

15-009-24499-0001

4-16s-12w

WELL NAME: Miller #1
COMPANY: Maxwell Operating Co. Inc
LOCATION: 4-16S-12W
Barton County Kansas
DATE: 12-10-96

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Operating Co.Inc
WELL NAME: Miller #1
LOCATION : 4-16S-12W Barton Cty KS
INTERVAL : 2868.00 To 2940.00 ft

DATE 12-9-96
KB 1885.00 ft
GR 1877.00 ft
TD 3362.00 ft

TICKET NO: 9751
FORMATION: Platsmouth
TEST TYPE: CONV

DST #1

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 0	Rec.	13754	13754	13249	7437		PF Fr. 1930 to hr
SI 0	Range(Psi)	4000.0	4000.0	4500.0	0.0	0.0	IS Fr. to hr
SF 0	Clock(hrs)	12 hr	12 hr	12 hr	12 hr		SF Fr. to hr
FS 0	Depth(ft)	2874.0	2874.0	2937.0	3359.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1526.0	0.0	0.0	0.0	0.0	T STARTED 1800 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 1925 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 1930 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 1945 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 2130 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	1466.0	0.0	0.0	0.0	0.0	
Inside/Outside	0	0	I	0		

RECOVERY

Tot Fluid 100.00 ft of 0.00 ft in DC and 100.00 ft in DP

100.00 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

Misrun - Tester was givin wrong
Tailpipe.

Packer Failure

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	48.00 S/L
W.L.	11.60 in3
F.C.	0.00 in
Mud Drop	

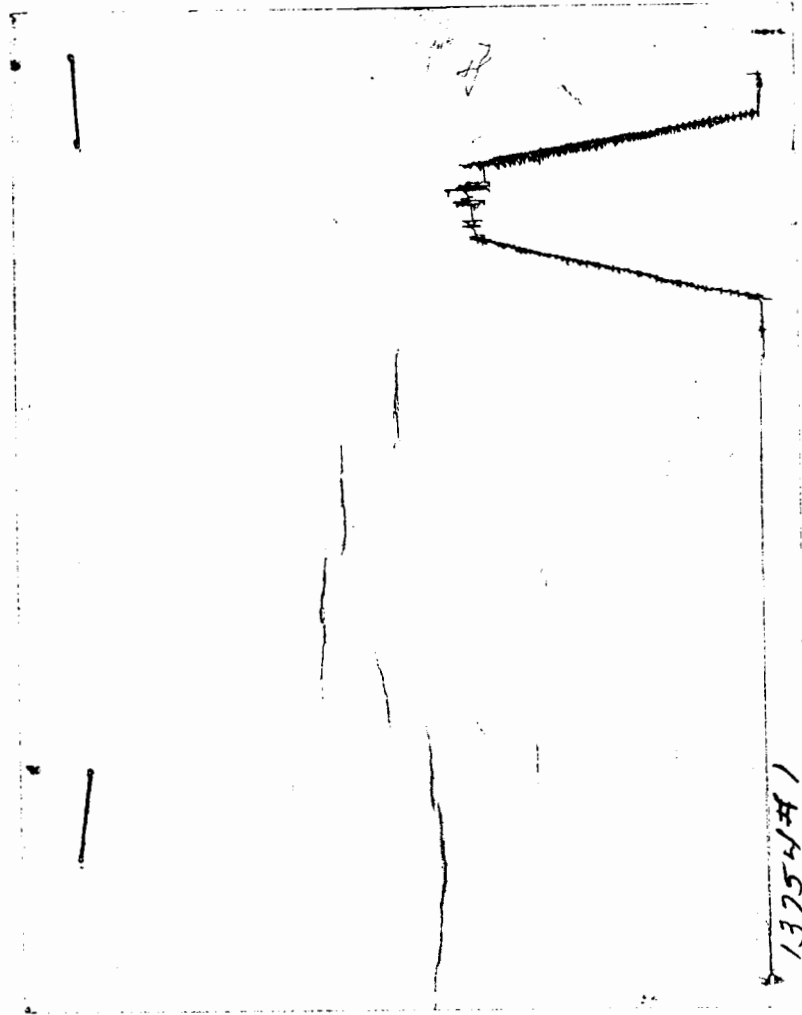
Amt. of fill	0.00 ft
Btm. H. Temp.	100.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

