

1-18s-32w

15-171-20546

**WELL NAME:** Koci A #2  
**COMPANY:** Pickrell Drilling Co  
**LOCATION:** 1-18s-32w  
Scott co KS  
**DATE:** 4/7/00

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling Co.

DATE 4-3-00

WELL NAME: Koci A #2

KB 2971.00 ft

TICKET NO: 11200 DST #1

LOCATION : 1-18-32

GR 2966.00 ft

FORMATION: Johnson

INTERVAL : 4549.00 To 4569.00 ft

TD 4569.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	2023	2023	2346			PF Fr. 0915 to 0945 hr
SI 45 Range(Psi )	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1030 to 1115 hr
SF 120 Clock(hrs)	12	12	alpin			SF Fr. 1115 to 1315 hr
FS 120 Depth(ft )	4566.0	4566.0	4550.0	0.0	0.0	FS Fr. 1315 to 1515 hr

	Field	1	2	3	4	
A. Init Hydro	2331.0	2326.0	0.0	0.0	0.0	T STARTED 0720 hr
B. First Flow	33.0	66.0	0.0	0.0	0.0	T ON BOTM 0912 hr
B1. Final Flow	33.0	35.0	0.0	0.0	0.0	T OPEN 0915 hr
C. In Shut-in	87.0	95.0	0.0	0.0	0.0	T PULLED 1515 hr
D. Init Flow	33.0	67.0	0.0	0.0	0.0	T OUT 1700 hr
E. Final Flow	33.0	41.0	0.0	0.0	0.0	
F. Fl Shut-in	87.0	92.0	0.0	0.0	0.0	
G. Final Hydro	2311.0	2246.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	i	i	o			Tool Wt. 4000.00 lbs

RECOVERY

Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP  
 5.00 ft of Free oil  
 0.00 ft of 100% oil  
 55.00 ft of Heavy oil cut mud  
 0.00 ft of 70% oil 30% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

Wt Set On Packer 26000.00 lbs  
 Wt Pulled Loose 85000.00 lbs  
 Initial Str Wt 65000.00 lbs  
 Unseated Str Wt 66000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.50 in  
 D.C. Length 233.00 ft  
 D.P. Length 4312.00 ft

SALINITY 1200.00 P.P.M. A.P.I. Gravity 30.00

BLOW DESCRIPTION

Initial Flow:  
 Surface blow built to 3/4", died back to 1/2".  
 Initial Shut-In:  
 No return.  
 Final Flow:  
 Very weak surface blow, blew throughout.  
 Final Shut-In:  
 No return.

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.40 lb/cf  
 Vis. 53.00 S/L  
 W.L. 8.80 in3  
 F.C. 0.00 in  
 Mud Drop N

Amt. of fill 0.00 ft  
 Btm. H. Temp. 126.00 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 Shane McBride  
 Co. Rep. Arden Ratzlaff  
 Contr. Pickrell  
 Rig # 10  
 Unit #  
 Pump T.

SAMPLES:  
 SENT TO:

