Well Name:	WILGERS #1				
Company :	ABERCROMBIE DRILLING				
Location - Sec:	33	**Twp:**	10S	**Rge:**	33W
County:	THOMAS	**State:**	KS		
Date:	10/26/95				

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilling — DATE 10/24/95
WELL NAME: Wilgers #1 — KB 3187.00 ft — TICKET NO: 7970 — DST #1
LOCATION : 33-10S-33W, Thomas Cty KS — GR 3182.00 ft — FORMATION: Lansing - KC "E"
INTERVAL : 4185.00 To 4205.00 ft — TD 4205.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	11058	11058	11057		
SI	45	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0
SF	30	Clock(hrs)	21048	21048	22347		
FS	30	Depth(ft)	4186.0	4186.0	4200.0	0.0	0.0

TIME DATA----------
PF Fr. 0853 to 0923 hr
IS Fr. 0923 to 1008 hr
SF Fr. 1008 to 1038 hr
FS Fr. 1038 to 1108 hr

	Field	1	2	3	4
A. Init Hydro	2065.0	2062.0	0.0	0.0	0.0
B. First Flow	33.0	33.0	0.0	0.0	0.0
B1. Final Flow	27.0	32.0	0.0	0.0	0.0
C. In Shut-in	1247.0	1136.0	0.0	0.0	0.0
D. Init Flow	33.0	42.0	0.0	0.0	0.0
E. Final Flow	27.0	42.0	0.0	0.0	0.0
F. Fl Shut-in	1031.0	1033.0	0.0	0.0	0.0
G. Final Hydro	2042.0	2037.0	0.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED hr
T ON BOTM hr
T OPEN 0853 hr
T PULLED 1108 hr
T OUT hr

RECOVERY
Tot Fluid 21.00 ft of 0.00 ft in DC and 21.00 ft in DP
1.00 ft of Free oil - 100% oil
20.00 ft of Muddy water w/ trace oil - 60% water, 40% mud

RW .38 @ 62 F
SALINITY 19950.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
Surface blow built to little over .25"

Initial Shutin -
No blow

Final Blow -
Bubble to open tool, no blow

Final Shutin -
No blow

SAMPLES:
SENT TO:

Test Successful: Y

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

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 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	0.00 ft
D.P. Length	0.00 ft
H.W. I.D	2.70 in
H.W. Length	600.00 ft

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

Mud Type	Chemical
Weight	9.10 lb/
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Shane McBride
Co. Rep.	Tom Funk
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

ST # 1 TICKET # 7970

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	1		0	100	1		0		0
2	20		0		0	60	12	40	8
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	21	0	0	4.761905	1	57.14286	12	38.09524	8

