

Well Name: Plummer 1-31
Company: Stelbar Oil Corp.
Location: 31-28s-40w
Stanton County Kansas
Date: 11-24-98

TRILOBITE TESTING L.L.C.

OPERATOR : Stelbar Oil Corp.

WELL NAME: Plummer "1-31"

LOCATION : 31-28S-40W Stanton co KS

INTERVAL : 5346.00 To 5425.00 ft

DATE 11-19-98

KB 3321.00 ft

GR 3312.00 ft

TD 5425.00 ft

TICKET NO: 10990 DST #1

FORMATION: Upper Keyes

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10242	10242	Alpine			PF Fr. 2135 to 2205 hr
SI 60	Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 2205 to 2305 hr
SF 90	Clock(hrs)	12 HR	12 HR	12 HR			SF Fr. 2305 to 0035 hr
FS 120	Depth(ft)	5422.0	5422.0	5348.0	0.0	0.0	FS Fr. 0035 to 0235 hr

	Field	1	2	3	4	
A. Init Hydro	2631.0	2688.0	2608.0	0.0	0.0	T STARTED 1925 hr
B. First Flow	177.0	187.0	116.0	0.0	0.0	T ON BOTM 2132 hr
B1. Final Flow	172.0	187.0	153.0	0.0	0.0	T OPEN 2135 hr
C. In Shut-in	1423.0	1436.0	1389.0	0.0	0.0	T PULLED 0235 hr
D. Init Flow	177.0	187.0	125.0	0.0	0.0	T OUT 0630 hr
E. Final Flow	161.0	176.0	137.0	0.0	0.0	
F. Fl Shut-in	1423.0	1436.0	1384.0	0.0	0.0	
G. Final Hydro	2577.0	2561.0	2554.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2800.00 lbs

RECOVERY

Tot Fluid 125.00 ft of 125.00 ft in DC and 0.00 ft in DP
 5198.00 ft of Gas in pipe
 125.00 ft of Mud 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 1050.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	58.00 S/L
W.L.	6.40 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft

BLOW DESCRIPTION

Initial Flow:

Strong, off bottom of bucket in 1 min.

Gas to surface in 6 mins.

Initial Flow:

No blow-back.

Final Flow:

Guaged 449,000 CFPD.

Final Shut-in:

No blow-back.

Remark: Gas burned.

SAMPLES: One

SENT TO: Caraway

Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	Good
% Porosity	16.00
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.	Dave Goldak
Contr.	Norseman
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Stelbar Oil Corp. DATE: 11-19-98
WELL NAME: Plummer "1-31" KB Elev: 3321.00 ft TICKET #10990 DST #1
WELL LOCATION: 31-28S-40W GR Elev: 3312.00 ft FORMATION: Upper Keyes
INTERVAL Fr.: 5346.00 To 5425.00 T.D.: 5425.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	10	0	116000.0
20	0.50	26	0	211000.0
30	0.50	36	0	265000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	16	0	344000.0
20	0.75	18	0	370000.0
30	0.75	19	0	384000.0
40	0.75	20	0	398000.0
50	0.75	21	0	411000.0
60	0.75	22	0	424000.0
70	0.75	23	0	436000.0
80	0.75	24	0	449000.0
90	0.75	24	0	449000.0

From: Robert Caraway Caraway Analytical, Inc. Fax: 316-626-7108
To: Simpson, Paul - Backup Trilobite Tesing, L. L. C. Fax: 1-785-625-4504

15:11:30 11/20/98 Page 2 of 2 Log:211

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: 984457
Sample From: Plummer 1-31 DST 1
Producer: Stelbar Oil
Date: 11/19/98
Time:
Sampler: Lanny Saloga
Source:

Analyzed: 11/20/98
Pressure:
Temperature:
Location: 31-28-40
County: Stanton
State: Kansas
Formation: U. Keyes

