

# Computer Inventoried

**Well Name:** Winsted A-5  
**Company:** Dunne Equities Operating  
**Location:** 22-29s-34w  
Haskell County Kansas  
**Date:** 12-7-98

ORIGINAL

15-081-21228

## TRILOBITE TESTING L.L.C.

OPERATOR : Dunne Equity Operating DATE 12-02-98  
 WELL NAME: Winsted A-5 KB 2958.00 ft TICKET NO: 11708 DST #1  
 LOCATION : 22-29s-34w Haskell co KS GR 2946.00 ft FORMATION: K.C. B  
 INTERVAL : 4583.00 To 4601.00 ft TD 4601.00 ft TEST TYPE: CONVENTIONAL

### RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----	
F 30	Rec.	10333	10333	3026		PF Fr. 1339 to 1409 hr	
I 60	Range(Psi )	4050.0	4050.0	4995.0	0.0	0.0	IS Fr. 1409 to 2509 hr
F 60	Clock(hrs)	12hr	12hr	elect			SF Fr. 1509 to 1609 hr
S 90	Depth(ft )	4601.0	4601.0	4591.0	0.0	0.0	FS Fr. 1609 to 1739 hr

	Field	1	2	3	4	
Init Hydro	2265.0	2257.0	2232.0	0.0	0.0	T STARTED 1130 hr
First Flow	152.0	141.0	137.0	0.0	0.0	T ON BOTM 1338 hr
Final Flow	182.0	162.0	225.0	0.0	0.0	T OPEN 1339 hr
In Shut-in	965.0	961.0	1046.0	0.0	0.0	T PULLED 1739 hr
Init Flow	274.0	223.0	269.0	0.0	0.0	T OUT 2110 hr
Final Flow	325.0	293.0	366.0	0.0	0.0	
Fl Shut-in	924.0	922.0	997.0	0.0	0.0	
Final Hydro	2103.0	2102.0	2182.0	0.0	0.0	
Inside/Outside	0	0	I			

### TOOL DATA-----

Tool Wt.	1700.00 lbs
Wt Set On Packer	24000.00 lbs
Wt Pulled Loose	130000.00 lbs
Initial Str Wt	85000.00 lbs
Unseated Str Wt	85000.00 lbs
Bot Choke	0.78 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.38 in
D.C. Length	643.00 ft
D.P. Length	3918.00 ft

### RECOVERY

Total Fluid 990.00 ft of 643.00 ft in DC and 347.00 ft in DP  
 280.00 ft of Clean oil 100%  
 300.00 ft of Gassy mud cut oil 20% Gas 60% Oil 20% Mud  
 230.00 ft of Oily watery muddy gas  
 0.00 ft of 40% gas 20% oil 10% water 30% mud  
 120.00 ft of Muddy water 80% water 20% mud  
 50.00 ft of Water  
 0.00 ft of  
 0.00 ft of  
 SALINITY 60000.00 P.P.M. A.P.I. Gravity 40.00

### MUD DATA-----

Mud Type	chemical
Weight	9.10 lb/cf
Vis.	48.00 S/L
W.L.	8.80 in <sup>3</sup>
F.C.	0.00 in
Mud Drop Y	20.0 ft

### BLOW DESCRIPTION

Initial Flow:  
 Bottom of bucket in 30 secs.  
 Initial Shut-in:  
 No blow back  
 Final Flow:  
 Bottom of bucket in 1 mins. gas to surface in 2 mins.  
 Final Shut-in:  
 Never died completely out

Amt. of fill	1.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Scott Bugbee
Co. Rep.	Bob Posey
Contr.	Cheyenne
Rig #	5
Unit #	
Pump T.	

SAMPLES: yes  
 SENT TO: Caraway Analytical

Test Successful: Y

GAS RECOVERY

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COMPANY: Dunne Equity Operating

DATE: 12-02-98

WELL NAME: Winsted A-5

KB Elev: 2958.00 ft TICKET #11708 DST #1

WELL LOCATION: 22-29s-34w

GR Elev: 2946.00 ft FORMATION: K.C. B

INTERVAL Fr.: 4583.00 To 4601.00 T.D.: 4601.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.38	0	18	15100.0
10	0.38	0	20	15900.0
15	0.38	0	30	19800.0
20	0.38	0	20	15900.0
25	0.38	0	10	11300.0
30	0.38	0	8	10100.0
35	0.38	0	6	8740.0
40	0.38	0	4	7140.0
45	0.25	0	14	6330.0
50	0.25	0	18	7120.0
55	0.25	0	26	8560.0
60	0.25	0	22	7880.0