			HRS OPE	BBL/DAY
BL OIL=	0.007	*	1.00	0.168
BL WAT	0.084	*		2.016
BL MUD	0.056			
BL GAS	0			

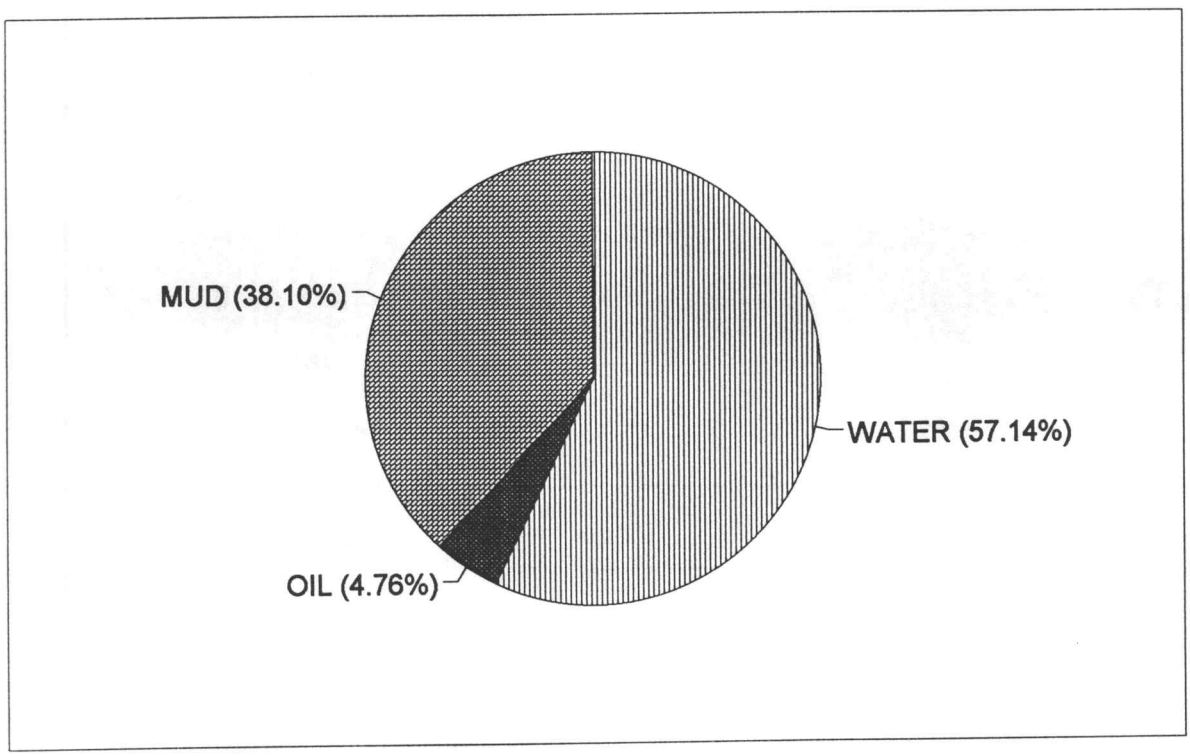
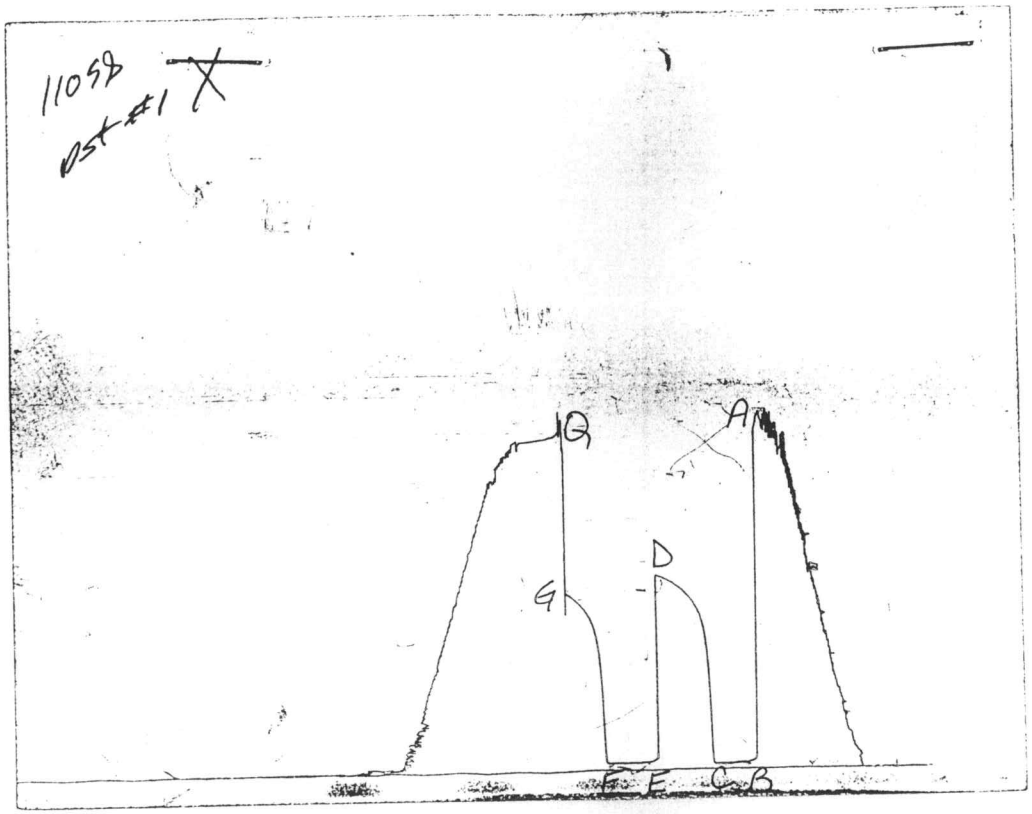


CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilling — DATE 10/25/95
WELL NAME: Wilgers #1 — KB 3187.00 ft — TICKET NO: 7971 — DST #2
LOCATION : 33-10S-33W, Thomas Cty KS — GR 3182.00 ft — FORMATION: Kansas City "K"
INTERVAL : 4339.00 To 4360.00 ft — TD 4360.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	30	Rec.	11058	11058	11057		
SI	60	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0
SF	60	Clock(hrs)	21048	21048	22347		
FS	60	Depth(ft)	4340.0	4340.0	4355.0	0.0	0.0

TIME DATA----------
PF Fr. 0612 to 0642 hr
IS Fr. 0642 to 0742 hr
SF Fr. 0742 to 0842 hr
FS Fr. 0842 to 0942 hr

	Field	1	2	3	4
A. Init Hydro	2221.0	2219.0	0.0	0.0	0.0
B. First Flow	44.0	46.0	0.0	0.0	0.0
B1. Final Flow	66.0	61.0	0.0	0.0	0.0
C. In Shut-in	1120.0	1223.0	0.0	0.0	0.0
D. Init Flow	122.0	118.0	0.0	0.0	0.0
E. Final Flow	177.0	172.0	0.0	0.0	0.0
F. Fl Shut-in	1192.0	1196.0	0.0	0.0	0.0
G. Final Hydro	2199.0	2192.0	0.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED hr
T ON BOTM hr
T OPEN 0612 hr
T PULLED 0942 hr
T OUT hr

RECOVERY
Tot Fluid 390.00 ft of 0.00 ft in DC and 390.00 ft in DP
10.00 ft of Free oil - 100% oil
20.00 ft of Water cut mud w/ trace oil - 2% oil, 48% water, 50% mud
60.00 ft of Watery mud - 60% water, 40% mud
300.00 ft of Salt water - 100% water, trace mud

RW .25 @ 70 F
SALINITY 48000.00 P.P.M. A.P.I. Gravity 34.80

BLOW DESCRIPTION

Initial Blow -
Surface blow built to 6.5"

Initial Shutin -
No blow

Final Blow -
Surface blow built to 3.5"

Final Shutin -
No blow

SAMPLES:
SENT TO:

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

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 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	0.00 ft
D.P. Length	0.00 ft
H.W. I.D	2.70 in
H.W. Length	600.00 ft

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

Mud Type	Chemical
Weight	9.00 lb/
Vis.	48.00 S/I
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Shane McBride
Co. Rep.	Tom Funk
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

DST # 2 TICKET # 7971

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	10		0	100	10		0		0
2	20		0	2	0.4	48	9.6	50	10
3	60		0		0	60	36	40	24
4	300		0		0	100	300		0
5			0		0		0		0
TOTAL	390	0	0	2.666667	10.4	88.61538	345.6	8.717949	34

