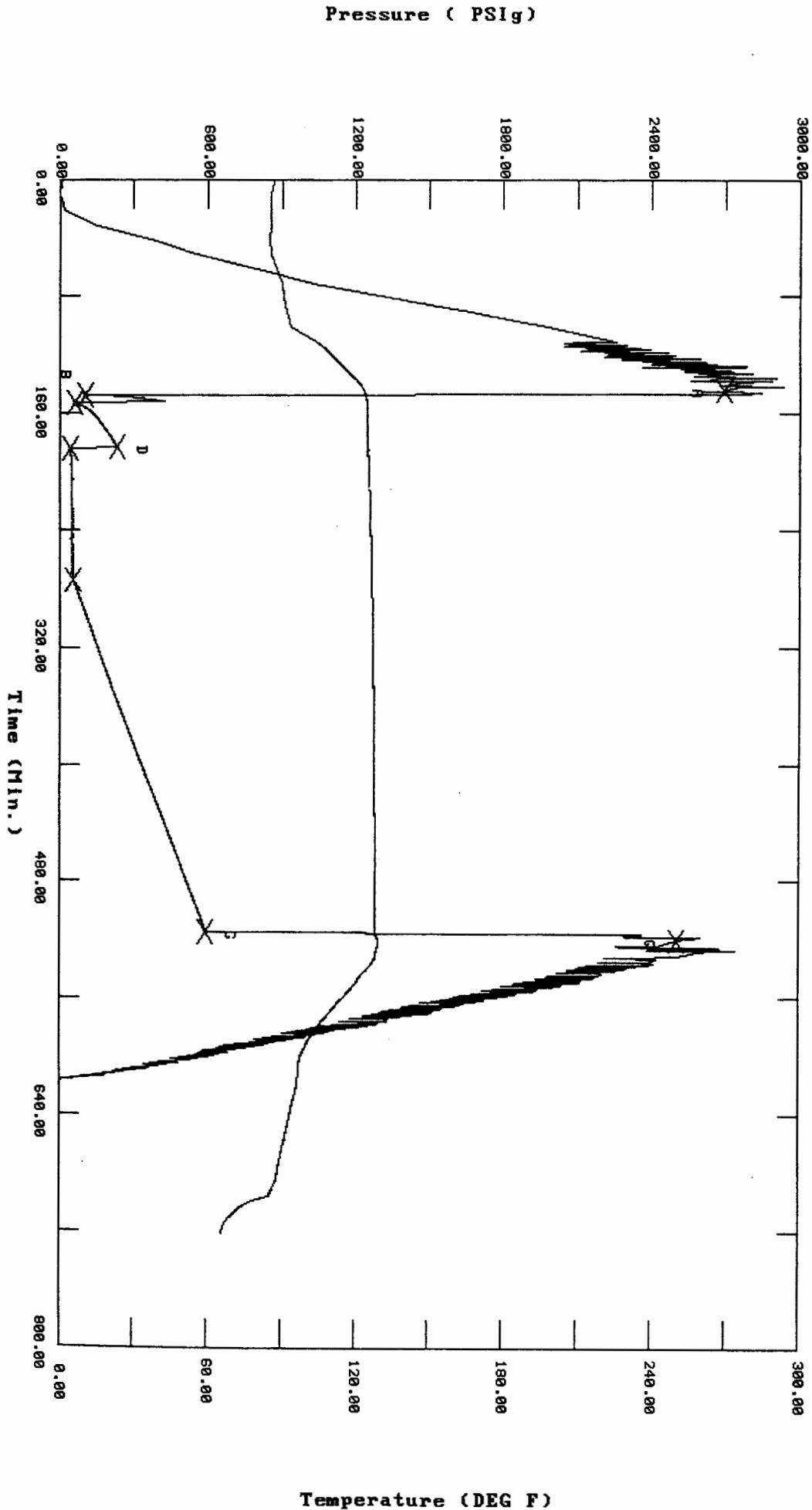
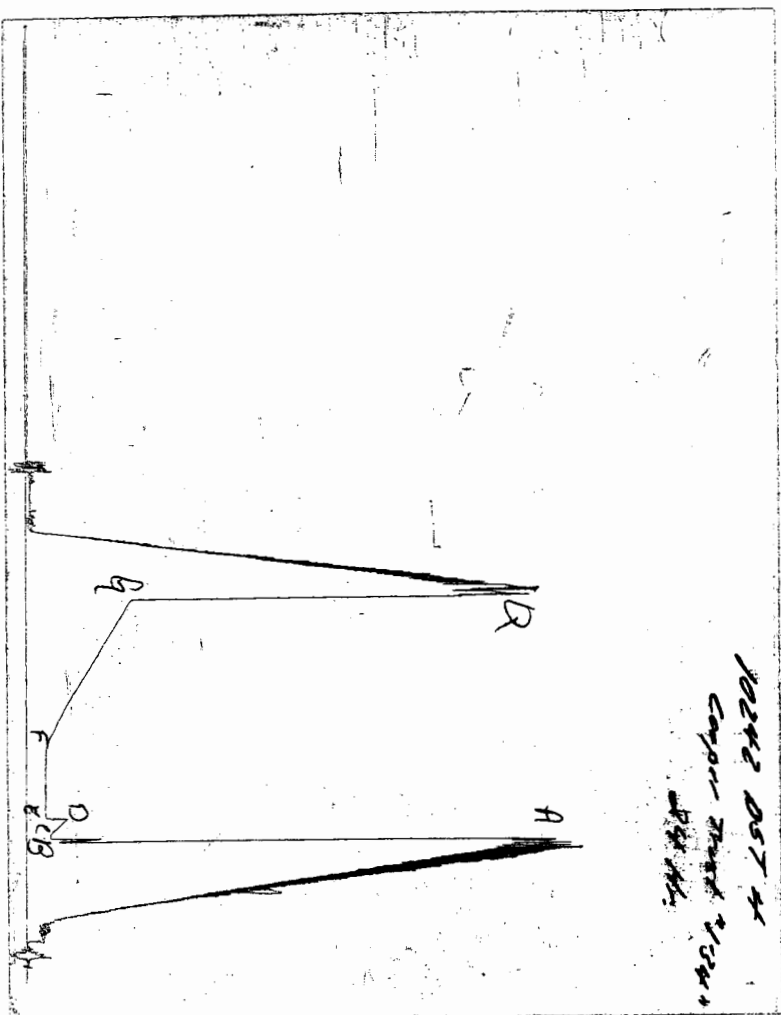


