

15-051-25040

TRILOBITE TESTING L.L.C.

25-11s-19w

OPERATOR : Mai Oil Operations

DATE 7-8-00

WELL NAME: Johnson #1

KB 2083.00 ft

TICKET NO: 13790

DST #1

LOCATION : 25-11s-19w Ellis co KS

GR 2078.00 ft

FORMATION: Topeka

INTERVAL : 3102.00 To 3130.00 ft

TD 3130.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11085	11085	13547			PF Fr. 1300 to 1345 hr
SI 45 Range(Psi)	4300.0	4300.0	4200.0	0.0	0.0	IS Fr. 1345 to 1430 hr
SF 45 Clock(hrs)	12	12	12			SF Fr. 1430 to 1515 hr
FS 45 Depth(ft)	3121.0	3121.0	3124.0	0.0	0.0	FS Fr. 1515 to 1600 hr

	Field	1	2	3	4	
A. Init Hydro	1484.0	1541.0	0.0	0.0	0.0	T STARTED 1145 hr
B. First Flow	33.0	48.0	0.0	0.0	0.0	T ON BOTM 1255 hr
B1. Final Flow	44.0	51.0	0.0	0.0	0.0	T OPEN 1300 hr
C. In Shut-in	462.0	443.0	0.0	0.0	0.0	T PULLED 1600 hr
D. Init Flow	66.0	77.0	0.0	0.0	0.0	T OUT 1800 hr
E. Final Flow	77.0	91.0	0.0	0.0	0.0	
F. Fl Shut-in	571.0	570.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1463.0	1468.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	0	0				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 36000.00 lbs
						Unseated Str Wt 36000.00 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 0.00 ft
						D.P. Length 3082.00 ft

RECOVERY

Tot Fluid 130.00 ft of 0.00 ft in DC and 130.00 ft in DP
 5.00 ft of Oil
 0.00 ft of 100% oil
 125.00 ft of Slightly oil cut muddy water
 0.00 ft of 2% oil 78% water 20% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 119000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak blow throughout. 1/4" to 2" blow

Final Flow:

Weak blow throughout. 2" blow.

MUD DATA-----

Mud Type	Chemical
Weight	9.60 lb/c
Vis.	48.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop	

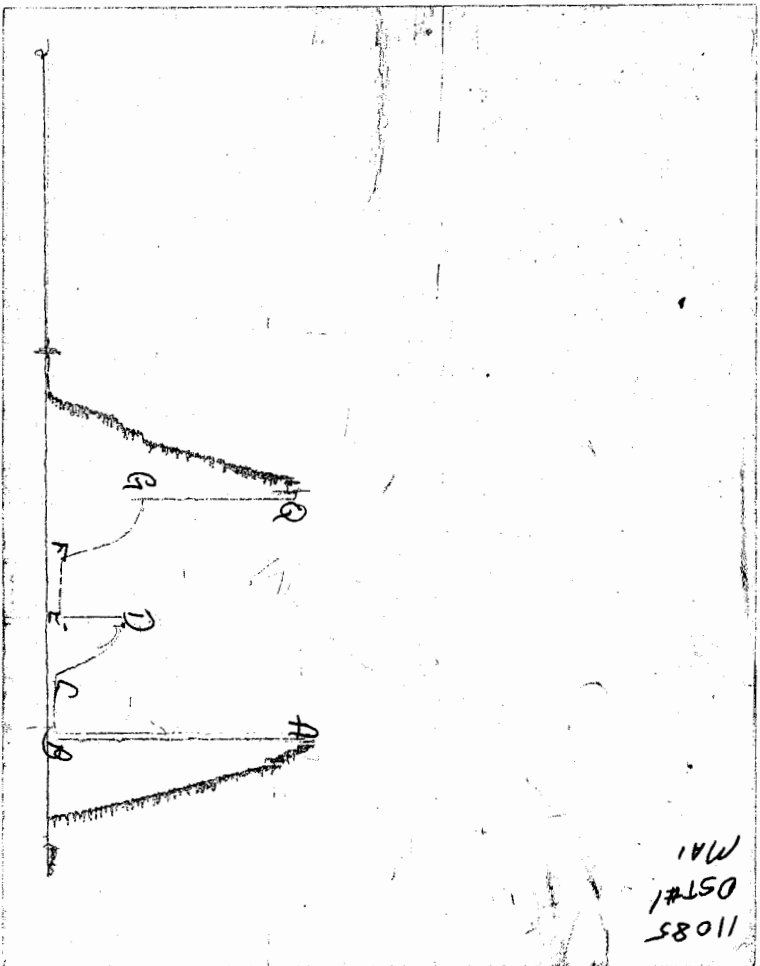
Amt. of fill	0.00 ft
Btm. H. Temp.	102.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Ray Schwager
Co. Rep.	Dave Shoemaker
Contr.	Vonfeldt
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