			HRS OPE	BBL/DAY
BBL OIL=	0.0728	*	1.50	1.1648
BBL WAT	2.4192	*		38.7072
BBL MUD	0.238			
BBL GAS	0			

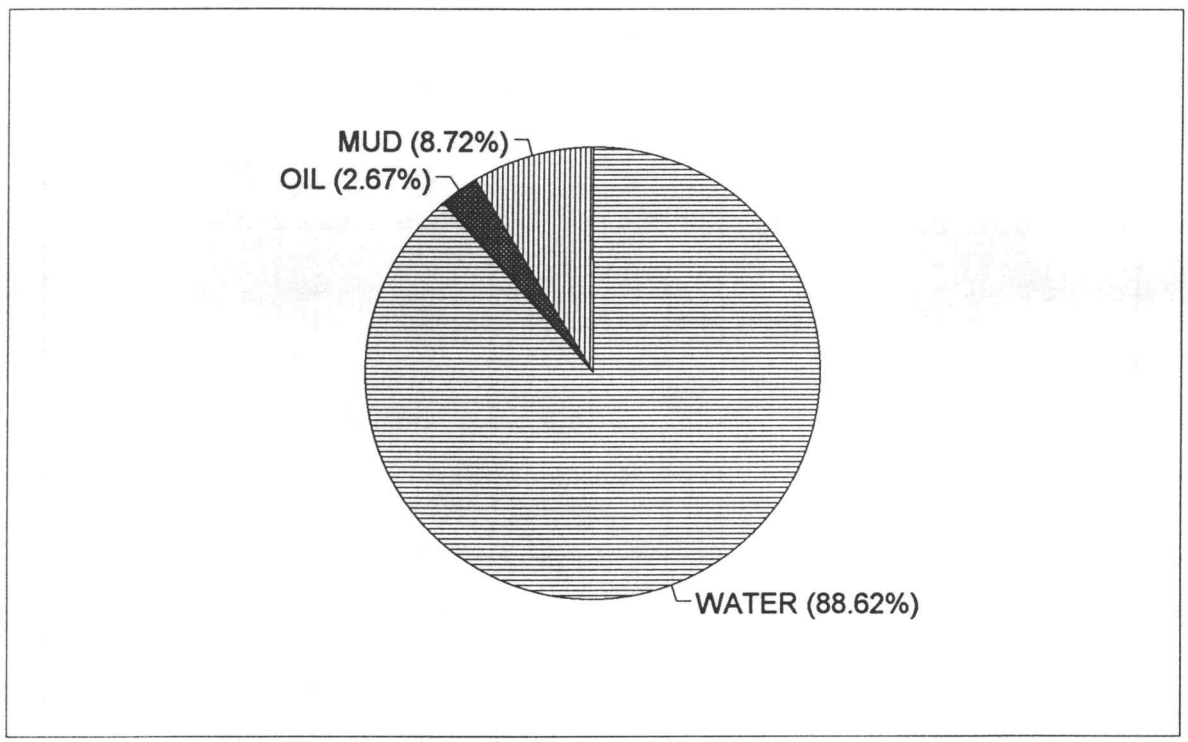
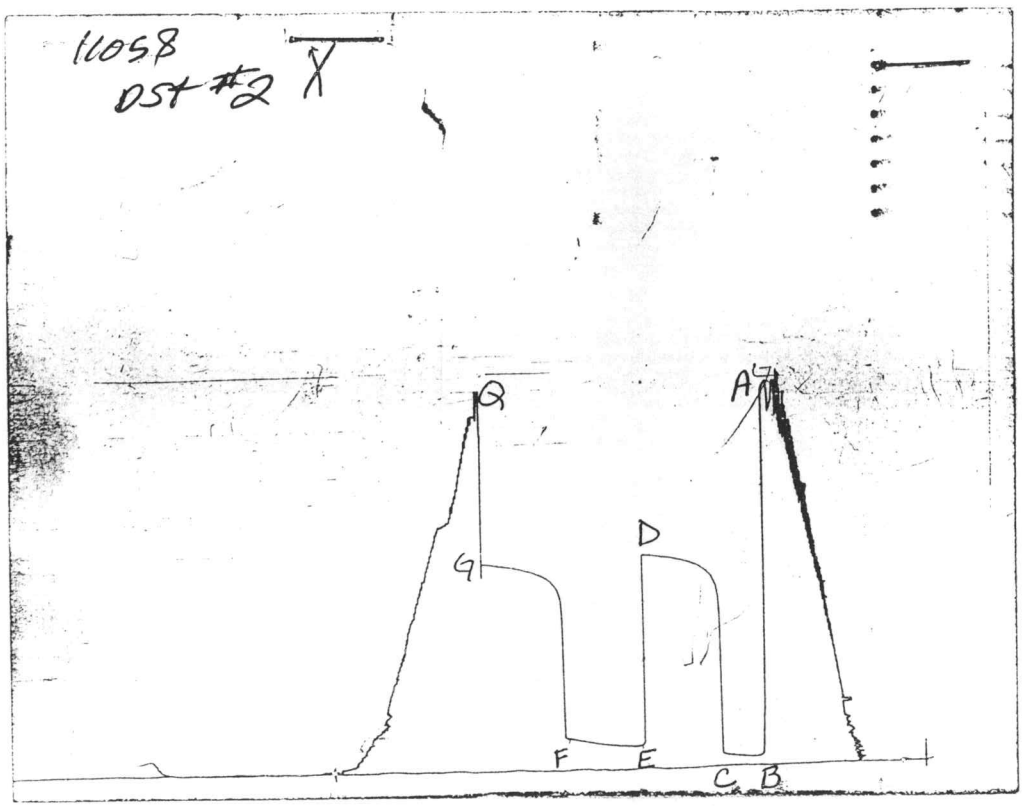


CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilling — DATE 10/25/95
WELL NAME: Wilgers #1 — KB 3187.00 ft — TICKET NO: 7972 — DST #3
LOCATION : 33-10S-33W, Thomas Cty KS — GR 3182.00 ft — FORMATION: Kansas City "L"
INTERVAL : 4375.00 To 4398.00 ft — TD 4398.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	11058	11058	11057		
SI	30	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0
SF	30	Clock(hrs)	21048	21048	22347		
FS	30	Depth(ft)	4378.0	4378.0	4393.0	0.0	0.0

TIME DATA----------
PF Fr. 1923 to 1953 hr
IS Fr. 1953 to 2023 hr
SF Fr. 2023 to 2053 hr
FS Fr. 2053 to 2123 hr

	Field	1	2	3	4
A. Init Hydro	2221.0	2222.0	0.0	0.0	0.0
B. First Flow	44.0	47.0	0.0	0.0	0.0
B1. Final Flow	38.0	40.0	0.0	0.0	0.0
C. In Shut-in	1275.0	1270.0	0.0	0.0	0.0
D. Init Flow	44.0	47.0	0.0	0.0	0.0
E. Final Flow	38.0	42.0	0.0	0.0	0.0
F. Fl Shut-in	1253.0	1261.0	0.0	0.0	0.0
G. Final Hydro	2199.0	2219.0	0.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED hr
T ON BOTM hr
T OPEN 1923 hr
T PULLED 2123 hr
T OUT hr

RECOVERY
Tot Fluid 12.00 ft of 0.00 ft in DC and 12.00 ft in DP
12.00 ft of Drilling mud w/ trace of water

RW .51 @ 60 F
SALINITY 15000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
Surface blow .25", died back to a weak surface blow

Initial Shutin -
No blow

Final Blow -
Bubble to open tool, no blow

Final Shutin -
No blow

SAMPLES:
SENT TO:

Test Successful: Y

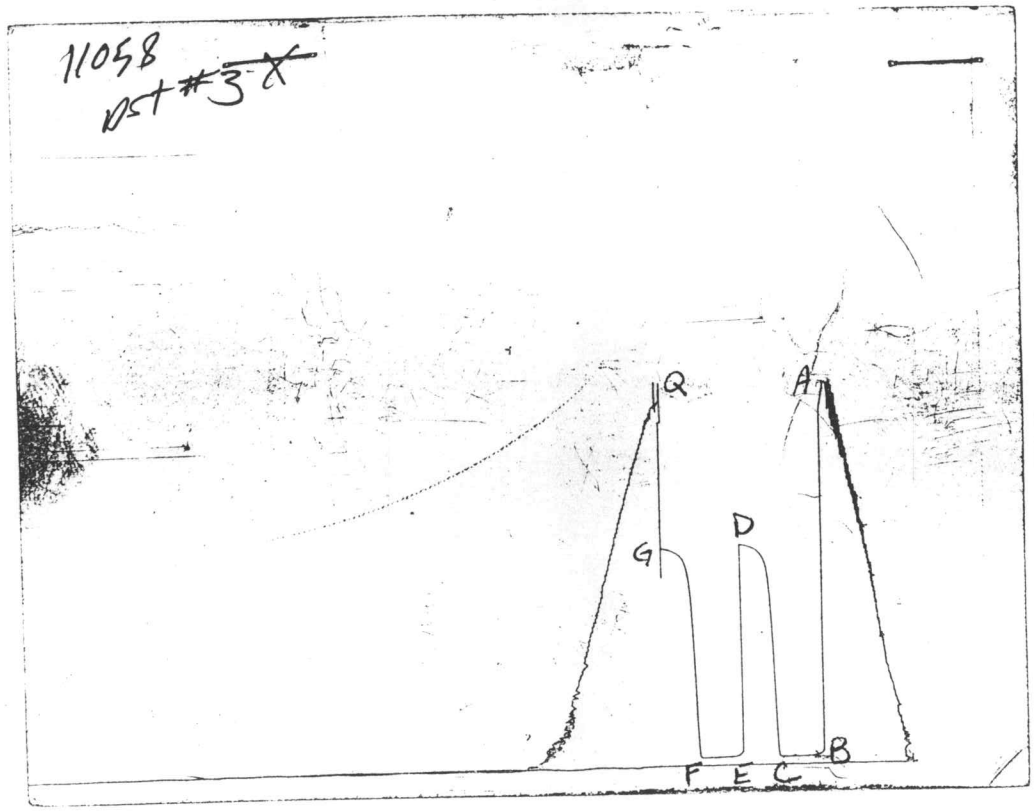
TOOL DATA----------

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 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	0.00 ft
D.P. Length	0.00 ft
H.W. I.D	2.70 in
H.W. Length	600.00 ft