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12570

Well Name & No. <u>Copper Trust "134"</u>	Test No. <u>4</u>	Date <u>6-1-00</u>
Company <u>John Q. Farmer</u>	Zone Tested <u>Marion</u>	
Address <u>Russell KS. 67665</u>	Elevation <u>2839</u>	KB <u>2828</u> GL
Co. Rep / Geo. <u>Craig Caulk</u>	Cont. <u>Martin Rig 20</u>	Est. Ft. of Pay <u>13</u> Por. <u>15</u> %
Location: Sec. <u>34</u>	Twp. <u>30S</u>	Rge. <u>31W</u> Co. <u>Haskell</u> State <u>KS</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u></u>

Interval Tested 5376-5441 Initial Str Wt/Lbs. 5400 Unseated Str Wt/Lbs. 5400
Anchor Length 65' Tool = 27 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 11,000
Top Packer Depth 5371 Tool Weight 2,300
Bottom Packer Depth 5376 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 5441 Wt. Pipe Run — Drill Collar Run 275
Mud Wt. 9.0 LCM 3# Vis. 65 WL 8.8 Drill Pipe Size 4 1/2 KH Ft. Run 5097 23' up
Blow Description Work 1/2" built to 2 1/2" in 5 min. F.F.P.

No blow-back. F.S.T.P.

For 6" built to string OBB in 20 min. F.F.P.

No blow-back. F.S.T.P.

