

15-051-25048

TRILOBITE TESTING L.L.C.

8-11s-20w

OPERATOR : Murfin Drilling Co.

DATE 8-5-00

WELL NAME: Pfeifer #1-8

KB 2047.00 ft

TICKET NO: 13286

DST #1

LOCATION : 8-11S-20W Ellis co KS

GR 2042.00 ft

FORMATION: Topeka

INTERVAL : 3103.00 To 3125.00 ft

TD 3125.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13254	13254	3024			PF Fr. 0710 to 0740 hr
SI 45 Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 0740 to 0825 hr
SF 60 Clock(hrs)	12 HR	12 HR	ALP			SF Fr. 0825 to 0925 hr
FS 90 Depth(ft)	3120.0	3120.0	3105.0	0.0	0.0	FS Fr. 0925 to 1055 hr

	Field	1	2	3	4	
A. Init Hydro	1483.0	1507.0	1476.0	0.0	0.0	T STARTED 0519 hr
B. First Flow	35.0	56.0	15.0	0.0	0.0	T ON BOTM 0708 hr
B1. Final Flow	106.0	111.0	106.0	0.0	0.0	T OPEN 0710 hr
C. In Shut-in	839.0	843.0	834.0	0.0	0.0	T PULLED 1055 hr
D. Init Flow	154.0	158.0	108.0	0.0	0.0	T OUT 1230 hr
E. Final Flow	177.0	187.0	176.0	0.0	0.0	
F. Fl Shut-in	839.0	846.0	832.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1448.0	1436.0	1448.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 40000.00 lbs
						Unseated Str Wt 40000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.00 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 245.00 ft
						D.P. Length 2866.00 ft

RECOVERY

Tot Fluid 365.00 ft of 245.00 ft in DC and 120.00 ft in DP
 365.00 ft of Salty water
 0.00 ft of 100% 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 45000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak surface blow built to 8"

Initial Shut-In:

No return blow

Final Flow:

Weak surface return in 10 minutes.

Steady throughout

Final Shut-In:

No return blow

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.70 lb/c
Vis.	46.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	109.00 F
Hole Condition	Fair
% 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 Rod Steinbrink

Co. Rep. Randy Killian

Contr. Murfin

Rig # 8

Unit #

Pump T.

Test Successful: Y

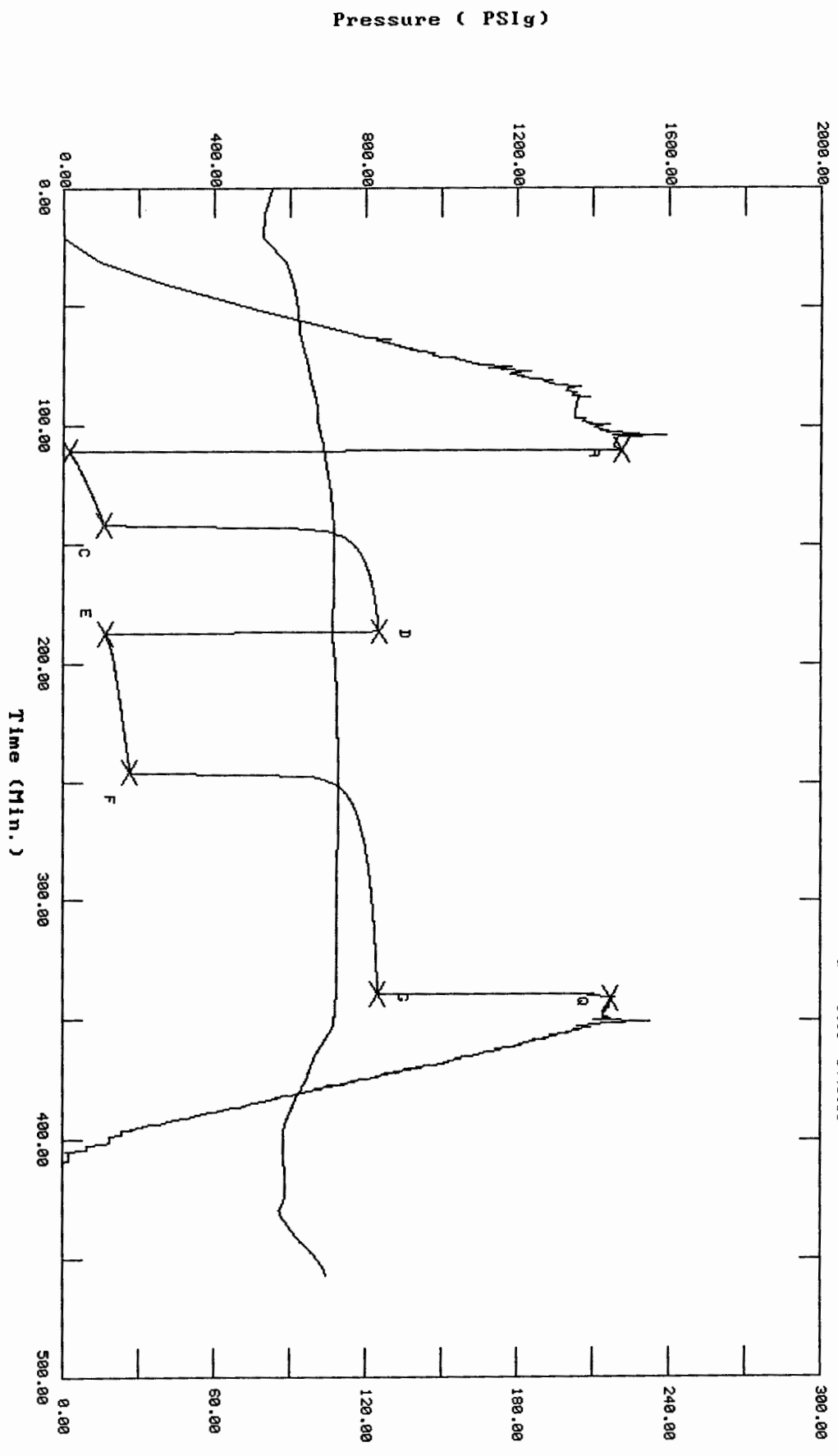
*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Pfeifer #1-8	H	P.O. SUB 1' Above 120' DC	2963
	H	C.O. SUB 1'	3083
LOCATION : 8-11S-20W Ellis co KS			
	H	S.I. TOOL 5'	3089
TICKET No. 13286 D.S.T. No. 1 DATE 8-5-00	H		
	H		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 20			
	H	HMV 5'	3094
INTERVAL TOOL 22			
	H	JARS n/a	
BOTTOM PACKERS AND ANCHOR			
TOTAL TOOL 42	H		
DRILL COLLAR ANCHOR IN INTERVAL	H		
D.C. ANCHOR STND.Stands Single Total			
	H	SAFETY JOINT n/a	
D.P. ANCHOR STND.Stands Single Total			
	H	PACKER 4'	3098
TOTAL ASSEMBLY 42			
	H	PACKER 5'	3103
D.C. ABOVE TOOLS.Stands4 Single Total 245		DEPTH	
	H	1'	3104
D.P. ABOVE TOOLS.Stands46 Single Total 2866		ANCHOR	
	H	Alp Rec.	3105
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3153			
	H	16' Perf	3120
TOTAL DEPTH 3125			
	H		
TOTAL DRILL PIPE ABOVE K.B. 28			
	H		
REMARKS:			
	H		
	H		
	H		
	H		
	H	AK-1 Rec. @	3120
	H	BULLNOSE 5'	
	H	T.D.	3125

TEST HISTORY
 13286 DST #1 Pfeifer #1-8 Murfin Drilling Co.

