

15-155-21439

13-26s-9w

**Well Name:** Cole #2  
**Company:** R & B Oil & Gas  
**Location:** 13-26s-9w  
Reno county Kansas  
**Date:** 10-6-99

TRILOBITE TESTING L.L.C.

OPERATOR : R&B Oil & Gas  
 WELL NAME: Cole #2  
 LOCATION : 13-26s-9w Reno co KS  
 INTERVAL : 2177.00 To 2227.00 ft

DATE 10-01-99  
 KB 1649.00 ft  
 GR 1640.00 ft  
 TD 2227.00 ft

TICKET NO: 12379 DST #1  
 FORMATION: Indian Cave  
 TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10248	10248	2342		PF Fr. 1632 to 1702 hr
SI 45	Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0 IS Fr. 1702 to 1747 hr
SF 30	Clock(hrs)	12 hr	12 hr	batt.		SF Fr. 1747 to 1817 hr
FS 45	Depth(ft )	2224.0	2224.0	2189.0	0.0	0.0 FS Fr. 1817 to 1902 hr

	Field	1	2	3	4	
A. Init Hydro	1023.0	1046.0	981.0	0.0	0.0	T STARTED 1448 hr
B. First Flow	30.0	43.0	31.0	0.0	0.0	T ON BOTM 1625 hr
B1. Final Flow	82.0	70.0	77.0	0.0	0.0	T OPEN 1632 hr
C. In Shut-in	621.0	621.0	622.0	0.0	0.0	T PULLED 1904 hr
D. Init Flow	85.0	94.0	74.0	0.0	0.0	T OUT 2026 hr
E. Final Flow	109.0	102.0	103.0	0.0	0.0	
F. Fl Shut-in	593.0	603.0	610.0	0.0	0.0	
G. Final Hydro	983.0	983.0	972.0	0.0	0.0	
Inside/Outside	0	0	I	T		

TOOL DATA-----

Tool Wt.	2100.00 lbs
Wt Set On Packer	22000.00 lbs
Wt Pulled Loose	46000.00 lbs
Initial Str Wt	26000.00 lbs
Unseated Str Wt	27000.00 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	2174.00 ft

RECOVERY

Tot Fluid 180.00 ft of 0.00 ft in DC and 180.00 ft in DP  
 120.00 ft of Gas in Pipe. Faint oder.  
 180.00 ft of Drilling mud 14% water 86% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw n.c. ohms @ degrees F.  
 0.00 ft of EST.FT. of PAY-----10  
 SALINITY 2000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	8.80 lb/cf
Vis.	42.00 S/L
W.L.	13.40 in3
F.C.	0.20 in

BLOW DESCRIPTION

Initial Flow:  
 Fair to strong blow bottom of bucket  
 in 8 mins.  
 Initial Shut-in:  
 No blow.  
 Final Flow:  
 Strong blow bottom of bucket in  
 3.5 mins.  
 Final Shut-in:  
 No blow

Mud Drop N

Amt. of fill	13.00 ft
Btm. H. Temp.	87.00 F
Hole Condition	Fair
% Porosity	14.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased Y	12.00 ft
Tester	Gary Pevoteaux
Co. Rep.	Wes Hansen
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 0 #/bl