	Mole %	GPM
Helium	He: 1.256	0.000
Hydrogen	H2: 0.047	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 29.403	0.000
Carbon Dioxide	CO2: 0.434	0.000
Methane	C1: 63.018	0.000
Ethane	C2: 2.362	0.632
Propane	C3: 1.246	0.343
Iso Butane	iC4: 0.279	0.091
Normal Butane	nC4: 0.560	0.177
Iso Pentane	iC5: 0.207	0.076
Normal Pentane	nC5: 0.308	0.112
Hexanes Plus	C6+: 0.880	0.384

TOTAL: 100.000 1.814
Z Fact: 0.9983
SP. GR.: 0.7449
BTU (SAT): 792.1 @ 14.73 psia
BTU (DRY): 806.1 @ 14.73 psia
OCTANE RATING: 86.8

COMMENTS:

0.000

Operator.....: Stelbar Oil Corp
Well Name.....: Plummer 1-31
DST Number.....: 1

Location.: 31-28s-40w Recorder No...: Alpine
Test Type: conv Recorder Depth: 5348
Formation: Upper Keyes Test Interval.: 5346-5425

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

RESERVOIR PARAMETERS USED:

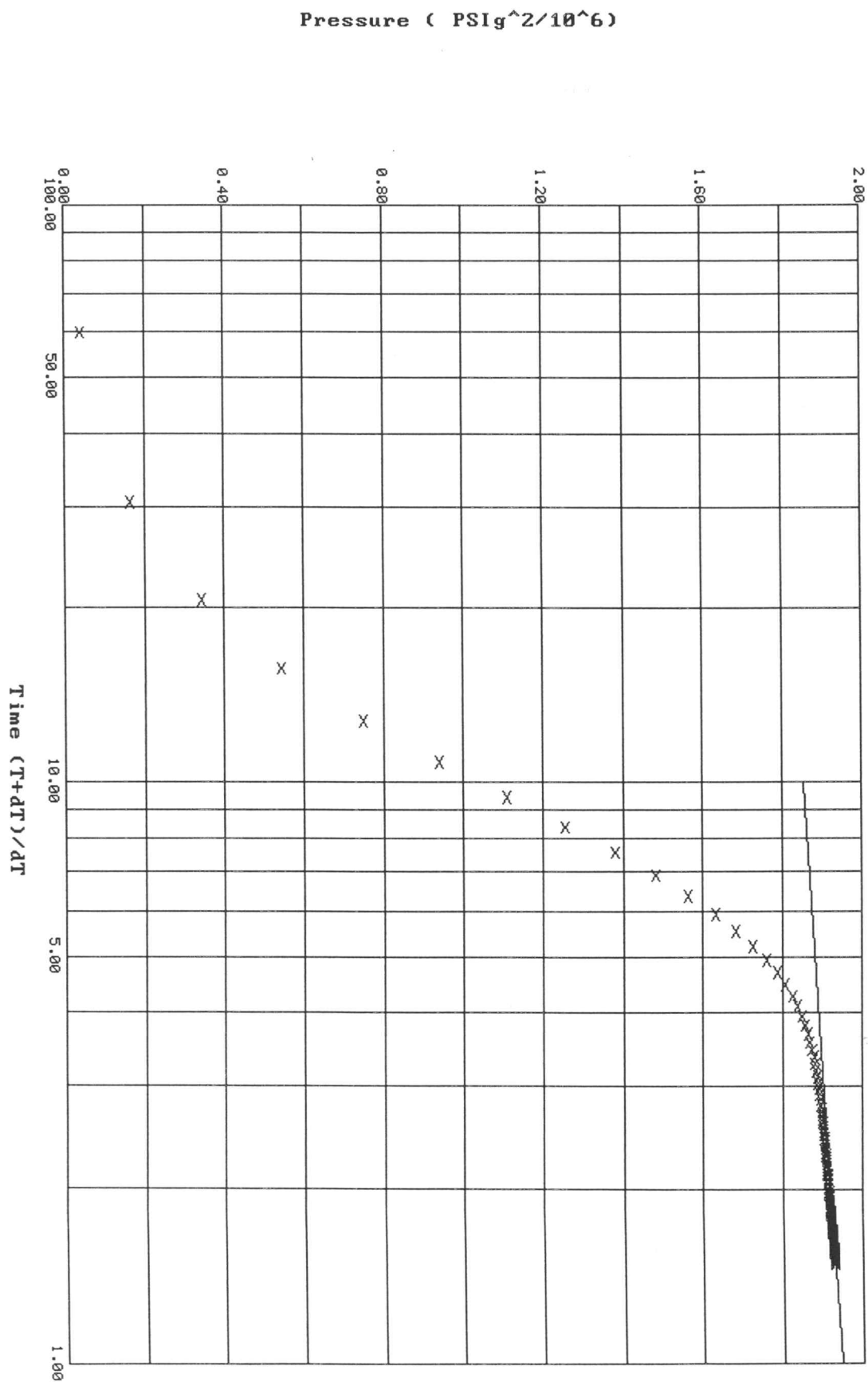
Net Pay.....: 15.00 ft
Porosity.....: 13.00 %
Bottom Hole Temp.....: 128.00 F
Specific Gravity.....: 0.745
Z factor.....: .9983
Compressibility.....: 0.007387 /psi
Viscosity.....: 0.0143 cp
Total Flowing Time.....: 75.00 min.
Flow Rate.....: 449.00 mcf/d
Final Flowing Pressure.....: 137.00 psi
Horner Slope.....: 0.0920 *10⁶ psi²/cycle
Extrapolated Pressure.....: 1395.04 psi
Assumed Drainage Radius.....: 1500.00 ft
Well Bore Radius.....: 3.94 in