SAMPLES:
SENT TO:

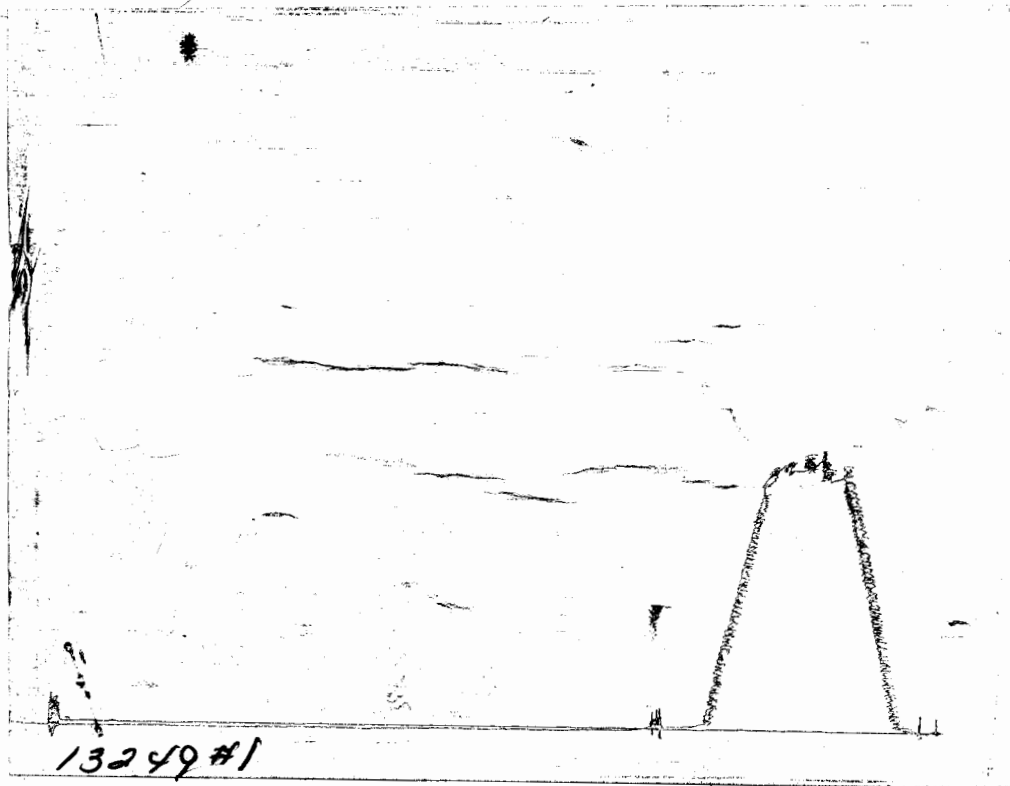
Tester	Dan Bangle
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

Test Successful: N

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

Test Ticket

No 9751

Well Name & No.	<u>Miller #1</u>	Test No.	<u>1</u>	Date	<u>12-9-96</u>
Company	<u>Maxwell Operating Co. Inc</u>	Zone Tested	<u>Platts mouth</u>		
Address	<u>1675 Broadway Suite 500, Denver, Colo. 80202</u>		Elevation	<u>1885</u>	KB <u>1877</u> GL
Co. Rep / Geo.	<u>Ren Nelson</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>4</u>	Twp.	<u>16</u>	Rge.	<u>12</u>
		Co.	<u>Barton</u>	State	<u>Ks.</u>
No. of Copies	<u>4</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u>
		Evaluation (Y, N)			

Interval Tested	<u>2868 - 2940</u>	Initial Str Wt./Lbs.	<u>38,000</u>	Unseated Str Wt./Lbs.	<u>38,000</u>
Anchor Length	<u>72</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>38,000</u>
Top Packer Depth	<u>2868</u>	Tool Weight	<u>2000</u>		
Bottom Packer Depth	<u>2940</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>3368</u>	Wt. Pipe Run		Drill Collar Run	
Mud Wt.	<u>9.2</u> LCM <u>1#</u> Vis. <u>48</u> WL <u>11.6</u>	Drill Pipe Size	<u>4.5 XH</u>	Ft. Run	<u>3283</u>
Blow Description	<u>Mission</u> <u>Was told wrong tail pipe</u> <u>Packer failure</u>				