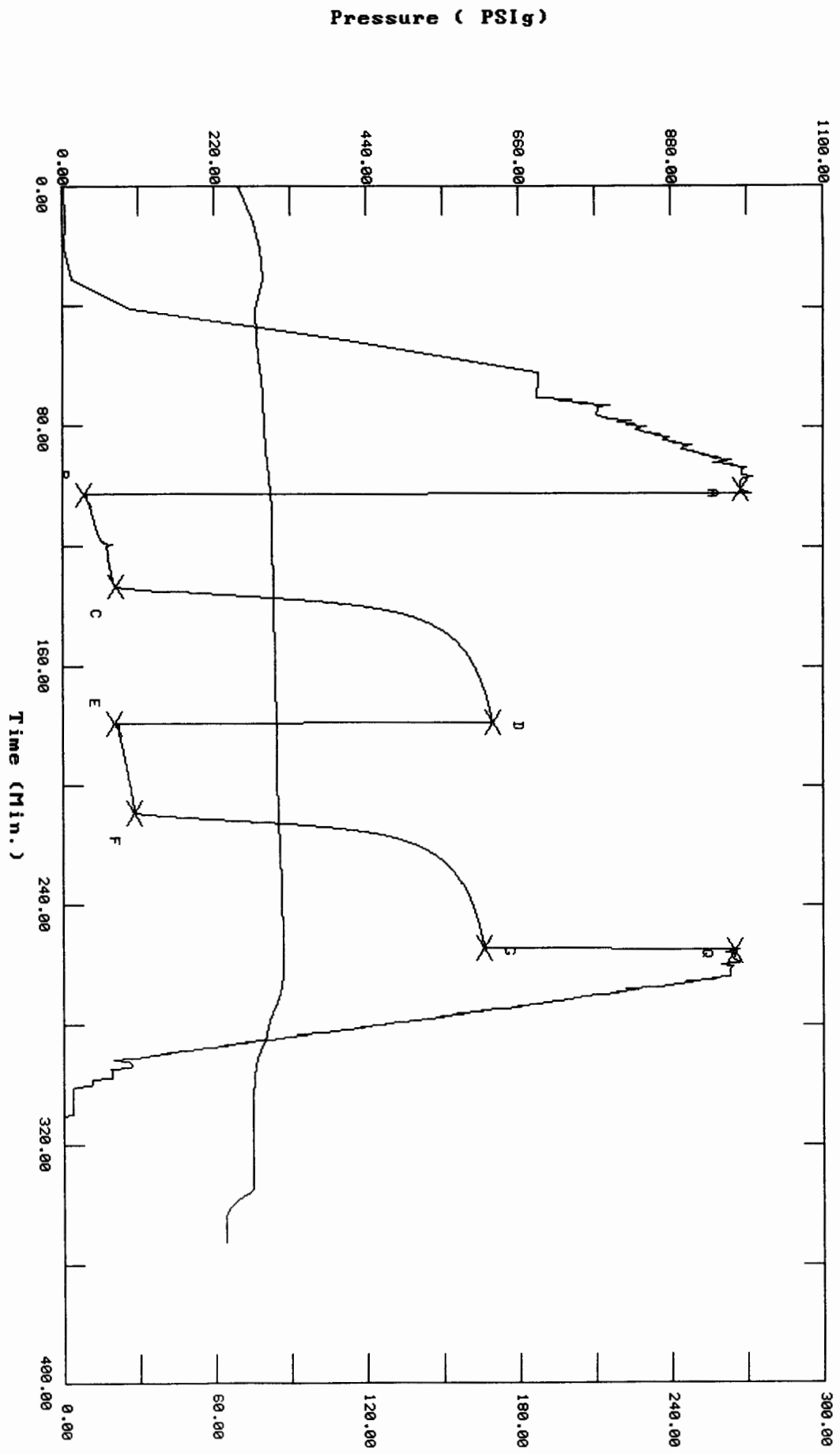
SAMPLES: none  
 SENT TO: Caraway/Liberal