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 13790

Test Ticket

Well Name & No.	<u>Johnson #1</u>	Test No.	<u>1</u>	Date	<u>7-8-00</u>
Company	<u>MAI OIL OPERATIONS</u>	Zone Tested	<u>Topeka</u>		
Address	<u>P.O. Box 33 Russell, Ks 67665</u>	Elevation	<u>2083</u>	KB	<u>2078</u>
Co. Rep / Geo.	<u>DAVE SHERMAKER</u>	Cont.	<u>Unafeldt rig 1</u>	Est. Ft. of Pay	<u>-</u> Por. <u>-</u> %
Location: Sec.	<u>25</u>	Twp.	<u>11^S</u>	Rge.	<u>19^W</u> Co. <u>ELLIS</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>-</u>	Turnkey (Y, N)	<u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested	<u>3102-3130</u>	Initial Str Wt./Lbs.	<u>36000</u>	Unseated Str Wt./Lbs.	<u>36000</u>
Anchor Length	<u>28</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>55000</u>
Top Packer Depth	<u>3097</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>3102</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>3130</u>	Wt. Pipe Run	<u>-</u>	Drill Collar Run	<u>-</u>
Mud Wt. <u>9.6</u> LCM <u>-</u> Vis. <u>48</u> WL <u>9.6</u>		Drill Pipe Size	<u>4 1/2 X H</u>	Ft. Run	<u>3082</u>
Blow Description	<u>IEP - Weak Blow Throughout 1/4" To 2" Blow</u> <u>FFP - Weak Blow Throughout 2" Blow</u>				

Recovery — Total Feet	<u>130</u>	GIP	<u>-</u>	Ft. in DC	<u>-</u>	Ft. in DP	<u>130</u>
Rec. <u>5</u>	Feet Of	<u>DIL</u>	%gas	%oil	%water	%mud	
Rec. <u>125</u>	Feet Of	<u>SOC MW</u>	%gas	<u>2</u> %oil	<u>78</u> %water	<u>20</u> %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 <u>102</u>	°F Gravity	<u>-</u>	°API D@	<u>-</u>	°F Corrected Gravity	<u>-</u>	°API
RW <u>.047</u> @ <u>100</u>	°F Chlorides	<u>119000</u>	ppm Recovery	<u>6000</u>	ppm System		

(A) Initial Hydrostatic Mud	<u>1484</u>	AK-1	Alpine	PSI Recorder No.	<u>11085</u>	T-On Location	<u>1030</u>
(B) First Initial Flow Pressure	<u>33</u>			PSI (depth)	<u>3121</u>	T-Started	<u>1145</u>
(C) First Final Flow Pressure	<u>44</u>			PSI Recorder No.	<u>13547</u>	T-Open	<u>1300</u>
(D) Initial Shut-In Pressure	<u>462</u>			PSI (depth)	<u>3124</u>	T-Pulled	<u>1600</u>
(E) Second Initial Flow Pressure	<u>66</u>			PSI Recorder No.	<u>-</u>	T-Out	<u>1800</u>
(F) Second Final Flow Pressure	<u>77</u>			PSI (depth)	<u>-</u>	T-Off Location	<u>1815</u>
(G) Final Shut-in Pressure	<u>571</u>			PSI Initial Opening	<u>45</u>	Test	<u>✓</u> <u>600</u>
(Q) Final Hydrostatic Mud	<u>1463</u>			PSI Initial Shut-in	<u>45</u>	Jars	<u>-</u>
				Final Flow	<u>45</u>	Safety Joint	<u>-</u>
				Final Shut-in	<u>45</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 RAY SCHWAGER THANK YOU

Mileage -
Other -
TOTAL PRICE \$ ✓ 600

TRILOBITE TESTING L.L.C.