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Winsted A-5

LOCATION : 22-29s-34w Haskell co KS

TICKET No. 11708 D.S.T. No. 1 DATE 12-02-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 18

TOTAL TOOL ..... 45

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.Stands12 Single Total 643

D.P. ABOVE TOOLS.Stands62 Single Total 3918

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4606

TOTAL DEPTH ..... 4601

TOTAL DRILL PIPE ABOVE K.B. .... 5

REMARKS:

P.O. SUB top of tool	4556
C.O. SUB 1'	4557
S.I. TOOL 5'	4562
HMV 5'	4567
JARS 5'	4572
SAFETY JOINT 2'	4574
PACKER 5'	4579
PACKER 5'	4583
DEPTH 4583	
STUBB 1'	4584
ANCHOR 2' perf	4586
Alpine Rec.	4591
T.C. DEPTH	
5' Pu sub	4591
5' perf	4596
Ak1 Rec.	4601
BULLNOSE T.D. 5'	4601

Operator.....: Dunne Equities  
Well Name.....: Winstad A-5  
DST Number.....: 1

Location.: 22-29s-34w  
Test Type: conv  
Formation: Kansas City B

Recorder No...: 3026  
Recorder Depth: 4591.  
Test Interval.: 4583-4601

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

RESERVOIR PARAMETERS USED:

Net Pay.....: 13.00 ft  
Porosity.....: 18.00 %  
Bottom Hole Temp.....: 120.00 F  
Specific Gravity.....: 0.027  
API Gravity.....: 40.00  
Compressibility.....: 0.000003 /psi  
Viscosity.....: 5.7300 cp  
Total Recovery.....: 990.00 ft  
Total Flowing Time.....: 90.00 min.  
Flow Rate.....: 83.79 bbls/d  
Final Flowing Pressure.....: 366.00 psi  
Horner Slope.....: 508.8666 psi/cycle  
Extrapolated Pressure.....: 1146.43 psi  
Formation Volume Factor.....: 1.05 Reservoir/Surface  
Well Bore Radius.....: 1500.00 in

RESULTS:

Effective Permeability.....: 12.438141 md  
Flow Capacity.....: 161.6958 md.ft  
Transmissibility.....: 28.2192 md.ft/cp  
Skin Factor.....: 2.9407  
Radius of Investigation.....: 71.21102 ft  
Damage Ratio.....: -1.5017  
Productivity Index.....: 0.1074 bbls/psi.d  
Productivity Index W/O Damage.: -0.1612 bbls/psi.d

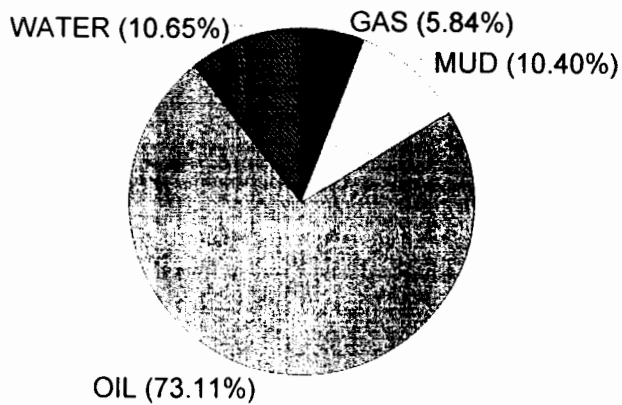
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 11708

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	280		0	100	280		0		0
PIPE 2	67	20	13.4	60	40.2		0	30	20.1
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
DRILL 1	233	20	46.6	60	139.8		0	30	69.9
COLLARS 2	120		0		0	80	96	20	24
3	60		0		0	100	60		0
4			0		0		0		0
5			0		0		0		0
TOTAL	760		60		460		156		114