Test Successful: Y



# TEST HISTORY

12379 DST#1 COLE #2 R&B OIL & GAS

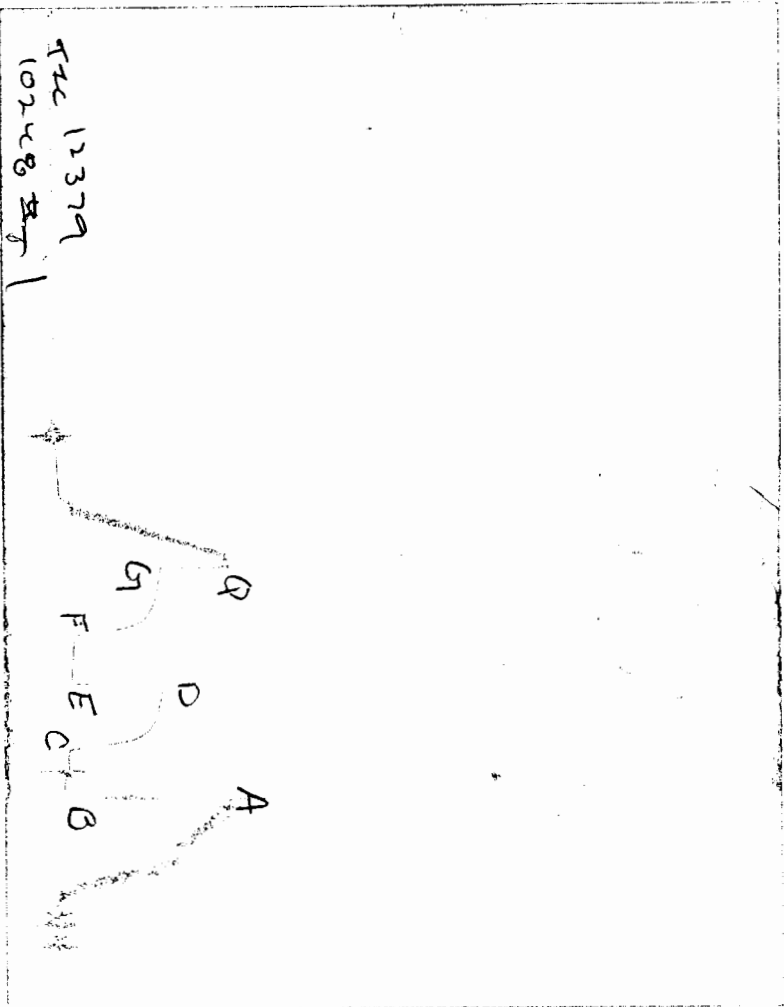


Temperature (DEG F)

Time (Min.)

Pressure (PSIg)

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 12379

## Test Ticket

Well Name & No. <u>Cole #2</u>	Test No. <u>1</u>	Date <u>10-1-99</u>
Company <u>R &amp; B Oil &amp; Gas</u>	Zone Tested <u>INDIAN CREEK</u>	
Address <u>P.O. Box 195, ATTICA KS. 67009</u>	Elevation <u>1649</u> KB <u>1640GL</u>	
Co. Rep / Geo. <u>Wes Hansen</u>	Cont. <u>Duke Drilling #4</u>	Est. Ft. of Pay <u>10</u> Por. <u>    </u> %
Location: Sec. <u>13</u> Twp. <u>26S</u> Rge. <u>9W</u>	Co. <u>RAW</u> State <u>KS.</u>	
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>?</u>	Evaluation (Y, N) <u>    </u>

Interval Tested <u>2177 - 2227'</u>	Initial Str Wt./Lbs. <u>26,000</u>	Unseated Str Wt./Lbs. <u>27,000</u>
Anchor Length <u>50'</u>	Wt. Set Lbs. <u>27,000</u>	Wt. Pulled Loose/Lbs. <u>46,000</u>
Top Packer Depth <u>2172'</u>	Tool Weight <u>2100 #</u>	
Bottom Packer Depth <u>2177'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>2227'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>None</u>

Mud Wt. 8.8 LCM ~ Vis. 42 WL 13.4 cc. Drill Pipe Size 4 1/2" x 14' Ft. Run 2174'

Blow Description IF: Fair to strong blow. Btm of bucket in 8 mins  
ISI: No blow.

FF: Strong blow Btm of bucket in 3 1/2 mins. FSI: No blow.  
Conn. 12" of solid fill on bottom. 12 ft. to bit.

Recovery — Total Feet <u>180</u>	GIP <u>120'</u>	Ft. in DC <u>    </u>	Ft. in DP <u>180</u>
Rec. <u>180</u> Feet Of <u>Drily Mud</u>	%gas <u>    </u>	%oil <u>14</u>	%water <u>86</u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>