OPERATOR : Mai Oil Operations

DATE 7-9-00

WELL NAME: Johnson #1

KB 2083.00 ft

TICKET NO: 13791

DST #2

LOCATION : 25-11s-19w Ellis co KS

GR 2078.00 ft

FORMATION: LKC

INTERVAL : 3418.00 To 3445.00 ft

TD 3445.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11085	11085				PF Fr. 2330 to 0015 hr
SI 45 Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 0015 to 0100 hr
SF 45 Clock(hrs)	12	12				SF Fr. 0100 to 0145 hr
FS 45 Depth(ft)	3436.0	3436.0	0.0	0.0	0.0	FS Fr. 0145 to 0230 hr

	Field	1	2	3	4	
A. Init Hydro	1722.0	1753.0	0.0	0.0	0.0	T STARTED 2115 hr
B. First Flow	55.0	68.0	0.0	0.0	0.0	T ON BOTM 2325 hr
Bl. Final Flow	66.0	72.0	0.0	0.0	0.0	T OPEN 2330 hr
C. In Shut-in	767.0	784.0	0.0	0.0	0.0	T PULLED 0230 hr
D. Init Flow	77.0	110.0	0.0	0.0	0.0	T OUT 0430 hr
E. Final Flow	77.0	98.0	0.0	0.0	0.0	
F. Fl Shut-in	767.0	788.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1712.0	1750.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	0	0				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 40000.00 lbs
						Unseated Str Wt 40000.00 lbs

RECOVERY

Tot Fluid 105.00 ft of 0.00 ft in DC and 105.00 ft in DP
 60.00 ft of Gas in pipe
 10.00 ft of Oil
 0.00 ft of 100% oil
 95.00 ft of Slightly oil cut watery mud
 0.00 ft of 2% oil 45% wter 53% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	56.00 S/L
W.L.	10.80 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

Initial Flow:
 Weak blow throughout. 1/4" to 1" blow
 Final Flow:
 Weak blow throughout. 1" blow.
 Final Shut-In:
 No blow.

Amt. of fill	0.00 ft
Btm. H. Temp.	1040.00 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	Ray Schwager
Co. Rep.	Dave Shoemaker
Contr.	Vonfeldt
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

11085
05742
MAI

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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13791

Test Ticket

Well Name & No.	Johnson #1	Test No.	2	Date	7-9-00
Company	MAI Oil Operations	Zone Tested	LKC		
Address	P.O. Box 33 Russell, Ks 67665	Elevation	2083	KB	2078 GL
Co. Rep / Geo.	DAVE Shuemaker	Cont.	Unfeldt rig 1	Est. Ft. of Pay	- Por. - %
Location: Sec.	25	Twp.	11 ^s	Rge.	19 ^w
				Co.	ELLIS
				State	Ks.
No. of Copies	Reg	Distribution Sheet (Y, N)	-	Turnkey (Y, N)	-
		Evaluation (Y, N)	-		

Interval Tested	3418-3445	Initial Str Wt./Lbs.	40000	Unseated Str Wt./Lbs.	40000
Anchor Length	27	Wt. Set Lbs.	20000	Wt. Pulled Loose/Lbs.	50000
Top Packer Depth	3413	Tool Weight	2200		
Bottom Packer Depth	3418	Hole Size — 7 7/8"	yes	Rubber Size — 6 3/4"	yes
Total Depth	3445	Wt. Pipe Run	-	Drill Collar Run	-
Mud Wt.	9.4	LCM	1/4"	Vis.	56
		WL	10.8	Drill Pipe Size	4 1/2 XH
				Ft. Run	3398
Blow Description	IFP - WEAK BLOW THROUGHOUT 1/4" TO 1" BLOW				
	FFP - WEAK BLOW THROUGHOUT 1" BLOW				
	NO BLOW ON SHUT-IN				