Recovery — Total Feet 70 GIP 110 Ft. in DC 70 Ft. in DP 0
Rec. 70 Feet Of 511 Gas cut mud 3 %gas %oil %water 97 %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 128 °F Gravity — °API D @ — °F Corrected Gravity — °API
RW — @ — °F Chlorides — ppm Recovery Chlorides 2100 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2791</u>	<u>2693</u>	PSI	Recorder No. <u>3017 "14:30"</u>	T-On Location <u>2:00 A.M.</u>
(B) First Initial Flow Pressure	<u>177</u>	<u>101</u>	PSI	(depth) <u>5378</u>	T-Started <u>2:45 P.M.</u>
(C) First Final Flow Pressure	<u>128</u>	<u>58</u>	PSI	Recorder No. <u>10242</u>	T-Open <u>5:00 P.M.</u>
(D) Initial Shut-In Pressure	<u>224</u>	<u>229</u>	PSI	(depth) <u>5438</u>	T-Pulled <u>11:05 P.M.</u>
(E) Second Initial Flow Pressure	<u>95</u>	<u>41</u>	PSI	Recorder No. <u>—</u>	T-Out <u>3:00 A.M.</u>
(F) Second Final Flow Pressure	<u>102</u>	<u>51</u>	PSI	(depth) <u>—</u>	T-Off Location <u></u>
(G) Final Shut-in Pressure	<u>606</u>	<u>595</u>	PSI	Initial Opening <u>5</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2637</u>	<u>2506</u>	PSI	Initial Shut-in <u>30</u>	Jars <u>✓</u>
				Final Flow <u>90</u>	Safety Joint <u>✓</u>
				Final Shut-in <u>240</u>	Straddle <u></u>
					Circ. Sub <u>✓</u>
					Sampler <u></u>
					SHALE Extra Packer <u>✓</u>
					Elec. Rec. <u>✓</u>
					Mileage <u></u>
					Other <u>4 Hrs. ✓</u>
					TOTAL PRICE \$ <u>1470.00</u>

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Approved By [Signature]

Our Representative Harry S. Salgado

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : John O. Farmer

DATE 6-2-00

WELL NAME: Cooper Trust "1-34"

KB 2839.00 ft

TICKET NO: 12571 DST #5

LOCATION : 34-30S-31W

GR 2828.00 ft

FORMATION: Chester

INTERVAL : 5435.00 To 5498.00 ft

TD 5498.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 5 Rec.	10242	10242	3017			PF Fr. 1755 to 1800 hr
SI 30 Range(Psi)	4175.0	4175.0	5000.0	0.0	0.0	IS Fr. 1800 to 1830 hr
SF 90 Clock(hrs)	24 HR	24 HR	Elect			SF Fr. 1830 to 2000 hr
FS 240 Depth(ft)	5495.0	5495.0	5437.0	0.0	0.0	FS Fr. 2000 to 0000 hr

	Field	1	2	3	4	
A. Init Hydro	2695.0	2663.0	2573.0	0.0	0.0	T STARTED 1535 hr
B. First Flow	119.0	140.0	55.0	0.0	0.0	T ON BOTM 1753 hr
B1. Final Flow	119.0	140.0	63.0	0.0	0.0	T OPEN 1755 hr
C. In Shut-in	1214.0	1234.0	1212.0	0.0	0.0	T PULLED 0000 hr
D. Init Flow	156.0	190.0	101.0	0.0	0.0	T OUT 0400 hr
E. Final Flow	165.0	183.0	137.0	0.0	0.0	
F. Fl Shut-in	1726.0	1742.0	1700.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2643.0	2627.0	2507.0	0.0	0.0	Tool Wt. 2300.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 21000.00 lbs
						Wt Pulled Loose 12000.00 lbs
						Initial Str Wt 51000.00 lbs
						Unseated Str Wt 53000.00 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 275.00 ft
						D.P. Length 5158.00 ft

RECOVERY

Tot Fluid 310.00 ft of 275.00 ft in DC and 35.00 ft in DP
 5123.00 ft of Gas in pipe.
 70.00 ft of Slightly oil cut mud
 0.00 ft of 4% oil 96% mud
 120.00 ft of Heavy oil & gas cut mud
 0.00 ft of 28% gas 18% oil 54% mud
 120.00 ft of Mud cut gassy oil
 0.00 ft of 15% gas 67% oil 18% mud
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 30.00

BLOW DESCRIPTION

Initial Flow:

Strong bottom of bucket in 2 minutes.
 Cracked 2"

Initial Shut-In:

No blow back.

Final Flow:

Strong immediately. Cracked 2". No
 gas to surface. Gauged displaced air
 for flow rate. Stabilized at 3,710.

Final Shut-In:

2" blow back. Gas to surface.

Remarks: Est. 5 Ft. of pay. Gas burned.