Recovery — Total Feet	<u>100</u>	GIP		Ft. in DC		Ft. in DP	<u>100</u>
Rec.	Feet Of	%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		
Rec.	Feet Of	%gas	%oil	%water	%mud		
BHT	<u>100</u> °F Gravity	°API D@		°F Corrected Gravity		°API	
RW	@	°F Chlorides		ppm Recovery	Chlorides <u>5000</u>	ppm System	
(A) Initial Hydrostatic Mud	<u>1526</u>	PSI Recorder No.	<u>13254</u>	T-Started	<u>18:00</u>		
(B) First Initial Flow Pressure		PSI (depth)	<u>2874</u>	T-Open	<u>19:30</u>		
(C) First Final Flow Pressure		PSI Recorder No.	<u>13249</u>	T-Pulled	<u>19:45</u>		
(D) Initial Shut-in Pressure		PSI (depth)	<u>2937</u>	T-Out	<u>20:30</u>		
(E) Second Initial Flow Pressure		PSI Recorder No.	<u>2437</u>				
(F) Second Final Flow Pressure		PSI (depth)	<u>3359</u>				
(G) Final Shut-in Pressure		PSI Initial Opening		Test	<u>Mission 400</u>		
(H) Final Hydrostatic Mud	<u>1466</u>	PSI Initial Shut-in		Jars			

Final Flow		Safety Joint	
Final Shut-in		Straddle	<u>X 250</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 _____
Our Representative Dan Bangle

54 stds

Circ. Sub	
Sampler	
Extra Packer	<u>X 150</u>
Elect. Rec.	
Other	
TOTAL PRICE \$	<u>800</u>

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Operating Co.Inc
WELL NAME: Miller #1
LOCATION : 4-16S-12W Barton Cty KS
INTERVAL : 2868.00 To 2940.00 ft

DATE 12-9-96
KB 1885.00 ft TICKET NO: 9752 DST #2
GR 1877.00 ft FORMATION: Platsmouth
TD 3362.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	13754	13754	13249	7437		PF Fr. 2230 to hr
SI 0 Range(Psi)	4000.0	4000.0	4500.0	0.0	0.0	IS Fr. to hr
SF 0 Clock(hrs)	12 hr	12 hr	12 hr	12 hr		SF Fr. to hr
FS 0 Depth(ft)	2874.0	2874.0	2937.0	3359.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1536.0	0.0	0.0	0.0	0.0	T STARTED 2150 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 2225 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 2230 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 2245 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 2440 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1436.0	0.0	0.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I	0		Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 38000.00 lbs
						Initial Str Wt 38000.00 lbs
						Unseated Str Wt 38000.00 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 3291.00 ft

RECOVERY

Tot Fluid 180.00 ft of 0.00 ft in DC and 180.00 ft in DP
180.00 ft of Drilling 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