Recovery — Total Feet	105	GIP	60	Ft. in DC	-	Ft. in DP	105
Rec.	10	Feet Of	oil	%gas		%oil	
				%water		%mud	
Rec.	95	Feet Of	SOCWM	%gas	2	%oil	45
				%water		%mud	53
Rec.		Feet Of		%gas		%oil	
				%water		%mud	
Rec.		Feet Of		%gas		%oil	
				%water		%mud	
BHT	104	°F Gravity	40	°API D@	60	°F Corrected Gravity	40
		°API					
RW	.67	@	79	°F Chlorides	100000	ppm Recovery	Chlorides 6500
				ppm System			

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	1722	PSI Recorder No.	11085	T-On Location	1930
(B) First Initial Flow Pressure	55	PSI (depth)	3436	T-Started	2115
(C) First Final Flow Pressure	66	PSI Recorder No.	13547	T-Open	2330
(D) Initial Shut-In Pressure	767	PSI (depth)	3439	T-Pulled	0230
(E) Second Initial Flow Pressure	77	PSI Recorder No.	-	T-Out	0430
(F) Second Final Flow Pressure	77	PSI (depth)	-	T-Off Location	0445
(G) Final Shut-in Pressure	767	PSI Initial Opening	45	Test	✓ 1000
(Q) Final Hydrostatic Mud	1712	PSI Initial Shut-in	45	Jars	
		Final Flow	45	Safety Joint	
		Final Shut-in	45	Straddle	

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Approved By Allen Berger
Our Representative RAY SCHWAGER Thank you

Circ. Sub _____
Sampler _____
Extra Packer _____
Elec. Rec. _____
Mileage _____
Other _____
TOTAL PRICE \$ 1000

TRILOBITE TESTING L.L.C.

OPERATOR : Mai Oil Operations

DATE 7-11-00

WELL NAME: Johnson #1

KB 2083.00 ft

TICKET NO: 13792

DST #3

LOCATION : 25-11s-19w Ellis co KS

GR 2078.00 ft

FORMATION: Arbuckle

INTERVAL : 3576.00 To 3645.00 ft

TD 3645.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11085	11085				PF Fr. 0615 to 0700 hr
SI 45 Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 0700 to 0745 hr
SF 45 Clock(hrs)	12	12				SF Fr. 0745 to 0830 hr
FS 45 Depth(ft)	3636.0	3636.0	0.0	0.0	0.0	FS Fr. 0830 to 0915 hr

	Field	1	2	3	4	
A. Init Hydro	1809.0	1831.0	0.0	0.0	0.0	T STARTED 0430 hr
B. First Flow	55.0	66.0	0.0	0.0	0.0	T ON BOTM 0610 hr
B1. Final Flow	55.0	52.0	0.0	0.0	0.0	T OPEN 0615 hr
C. In Shut-in	220.0	217.0	0.0	0.0	0.0	T PULLED 0915 hr
D. Init Flow	77.0	90.0	0.0	0.0	0.0	T OUT 1045 hr
E. Final Flow	77.0	72.0	0.0	0.0	0.0	
F. Fl Shut-in	176.0	174.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1798.0	1798.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	0	0				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 45000.00 lbs
						Unseated Str Wt 45000.00 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 0.00 ft
						D.P. Length 3556.00 ft

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP
 10.00 ft of Mud w/ show of oil
 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
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:

Weak blow died in 20 minutes.

Final Flow:

No blow.

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/c:
Vis.	47.00 S/L
W.L.	9.40 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	1070.00 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	