Test Successful: Y



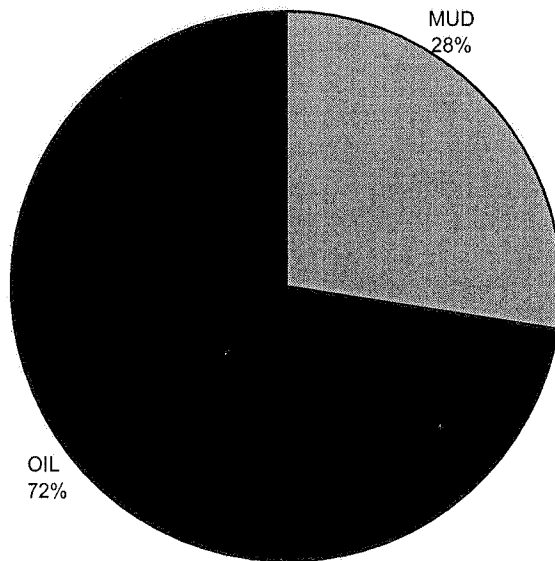
CALCULATED RECOVERY ANALYSIS

DST 1

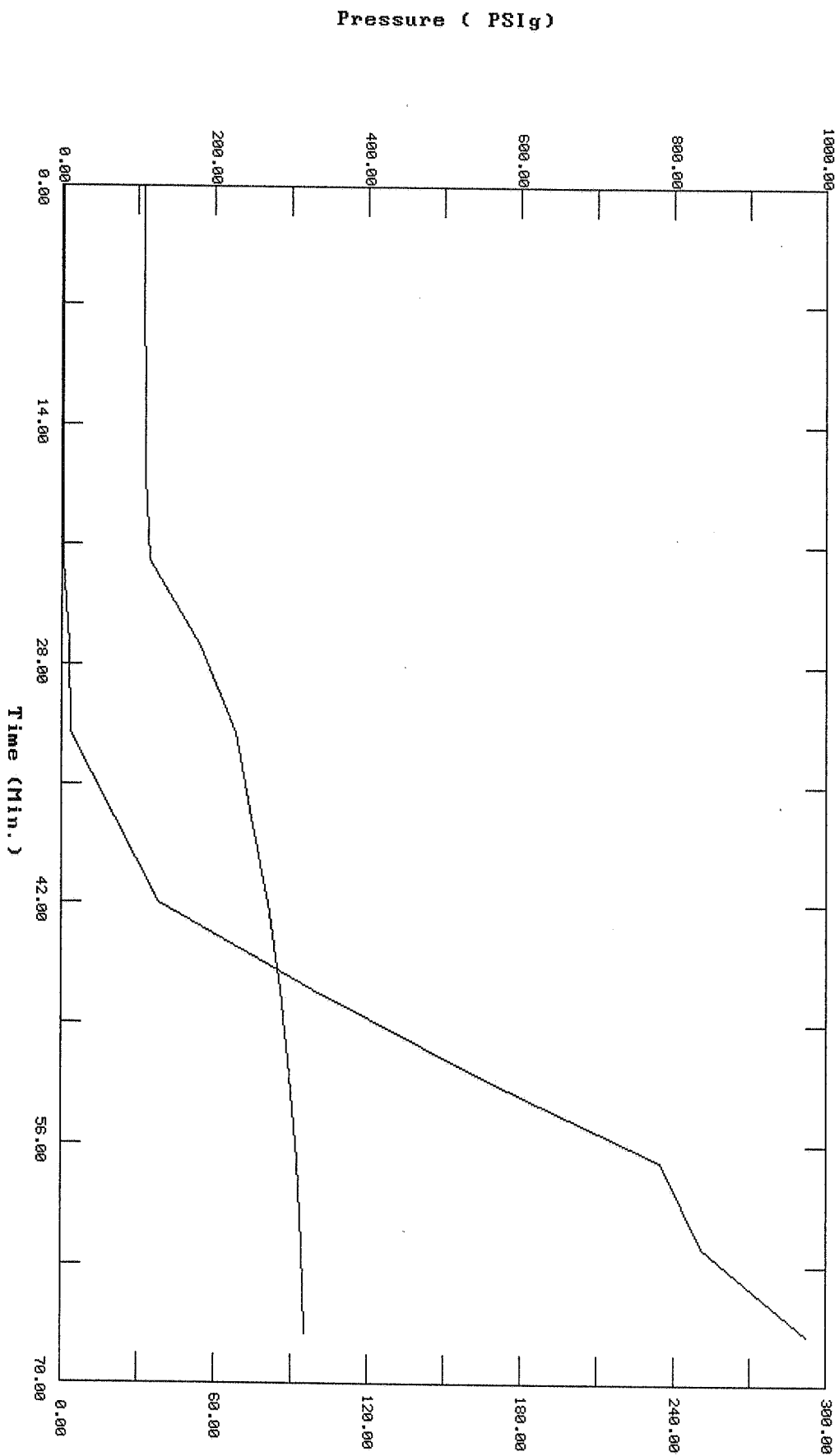
TICKET 11200

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
DRILL	1	5	0	0	100	5	0	0	0
COLLARS	2	55	0	0	70	38.5	0	0	30
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
TOTAL		60	0	0	0	43.5	0	0	16.5