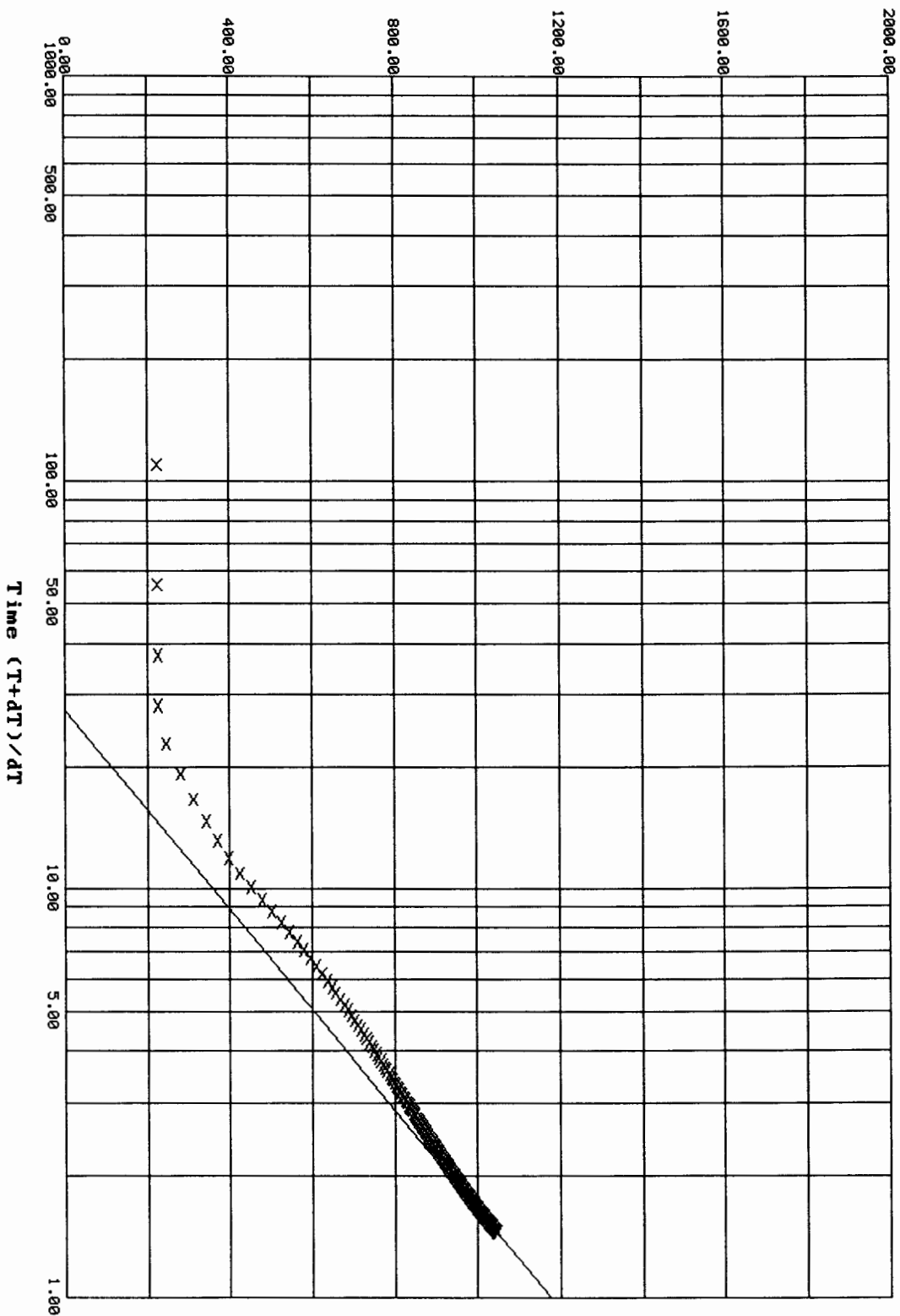
		HRS OPEN	BBL/DAY
BBL OIL=	5.236866	* 1.5	= 83.78986
BBL WATER=	0.76284	*	= 12.20544
BBL MUD=	0.744993		
BBL GAS =	0.418422		