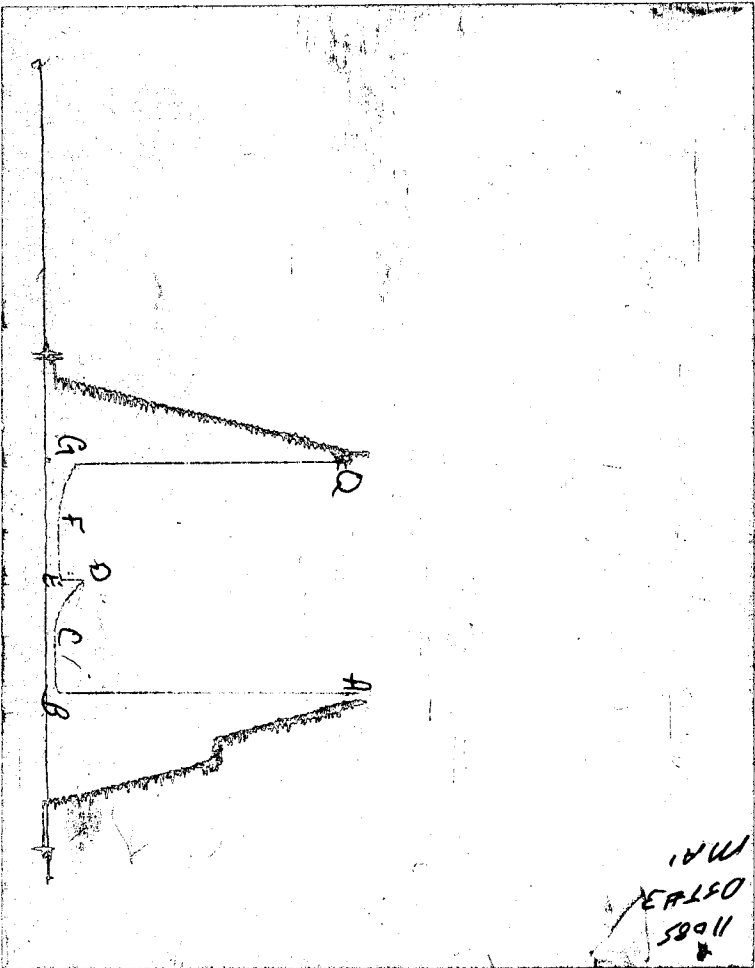
SAMPLES:

SENT TO:

Tester	Ray Schwager
Co. Rep.	Dave Shoemaker
Contr.	Vonfeldt
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

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 13792

Test Ticket

Well Name & No.	<u>Johnson #1</u>	Test No.	<u>3</u>	Date	<u>7-11-00</u>
Company	<u>MAI OIL OPERATIONS</u>	Zone Tested	<u>Arbuckle</u>		
Address	<u>P.O. Box 33 Russell, KS 67665</u>	Elevation	<u>2083</u>	KB	<u>2078</u> GL
Co. Rep / Geo.	<u>DAVE SHUEMAKER</u>	Cont.	<u>Vonfeldt rig 1</u>	Est. Ft. of Pay	<u>-</u> Por. <u>-</u> %
Location: Sec.	<u>25</u>	Twp.	<u>11^s</u>	Rge.	<u>19^w</u>
				Co.	<u>ELLIS</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>-</u>	Turnkey (Y, N)	<u>-</u>
				Evaluation (Y, N)	<u>-</u>

Interval Tested	<u>3576-3645</u>	Initial Str Wt./Lbs.	<u>45000</u>	Unseated Str Wt./Lbs.	<u>45000</u>
Anchor Length	<u>69</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>55000</u>
Top Packer Depth	<u>3571</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>3576</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>3645</u>	Wt. Pipe Run	<u>-</u>	Drill Collar Run	<u>-</u>
Mud Wt.	<u>9.4</u> LCM <u>TR</u> Vis. <u>47</u> WL <u>9.4</u>	Drill Pipe Size	<u>4 1/2 X H</u>	Ft. Run	<u>3556</u>
Blow Description	<u>IFP- WEAK Blow died in 20 min</u> <u>FFP- NO Blow</u>				

Recovery — Total Feet	<u>10</u>	GJP	<u>-</u>	Ft. in DC	<u>-</u>	Ft. in DP	<u>10</u>
Rec.	<u>10</u>	Feet Of	<u>Mud</u>	%gas	%oil	%water	%mud
Rec.		Feet Of	<u>w/show of oil</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
BHT	<u>107</u>	°F Gravity	<u>-</u>	°API D@	<u>-</u>	°F Corrected Gravity	<u>-</u>
RW	<u>-</u>	@	<u>-</u>	°F Chlorides	<u>-</u>	ppm Recovery	<u>6500</u>
				Chlorides	<u>6500</u>	ppm System	