RESULTS:

Effective Permeability.....: 4.467811 md
Flow Capacity.....: 67.0172 md.ft
Transmissibility.....: 4686.5154 md.ft/cp
Skin Factor.....: 22.7424
Pressure Drop Across Skin.....: 1218.3518 psi
Radius of Investigation.....: 18.4942 ft
Damage Ratio.....: 7.0564
Absolute Open Flow.....: 453.2788 mcf/d
Absolute Open Flow W/O Damage.: 3198.5203 mcf/d
Estimated Stabilized AOF.....: 906.8419 mcf/d

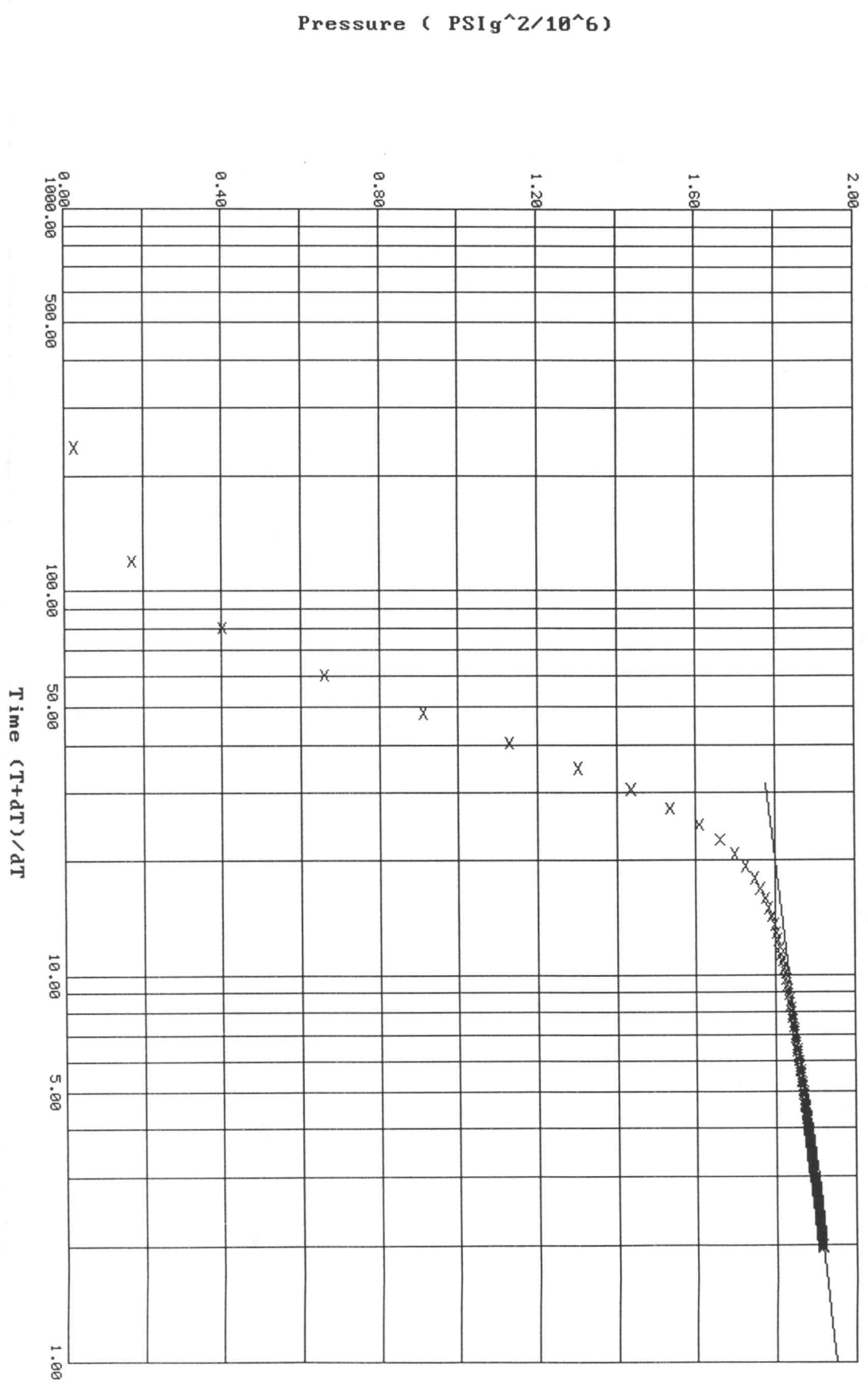
P² Horner Plot: shut-in #1 10990 D.S.T.#1 Plummer "1-31" Steelbar Oil Corp.