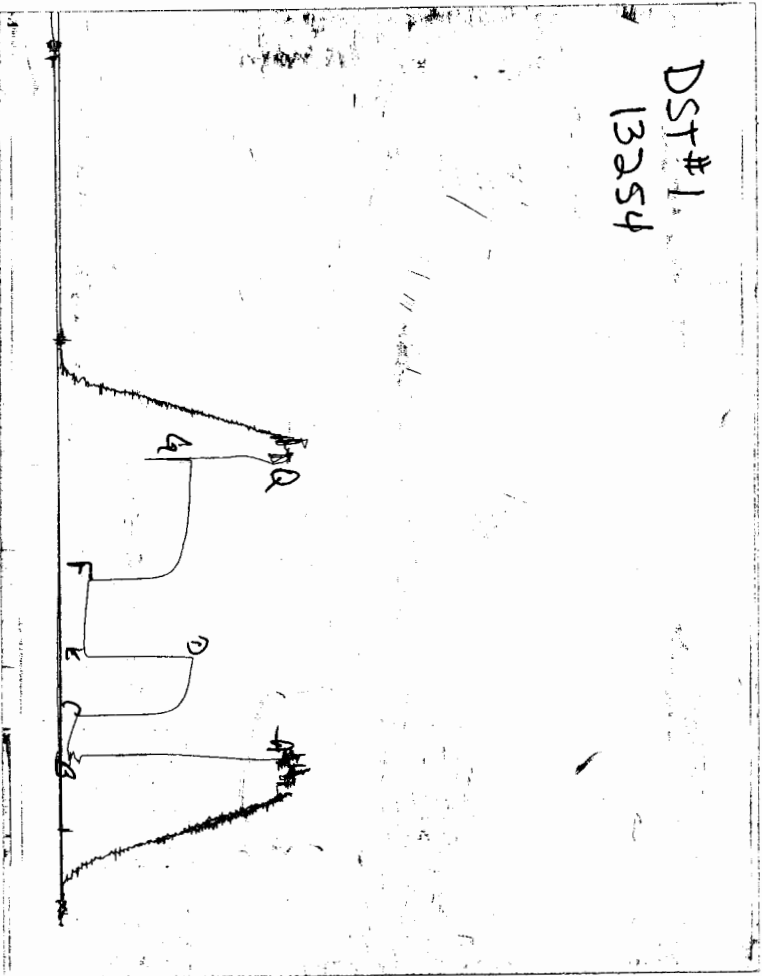
Flag Points

t (Min.)	Pk PSig
A: 0.00	1476.41
B: 0.00	15.34
C: 31.50	106.71
D: 44.50	834.10
E: 0.00	108.95
F: 58.50	176.04
G: 93.00	832.36
H: 0.00	1448.51



Temperature (DEG F)

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

N^o 13286

Test Ticket

Well Name & No. <u>Pfeifer #1-8</u>		Test No. <u>1</u>	Date <u>8-5-00</u>
Company <u>Murfin Drilling Company</u>		Zone Tested <u>Topeka</u>	
Address <u>250 N. Water Ste 300 Wichita, KS. 67202</u>		Elevation <u>2047</u> KB <u>2042</u> GL	
Co. Rep / Geo. <u>Randy Killian</u>		Cont. <u>Murfin #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>B</u>	Twp. <u>11^s</u>	Rge. <u>20^w</u>	Co. <u>Ellis</u> State <u>KS</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Add 10' to all Depths.

Interval Tested <u>3093 - 3115</u>	Initial Str Wt./Lbs. <u>40,000</u>	Unseated Str Wt./Lbs. <u>40,000</u>
Anchor Length <u>22'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3089</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>3093</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3115 3125</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>245' (4)</u>
Mud Wt. <u>8.7</u> LCM <u> </u> Vis. <u>46</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>2866' (46)</u>
Blow Description <u>IF: Weak surface blow built to 8"</u>		
<u>ISI: No return blow.</u>		
<u>FF: Weak surface return in 10 mins steady throughout</u>		
<u>FSI: No return blow.</u>		

Recovery — Total Feet <u>365'</u>	GIP <u> </u>	Ft. in DC <u>245'</u>	Ft. in DP <u>120'</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>
Rec. <u>365'</u> Feet Of <u>SW</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>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
BHT <u>109°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u>45,000</u> by <u>Chem</u> ppm Recovery	Chlorides <u>1,900</u>	ppm System <u> </u>	

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1483</u>	<u>1476</u>	PSI Recorder No. <u>3024</u>	T-On Location <u>0445</u>
(B) First Initial Flow Pressure	<u>35</u>	<u>15</u>	PSI (depth) <u>3095</u>	T-Started <u>0519</u>
(C) First Final Flow Pressure	<u>106</u>	<u>106</u>	PSI Recorder No. <u>13254</u>	T-Open <u>0710</u>
(D) Initial Shut-In Pressure	<u>839</u>	<u>834</u>	PSI (depth) <u>3110</u>	T-Pulled <u>1055</u>
(E) Second Initial Flow Pressure	<u>154</u>	<u>108</u>	PSI Recorder No. <u> </u>	T-Out <u>1230</u>
(F) Second Final Flow Pressure	<u>177</u>	<u>176</u>	PSI (depth) <u> </u>	T-Off Location <u>1330</u>
(G) Final Shut-in Pressure	<u>839</u>	<u>832</u>	PSI Initial Opening <u>30</u>	Test <u>650</u>
(Q) Final Hydrostatic Mud	<u>1448</u>	<u>1448</u>	PSI Initial Shut-in <u>45</u>	Jars <u> </u>
			Final Flow <u>60</u>	Safety Joint <u> </u>
			Final Shut-in <u>90</u>	Straddle <u> </u>

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 Rod Steinbrink

Circ. Sub X N/C

Sampler

Extra Packer

Elec. Rec. X 150

Mileage 37 mi 37

Other

TOTAL PRICE \$ 839

TRILOBITE TESTING L.L.C.

OPERATOR : Murfin Drilling, Co. DATE 8-6-00
 WELL NAME: Pfeifer #1-8 KB 2047.00 ft TICKET NO: 13287 DST #2
 LOCATION : 8-11-20 Ellis co KS GR 2042.00 ft FORMATION: A-F LKC
 INTERVAL : 3330.00 To 3422.00 ft TD 3422.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13254	13254	3024			PF Fr. 1402 to 1432 hr
SI 45	Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 1432 to 1517 hr
SF 60	Clock(hrs)	12	12	elect			SF Fr. 1517 to 1617 hr
FS 90	Depth(ft)	3392.0	3392.0	3332.0	0.0	0.0	FS Fr. 1717 to 1747 hr

	Field	1	2	3	4	
A. Init Hydro	1705.0	1694.0	1651.0	0.0	0.0	T STARTED 1201 hr
B. First Flow	154.0	151.0	80.0	0.0	0.0	T ON BOTM 1400 hr
B1. Final Flow	177.0	179.0	139.0	0.0	0.0	T OPEN 1402 hr
C. In Shut-in	709.0	705.0	682.0	0.0	0.0	T PULLED 1747 hr
D. Init Flow	260.0	243.0	182.0	0.0	0.0	T OUT 1935 hr
E. Final Flow	260.0	250.0	206.0	0.0	0.0	
F. Fl Shut-in	709.0	705.0	683.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1717.0	1650.0	1579.0	0.0	0.0	Tool Wt. 1900.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 337.00 ft of 245.00 ft in DC and 92.00 ft in DP
 180.00 ft of Gas in pipe
 337.00 ft of Slightly oil cut mud
 0.00 ft of 5% oil 95% mud
 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

Unseated Str Wt 43000.00 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 245.00 ft
 D.P. Length 3087.00 ft

BLOW DESCRIPTION

Initial Flow:
 Packer failure-reset packers-Packers
 held-Weak blow building to 6" fair blow

Final Flow:
 Fair blow building to 9"

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 47.00 S/L
 W.L. 8.00 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 109.00 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 Dan Bangle
 Co. Rep. Randy Kilian
 Contr. Murfin
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Pfeifer #1-8

LOCATION : 8-11-20 Ellis co KS

TICKET No. 13287 D.S.T. No. 2 DATE 8-6-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 50