BHT 87 °F Gravity N/A °API D@      °F Corrected Gravity N/A °API

RW      @      °F Chlorides 2,000 ppm Recovery Chlorides 2,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1023</u>	<u>981</u>	<u>2342</u>	<u>1320</u>
(B) First Initial Flow Pressure	<u>30</u>	<u>31</u>	(depth) <u>2189'</u>	T-Started <u>1445</u>
(C) First Final Flow Pressure	<u>82</u>	<u>77</u>	PSI Recorder No. <u>10249</u>	T-Open <u>1632</u>
(D) Initial Shut-In Pressure	<u>621</u>	<u>622</u>	(depth) <u>2224'</u>	T-Pulled <u>1704</u>
(E) Second Initial Flow Pressure	<u>85</u>	<u>74</u>	PSI Recorder No. <u>    </u>	T-Out <u>2020</u>
(F) Second Final Flow Pressure	<u>109</u>	<u>103</u>	(depth) <u>    </u>	T-Off Location <u>2110</u>
(G) Final Shut-in Pressure	<u>513</u>	<u>610</u>	PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>600</u>
(Q) Final Hydrostatic Mud	<u>983</u>	<u>972</u>	PSI Initial Shut-in <u>45</u>	Jars <u>    </u>
			Final Flow <u>30</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
			Final Shut-in <u>45</u>	Straddle <u>    </u>
			<u>4</u>	Circ. Sub <u>    </u>
			<u>1</u>	Sampler <u>    </u>
				Extra Packer <u>    </u>
				Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
				Mileage <u>    </u>
				Other <u>    </u>
				TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>800</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 Wes Hansen

Our Representative Craig Pawlenty

TRILOBITE TESTING L.L.C.

OPERATOR : R&B Oil & Gas DATE 10-02-99  
 WELL NAME: Cole #2 KB 1649.00 ft TICKET NO: 12380 DST #2  
 LOCATION : 13-26s-9w Reno co KS GR 1640.00 ft FORMATION: Tarkio  
 INTERVAL : 2378.00 To 2424.00 ft TD 2424.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10248	10248	2342			PF Fr. 1155 to 1225 hr
SI 45	Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1225 to 1310 hr
SF 30	Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1310 to 1340 hr
FS 30	Depth(ft)	2421.0	2421.0	2390.0	0.0	0.0	FS Fr. 1340 to 1410 hr

	Field	1	2	3	4	
A. Init Hydro	1154.0	1154.0	1116.0	0.0	0.0	T STARTED 1028 hr
B. First Flow	44.0	59.0	37.0	0.0	0.0	T ON BOTM 1150 hr
B1. Final Flow	50.0	70.0	49.0	0.0	0.0	T OPEN 1155 hr
C. In Shut-in	769.0	771.0	758.0	0.0	0.0	T PULLED 1413 hr
D. Init Flow	69.0	93.0	59.0	0.0	0.0	T OUT 1530 hr
E. Final Flow	85.0	100.0	85.0	0.0	0.0	
F. Fl Shut-in	701.0	718.0	703.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1099.0	1106.0	1074.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 36000.00 lbs
						Initial Str Wt 27000.00 lbs
						Unseated Str Wt 28000.00 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 2361.00 ft

RECOVERY

Tot Fluid 140.00 ft of 0.00 ft in DC and 140.00 ft in DP  
 0.00 ft of Gas in all fluid free pipe.  
 80.00 ft of Gas cut mud 10% gas 90% mud  
 60.00 ft of Muddy water 35% mud 65% water  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw .13 ohms @ 67 degrees F.  
 0.00 ft of EST.FT. of PAY-----5  
 SALINITY 58000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	60.00 S/L
W.L.	8.80 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	90.00 F
Hole Condition	Fair
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Wes Hansen
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 0 #/bl

BLOW DESCRIPTION

Initial Flwo:  
 Strong blow gas to surface in 15 mins  
 (see gas volume report)  
 Initial Shut-in:  
 Weak blow. (1/2")  
 Final Flow:  
 Strong blow (see gas volume report)  
 Final Shut-in:  
 No blow

SAMPLES: none  
 SENT TO: Caraway/Liberal

Test Successful: Y



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

WELL NAME: Cole #2

LOCATION : 13-26s-9w Reno co KS

TICKET No. 12380 D.S.T. No. 2 DATE 10-02-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 22

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 14

TOTAL TOOL ..... 36

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY ..... 68

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands35 Single Total 2361

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 2429

TOTAL DEPTH ..... 2424

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

REMARKS:

Comments:

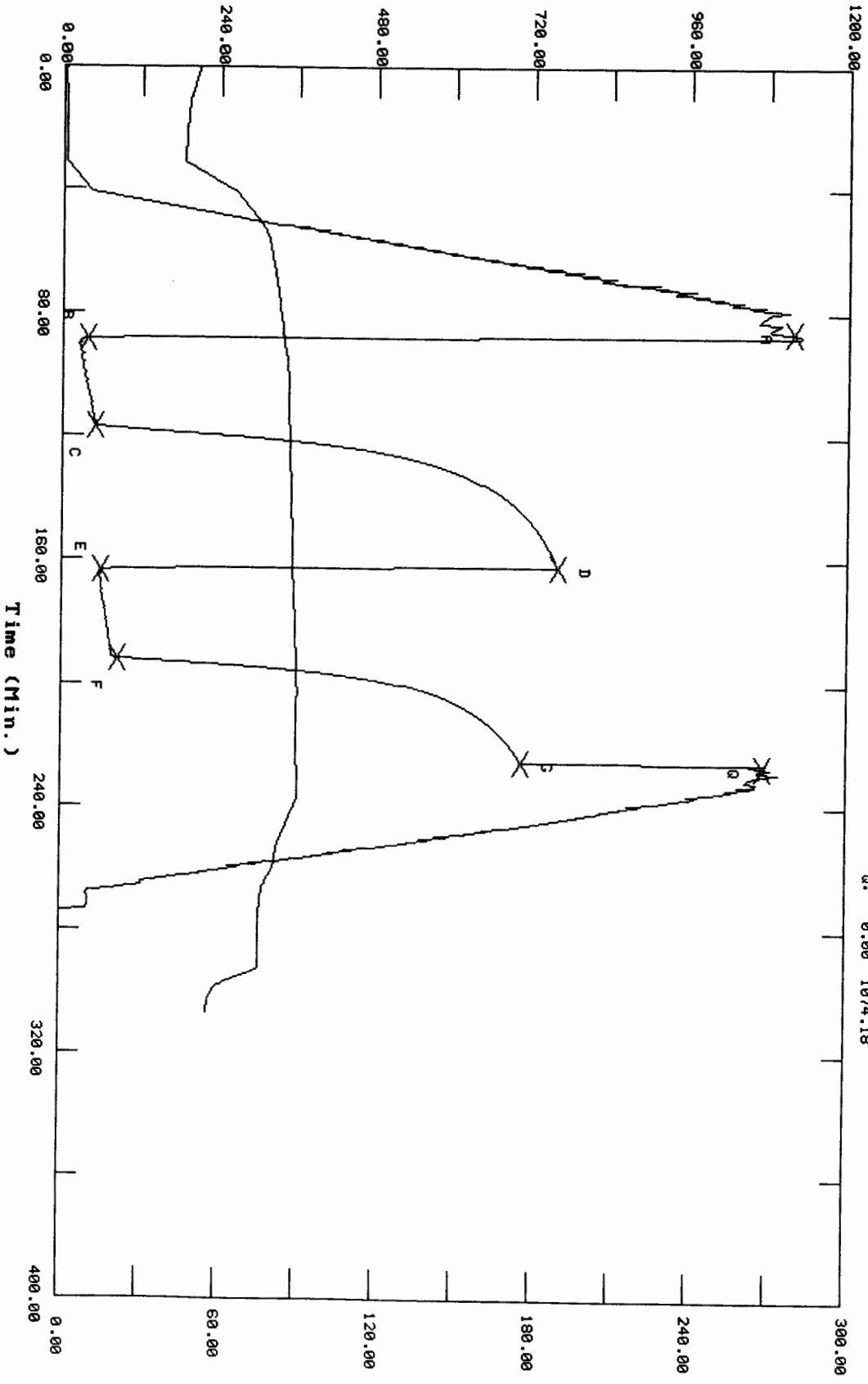
FLUID SAMPLER DATA (not run)

GAS-----		cubic ft
OIL-----		ML.
MUD-----		ML.
WATER-----		ML.
OTHER-----		
PRESSURE-----		PSI
Rw -----	ohms @	deg. F.
CHLORIDES-----		ppm.
GRAVITY-----		deg.API