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

Mud Type	Chemical
Weight	9.10 lb/
Vis.	49.00 S/I
W.L.	10.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Shane McBride
Co. Rep.	Tom Funk
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilling — DATE 10/26/95
WELL NAME: Wilgers #1 — KB 3187.00 ft — TICKET NO: 7973 — DST #4
LOCATION : 33-10S-33W, Thomas Cty KS — GR 3182.00 ft — FORMATION: Johnson
INTERVAL : 4620.00 To 4690.00 ft — TD 4690.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	30	Rec.	11058	11058	11057		
SI	45	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0
SF	60	Clock(hrs)	21048	21048	22347		
FS	45	Depth(ft)	4623.0	4623.0	4687.0	0.0	0.0

TIME DATA----------
PF Fr. 2346 to 0016 hr
IS Fr. 0016 to 0101 hr
SF Fr. 0101 to 0201 hr
FS Fr. 0201 to 0246 hr

	Field	1	2	3	4
A. Init Hydro	2373.0	2363.0	0.0	0.0	0.0
B. First Flow	44.0	58.0	0.0	0.0	0.0
B1. Final Flow	94.0	94.0	0.0	0.0	0.0
C. In Shut-in	1025.0	1027.0	0.0	0.0	0.0
D. Init Flow	161.0	190.0	0.0	0.0	0.0
E. Final Flow	233.0	261.0	0.0	0.0	0.0
F. Fl Shut-in	941.0	948.0	0.0	0.0	0.0
G. Final Hydro	2350.0	2306.0	0.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED hr
T ON BOTM hr
T OPEN 2346 hr
T PULLED 0246 hr
T OUT hr

RECOVERY
Tot Fluid 600.00 ft of 0.00 ft in DC and 600.00 ft in DP
40.00 ft of Gas in pipe
20.00 ft of Mud cut gassy oil - 10% gas, 50% oil, 40% mud
60.00 ft of Mud cut gassy oil - 15% gas, 65% oil, 20% mud
520.00 ft of Clean gassy oil - 20% gas, 80% oil

RW 1.2 @ 70 F
SALINITY 5150.00 P.P.M. A.P.I. Gravity 18.00

BLOW DESCRIPTION
Initial Blow -
Bottom of bucket in 18 min

Initial Shutin -
Bled off blow, return blow in 5 min,
built to .25"

Final Blow -
.25" blow at open, built to bottom of
bucket in 21 min

Final Shutin -
Bled off blow, return in 6 min, built
to a weak surface blow, blew throughout
SAMPLES:
SENT TO:

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

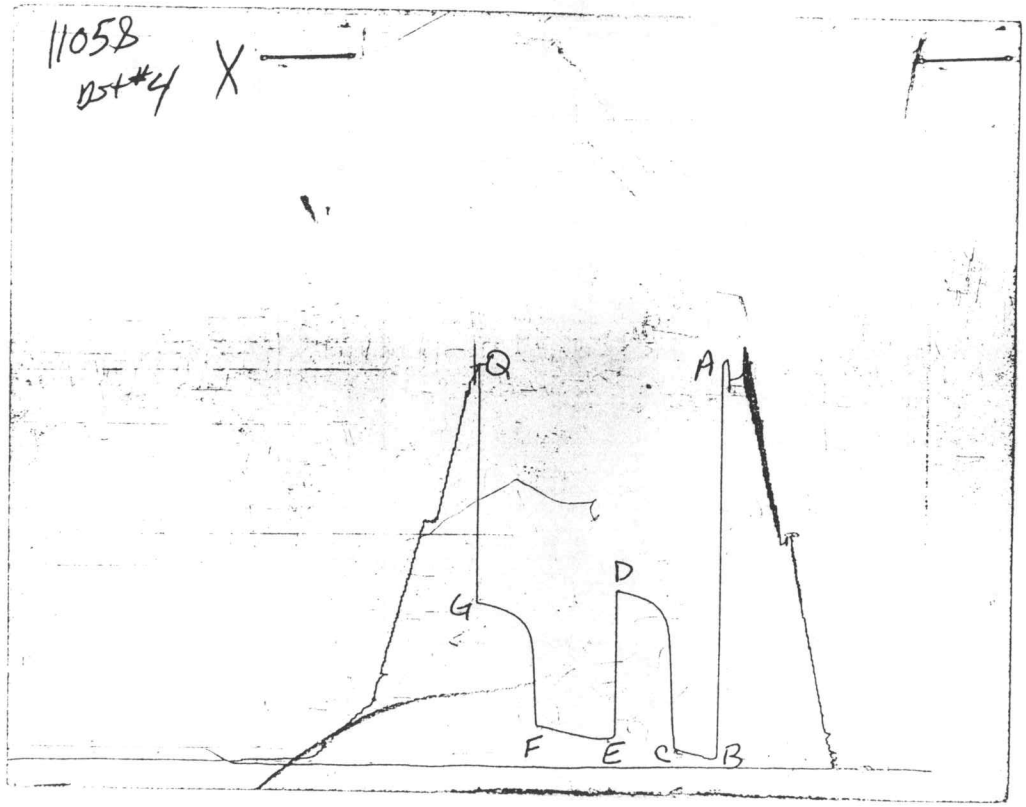
Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	0.00 ft
H.W. I.D	2.70 in
H.W. Length	600.00 ft