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 112

D.C. ABOVE TOOLS.Stands4 Single Total 245

D.P. ABOVE TOOLS.Stands51 Single Total 3087

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3444

TOTAL DEPTH 3422

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

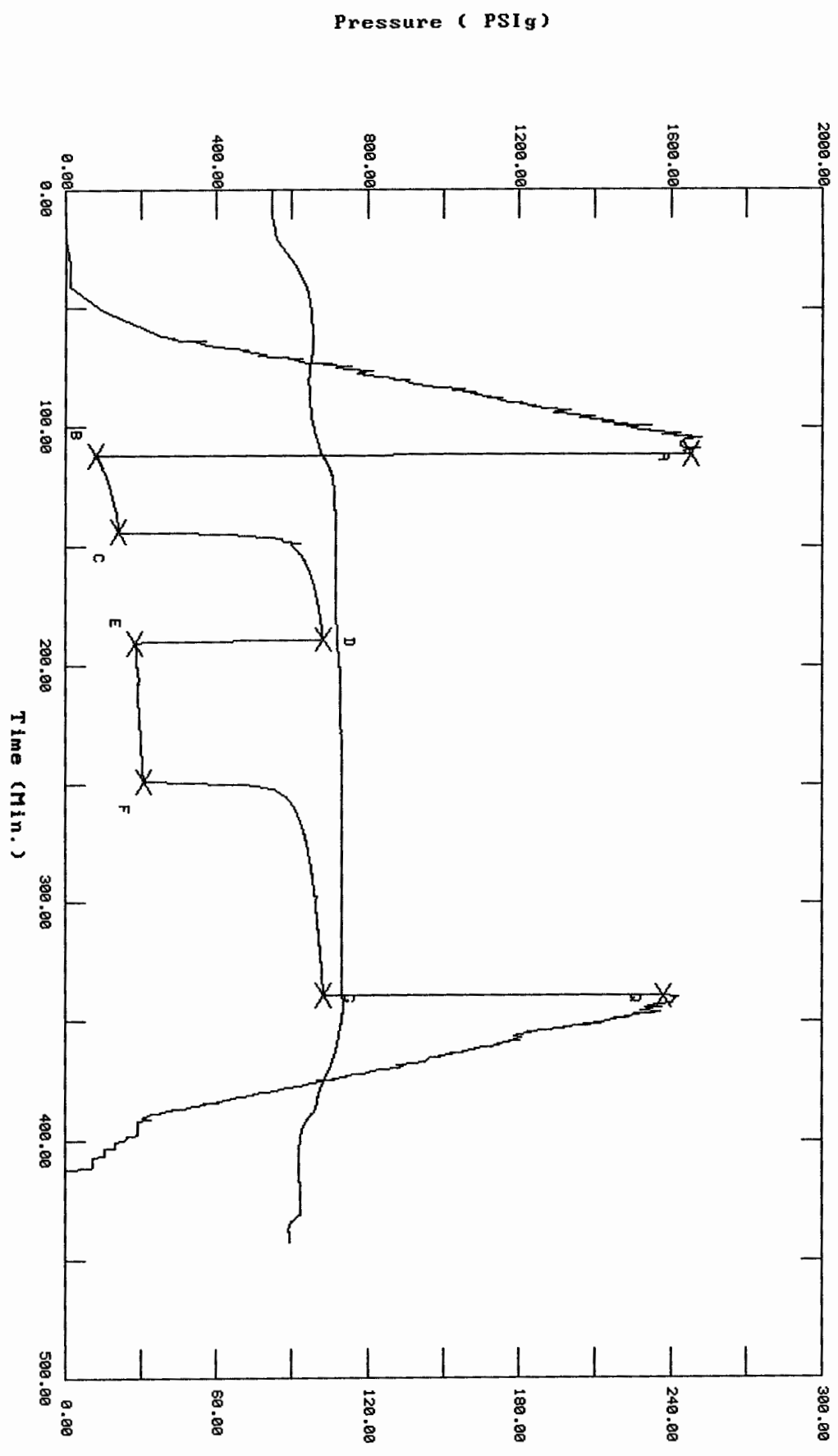
H	P.O. SUB	3190
H	C.O. SUB	3310
H	S.I. TOOL	3316
H		
H	HMV	3321
H	JARS n/a	
H		
H	SAFETY JOINT n/a	
H	PACKER	3325
H	PACKER	3330
H	DEPTH 3330	
H	1'	3331
H	ANCHOR 1' co sub	3332
H	Alpine @ 3332	
H	1 std dp 62'	3394
H	1' co sub	3395
H	AK-1 @ 3392	
H	5' Perfs	3400
H	5' Perfs	3405
H		
H	5' Perfs	3410
H	5' Perfs	3415
H	2' Perfs	3417
H		
H	BULLNOSE 5'	3422
H	T.D.	3422

TEST HISTORY

TK# 13287 DST# 2 Pfeifer #1-8 Murfin Drilling Co.

Flag Points

Flag Points	Time (Min.)	Pressure (PSig)
R	0.00	1651.35
B	0.00	79.77
C	31.50	139.19
D	45.50	682.11
E	0.00	182.07
F	58.50	206.00
G	90.00	683.23
Q	0.00	1578.91

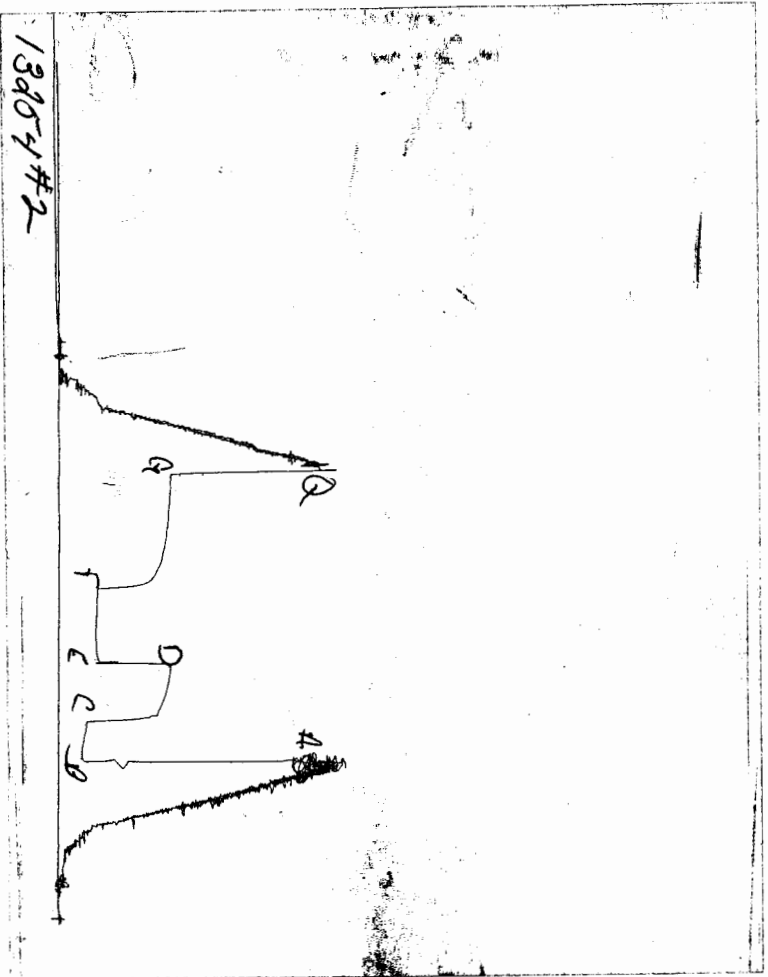


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

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 13287

Test Ticket

Well Name & No. <u>Pfeifer #1-8</u>	Test No. <u>2</u>	Date <u>8-6-00</u>
Company <u>Murfin Drilling Co.</u>	Zone Tested <u>A-F</u>	<u>LKC</u>
Address _____	Elevation <u>2047</u> KB <u>2042</u> GL	
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Murfin #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u>	Twp. <u>11</u>	Rge. <u>20</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3330 - 3422</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt./Lbs. <u>43,000</u>
Anchor Length <u>92</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>3325</u>	Tool Weight <u>1900</u>	
Bottom Packer Depth <u>3330</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3422</u>	Wt. Pipe Run _____	Drill Collar Run <u>245</u>
Mud Wt. <u>9.1</u> LCM _____ Vis. <u>47</u> WL <u>8</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3087</u>
Blow Description <u>I.F. Packer failure - reset tool - Packers held - weak blow building to 6" fair blow</u> <u>F.F. fair blow - building to 9"</u>		

Recovery — Total Feet <u>337</u>	GIP <u>180</u>	Ft. in DC <u>245</u>	Ft. in DP <u>92</u>
Rec. <u>337</u>	Feet Of <u>Silty OCM</u>	%gas <u>5</u> %oil _____	%water <u>95</u> %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>109</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides <u>4900</u> ppm System _____

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1705</u>	<u>1651</u>		<u>3024</u>	<u>11:40</u>
(B) First Initial Flow Pressure	<u>154</u>	<u>80</u>		(depth) <u>3332</u>	T-Started <u>12:01</u>
(C) First Final Flow Pressure	<u>177</u>	<u>139</u>		Recorder No. <u>13254</u>	T-Open <u>14:02</u>
(D) Initial Shut-In Pressure	<u>709</u>	<u>682</u>		(depth) <u>3392</u>	T-Pulled <u>17:47</u>
(E) Second Initial Flow Pressure	<u>260</u>	<u>182</u>		Recorder No. _____	T-Out <u>19:35</u>
(F) Second Final Flow Pressure	<u>260</u>	<u>206</u>		(depth) _____	T-Off Location <u>19:55</u>
(G) Final Shut-in Pressure	<u>709</u>	<u>683</u>		Initial Opening <u>30</u>	Test <u>1050</u>
(Q) Final Hydrostatic Mud	<u>1717</u>	<u>1579</u>		Initial Shut-in <u>45</u>	Jars _____
				Final Flow <u>60</u>	Safety Joint _____
				Final Shut-in <u>90</u>	Straddle _____

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Approved By _____
Our Representative Dan Rangle

Extra Packer _____
Elec. Rec. X 150
Mileage 37 37
Other et .5 15
TOTAL PRICE \$ 852

TRILOBITE TESTING L.L.C.