BBL OIL= 0.212715 \* HRS OPEN 2.5 = BBL/DAY 2.042064  
 BBL WATER= 0 \* = 0  
 BBL MUD= 0.080685  
 BBL GAS = 0

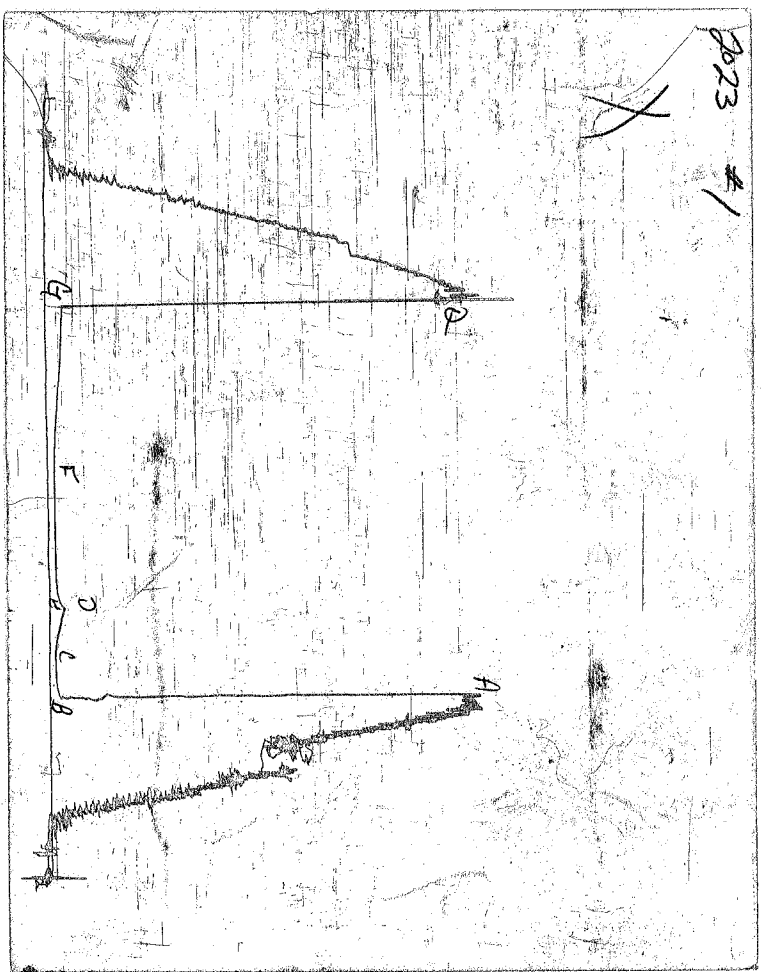


TEST HISTORY  
11200 DST #1 Koc1 A #2 Pickrell Drilling Co.



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

## Test Ticket

No 11200

Well Name & No. <u>Koc: 14-2</u>	Test No. <u>1</u>	Date <u>4-3-00</u>
Company <u>Pickrell Drilling Co., Inc.</u>	Zone Tested <u>Johnson</u>	
Address <u>100 S. Main, Suite 505</u>	Elevation <u>2971'</u> KB <u>2966'</u> GL	
Co. Rep / Geo. <u>Arden Ratzlaff</u>	Cont. <u>Pickrell #10</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>1</u> Twp. <u>18</u> Rge. <u>32</u> Co. <u>Scott</u> State <u>Ks</u>		
No. of Copies <u>None</u> Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>4549'</u>	<u>4569'</u>	Initial Str Wt./Lbs. <u>65,000</u>	Unseated Str Wt./Lbs. <u>65,000</u>
Anchor Length _____	<u>20'</u>	Wt. Set Lbs. <u>24,000</u>	Wt. Pulled Loose/Lbs. <u>85,000</u>
Top Packer Depth _____	<u>4544'</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth _____	<u>4549'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth _____	<u>4569'</u>	Wt. Pipe Run _____	Drill Collar Run <u>233' x 4 (4)</u>
Mud Wt. <u>9.4</u> LCM <u>-0-</u> Vis. <u>53</u> WL <u>8.8</u>		Drill Pipe Size <u>4 1/2 x 4</u>	Ft. Run <u>4312' (69)</u>
Blow Description <u>Surface blow built to 3/4" in, died back to 1/2" in.</u>			
<u>No return</u>			
<u>Very Weak Surface blow, blew throughout</u>			
<u>No return</u>			