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

Mud Type	Chemical
Weight	9.10 lb/
Vis.	46.00 S/I
W.L.	10.40 in
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Shane McBride
Co. Rep.	Tom Funk
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



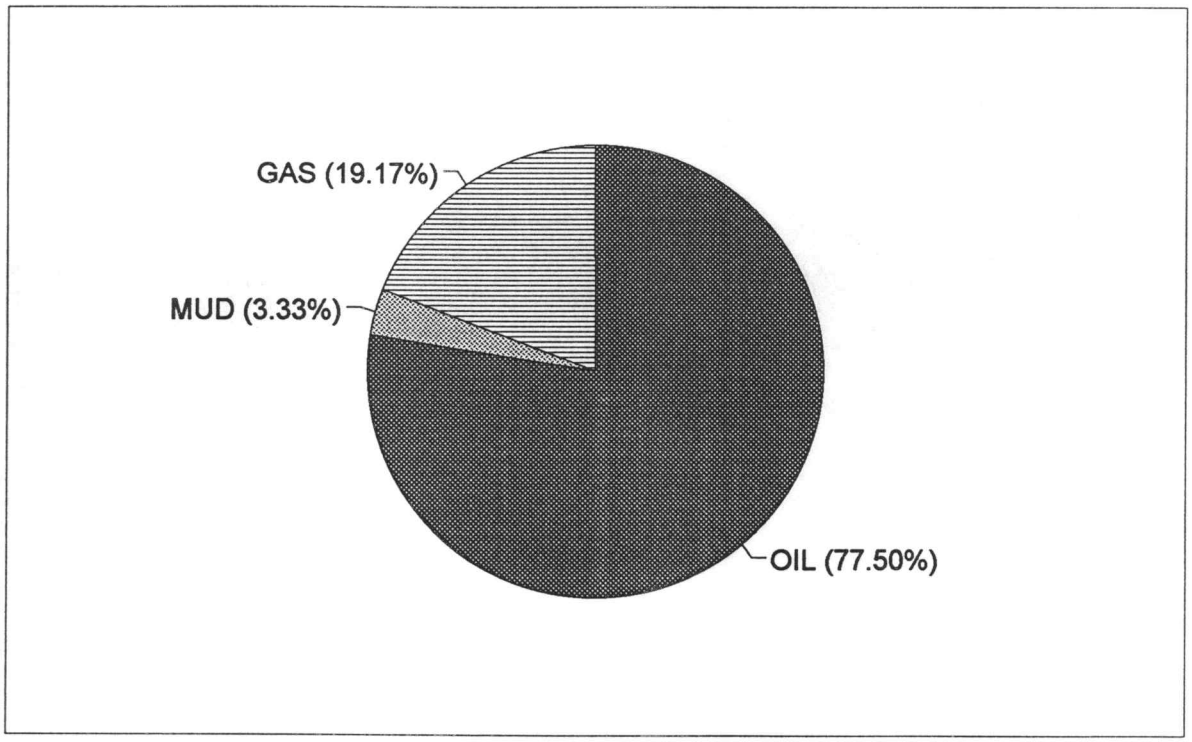
This is an actual photograph of recorder chart

CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

DST # 4 TICKET # 7973

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	20	10	2	50	10		0	40	8
2	60	15	9	65	39		0	20	12
3	520	20	104	80	416		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	600	19.16667	115	77.5	465	0	0	3.333333	20

			HRS OPE	BBL/DAY
BBL OIL=	3.255	*	1.50	52.08
BBL WAT	0	*		0
BBL MUD	0.14			
BBL GAS	0.805			



INITIAL SHUT-IN

WILGERS #1

DST # 4 SLOPE 301.7 PSI/CYCLE

INITIAL FLOW TIME 30 P* 1093.60 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	661.7	1.041	661.7	11
	6	858.6	0.778	196.8	6
	9	907.2	0.637	48.7	4
	12	930.9	0.544	23.7	4
	15	952.4	0.477	21.5	3
	18	965.9	0.426	13.6	3
	21	970.5	0.385	4.5	2
	24	982.9	0.352	12.4	2
	27	993.1	0.325	10.2	2
	30	1002.1	0.301	9.0	2
Q	33	1008.9	0.281	6.8	2
	36	1016.7	0.263	7.8	2
	39	1020.0	0.248	3.3	2
	42	1024.5	0.234	4.4	2
X	45	1026.7	0.222	2.2	2

FINAL SHUT-IN

WILGERS #1

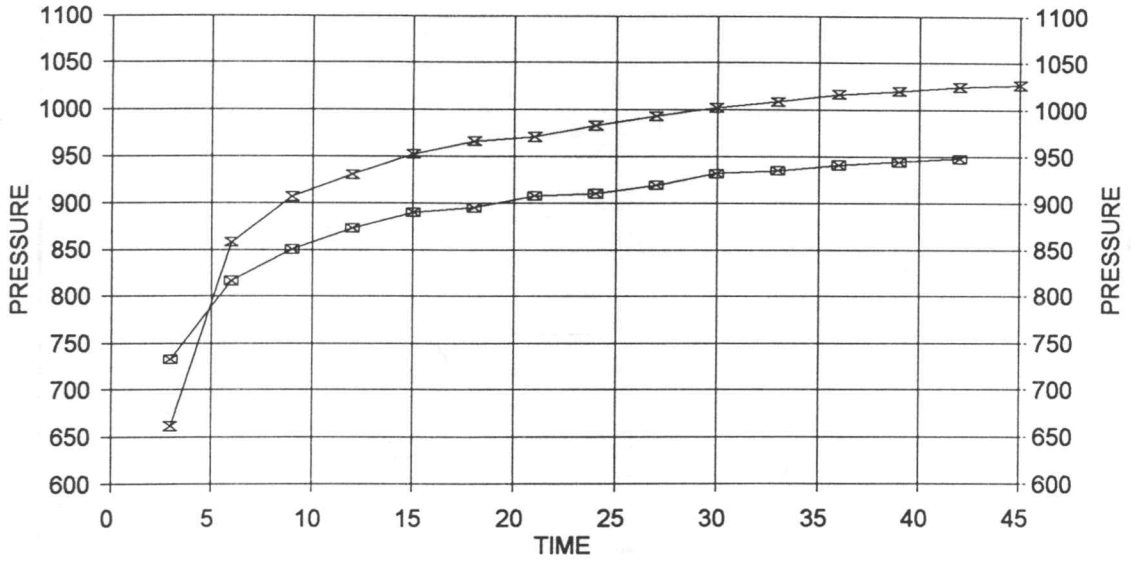
DST # 4 SLOPE 151.0 PSI/CYCLE

TOTAL FLOW TIME 90 P* 1022.94 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	733.0	1.491	733.0	31
	6	816.7	1.204	83.7	16
	9	850.6	1.041	33.9	11
	12	873.3	0.929	22.6	9
	15	890.3	0.845	17.0	7
	18	895.9	0.778	5.7	6
	21	908.3	0.723	12.4	5
	24	910.6	0.677	2.3	5
	27	919.6	0.637	9.0	4
Q	30	932.1	0.602	12.4	4
	33	935.4	0.571	3.4	4
	36	941.1	0.544	5.6	4
	39	944.5	0.520	3.4	3
X	42	947.9	0.497	3.4	3

DELTA T DELTA P

WILGERS #1 /DST #4



HORNER PLOT