OPERATOR : Murfin Drilling Co DATE 8-7-00
 WELL NAME: Pfeifer #1-8 KB 2047.00 ft TICKET NO: 13288 DST #3
 LOCATION : 8-11-20 Ellis co KS GR 2042.00 ft FORMATION: H-L LKC
 INTERVAL : 3477.00 To 3550.00 ft TD 3550.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13254	13254	3024			PF Fr. 1100 to 1130 hr
SI 45 Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 1130 to 1215 hr
SF 60 Clock(hrs)	12	12	elect			SF Fr. 1215 to 1315 hr
FS 90 Depth(ft)	3547.0	3547.0	3482.0	0.0	0.0	FS Fr. 1315 to 1445 hr

	Field	1	2	3	4	
A. Init Hydro	1857.0	1822.0	1766.0	0.0	0.0	T STARTED 0845 hr
B. First Flow	106.0	110.0	29.0	0.0	0.0	T ON BOTM 1057 hr
B1. Final Flow	213.0	208.0	188.0	0.0	0.0	T OPEN 1100 hr
C. In Shut-in	804.0	813.0	785.0	0.0	0.0	T PULLED 1445 hr
D. Init Flow	272.0	259.0	194.0	0.0	0.0	T OUT 1640 hr
E. Final Flow	355.0	353.0	333.0	0.0	0.0	
F. Fl Shut-in	804.0	803.0	775.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1740.0	1740.0	1712.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 42000.00 lbs
						Unseated Str Wt 44000.00 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 245.00 ft
						D.P. Length 3241.00 ft

RECOVERY

Tot Fluid 797.00 ft of 245.00 ft in DC and 552.00 ft in DP
 180.00 ft of Drilling mud
 372.00 ft of Muddy water
 0.00 ft of 60% water 40% mud
 245.00 ft of Water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 65000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 42.00 S/L
 W.L. 8.40 in3
 F.C. 0.00 in
 Mud Drop N

BLOW DESCRIPTION

Initial Flow:
 Strong bottom of bucket in 11 minutes

Final Flow:
 Strong bottom of bucket in 16 minutes

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
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Randy Kilian
 Contr. Murfin
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

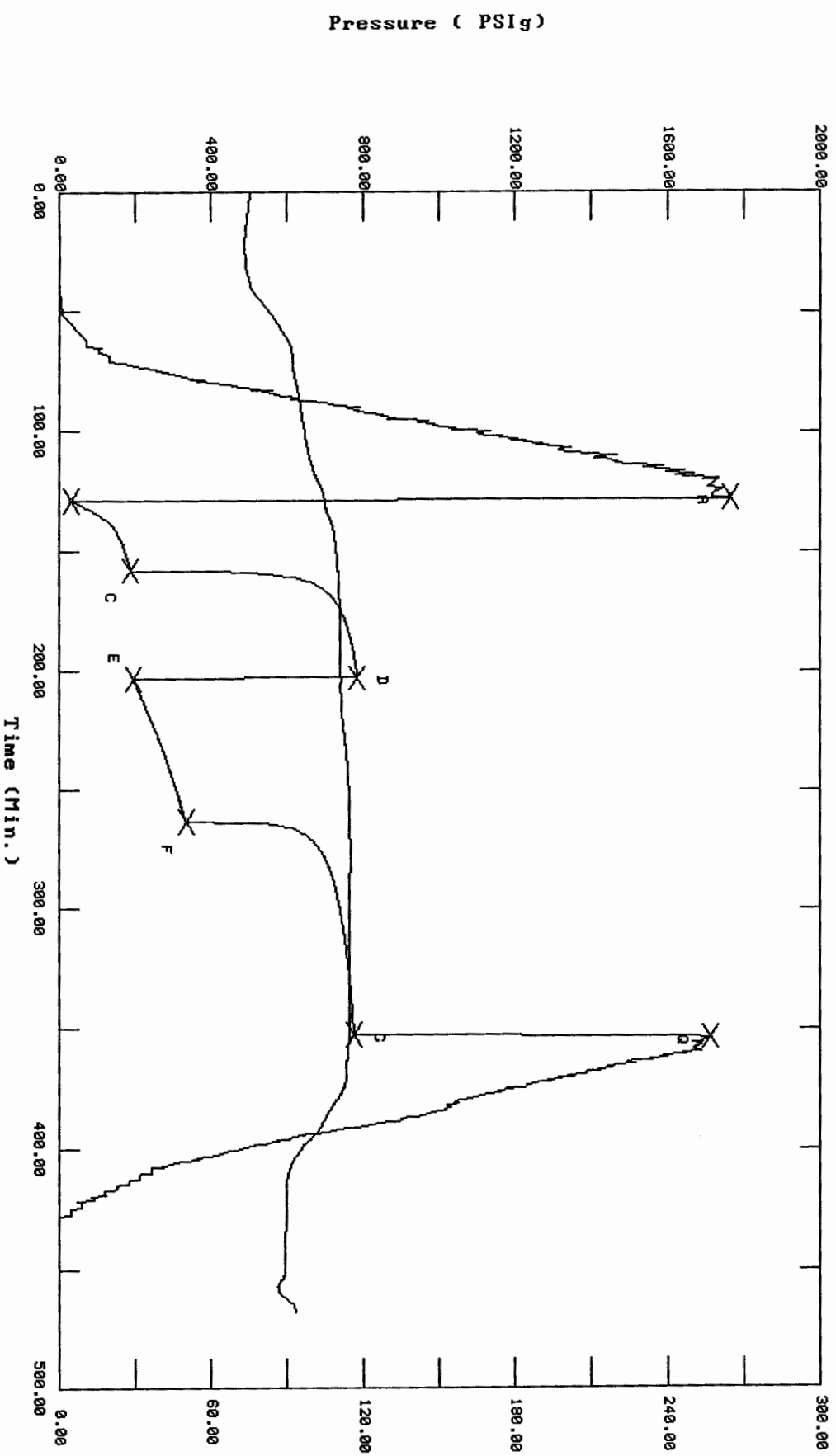
Test Successful: Y

TEST HISTORY

TK# 13288 DST# 3 Pfeifer #1-8 Murfin Drilling Co.