Recovery — Total Feet <u>60'</u>	GIP _____	Ft. in DC <u>60'</u>	Ft. in DP _____
Rec. <u>5'</u> Feet Of <u>Free oil</u>	%gas <u>100</u> %oil _____	%water _____	%mud _____
Rec. <u>55'</u> Feet Of <u>Heavy oil and Mud</u>	%gas <u>70</u> %oil _____	%water <u>30</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>126°</u> °F Gravity <u>30</u>	°API D@ <u>60°</u>	°F Corrected Gravity <u>30</u>	°API _____
RW _____ @ _____ °F Chlorides _____	ppm Recovery Chlorides <u>1200</u>	ppm System _____	

(A) Initial Hydrostatic Mud <u>2331</u>	PSI Recorder No. <u>2346</u>	T-Started <u>07:20 A.M.</u>
(B) First Initial Flow Pressure <u>33</u>	PSI (depth) <u>4550'</u>	T-Open <u>09:15 A.M.</u>
(C) First Final Flow Pressure <u>33</u>	PSI Recorder No. <u>2023</u>	T-Pulled <u>14:30 P.M.</u>
(D) Initial Shut-in Pressure <u>87</u>	PSI (depth) <u>4566'</u>	T-Out <u>17:00 P.M.</u>
(E) Second Initial Flow Pressure <u>33</u>	PSI Recorder No. _____	on hole <u>06:25 A.M.</u>
(F) Second Final Flow Pressure <u>33</u>	PSI (depth) _____	off hole <u>17:40 P.M.</u>
(G) Final Shut-in Pressure <u>87</u>	PSI Initial Opening <u>30</u>	Test <u>x</u>
(H) Final Hydrostatic Mud <u>2311</u>	PSI Initial Shut-in <u>45</u>	Jars _____

AK-1 ALPine

Final Flow <u>120</u>	Safety Joint <u>x</u>
Final Shut-in <u>120</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 <u>Arden Ratzlaff</u>	
Our Representative <u>John [Signature]</u>	

Circ. Sub <u>x</u> <u>N/C</u>
Sampler _____
Extra Packer _____
Elect. Rec. <u>x</u>
Other _____
TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling Co. DATE 4-4-00  
 WELL NAME: Koci A #2 KB 2971.00 ft TICKET NO: 12701 DST #2  
 LOCATION : 1-18-32 Scott, county, Ks GR 2966.00 ft FORMATION: miss  
 INTERVAL : 4570.00 To 4590.00 ft TD 4590.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	2023	2023	2346			PF Fr. 0630 to 0700 hr
SI 30 Range(Psi )	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0700 to 0730 hr
SF 30 Clock(hrs)	12	12hr	alpin			SF Fr. 0730 to 0800 hr
FS 30 Depth(ft )	4587.0	4587.0	4571.0	0.0	0.0	FS Fr. 0800 to 0830 hr

	Field	1	2	3	4	
A. Init Hydro	2341.0	2357.0	2359.0	0.0	0.0	T STARTED 0350 hr
B. First Flow	66.0	47.0	17.0	0.0	0.0	T ON BOTM 0627 hr
B1. Final Flow	55.0	35.0	20.0	0.0	0.0	T OPEN 0630 hr
C. In Shut-in	66.0	33.0	36.0	0.0	0.0	T PULLED 0830 hr
D. Init Flow	55.0	59.0	23.0	0.0	0.0	T OUT 1050 hr
E. Final Flow	76.0	48.0	29.0	0.0	0.0	
F. Fl Shut-in	173.0	149.0	170.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2331.0	2269.0	2256.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	I	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 65000.00 lbs
						Unseated Str Wt 65000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 233.00 ft
						D.P. Length 4343.00 ft