Misrun - Could not get packer seat
Packer Failure

MUD DATA-----

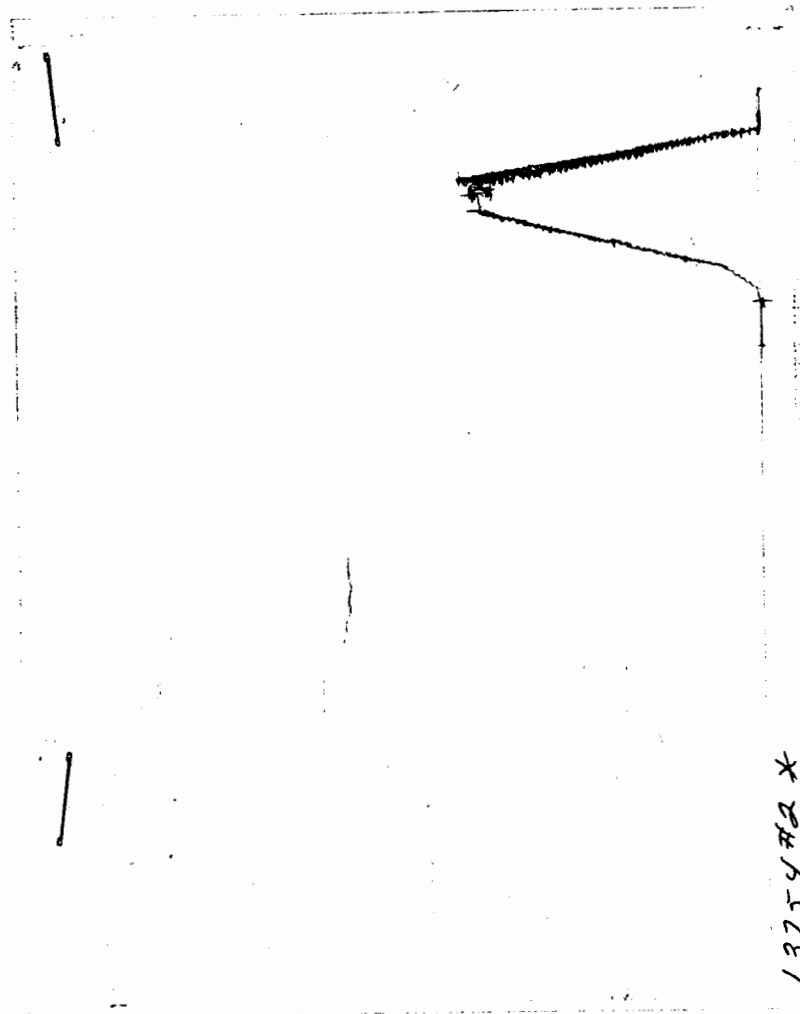
Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	48.00 S/L
W.L.	11.60 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	100.00 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	Dan Bangle
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

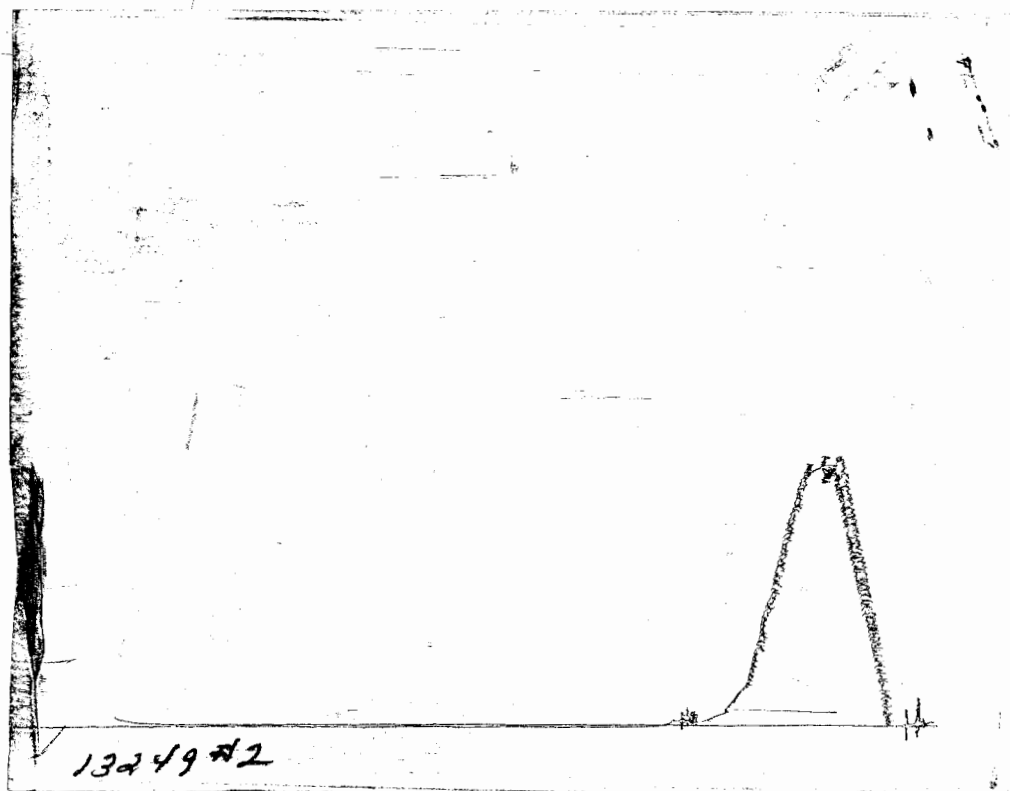
SAMPLES:
SENT TO:

Test Successful: N

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

Test Ticket

No 9752

Well Name & No. <u>Miller #1</u>	Test No. <u>2</u>	Date <u>12-9-96</u>
Company <u>Maxwell Operating Co. Inc</u>	Zone Tested <u>Platts mouth</u>	
Address _____	Elevation <u>1885</u> KB <u>1477</u> GL	
Co. Rep / Geo. <u>Ken Nelson</u>	Cont. <u>Discovery #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u> Twp. <u>16</u> Rge. <u>12</u>	Co. <u>Barton</u> State <u>Ks</u>	
No. of Copies <u>4</u> Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>2868-2940</u>	Initial Str Wt./Lbs. <u>38000</u>	Unseated Str Wt./Lbs. <u>38000</u>
Anchor Length <u>72</u>	Wt. Set Lbs. <u>39000</u>	Wt. Pulled Loose/Lbs. <u>38000</u>
Top Packer Depth <u>2868</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>2940</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"	
Total Depth <u>3362</u>	Wt. Pipe Run _____ Drill Collar Run _____	
Mud Wt. <u>9.2</u> LCM <u>1#</u> Vis. <u>48</u> WL <u>11.6</u>	Drill Pipe Size <u>4.5 XH</u> Ft. Run <u>3291</u>	
Blow Description <u>Miscun - Could not get packer seat.</u>		
<u>Packer failure</u>		

Recovery — Total Feet <u>180</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>180</u>
Rec. <u>180</u> Feet Of <u>D.M.</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 _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
BHT <u>100</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F Chlorides _____	ppm Recovery _____	Chlorides <u>5,000</u>	ppm System _____
(A) Initial Hydrostatic Mud <u>1536</u>	PSI Recorder No. <u>13754</u>	T-Started <u>21:50</u>	
(B) First Initial Flow Pressure _____	PSI (depth) <u>2874</u>	T-Open <u>22:30</u>	
(C) First Final Flow Pressure _____	PSI Recorder No. <u>13249</u>	T-Pulled <u>22:45</u>	
(D) Initial Shut-in Pressure _____	PSI (depth) <u>2937</u>	T-Out <u>24:40</u>	
(E) Second Initial Flow Pressure _____	PSI Recorder No. <u>3359</u>		
(F) Second Final Flow Pressure _____	PSI (depth) <u>3359</u>		
(G) Final Shut-in Pressure _____	PSI Initial Opening _____	Test <u>Miscun 400</u>	
(H) Final Hydrostatic Mud <u>1436</u>	PSI Initial Shut-in _____	Jars _____	

Final Flow _____	Safety Joint _____
Final Shut-in _____	Straddle <u>X</u> <u>250</u>

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54 STDS

Approved By _____
Our Representative Dan Bangle

Circ. Sub _____
Sampler _____
Extra Packer <u>X</u> <u>150</u>
Elect. Rec. _____
Other _____
TOTAL PRICE \$ <u>800</u>

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Operating Co Inc
WELL NAME: Miller #1
LOCATION : 4-16S-12W Barton Cty KS
INTERVAL : 2818.00 To 2940.00 ft

DATE 12-10-96
KB 1885.00 ft TICKET NO: 9753 DST #3
GR 1877.00 ft FORMATION: Plattsouth
TD 3362.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF	0 Rec.	13754	13754	13249	7437		PF Fr. 0200 to hr
SI	0 Range(Psi)	4000.0	4000.0	4500.0	0.0	0.0	IS Fr. to hr
SF	0 Clock(hrs)	12 hr	12 hr	12 hr	12 hr		SF Fr. to hr
FS	0 Depth(ft)	2825.0	2825.0	2937.0	3359.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1436.0	0.0	0.0	0.0	0.0	T STARTED 2450 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 0155 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 0200 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0205 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0330 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1386.0	0.0	0.0	0.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	0	0	I	O		Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 38000.00 lbs
						Initial Str Wt 38000.00 lbs
						Unseated Str Wt 38000.00 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 3296.00 ft

RECOVERY

Tot Fluid 180.00 ft of 0.00 ft in DC and 180.00 ft in DP
180.00 ft of Drilling 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

Misrun - Packer Failure

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	48.00 S/L
W.L.	11.60 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	100.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