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1809</u>	PSI Recorder No.	<u>11085</u>	T-On Location	<u>0345</u>
(B) First Initial Flow Pressure	<u>55</u>	PSI (depth)	<u>3636</u>	T-Started	<u>0430</u>
(C) First Final Flow Pressure	<u>55</u>	PSI Recorder No.	<u>13547</u>	T-Open	<u>0615</u>
(D) Initial Shut-In Pressure	<u>220</u>	PSI (depth)	<u>3639</u>	T-Pulled	<u>0915</u>
(E) Second Initial Flow Pressure	<u>77</u>	PSI Recorder No.	<u>-</u>	T-Out	<u>1045</u>
(F) Second Final Flow Pressure	<u>77</u>	PSI (depth)	<u>-</u>	T-Off Location	<u>1100</u>
(G) Final Shut-in Pressure	<u>176</u>	PSI Initial Opening	<u>45</u>	Test	<u>✓ 600</u>
(Q) Final Hydrostatic Mud	<u>1798</u>	PSI Initial Shut-in	<u>45</u>	Jars	<u>-</u>
		Final Flow	<u>45</u>	Safety Joint	<u>-</u>
		Final Shut-in	<u>45</u>	Straddle	<u>-</u>

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Approved By Dave Shue

Our Representative RAY SCHWAGER Thank you

Circ. Sub -
Sampler -
Extra Packer -
Elec. Rec. -
Mileage -
Other -

TOTAL PRICE \$ ✓ 600

TRILOBITE TESTING L.L.C.

OPERATOR : Mai Oil Operations
 WELL NAME: Johnson #1
 LOCATION : 25-11s-19w Ellis co KS
 INTERVAL : 3577.00 To 3657.00 ft

DATE 7-11-00
 KB 2083.00 ft TICKET NO: 13793 DST #4
 GR 2078.00 ft FORMATION: Arbuckle
 TD 3657.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11085	11085				PF Fr. 2130 to 2200 hr
SI 30 Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 2200 to 2230 hr
SF 10 Clock(hrs)	12	12				SF Fr. 2230 to 2240 hr
FS 0 Depth(ft)	3648.0	3648.0	0.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1755.0	1767.0	0.0	0.0	0.0	T STARTED 1900 hr
B. First Flow	66.0	92.0	0.0	0.0	0.0	T ON BOTM 2125 hr
B1. Final Flow	66.0	70.0	0.0	0.0	0.0	T OPEN 2130 hr
C. In Shut-in	517.0	533.0	0.0	0.0	0.0	T PULLED 2240 hr
D. Init Flow	66.0	82.0	0.0	0.0	0.0	T OUT 0100 hr
E. Final Flow	66.0	72.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	1722.0	1727.0	0.0	0.0	0.0	
Inside/Outside	0	0				

RECOVERY

Tot Fluid 15.00 ft of 0.00 ft in DC and 15.00 ft in DP
 15.00 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

Initial Flow:
 Weak blow 1/2" died in 26 minutes.
 Final Flow:
 No blow.