SAMPLES: None

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.80 lb/c
Vis.	54.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 F
Hole Condition	Good
% Porosity	8.00
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.	Craig Caulk
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: John O. Farmer

DATE: 6-2-00

WELL NAME: Cooper Trust "1-34"

KB Elev: 2839.00 ft TICKET #12571 DST #5

WELL LOCATION: 34-30S-31W

GR Elev: 2828.00 ft FORMATION: Chester

INTERVAL Fr.: 5435.00 To 5498.00 T.D.: 5498.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
30	0.50	0	1	6270.0
40	0.25	0	8	4760.0
50	0.25	0	6	4120.0
60	0.25	0	5	3710.0
70	0.25	0	5	3710.0
80	0.25	0	5	3710.0
90	0.25	0	5	3710.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Cooper Trust "1-34"

LOCATION : 34-30S-31W

TICKET No. 12571 D.S.T. No. 5 DATE 6-2-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 32

TOTAL TOOL 59

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 90

D.C. ABOVE TOOLS.Stands 4 Single 1 Total 275

D.P. ABOVE TOOLS.Stands 82 Single 1 Total 5158

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5523

TOTAL DEPTH 5498

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

GTS on F.S.I.P. Gauged displaced air to get
Flow rate on F.F.P. Gas burned.

P.O. SUB Cir. sub 5348
C.O. SUB Top of tool 5408
Double pin 5409
S.I. TOOL Sterling 5414