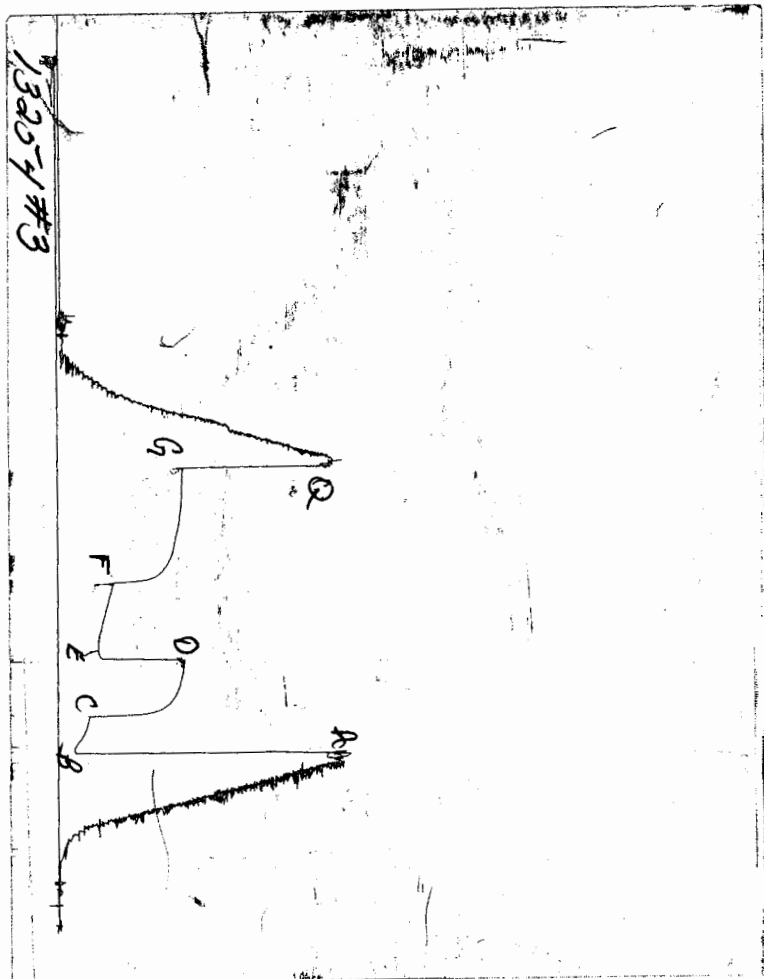
Flag Points

Time (Min.)	PK PSIG
R: 0.00	1765.93
B: 0.00	28.88
C: 29.00	187.86
D: 45.00	784.81
E: 0.00	194.11
F: 60.00	332.98
G: 89.00	775.48
H: 0.00	1712.01



Temperature (DEG F)

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 13288

Test Ticket

Well Name & No. <u>Pfeifer #1-8</u>		Test No. <u>3</u>	Date <u>8-7-00</u>
Company <u>Murfin Drilling Co.</u>		Zone Tested <u>H-L LKC</u>	
Address _____		Elevation <u>2047</u> KB <u>2042</u> GL	
Co. Rep / Geo. <u>Randy Kilian</u>		Cont. <u>Murfin #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u>	Twp. <u>11</u>	Rge. <u>20</u>	Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>3477 - 3550</u>	Initial Str Wt/Lbs. <u>42,000</u>	Unseated Str Wt/Lbs. <u>44,000</u>
Anchor Length <u>73</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>55,200</u>
Top Packer Depth <u>3472</u>	Tool Weight <u>1000</u>	
Bottom Packer Depth <u>3477</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>3550</u>	Wt. Pipe Run _____	Drill Collar Run <u>245</u>
Mud Wt. <u>9.2</u> LCM _____ Vis. <u>42</u> WL <u>8.4</u>	Drill Pipe Size <u>4.5XH</u>	Ft. Run <u>3241</u>
Blow Description <u>I.F. Strong - B.O.B. in 11 min.</u>		
<u>ISI No blow back</u>		
<u>F.F. Strong - B.O.B. in 16 min.</u>		
<u>FST No blow back</u>		

Recovery — Total Feet <u>797</u>	GIP _____	Ft. in DC <u>245</u>	Ft. in DP <u>552</u>
Rec. <u>180</u> Feet Of <u>D.M.</u>	%gas _____ %oil _____ %water _____ %mud _____		
Rec. <u>372</u> Feet Of <u>MDY WTP</u>	%gas _____ %oil _____ %water <u>60</u> %mud <u>40</u>		
Rec. <u>245</u> Feet Of <u>WTP</u>	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
BHT <u>114</u> °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API			
RW <u>1.09</u> @ <u>90</u> °F Chlorides <u>65,000</u> ppm Recovery Chlorides <u>5200</u> ppm System			

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1857</u>	<u>1766</u>		<u>3024</u>	<u>08:35</u>
(B) First Initial Flow Pressure	<u>106</u>	<u>29</u>	PSI	(depth) <u>3482</u>	T-Started <u>08:45</u>
(C) First Final Flow Pressure	<u>213</u>	<u>188</u>	PSI	Recorder No. <u>13254</u>	T-Open <u>11:00</u>
(D) Initial Shut-In Pressure	<u>804</u>	<u>785</u>	PSI	(depth) <u>3547</u>	T-Pulled <u>14:45</u>
(E) Second Initial Flow Pressure	<u>272</u>	<u>194</u>	PSI	Recorder No. _____	T-Out <u>16:40</u>
(F) Second Final Flow Pressure	<u>355</u>	<u>333</u>	PSI	(depth) _____	T-Off Location <u>16:50</u>
(G) Final Shut-in Pressure	<u>804</u>	<u>775</u>	PSI	Initial Opening <u>30</u>	Test <u>1650</u>
(Q) Final Hydrostatic Mud	<u>1740</u>	<u>1712</u>	PSI	Initial Shut-in <u>45</u>	Jars _____
				Final Flow <u>60</u>	Safety Joint _____
				Final Shut-in <u>90</u>	Straddle _____

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 _____

Our Representative Don Range

Extra Packer _____
 Elec. Rec. X 150
 Mileage 3737
 Other at hrs 130
 TOTAL PRICE \$ 867

TRILOBITE TESTING L.L.C.

OPERATOR : Murfin Drilling Co DATE 8-8-00
 WELL NAME: Pfeifer #1-8 KB 2047.00 ft TICKET NO: 13289 DST #4
 LOCATION : 8-11-20 Ellis co KS GR 2042.00 ft FORMATION: Arbuckle
 INTERVAL : 3634.00 To 3643.00 ft TD 3643.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13254	13254	3024			PF Fr. 0211 to 0241 hr
SI 45	Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 0241 to 0326 hr
SF 30	Clock(hrs)	12	12	elect			SF Fr. 0326 to 0356 hr
FS 60	Depth(ft)	3640.0	3640.0	3636.0	0.0	0.0	FS Fr. 0356 to 0456 hr

	Field	1	2	3	4	
A. Init Hydro	1764.0	1775.0	1798.0	0.0	0.0	T STARTED 0009 hr
B. First Flow	284.0	269.0	263.0	0.0	0.0	T ON BOTM 0207 hr
B1. Final Flow	319.0	333.0	374.0	0.0	0.0	T OPEN 0211 hr
C. In Shut-in	863.0	878.0	897.0	0.0	0.0	T PULLED 0456 hr
D. Init Flow	485.0	499.0	464.0	0.0	0.0	T OUT 0800 hr
E. Final Flow	651.0	665.0	708.0	0.0	0.0	
F. Fl Shut-in	863.0	870.0	879.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1740.0	1760.0	1777.0	0.0	0.0	Tool Wt. 800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 1751.00 ft of 245.00 ft in DC and 1506.00 ft in DP
 120.00 ft of Gas in pipe
 573.00 ft of Clean gassy oil
 0.00 ft of 10% gas 90% oil
 186.00 ft of Oil cut gassy water
 0.00 ft of 10% gas 40% oil 50% water
 992.00 ft of Water w/ scum of oil on top
 0.00 ft of
 0.00 ft of
 SALINITY 32000.00 P.P.M. A.P.I. Gravity 34.00

Unseated Str Wt 46000.00 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 245.00 ft
 D.P. Length 3395.00 ft

BLOW DESCRIPTION

Initial Flow:
 Strong bottom of bucket in 2 minutes.
 Initial Shut-In:
 No blow back.
 Final Flow:
 Strong bottom of bucket in 1 minutes.
 Final Shut-In:
 Weak steady surface blow.