Slope: 0.0920 PSig²/10⁶/cycle
 Ext. Pressure: 1395.0370 PSig



P² Horner Plot: shut-in #2 10990 D.S.T.#1 Plummer "1-31" Steelbar Oil Corp.

Slope: 0.1168 PSig²/10⁶/cycle
 Ext. Pressure: 1396.8354 PSig



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Plummer "1-31"

LOCATION : 31-28S-40W

TICKET No. 10990 D.S.T. No. 1 DATE 11-19-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 17

TOTAL TOOL 47

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 109

D.C. ABOVE TOOLS.Stands 10 Single Total 606

D.P. ABOVE TOOLS.Stands 75 Single 1 Total 4717

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5432

TOTAL DEPTH 5425

TOTAL DRILL PIPE ABOVE K.B. 7

REMARKS:

FLUID SAMPLER DATA

Total Vol. 5000 ML.

Total Vol. Rec. 0 ML.

Oil 0 ML.

Mud 0 ML.

Wtr. 0 ML.

Gas 17.4 CF.

Psi. 1175

Bht. 128 F.

Pit RW. 6.0 Ohms at 63 F. 1,000 PPM.

Rec RW. 7.4 Ohms at 49 F. 1,050 PPM.

Gravity --- at -- F.

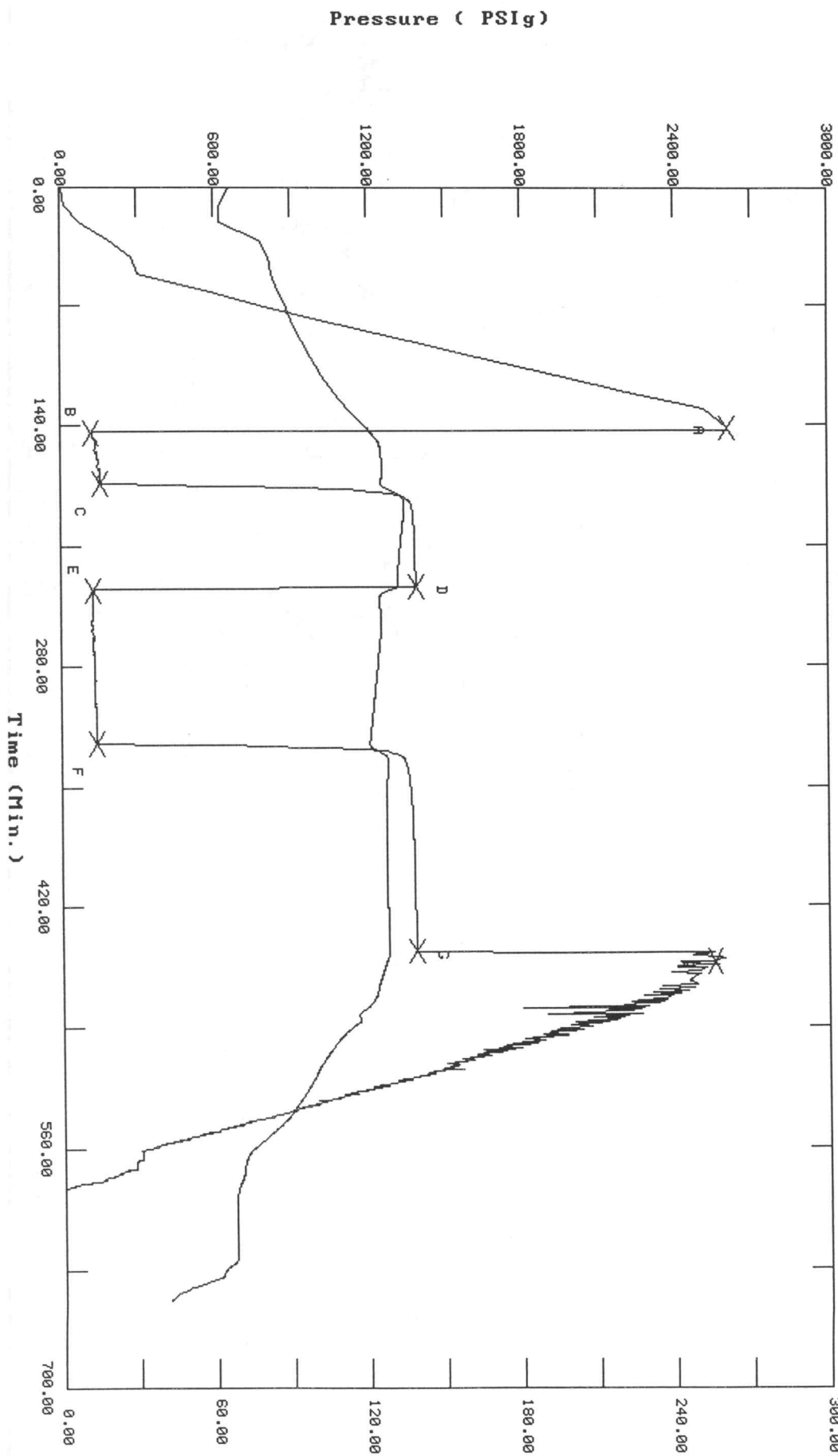
P.O. SUB Cir. sub	5256
C.O. SUB Top of tool	5316
Double pin	5317
S.I. TOOL H&T	5322
Sampler	5325
HMV Sterling	5330
JARS Sterling	5335
SAFETY JOINT Bowen	5337
PACKER Sparton	5342
PACKER Sparton	5346
DEPTH	
STUBB Rec. sub	5348
ANCHOR Alpine	5348
Pu. sub	5353
6 ft. perfs	5359
Co. sub	5360
T.C.	
DEPTH	
1 std. DP	5422
AK-1	5422
Co. sub	5423
BULLNOSE 2 ft. perf	
T.D.	5425

TEST HISTORY

10990 D.S.T.#1 Plummer "1-31" Stelbar Oil Corp.

Flag Points

t(Min.)	P(PSig)
A: 0.00	2608.29
B: 0.00	116.32
C: 29.50	153.95
D: 60.50	1389.21
E: 0.00	125.15
F: 89.00	137.67
G: 121.50	1384.45
H: 0.00	2554.04



TRILOBITE TESTING L.L.C.