	P.O. SUB	
	C.O. SUB @ top of tool	2356
	S.I. TOOL Sterling	2362
	HMV Sterling	2367
	JARS none	
	SAFETY JOINT bowen	2369
	PACKER Top	2373
	PACKER Btm.	2378
	DEPTH 2378	
	STUBB 1 ft.	2379
	ANCHOR	
	6'perfs & sub to	2385
	Alpine rec. @ 2390	
	T.C.	
	DEPTH	
	1 jt.pipe to	2417
	2' perfs & sub to	2419
	AK-1 rec. @ 2421	
	BULLNOSE 5 ft. perforated	2424
	T.D.	

# TEST HISTORY

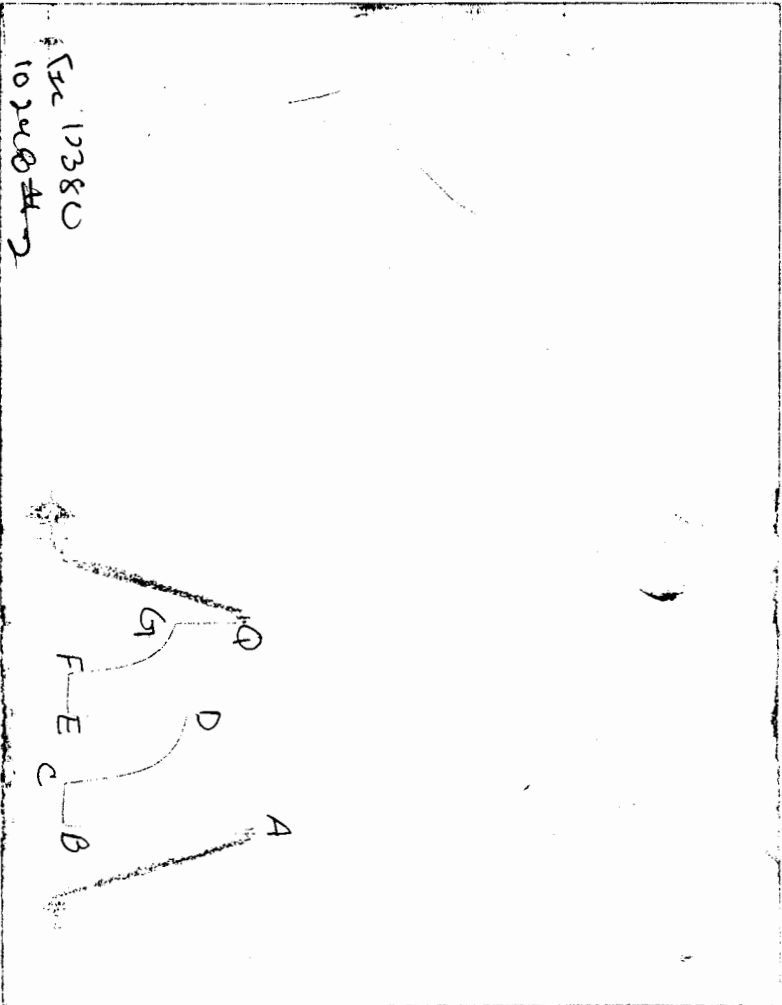
12388 DST#2 COLE #2 R&B OIL & GAS



Flag Points

Flag	Time (Min.)	Pressure (PSIg)
A	0.00	1116.32
B	0.00	36.58
C	28.50	48.75
D	45.00	758.03
E	0.00	59.41
F	28.50	84.93
G	33.00	703.31
H	0.00	1074.18

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<sup>o</sup> 12380

## Test Ticket

Well Name & No. <u>Col 2 #2</u>	Test No. <u>2</u>	Date <u>10-2-99</u>
Company <u>RIB Oil &amp; Gas</u>	Zone Tested <u>TARISIO</u>	
Address <u>P.O. Box 195 Attica Ks 67009</u>	Elevation <u>1649</u> KB <u>1640GL</u>	
Co. Rep / Geo. <u>Wes Hansen</u>	Cont. <u>Duick Drilling #4</u>	Est. Ft. of Pay <u>5</u> Por. <u>    </u> %
Location: Sec. <u>13</u> Twp. <u>26S</u> Rge. <u>9W</u> Co. <u>Reno</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>		