# Horner Plot: Shut-in #1

11708 DST#1 Winsted A-5 Dunn Equities

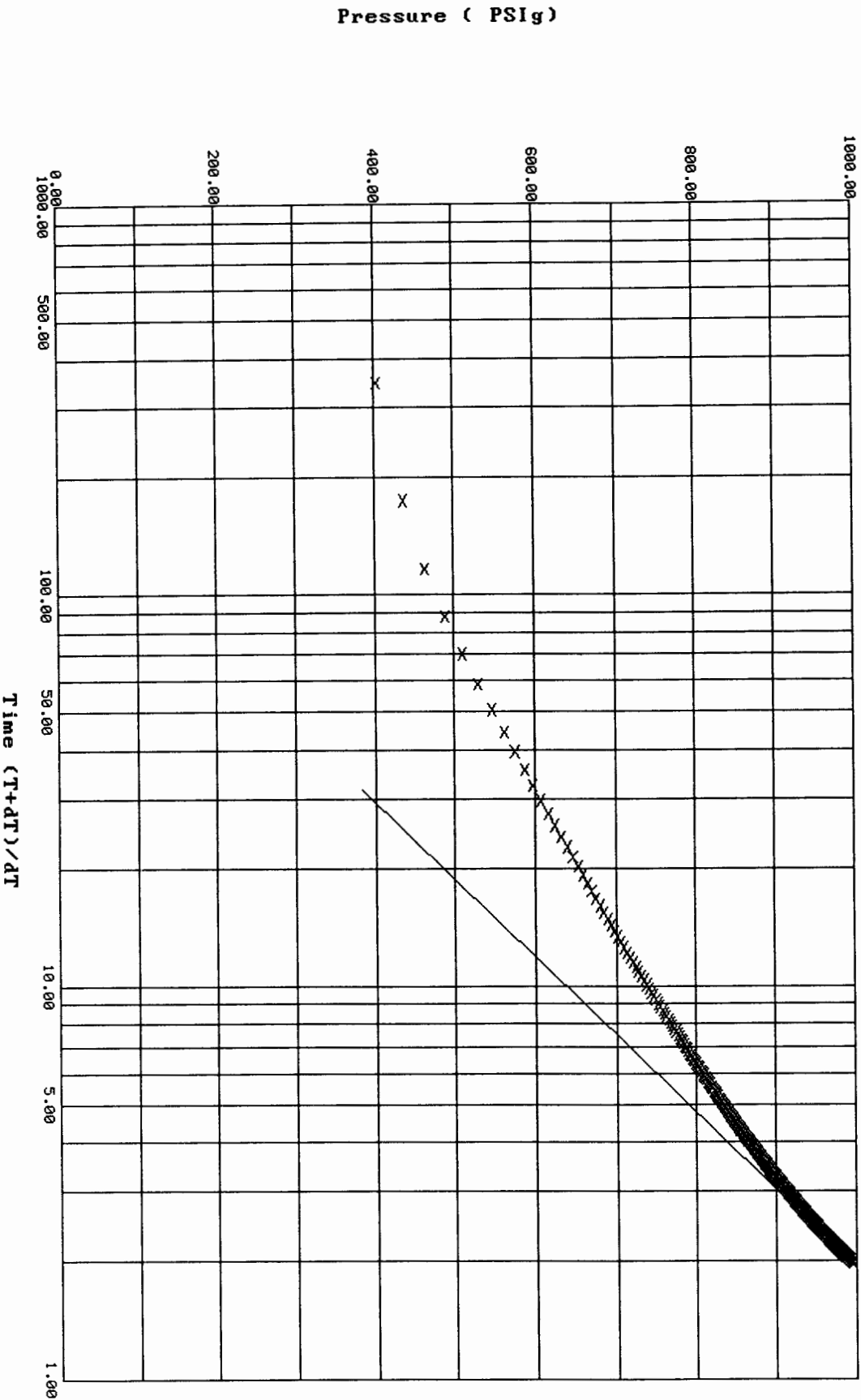
Slope: 820.9179 PSig/cycle  
Ext. Pressure: 1178.4006 PSig



# Horner Plot: Shut-in #2

11708 DST#1 Winsted A-5 Dunn Equities

Slope: 508.8666 PSig/cycle  
Ext. Pressure: 1146.4319 PSig



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

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Lab Number:	984614	Analyzed:	12/03/98
Sample From:	Winsted A-5 DST 1	Pressure:	
Producer:	Dunne Equities	Temperature:	
Date:		Location:	22-29-34
Time:		County:	Haskell
Sampler:		State:	Kansas
Source:		Formation:	KC B