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 44.00 S/L
 W.L. 8.40 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 118.00 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 Dan Bangle
 Co. Rep. Randy Kilian
 Contr. Murfin
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

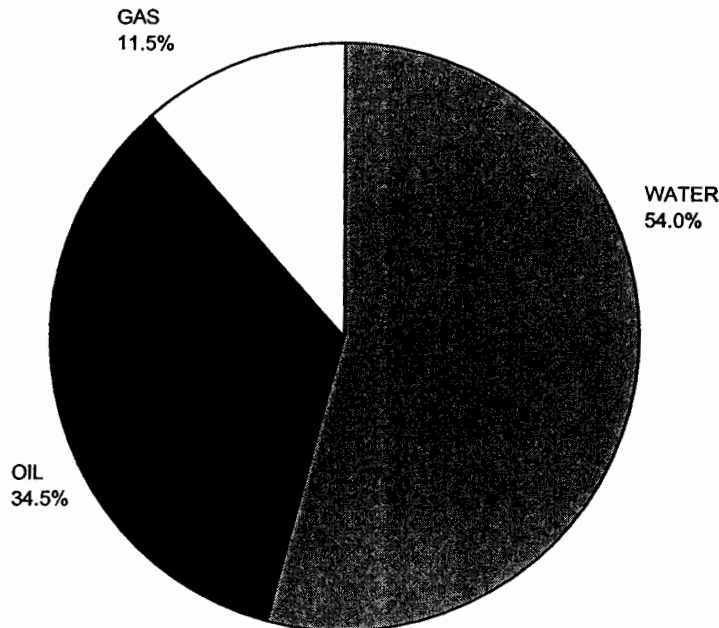
CALCULATED RECOVERY ANALYSIS

DST 4

TICKET 13289

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	120	100	120	0	0	0	0	0	0
PIPE 2	573	10	57.3	90	515.7	0	0	0	0
3	186	10	18.6	40	74.4	50	93	0	0
4	747	0	0	0	0	100	747	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
WEIGHT 1	0	0	0	0	0	0	0	0	0
PIPE 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 1	245	0	0	0	0	100	245	0	0
COLLARS 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
TOTAL	1871	0	195.9	0	590.1	0	1085	0	0

BBL OIL= 8.391222 * HRS OPEN 1 = BBL/DAY 201.38933
 BBL WATER= 13.14285 * = 315.4284
 BBL MUD= 0
 BBL GAS = 2.785698

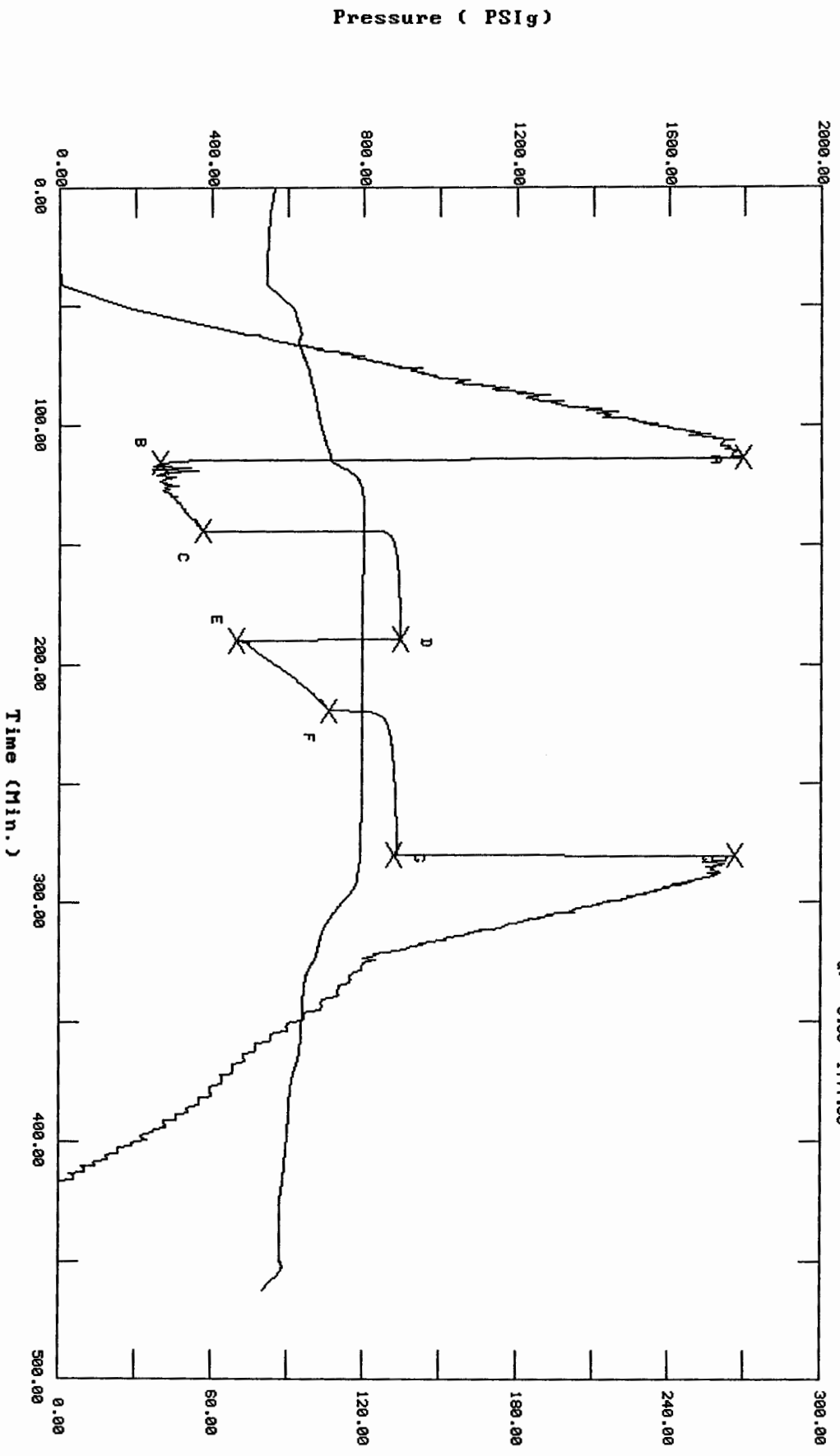


TEST HISTORY

TK# 13289 DST# 4 Pfeifer #1-8 Murfin Drilling Co.

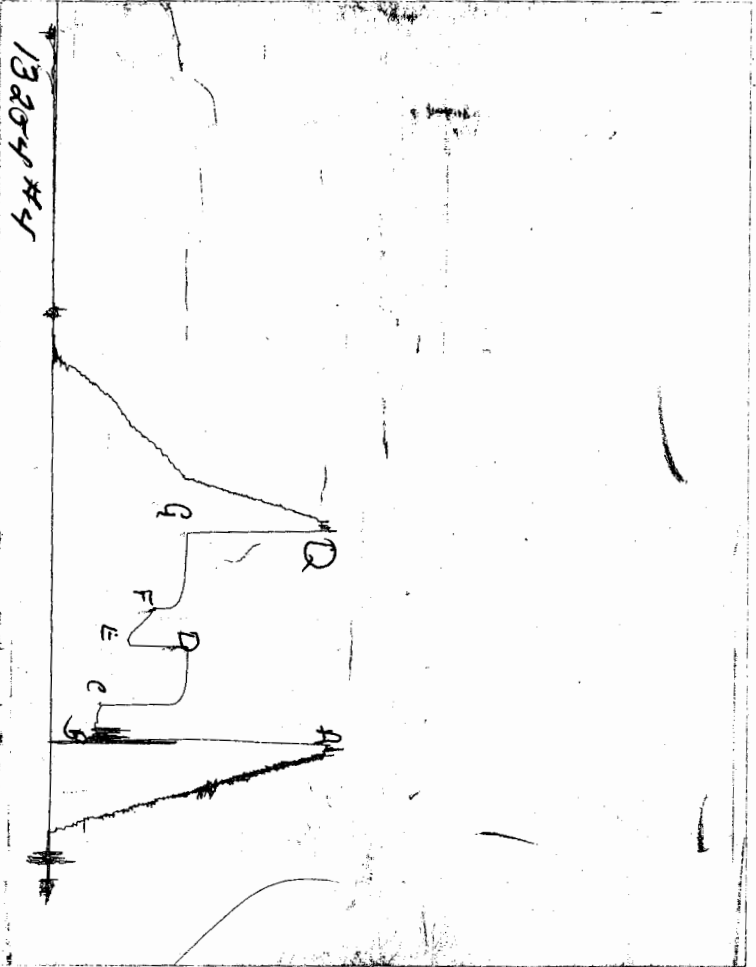
Flag Points

Flag Points	Time (Min.)	Pressure (PSig)
A	0.00	1797.69
B	0.00	262.60
C	28.50	373.93
D	45.50	896.94
E	0.00	464.42
F	29.50	708.45
G	60.50	879.40
H	0.00	1777.00



Temperature (DEG F)