Interval Tested <u>2373 - 2424'</u>	Initial Str Wt./Lbs. <u>27,000</u>	Unseated Str Wt./Lbs. <u>28,000</u>
Anchor Length <u>46'</u>	Wt. Set Lbs. <u>29,000</u>	Wt. Pulled Loose/Lbs. <u>36,000</u>
Top Packer Depth <u>2373'</u>	Tool Weight <u>2100#</u>	
Bottom Packer Depth <u>2375'</u>	Hole Size — 7 7/8" <u>    </u>	Rubber Size — 6 3/4" <u>    </u>
Total Depth <u>2424'</u>	Wt. Pipe Run <u>Case</u>	Drill Collar Run <u>Case</u>
Mud Wt. <u>8.9</u> LCM <u>    </u> Vis. <u>60</u> WL <u>8.8cc</u>	Drill Pipe Size <u>4 1/2" X-H</u>	Ft. Run <u>2361'</u>
Blow Description <u>IF: Strong blow GTS in 15 mins. (see gas volume report) ISI: Weak blow (1")</u>		
<u>FF: Strong blow. (see gas volume report) FSI: No blow</u>		

Recovery — Total Feet <u>140</u>	GIP <u>421</u>	Ft. in DC <u>    </u>	Ft. in DP <u>140</u>
Rec. <u>80</u> Feet Of <u>CCY</u>	<u>10</u> %gas	%oil	%water <u>90</u> %mud
Rec. <u>60</u> Feet Of <u>M.W.</u>	%gas	%oil <u>65</u>	%water <u>35</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water
BHT <u>90</u> °F Gravity <u>    </u>	°API D@ <u>    </u>	°F Corrected Gravity <u>    </u>	°API <u>    </u>
RW <u>.13</u> @ <u>67</u> °F Chlorides <u>58,000</u> ppm Recovery	Chlorides <u>6000</u> ppm System		

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1154	1116	PSI	Recorder No. <u>2342</u>	T-On Location	<u>0605</u>
(B) First Initial Flow Pressure	44	57	PSI	(depth) <u>2390'</u>	T-Started	<u>1025</u>
(C) First Final Flow Pressure	50	49	PSI	Recorder No. <u>10248</u>	T-Open	<u>1155</u>
(D) Initial Shut-In Pressure	709	758	PSI	(depth) <u>2421'</u>	T-Pulled	<u>    </u>
(E) Second Initial Flow Pressure	69	59	PSI	Recorder No. <u>    </u>	T-Out	<u>1530</u>
(F) Second Final Flow Pressure	83	85	PSI	(depth) <u>    </u>	T-Off Location	<u>1645</u>
(G) Final Shut-in Pressure	701	703	PSI	Initial Opening <u>30</u>	Test	<input checked="" type="checkbox"/> <u>6000</u>
(Q) Final Hydrostatic Mud	1099	1074	PSI	Initial Shut-in <u>45</u>	Jars	<u>    </u>
				Final Flow <u>30</u>	Safety Joint	<input checked="" type="checkbox"/> <u>500</u>
				Final Shut-in <u>30</u>	Straddle	<u>    </u>
				<u>    </u>	Circ. Sub	<u>    </u>
				<u>    </u>	Sampler	<u>    </u>
					Extra Packer	<u>    </u>
					Elec. Rec.	<input checked="" type="checkbox"/> <u>150</u>
					Mileage	<u>    </u>
					Other	<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 *[Signature]*

TOTAL PRICE \$ ✓ 800.00

Well Name Cole #2  
DST Number 1  
Recorder Number 10248  
A: .941 1046  
B: .038 413  
C: .062 70  
D: .554 621  
E: .083 94  
F: .090 102  
G: .538 603  
Q: .824 983

Well Name Cole #2  
DST Number 2  
Recorder Number 10248  
A: 1.040 1154  
B: .052 59  
C: .062 70  
D: .690 771  
E: .082 93  
F: .088 100  
G: .642 718  
Q: .997 1106