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	Mole %	GPM
Helium	He: 0.035	0.000
Hydrogen	H2: 0.002	0.000
Oxygen	O2: 0.021	0.000
Nitrogen	N2: 6.293	0.000
Carbon Dioxide	CO2: 0.067	0.000
Methane	C1: 57.894	0.000
Ethane	C2: 11.455	3.064
Propane	C3: 12.448	3.430
Iso Butane	iC4: 1.945	0.636
Normal Butane	nC4: 4.781	1.507
Iso Pentane	iC5: 1.202	0.440
Normal Pentane	nC5: 1.343	0.486
Hexanes Plus	C6+: 2.514	1.097
TOTAL:	100.000	10.660
Z Fact:	0.9938	
SP. GR. :	0.9770	
BTU ( SAT):	1536.8	@ 14.73 psia
BTU ( DRY):	1564.0	@ 14.73 psia
OCTANE RATING:	107.6	

COMMENTS:

0.021

# TEST HISTORY

11708 DST#1 Winsted A-5 Dunn Equities

Flag Points

Flag Points	T(Min.)	P(PSIG)
A:	0.00	2232.18
B:	0.00	137.59
C:	27.25	225.31
D:	60.75	1046.49
E:	0.00	269.49
F:	59.25	366.24
G:	89.50	997.18
H:	0.00	2182.51