HMV Sterling 5419

JARS Bowen 5424

SAFETY JOINT Bowen 5426

PACKER Sparton 5431

PACKER Sparton 5435

DEPTH
1 ft. 5436

ANCHOR Rec. sub 5437

Alpine 5437

Pu. sub 5442

21 ft. perfs 5463

Co. sub 5464

1 jt. DP 31 ft. 5495

AK-1 5495

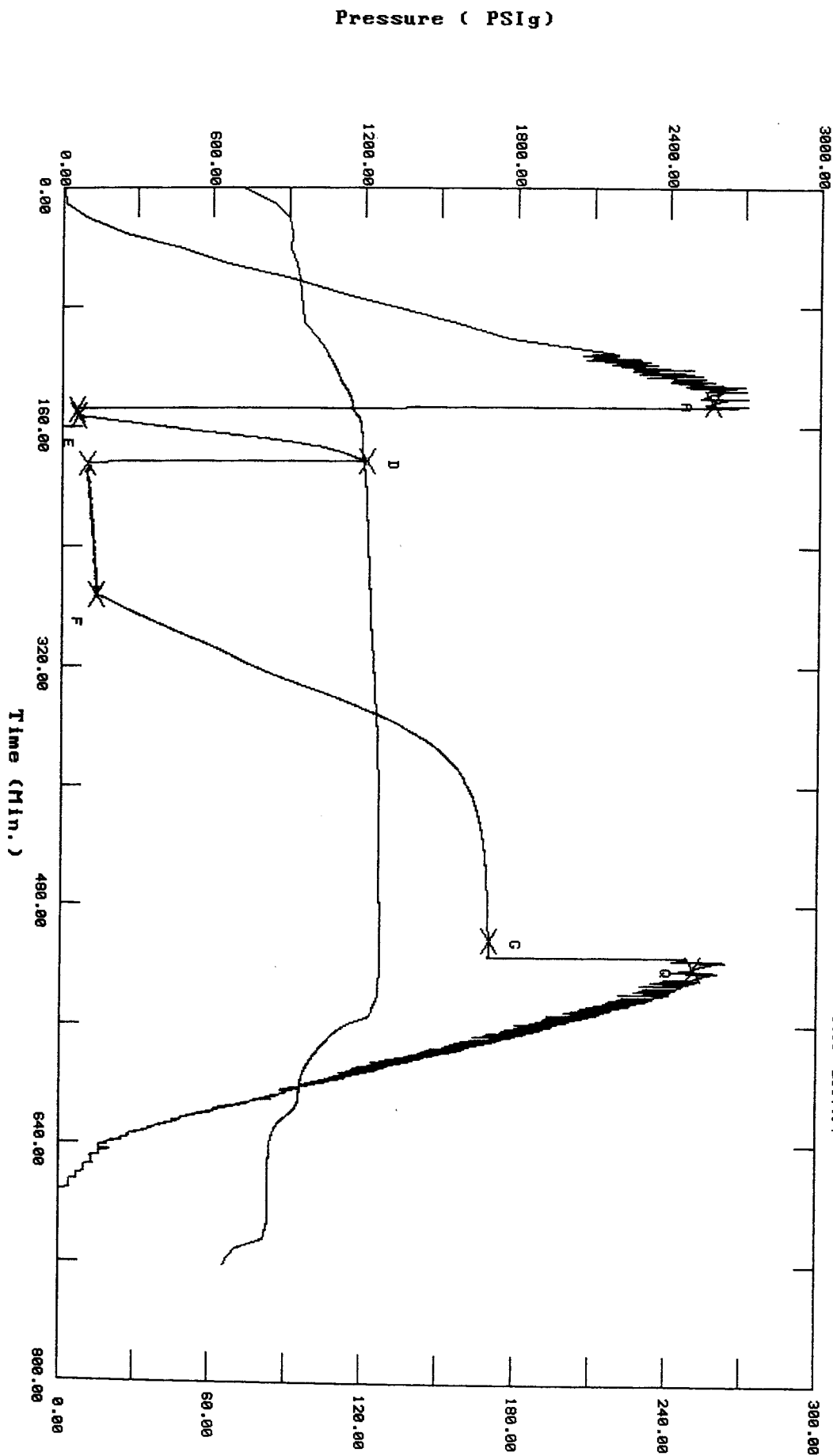
Co. sub 5496

BULLNOSE 2 ft. perf
T.D. 5498

12571 D.S.T.#5 Cooper Trust "1-34" John O. Farmer Inc.

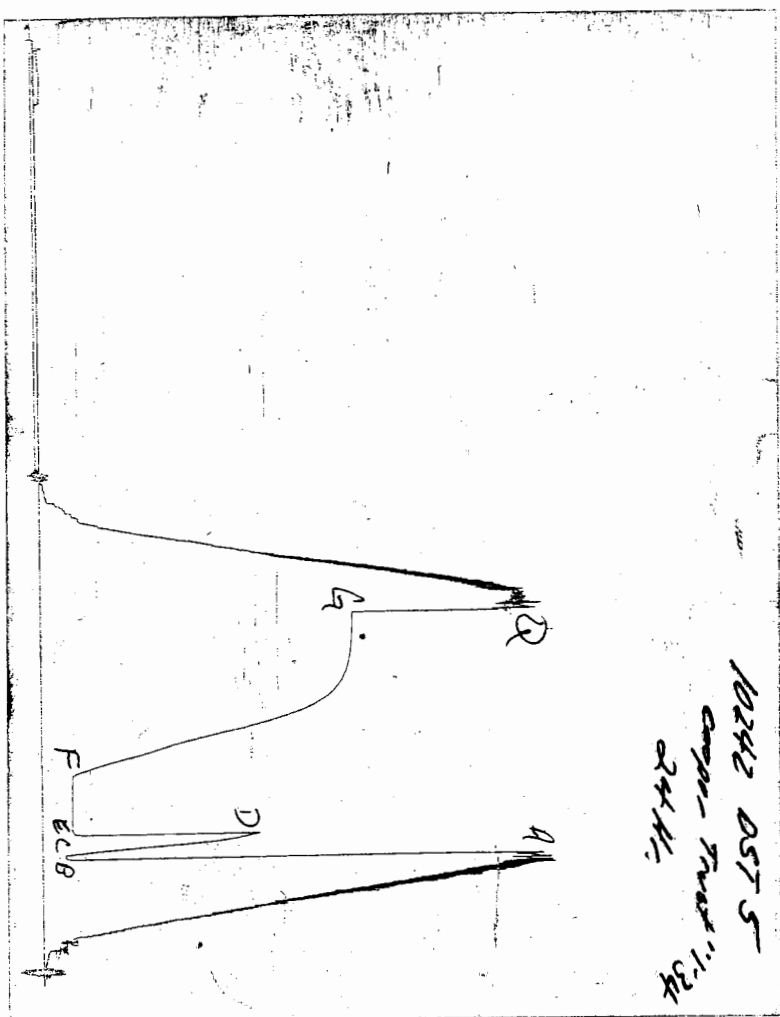
Flag Points

t (Min.)	P (PSig)
A: 0.00	2573.84
B: 0.00	55.72
C: 3.75	83.99
D: 30.75	1212.53
E: 0.00	101.12
F: 87.75	137.89
G: 230.25	1701.88
H: 0.00	2507.94



Temperature (DEG F)

CHART PAGE



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



GAS VOLUME REPORT

5
DST NO

This is a Flew note Displacing Air.

F.F.P.