OPERATOR : Stelbar Oil Corp.

DATE 11-20-98

WELL NAME: Plummer "1-31"

KB 3321.00 ft

TICKET NO: 10991 DST #2

LOCATION : 31-28S-40W Stanton co. KS

GR 3312.00 ft

FORMATION: Lower Keyes

INTERVAL : 5449.00 To 5465.00 ft

TD 5465.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10242	10242	Alpine			PF Fr. 2220 to 2250 hr
SI 60 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 2250 to 2350 hr
SF 60 Clock(hrs)	12 HR	12 HR	12 HR			SF Fr. 2350 to 0050 hr
FS 90 Depth(ft)	5462.0	5462.0	5451.0	0.0	0.0	FS Fr. 0050 to 0220 hr

	Field	1	2	3	4	
A. Init Hydro	2616.0	2638.0	2642.0	0.0	0.0	T STARTED 2015 hr
B. First Flow	667.0	698.0	656.0	0.0	0.0	T ON BOTM 2217 hr
B1. Final Flow	1205.0	1220.0	1216.0	0.0	0.0	T OPEN 2220 hr
C. In Shut-in	1395.0	1418.0	1397.0	0.0	0.0	T PULLED 0220 hr
D. Init Flow	1263.0	1286.0	1236.0	0.0	0.0	T OUT 0700 hr
E. Final Flow	1401.0	1418.0	1392.0	0.0	0.0	
F. Fl Shut-in	1401.0	1424.0	1397.0	0.0	0.0	
G. Final Hydro	2603.0	2619.0	2583.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 1800.00 lbs

RECOVERY

Tot Fluid 2855.00 ft of 606.00 ft in DC and 2249.00 ft in DP
 125.00 ft of Heavy Water cut Mud 42%Water 58%Mud
 2730.00 ft of Gassy Salt Water 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 40500.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	50.00 S/L
W.L.	6.40 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Strong, off bottom of bucke 1 min
 decreased slightly in 30 min. I.F.P.

Initial Shut-in:
 6" blow-back.

Final Flow:
 1" built to strong, off bottom of
 bucket decreased to 5" in 60 min.

Final Shut-in:
 No blow-back.

Remark: Reversed salt wtr. To reserve
 pit.

SAMPLES: None

SENT TO:

Amt. of fill	0.00 ft
Btm. H. Temp.	138.00 F
Hole Condition	Good
% Porosity	15.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out Y	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Dave Goldak
Contr.	Norseman
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

ELL NAME: Plummer "1-31"

LOCATION : 31-28S-40W

TICKET No. 10991 D.S.T. No. 2 DATE 11-20-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 46

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 10 Single Total 606

D.P. ABOVE TOOLS.Stands 77 Single 1 Total 4842

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5494

TOTAL DEPTH 5465

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:

FLUID SAMPLER DATA

Total Vol. 5000 ML.

Total Vol. Rec. 4700 ML.

Oil 0 ML.

Mud 0 ML.

Wtr. 4700 ML.

Gas 6.2 CF.

Psi. 420

Bht. 138 F.

Pit RW. 8.1 Ohms at 52 F. 900 PPM.

Rec RW. 0.32 Ohms at 39 F. 40,500 PPM.

Gravity --- at -- F.