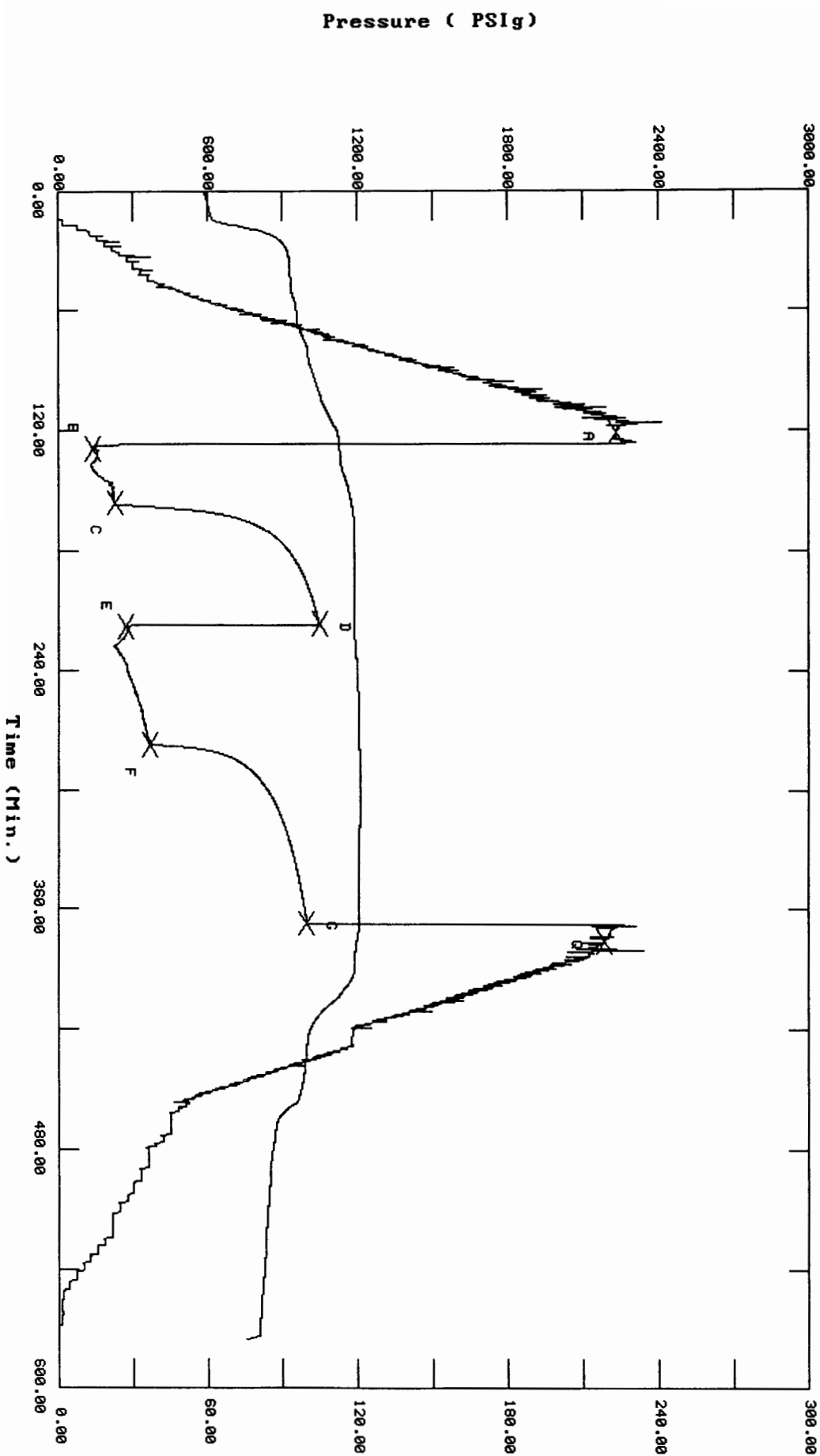
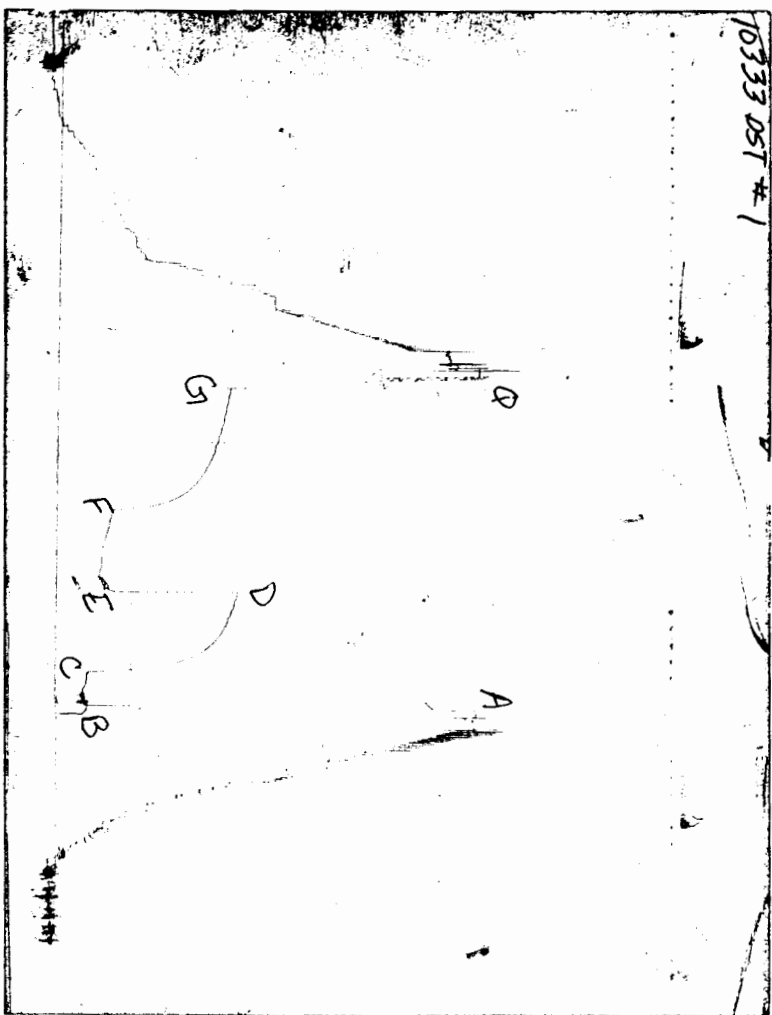


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 11708

## Test Ticket

Well Name & No.	<u>Winsted #A-5</u>	Test No.	<u>1</u>	Date	<u>12-2-98</u>		
Company	<u>Dunne Equities Operating Inc.</u>	Zone Tested	<u>K.C. B.</u>				
Address	<u>8100 E. 22<sup>nd</sup> St. N. 1100 Wichita Ks. 67226-2311</u>		Elevation	<u>2958</u>	KB <u>2946</u> GL		
Co. Rep/Geo.	<u>Bob Poscy</u>	Cont.	<u>Cheyenne</u>	Est. Ft. of Pay	___ Por. ___ %		
Location: Sec.	<u>22</u>	Twp.	<u>29S</u>	Rge.	<u>34W</u> Co. <u>Haskell</u> State <u>KS.</u>		
No. of Copies	___	Distribution Sheet (Y, N)	___	Turnkey (Y, N)	___	Evaluation (Y, N)	___