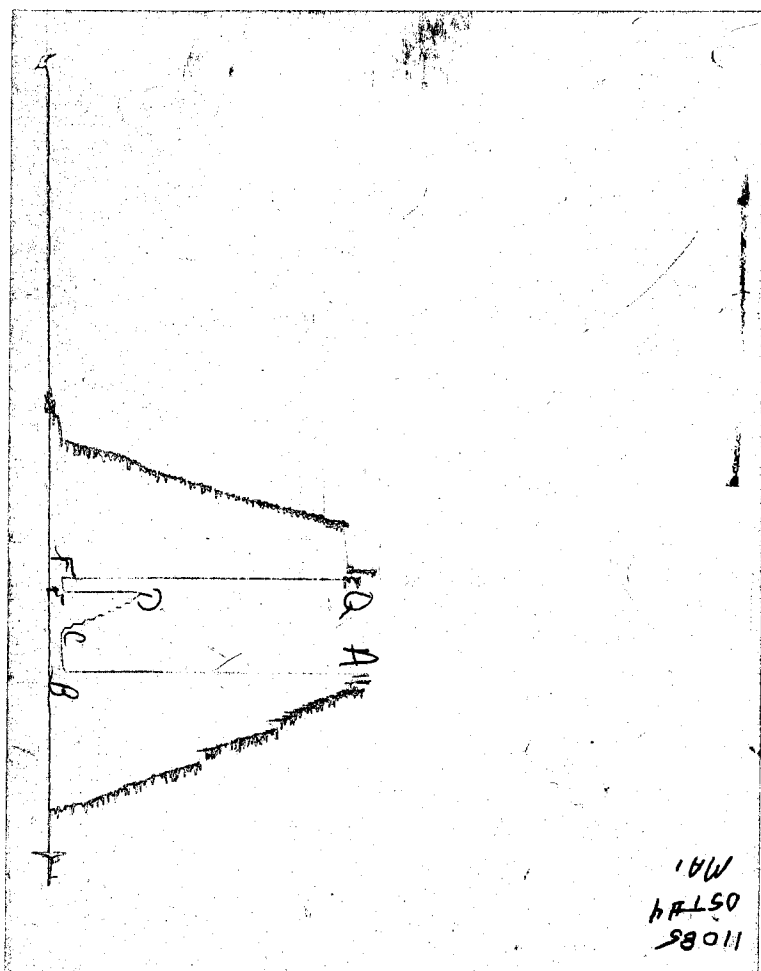
SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/c
 Vis. 47.00 S/L
 W.L. 9.40 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 1090.00 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 Ray Schwager
 Co. Rep. Dave Shoemaker
 Contr. Vonfeldt
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

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 13793

Test Ticket

Well Name & No.	<u>Johnson #1</u>		Test No.	<u>4</u>	Date	<u>7-11-00</u>
Company	<u>MAI Oil Operations</u>		Zone Tested	<u>Arbuckle</u>		
Address	<u>P.O. Box 33 Russell, Ks 67665</u>		Elevation	<u>2083</u>	KB	<u>2078</u> GL
Co. Rep / Geo.	<u>DAVE Shoemaker</u>	Cont.	<u>Wenfeldt rig 1</u>	Est. Ft. of Pay	<u>—</u>	Por. <u>—</u> %
Location: Sec.	<u>25</u>	Twp.	<u>11</u>	Rge.	<u>19</u>	Co. <u>ELLIS</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>—</u>	Turnkey (Y, N)	<u>—</u>	Evaluation (Y, N) <u>—</u>

Interval Tested	<u>3577-3657</u>	Initial Str Wt./Lbs.	<u>46000</u>	Unseated Str Wt./Lbs.	<u>46000</u>
Anchor Length	<u>80</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>55000</u>
Top Packer Depth	<u>3572</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>3577</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>3657</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>—</u>
Mud Wt. <u>9.4</u> LCM <u>TR</u> Vis. <u>47</u> WL <u>94</u>		Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3557</u>
Blow Description	<u>IFP - Weak Blow 1/2", died in 26 min</u> <u>FFP - NO BLOW</u>				

Recovery — Total Feet	<u>15</u>	GIP	<u>—</u>	Ft. in DC	<u>—</u>	Ft. in DP	<u>15</u>
Rec. <u>15</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 <u>109</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>6000</u>	ppm System	

(A) Initial Hydrostatic Mud	<u>1755</u>	AK-1	Alpine	PSI Recorder No.	<u>11085</u>	T-On Location	<u>1800</u>
(B) First Initial Flow Pressure	<u>66</u>			PSI (depth)	<u>3648</u>	T-Started	<u>1900</u>
(C) First Final Flow Pressure	<u>66</u>			PSI Recorder No.	<u>13547</u>	T-Open	<u>2130</u>
(D) Initial Shut-In Pressure	<u>517</u>			PSI (depth)	<u>3651</u>	T-Pulled	<u>2240</u>
(E) Second Initial Flow Pressure	<u>66</u>			PSI Recorder No.	<u>—</u>	T-Out	<u>0100</u>
(F) Second Final Flow Pressure	<u>66</u>			PSI (depth)	<u>—</u>	T-Off Location	<u>0130</u>
(G) Final Shut-in Pressure	<u>—</u>			PSI Initial Opening	<u>30</u>	Test	<u>✓ 600</u>
(Q) Final Hydrostatic Mud	<u>1722</u>			PSI Initial Shut-in	<u>30</u>	Jars	<u>—</u>
				Final Flow	<u>10</u>	Safety Joint	<u>—</u>
				Final Shut-in	<u>—</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 RAY Schwager Thank you