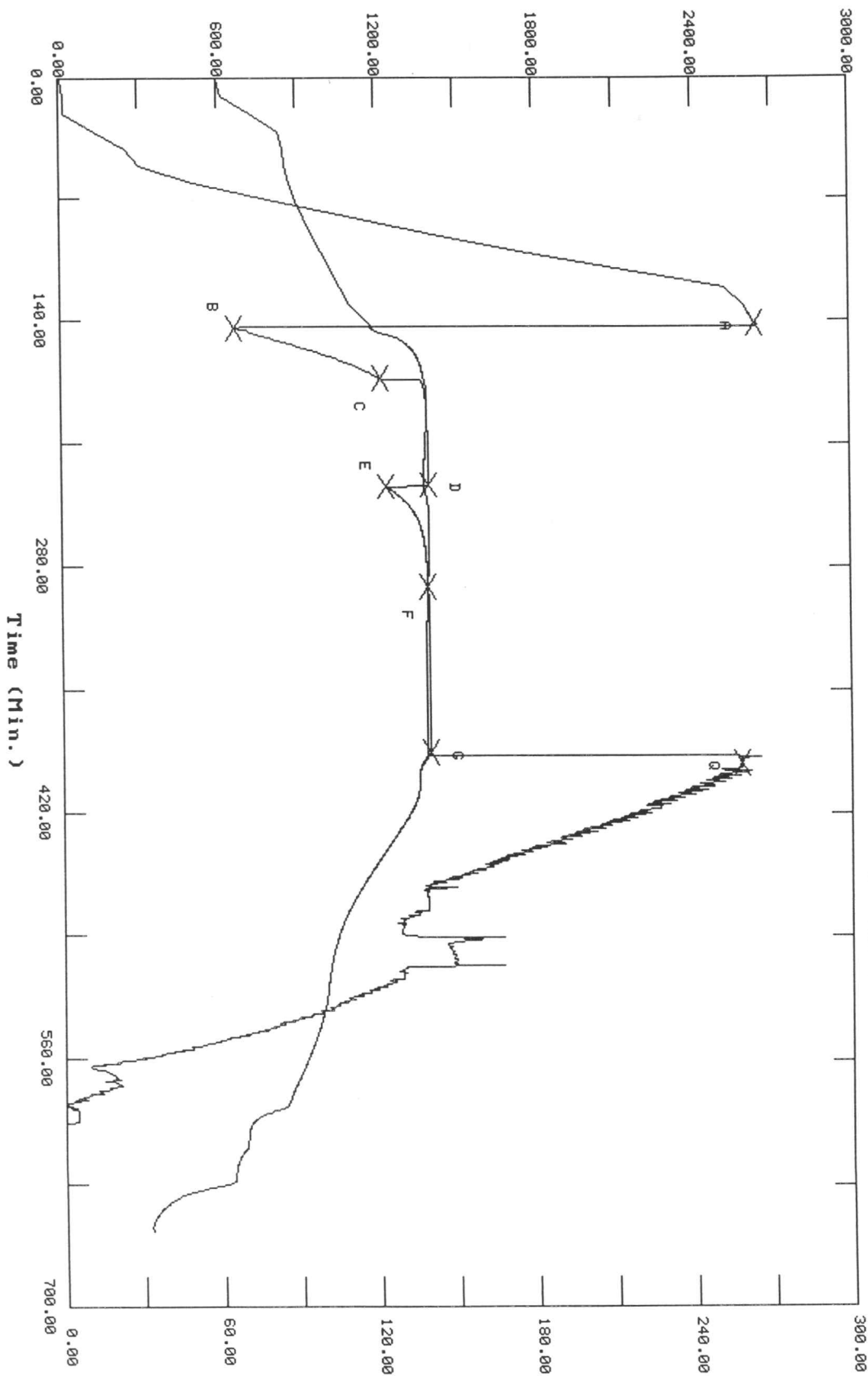
P.O. SUB Cir. sub	5359
C.O. SUB Top of tool	5419
Double pin	5420
S.I. TOOL H&T	5425
Sampler	5428
HMV Sterling	5433
JARS Sterling	5438
SAFETY JOINT Bowen	5440
PACKER Sparton	5445
PACKER Shale	5449
DEPTH	
STUBB Rec. sub	5451
ANCHOR Alpine	5451
Pu. sub	5456
AK-1	5462
7 ft. perfs	5463
BULLNOSE 2 ft. perf	
T.D.	5465

TEST HISTORY

10991 D.S.T.#2 Plummer "1-31" Stelbar Oil Corp.

Flag Points
t(Min.) P(PSig)

A:	0.00	2642.12
B:	0.00	656.78
C:	29.00	1216.98
D:	60.50	1397.68
E:	0.00	1236.07
F:	57.50	1392.30
G:	93.00	1397.81
H:	0.00	2583.00



10242 D5T2
Munroe-1-37

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