Remarks: *GTS on F.S.I.P.*

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12571

Well Name & No. <u>Cooper Trust "1-34"</u>	Test No. <u>5</u>	Date <u>6-2-00</u>
Company <u>Taka O. Farmer</u>	Zone Tested <u>Chatter</u>	
Address <u>Russell, KS. 67665</u>	Elevation <u>2829</u>	KB <u>2828</u> GL
Co. Rep / Geo. <u>Craig Caulk</u>	Cont. <u>Mudlin Rig 20</u>	Est. Ft. of Pay <u>5</u> Por. <u>8</u> %
Location: Sec. <u>34</u> Twp. <u>30S</u> Rge. <u>31W</u>	Co. <u>Haskell</u>	State <u>KS.</u>
No. of Copies <u>Rev</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u></u>

Interval Tested <u>5435-5498</u>	Initial Str Wt./Lbs. <u>51000</u>	Unseated Str Wt./Lbs. <u>53000</u>
Anchor Length <u>63'</u> <u>Tool=27'</u>	Wt. Set Lbs. <u>21000</u>	Wt. Pulled Loose/Lbs. <u>12000</u>
Top Packer Depth <u>5430</u>	Tool Weight <u>2300</u>	
Bottom Packer Depth <u>5435</u>	Hole Size — 7 7/8" <u></u>	Rubber Size — 6 3/4" <u></u>
Total Depth <u>5498</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>275</u>
Mud Wt. <u>8.8</u> LCM <u>2#</u> Vis. <u>54</u> WL <u>8.4</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>5158</u> <u>25' up</u>
Blow Description <u>Strong OBB in 2 min Conduct 2". I.F.P.</u>		

No blow-back. I.S.T.P.
Strong interval "No Gas to Surface" See Flow chart for flow rates. F.F.P.
2" blow-back GTS on F.S.T.P.

Recovery — Total Feet <u>310</u>	GIP <u>5,123</u>	Ft. in DC <u>275</u>	Ft. in DP <u>35</u>
Rec. <u>70</u> Feet Of <u>5 1/2" oil cut mud</u>	%gas <u>4</u> %oil <u></u>	%water <u>96</u> %mud <u></u>	
Rec. <u>120</u> Feet Of <u>Heavy Oil & G cut mud</u>	%gas <u>18</u> %oil <u></u>	%water <u>54</u> %mud <u></u>	
Rec. <u>120</u> Feet Of <u>mud cut heavy oil</u>	%gas <u>67</u> %oil <u></u>	%water <u>18</u> %mud <u></u>	
Rec. <u></u> Feet Of <u></u>	%gas <u></u> %oil <u></u>	%water <u></u> %mud <u></u>	
Rec. <u></u> Feet Of <u></u>	%gas <u></u> %oil <u></u>	%water <u></u> %mud <u></u>	
BHT <u>127</u> °F Gravity <u>30</u>	°API D@ <u>60</u>	°F Corrected Gravity <u>30</u>	°API
RW <u>—</u> @ <u>—</u> °F	Chlorides <u>—</u> ppm Recovery	Chlorides <u>2000</u> ppm System	

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2695</u>	<u>2573</u>	PSI Recorder No. <u>3017 "15:25"</u>	T-On Location <u>2:00 PM.</u>
(B) First Initial Flow Pressure	<u>119</u>	<u>55</u>	PSI (depth) <u>5437</u>	T-Started <u>3:35 PM.</u>
(C) First Final Flow Pressure	<u>119</u>	<u>63</u>	PSI Recorder No. <u>10242</u>	T-Open <u>5:55 PM.</u>
(D) Initial Shut-In Pressure	<u>1214</u>	<u>1212</u>	PSI (depth) <u>5495</u>	T-Pulled <u>12:00 AM.</u>
(E) Second Initial Flow Pressure	<u>156</u>	<u>101</u>	PSI Recorder No. <u>—</u>	T-Out <u>4:00 AM.</u>
(F) Second Final Flow Pressure	<u>165</u>	<u>137</u>	PSI (depth) <u>—</u>	T-Off Location <u></u>
(G) Final Shut-in Pressure	<u>1726</u>	<u>1700</u>	PSI Initial Opening <u>5</u>	Test <u>1</u> <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2643</u>	<u>2507</u>	PSI Initial Shut-in <u>30</u>	Jars <u>1</u> <u>✓</u>
			Final Flow <u>90</u>	Safety Joint <u>1</u> <u>✓</u>
			Final Shut-in <u>240</u>	Straddle <u></u>

60201525.017
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Approved By [Signature]

Our Representative [Signature]

Circ. Sub 1
Sampler
Extra Packer
Elec. Rec. 1 ✓
Mileage
Other 1 5 Hrs. ✓
TOTAL PRICE \$ 1,350.00