Mileage —
Other —
TOTAL PRICE \$ ✓ 600

DRILL STEM TESTS

Drill Stem Test No. 1 3102-3130 Topeka

Time Interval: 45-45-45-45

Blow: First Open - weak 14" to 2" blow

Second Open - weak 2" blow

Recovery: 5 feet of oil

125 feet of slightly oil cut muddy water

130 feet of total fluid (2% oil, 78% water, 20% mud)

Pressures:

IHMP: 1484#

IFP: 33# - 44#

ISIP: 462#

FFP: 66# - 77#

FSIP: 571#

BHT: 102 F

FHMP: 1463#

Mud Properties:

Viscosity: 48

Weight: 9.6 Water loss: 9.6

Drill Stem Test No. 2 3418-45

Lansing-Kansas City

Time Interval: 45-45-45-45

Blow: First Open - weak 1/2" to 1" blow throughout

Second Open - weak 1" blow throughout

Recovery: 60 feet of gas in pipe

10 feet of oil

95 feet of slightly oil cut watery mud

105 feet of total fluid (2% oil, 45% water, 53% mud)

Pressures:

IHMP: 1722#

IFP: 55# - 66#

ISIP: 767#

FFP: 77# - 77#

FSIP: 767#

BHT: 104 F

FHMP: 1712#

Mud Properties:

Viscosity: 56 Weight: 9.4

Water loss: 10.8

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CONSERVATION DIVISION
TOPEKA, KANSAS

DRILL STEM TESTS CONT

Drill Stem Test No. 3 3576-3645 Simpson

Time Interval: 45-45-45-45

Blow: First Open - weak - died in 20 min.

Second Open - no blow

Recovery:

10 feet of mud- with a show of oil

10 feet of total fluid

Pressures:

IHMP: 1809#

IFP: 55# - 55#

ISIP: 220#

FFP: 77# - 77#

FSIP: 176#

BHT: 107 F

FHMP: 1798#

Mud Properties: Viscosity: 47 Weight: 9.4 Water loss: 9.4

Drill Stem Tests No. 4 Arbuckle

Time Interval: 30-30-10

Blow: First Open - weak 1/2" blow died in 26 min.

Second Open - no blow

Recovery: 15 feet of mud

15 feet of total fluid

Pressures:

IHMP: 1755#

IFP: 66# - 66#

ISIP: 517#

FFP: 66# - 66#

FSIP: N.A.

BHT: 109 F

FHMP: 1722#

Mud Properties: Viscosity: 47 Weight: 9.4 Water loss: 9.4

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Wichita, Kansas

DRILLERS WELL LOG

Date Commenced: July 3, 2000

Date Completed: July 12, 2000

Mai Oil Operation, Inc.

Johnson #1

NW NW SE Sec. 25-11S-19W

Ellis County, Kansas

Elevation: 2078' G.L.

2083' K.B.

0 - 1181' Shale
 1181 - 1424' Shale & Sand
 1424 - 1444' Anhydrite
 1444 - 1565' Shale
 1565 - 2340' Lime & Shale
 2340 - 2700' Shale & Lime
 2700 - 2950' Lime & Shale
 2950 - 3130' Shale & Lime
 3130 - 3190' Lime & Shale
 3190 - 3315' Lime
 3315 - 3445' Lime & Shale
 3445 - 3530' Shale & Lime
 3530 - 3680' Lime & Shale
 3680' R.T.D.

FORMATION DATA

Anhydrite	1424'
Base Anhydrite	1444'

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CONSERVATION DIVISION
 Wichita, Kansas

Surface Pipe: Set 20#, used, 8 5/8"
 casing @ 264' with 165 sacks 60/40
 Poz., 2% Gel., 3% CC.

AFFIDAVIT

STATE OF KANSAS)
)
 COUNTY OF RUSSELL) ss:

Alan Vonfeldt of lawful age, does swear and state that the facts and statements
 herein are true and correct to the best of his knowledge.