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

N^o 13289

Test Ticket

Well Name & No. <u>Pfeifer # 1-8</u>	Test No. <u>4</u>	Date <u>8-8-00</u>
Company <u>Murfin Drilling Co</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>2047</u> KB <u>2042</u> GL	
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Murfin #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u>	Twp. <u>11</u>	Rge. <u>20</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3634 - 3643</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt./Lbs. <u>46,000</u>
Anchor Length <u>9</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3629</u>	Tool Weight <u>800</u>	
Bottom Packer Depth <u>3634</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3643</u>	Wt. Pipe Run _____	Drill Collar Run <u>245</u>
Mud Wt. <u>9.1</u> LCM <u>2#</u> Vis. <u>44</u> WL <u>8.4</u>	Drill Pipe Size <u>4.5 X H</u>	Ft. Run <u>3395</u>
Blow Description <u>I.F. Strong - B.O.B. in 2 min.</u>		
<u>ISI No blow back</u>		
<u>F.F. Strong - B.O.B. in 1 min.</u>		
<u>ESI Weak steady surface blow</u>		

Recovery — Total Feet <u>1751</u>	GIP <u>120</u>	Ft. in DC <u>245</u>	Ft. in DP <u>1506</u>
Rec. <u>523</u>	Feet Of <u>CGSYD</u>	10% gas 90% oil	%water %mud
Rec. <u>186</u>	Feet Of <u>OCGsy WTR</u>	10% gas 40% oil	50% water %mud
Rec. <u>992</u>	Feet Of <u>WTR w/SCUM oil t/o</u>	% gas %oil	%water %mud
Rec. _____	Feet Of _____	% gas %oil	%water %mud
Rec. _____	Feet Of _____	% gas %oil	%water %mud
BHT <u>118</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity <u>34</u> °API
RW <u>118</u>	@ <u>80</u> °F	Chlorides <u>32,000</u> ppm	Recovery Chlorides <u>6800</u> ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1764</u>	<u>1798</u>	<u>3024</u>	<u>23:30</u>
(B) First Initial Flow Pressure	<u>284</u>	<u>263</u>	(depth) <u>3636</u>	T-Started <u>00:09</u>
(C) First Final Flow Pressure	<u>319</u>	<u>374</u>	PSI Recorder No. <u>13254</u>	T-Open <u>02:11</u>
(D) Initial Shut-In Pressure	<u>863</u>	<u>897</u>	PSI (depth) <u>3640</u>	T-Pulled <u>04:56</u>
(E) Second Initial Flow Pressure	<u>485</u>	<u>464</u>	PSI Recorder No. _____	T-Out <u>08:00</u>
(F) Second Final Flow Pressure	<u>651</u>	<u>708</u>	PSI (depth) _____	T-Off Location <u>08:30</u>
(G) Final Shut-in Pressure	<u>863</u>	<u>879</u>	PSI Initial Opening <u>30</u>	Test <u>1050</u>
(Q) Final Hydrostatic Mud	<u>1740</u>	<u>1777</u>	PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>30</u>	Safety Joint _____
			Final Shut-in <u>60</u>	Straddle _____

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 _____

Our Representative Dan Sample

Extra Packer _____
 Elec. Rec. X 150
 Mileage 37 37
 Other hr 30
 TOTAL PRICE \$ 8167

TRILOBITE TESTING L.L.C.

OPERATOR : Murfin Drilling, Co. DATE 8-8-00
 WELL NAME: Pfeifer #1-8 KB 2047.00 ft TICKET NO: 13290 DST #5
 LOCATION : 8-11-20 Ellis co KS GR 2042.00 ft FORMATION: Arbuckle
 INTERVAL : 3662.00 To 3674.00 ft TD 3674.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13254	13254	3024			PF Fr. 1840 to 1910 hr
SI 45	Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 1910 to 1955 hr
SF 30	Clock(hrs)	12	12	elect			SF Fr. 1955 to 2025 hr
FS 60	Depth(ft)	3671.0	3671.0	3664.0	0.0	0.0	FS Fr. 2025 to 2125 hr

	Field	1	2	3	4	
A. Init Hydro	1822.0	1856.0	1793.0	0.0	0.0	T STARTED 1632 hr
B. First Flow	225.0	163.0	112.0	0.0	0.0	T ON BOTM 1837 hr
B1. Final Flow	627.0	629.0	661.0	0.0	0.0	T OPEN 1840 hr
C. In Shut-in	1191.0	1198.0	1197.0	0.0	0.0	T PULLED 2125 hr
D. Init Flow	698.0	704.0	667.0	0.0	0.0	T OUT 0100 hr
E. Final Flow	922.0	929.0	952.0	0.0	0.0	
F. Fl Shut-in	1179.0	1198.0	1197.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1764.0	1744.0	1718.0	0.0	0.0	Tool Wt. 800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 2356.00 ft of 245.00 ft in DC and 2111.00 ft in DP
 65.00 ft of Clean oil
 500.00 ft of Slightly oil cut water
 0.00 ft of 5% oil 95% water
 1791.00 ft of Water w/ scum of oil on top
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 30000.00 P.P.M. A.P.I. Gravity 0.00

Unseated Str Wt 49000.00 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 245.00 ft
 D.P. Length 3426.00 ft

BLOW DESCRIPTION

Initial Flow:
 Strong bottom of bucket in 1.5 minutes.
 Initial Shut-In:
 No blow back.
 Final Flow:
 Strong bottom of bucket in 2 minutes.
 Final Shut-In:
 No blow back

MUD DATA-----

Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 44.00 S/L
 W.L. 8.40 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 118.00 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 Dan Bangle
 Co. Rep. Randy Kilian
 Contr. Murfin
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Pfeifer #1-8		H	P.O. SUB	3522
		H	C.O. SUB	3642
LOCATION : 8-11-20 Ellis co KS		H	S.I. TOOL	3648
TICKET No. 13290 D.S.T. No. 5 DATE 8-8-00		H		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 20		H		
INTERVAL TOOL		H	HMV	3653
BOTTOM PACKERS AND ANCHOR 12		H	JARS n/a	
TOTAL TOOL 32		H		
DRILL COLLAR ANCHOR IN INTERVAL		H		
D.C. ANCHOR STND.Stands Single Total		H		
D.P. ANCHOR STND.Stands Single Total		H	SAFETY JOINT n/a	
TOTAL ASSEMBLY 32		H	PACKER	3657
D.C. ABOVE TOOLS.Stands4 Single Total 245		H	PACKER	3662
D.P. ABOVE TOOLS.Stands54 Single Total 3426		H	DEPTH 3662	
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3703		H	1'	3663
		H	ANCHOR Alpine @ 3664	
TOTAL DEPTH 3674		H	5' Perfs	3668
TOTAL DRILL PIPE ABOVE K.B. 29		H		
REMARKS:		H	1' Perfs	3669
		H		
		H		
		H		
		H		
		H		
		H		
		H		
		H		
		H	AK-1 @ 3671	
		H		
		H		
		H		
		H	BULLNOSE 5' Perfs	3674
		H	T.D.	3674

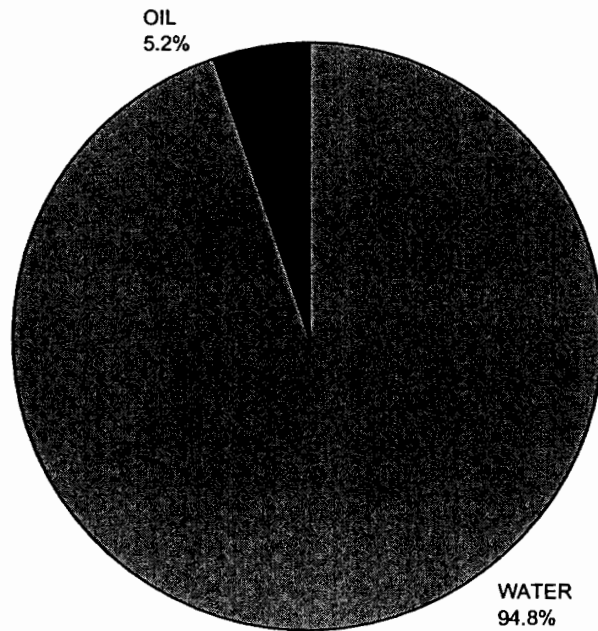
CALCULATED RECOVERY ANALYSIS

DST 5

TICKET 13290

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
DRILL	1	65	0	0	100	65	0	0	0	0
PIPE	2	500	0	0	5	25	95	0	0	0
	3	1546	0	0	0	0	100	1546	0	0
	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	1	0	0	0	0	0	0	0	0	0
PIPE	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	1	245	0	0	0	0	100	245	0	0
COLLARS	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
TOTAL		2356	0	0	0	90	0	1791	0	0