Interval Tested	<u>4583 - 4601</u>	Initial Str Wt./Lbs.	<u>85,000</u>	Unseated Str Wt./Lbs.	<u>85,000</u>
Anchor Length	<u>18'</u>	Wt. Set Lbs.	<u>24,000</u>	Wt. Pulled Loose/Lbs.	<u>130,000</u>
Top Packer Depth	<u>4578</u>	Tool Weight	<u>1700</u>		
Bottom Packer Depth	<u>4583</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>		Rubber Size — 6 3/4" <input checked="" type="checkbox"/>	
Total Depth	<u>4601</u>	Wt. Pipe Run	___	Drill Collar Run	<u>643</u> <sup>12.25'</sup>
Mud Wt.	<u>9.1</u> LCM <u>3</u> Vis. <u>48</u> WL <u>8.8</u>	Drill Pipe Size	<u>4 1/2 KH</u>	Ft. Run	<u>3918</u> <sup>62 stls.</sup>
Blow Description	<u>B.O.B. in 30 seconds</u>				

No blow back

2<sup>nd</sup> open B.O.B. in 1 min. GTS in 2 1/2 min.

Never Dried Completely out

Recovery — Total Feet	<u>990</u>	GIP	<u>GTS</u>	Ft. in DC	<u>643</u>	Ft. in DP	<u>347</u>
Rec. <u>280</u>	Feet Of	<u>Clean oil</u>	%gas	<u>100</u>	%oil	___	%water ___ %mud ___
Rec. <u>300</u>	Feet Of	<u>Gas and mud cut Oil</u>	20%gas	<u>60</u>	%oil	___	%water <u>20</u> %mud ___
Rec. <u>230</u>	Feet Of	<u>Oil, watery Gas</u>	40%gas	<u>20</u>	%oil	<u>10</u>	%water <u>30</u> %mud ___
Rec. <u>120</u>	Feet Of	<u>muddy water</u>	%gas ___	___	%oil ___	<u>80</u>	%water <u>20</u> %mud ___
Rec. <u>60</u>	Feet Of	<u>Water</u>	%gas ___	___	%oil ___	<u>100</u>	%water ___ %mud ___
BHT <u>120</u>	°F Gravity	<u>39</u>	°API D@	<u>50</u>	°F Corrected Gravity	<u>40</u>	°API
RW <u>.196</u>	@ <u>47</u>	°F Chlorides	<u>10,000</u>	ppm Recovery	Chlorides	<u>1000</u>	ppm System

(A) Initial Hydrostatic Mud	<u>2265</u>	AK-1	<u>2232</u>	Alpine	PSI	Recorder No.	<u>3026</u>	T-On Location	<u>10:00 A.M.</u>
(B) First Initial Flow Pressure	<u>152</u>		<u>137</u>		PSI	(depth)	<u>4591</u>	T-Started	<u>11:30 A.M.</u>
(C) First Final Flow Pressure	<u>182</u>		<u>225</u>		PSI	Recorder No.	<u>10,333</u>	T-Open	<u>1:29 P.M.</u>
(D) Initial Shut-In Pressure	<u>965</u>		<u>1046</u>		PSI	(depth)	<u>4601</u>	T-Pulled	<u>5:39 P.M.</u>
(E) Second Initial Flow Pressure	<u>274</u>		<u>269</u>		PSI	Recorder No.	___	T-Out	<u>9:10 P.M.</u>
(F) Second Final Flow Pressure	<u>325</u>		<u>366</u>		PSI	(depth)	___	T-Off Location	___
(G) Final Shut-in Pressure	<u>924</u>		<u>997</u>		PSI	Initial Opening	<u>30</u>	Test	<input checked="" type="checkbox"/> <u>700<sup>00</sup></u>
(Q) Final Hydrostatic Mud	<u>2103</u>		<u>2182</u>		PSI	Initial Shut-in	<u>60</u>	Jars	<input checked="" type="checkbox"/> <u>200<sup>00</sup></u>
						Final Flow	<u>60</u>	Safety Joint	<u>150<sup>00</sup></u>
						Final Shut-in	<u>90</u>	Straddle	___

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Approved By Bob Poscy

Our Representative Scott Bugba

Circ. Sub

Sampler

Extra Packer

Elec. Rec.  150<sup>00</sup>

Mileage

Other

TOTAL PRICE \$ 1100<sup>00</sup>