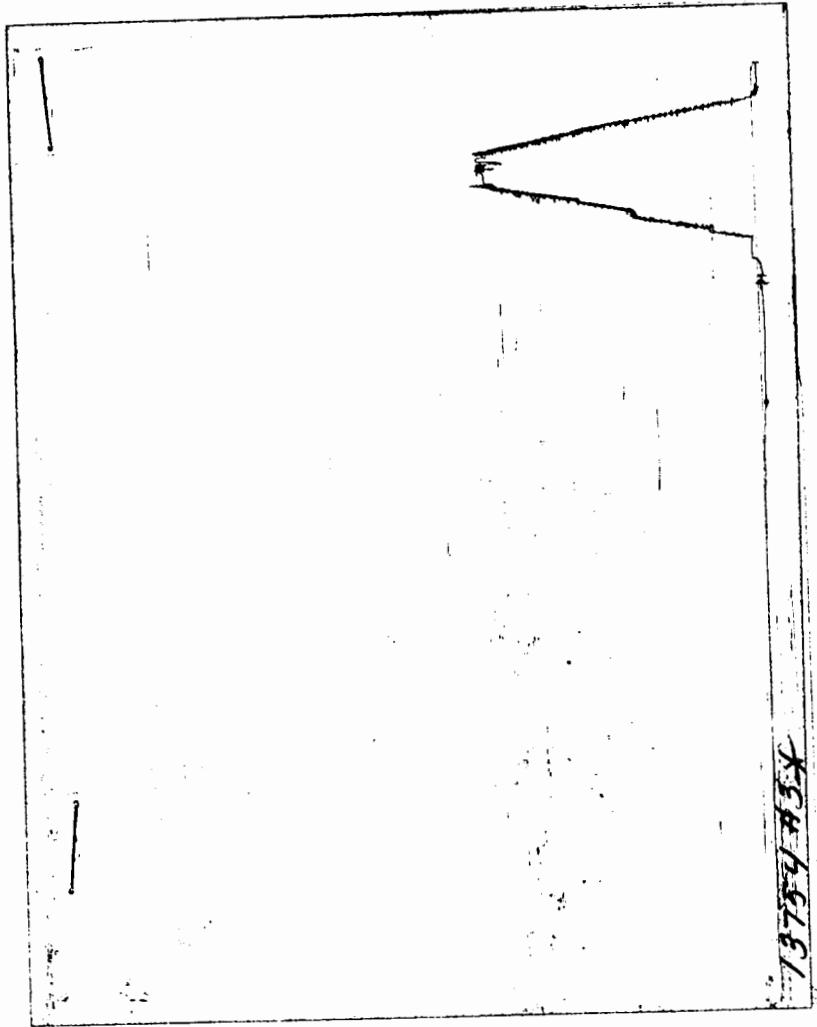
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

SAMPLES:

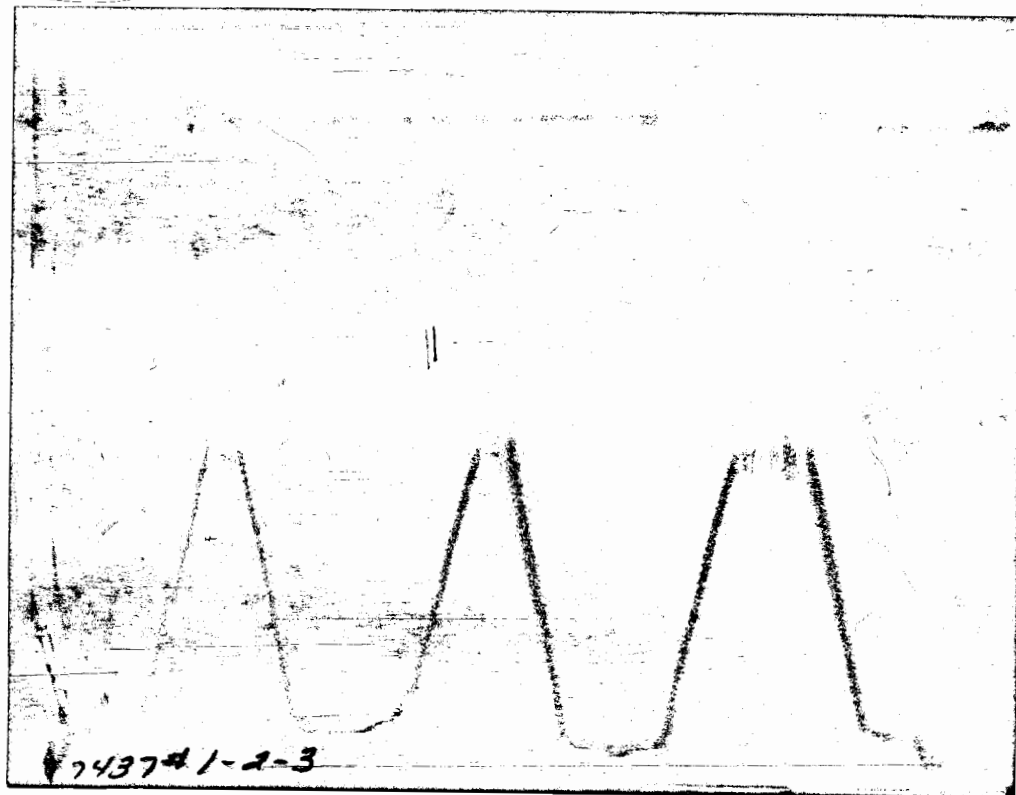
SENT TO:

Test Successful: N

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

Test Ticket

No 9753

Well Name & No.	<u>Miller #1</u>	Test No.	<u>3</u>	Date	<u>9-10-96</u>
Company	<u>Maxwell Operating Co. Inc.</u>		Zone Tested	<u>Platts mouth</u>	
Address			Elevation	<u>1885</u>	KB <u>1877</u> GL
Co. Rep / Geo.	<u>Ron Nelson</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>4</u>	Twp.	<u>16</u>	Rge.	<u>12</u>
				Co.	<u>Barton</u> State <u>Ks.</u>
No. of Copies	<u>4</u>	Distribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	<u>2818 - 2940</u>	Initial Str Wt./Lbs.	<u>38,000</u>	Unseated Str Wt./Lbs.	<u>38,000</u>
Anchor Length	<u>122</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>38,000</u>
Top Packer Depth	<u>2818</u>	Tool Weight	<u>2500</u>		
Bottom Packer Depth	<u>2940</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>3362</u>	Wt. Pipe Run		Drill Collar Run	
Mud Wt. <u>9.2</u> LCM <u>1#</u> Vis. <u>48</u> WL <u>11.6</u>		Drill Pipe Size	<u>4.5XH</u>	Ft. Run	<u>3296</u>
Blow Description	<u>Misc run</u>				
	<u>Packer Failure</u>				

Recovery — Total Feet	<u>180</u>	GIP		Ft. in DC		Ft. in DP	<u>180</u>
Rec.	<u>180</u>	Feet Of	<u>D.M.</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
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>100</u>	°F Gravity		°API D@		°F Corrected Gravity	
RW		@		°F Chlorides		ppm Recovery	Chlorides <u>5000</u> ppm System
(A) Initial Hydrostatic Mud	<u>1496</u>	PSI	Recorder No.	<u>13754</u>	T-Started	<u>24:50</u>	
(B) First Initial Flow Pressure		PSI	(depth)	<u>2825</u>	T-Open	<u>02:00</u>	
(C) First Final Flow Pressure		PSI	Recorder No.	<u>13249</u>	T-Pulled	<u>02:05</u>	
(D) Initial Shut-in Pressure		PSI	(depth)	<u>2937</u>	T-Out	<u>03:20</u>	
(E) Second Initial Flow Pressure		PSI	Recorder No.	<u>137437</u>			
(F) Second Final Flow Pressure		PSI	(depth)	<u>3359</u>			
(G) Final Shut-in Pressure		PSI	Initial Opening		Test	<u>400</u>	
(H) Final Hydrostatic Mud	<u>1386</u>	PSI	Initial Shut-in		Jars		

Final Flow		Safety Joint	
Final Shut-in		Straddle	<u>X 250</u>

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Approved By _____

Our Representative Dan Rangle

Circ. Sub	
Sampler	
Extra Packer	<u>X 150</u>
Elect. Rec.	
Other	
TOTAL PRICE \$	<u>800</u>