BBL OIL=	1.2798	*	HRS OPEN	1	=	BBL/DAY	30.7152
BBL WATER=	23.18217	*			=		556.37208
BBL MUD=	0						
BBL GAS =	0						

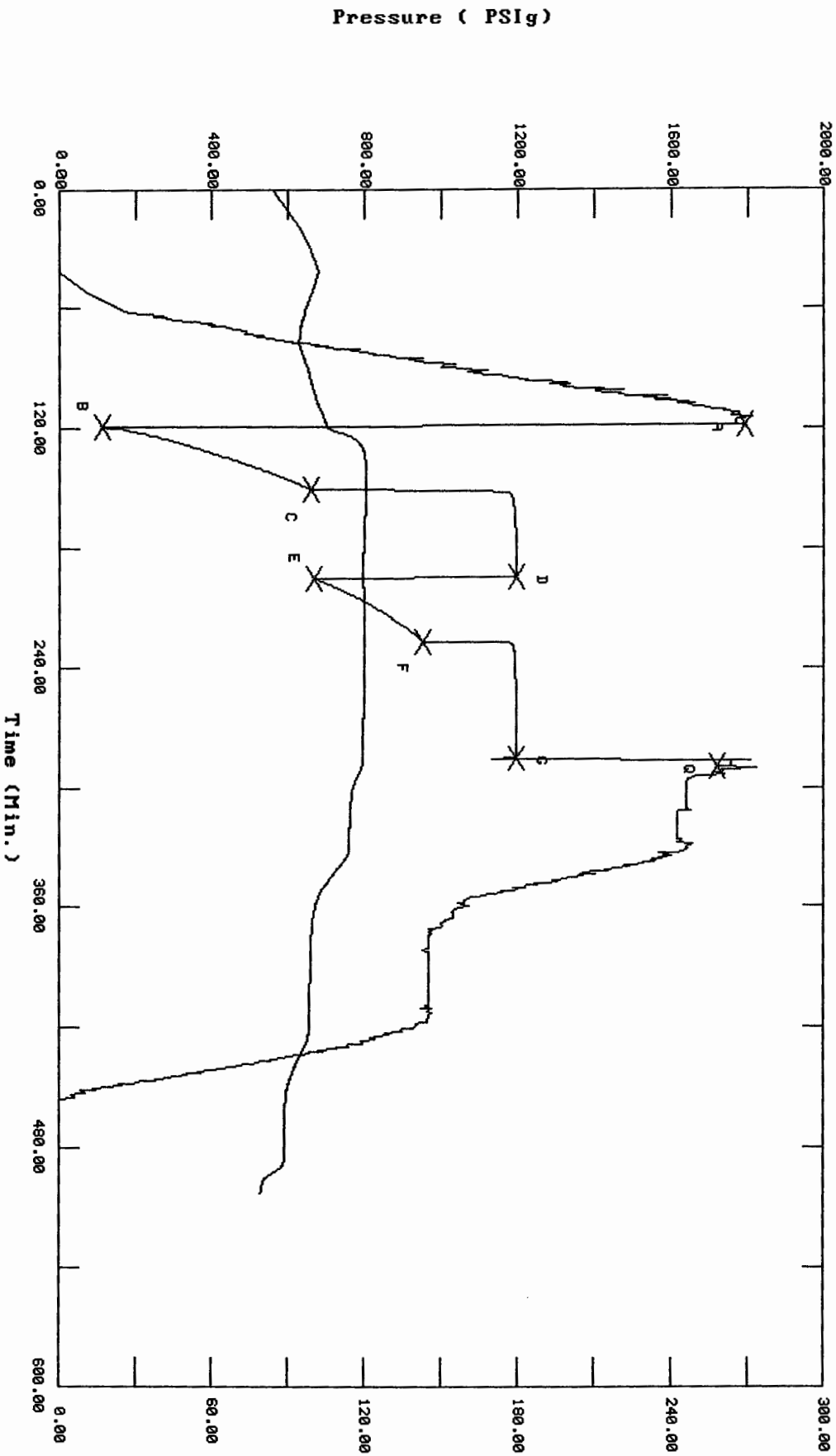


TK# 13290 DST# 5 Pfeifer #1-8 Murfin Drilling Co.

TEST HISTORY

Flag Points

	{(Min.)}	{(PSig)}
R:	0.00	1793.40
B:	0.00	111.98
C:	31.50	660.52
D:	44.00	1197.37
E:	0.00	667.01
F:	32.00	952.02
G:	58.50	1197.11
H:	0.00	1716.80



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 13290

Test Ticket

Well Name & No. <u>Pfeifer # 1-8</u>	Test No. <u>5</u>	Date <u>8-8-00</u>
Company <u>Murfin Drilling Co.</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>2047</u>	KB <u>2042</u> GL
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Murfin #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u>	Twp. <u>11</u>	Rge. <u>20</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3662 - 3674</u>	Initial Str Wt/Lbs. <u>42,000</u>	Unseated Str Wt/Lbs. <u>49,000</u>
Anchor Length <u>12</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>59,000</u>
Top Packer Depth <u>3657</u>	Tool Weight <u>800</u>	
Bottom Packer Depth <u>3662</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3674</u>	Wt. Pipe Run _____	Drill Collar Run <u>245</u>
Mud Wt. <u>9.1</u> LCM <u>2#</u> Vis. <u>44</u> WL <u>8.4</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3426</u>
Blow Description <u>I.F. Strong - B.O.B. in 1 1/2 min.</u>		
<u>ISI - No blow back</u>		
<u>F.F. - Strong - B.O.B. in 2 min.</u>		
<u>FSI - No blow back</u>		

Recovery — Total Feet <u>2356</u>	GIP _____	Ft. in DC <u>245</u>	Ft. in DP <u>2111</u>
Rec. <u>65</u> Feet Of <u>C.O.</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>500</u> Feet Of <u>SIX 1/2 OC WTR.</u>	%gas <u>5</u>	%oil _____	%water <u>95</u> %mud _____
Rec. <u>1791</u> Feet Of <u>WTR w/ SCUM OF</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of <u>oil f/o</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
BHT <u>118</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW <u>.24 @</u> <u>80</u> °F Chlorides <u>30,000</u>	ppm Recovery _____	Chlorides <u>6800</u>	ppm System _____

(A) Initial Hydrostatic Mud	AK-1 <u>1822</u>	Alpine <u>1793</u>	PSI Recorder No. <u>3024</u>	T-On Location <u>16:00</u>
(B) First Initial Flow Pressure	<u>225</u>	<u>112</u>	PSI (depth) <u>3664</u>	T-Started <u>16:32</u>
(C) First Final Flow Pressure	<u>627</u>	<u>661</u>	PSI Recorder No. <u>13254</u>	T-Open <u>18:40</u>
(D) Initial Shut-In Pressure	<u>1191</u>	<u>1197</u>	PSI (depth) <u>3671</u>	T-Pulled <u>21:25</u>
(E) Second Initial Flow Pressure	<u>698</u>	<u>667</u>	PSI Recorder No. _____	T-Out <u>01:00</u>
(F) Second Final Flow Pressure	<u>922</u>	<u>952</u>	PSI (depth) _____	T-Off Location <u>01:30</u>
(G) Final Shut-in Pressure	<u>1179</u>	<u>1197</u>	PSI Initial Opening <u>30</u>	Test <u>650</u>
(Q) Final Hydrostatic Mud	<u>1764</u>	<u>1718</u>	PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>30</u>	Safety Joint _____
			Final Shut-in <u>60</u>	Straddle _____

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Approved By _____

Our Representative Dan Bangs

Circ. Sub <u>X</u>	<u>35</u>
Sampler _____	
Extra Packer _____	
Elec. Rec. <u>X</u>	<u>150</u>
Mileage <u>37</u>	
Other <u>1.5</u>	<u>45</u>
TOTAL PRICE \$	<u>917</u>