RECOVERY

Tot Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP  
 30.00 ft of water cut mud 30%water 70%mud oil spots  
 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 29000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Weak surface blbow died in 22 minutes

Initial Shutin:  
 No return

Final Flow:  
 Bubble to open tool, no blow,  
 flushed tool 15 minutes into open  
 good surge - no blow

Final Shutin:  
 No return

SAMPLES:  
 SENT TO:

MUD DATA-----  
 Mud Type chem  
 Weight 9.60 lb/c  
 Vis. 56.00 S/L  
 W.L. 8.80 in3  
 F.C. 0.00 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 124.00 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 Shane McBride  
 Co. Rep. Arden Ratzlaff  
 Contr. Pickrell  
 Rig # 10  
 Unit #  
 Pump T.

Test Successful: Y

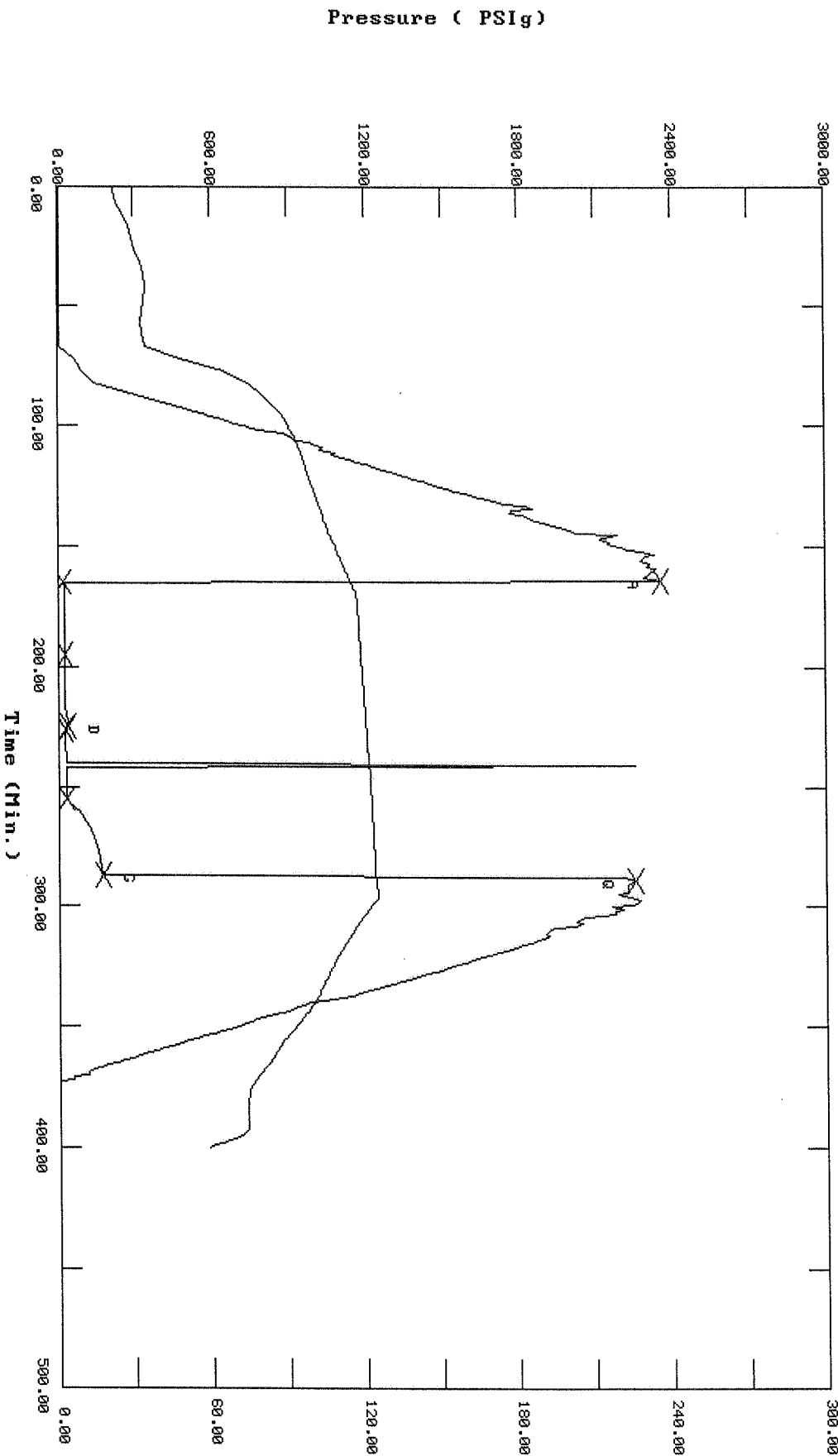


12701 DST #2 Koci A #2 Pickrell Drilling Co.

TEST HISTORY

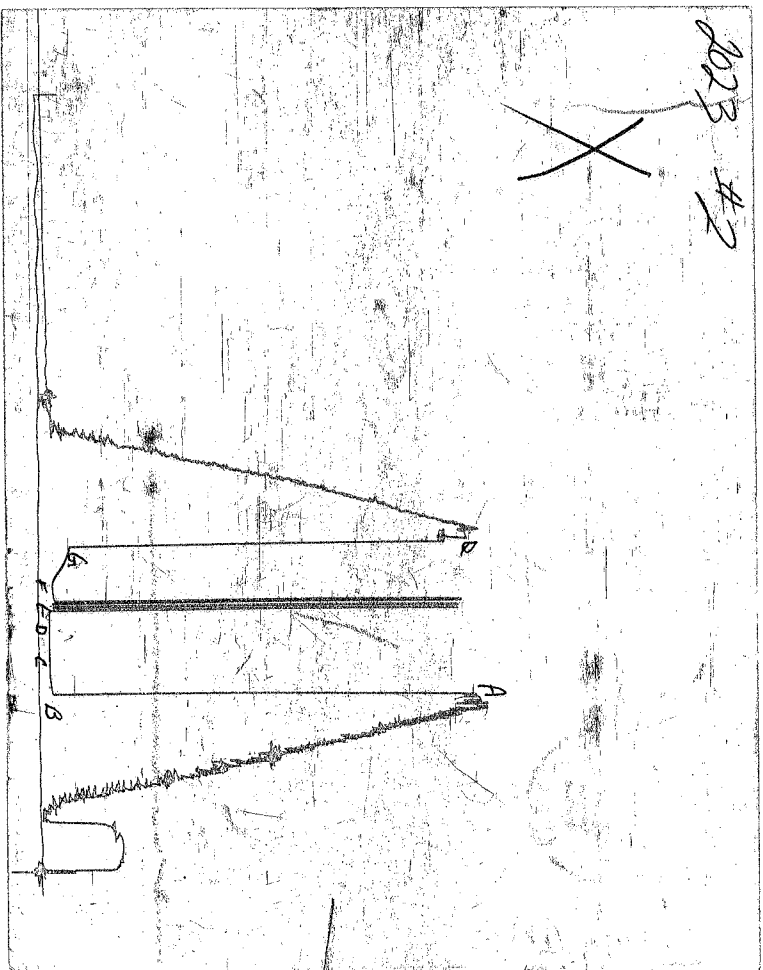
Flag Points  
 t(min.) P(PSig)

R:	0.00	2359.17
B:	0.00	17.75
C:	30.00	20.89
D:	30.00	36.45
E:	0.00	23.22
F:	29.00	29.98
G:	32.00	170.92
Q:	0.00	2256.75



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

## Test Ticket

No 12701

Well Name & No. <u>Koci A #2</u>	Test No. <u>2</u>	Date <u>4-4-00</u>
Company <u>Pickrell Drilling Co. Inc.</u>	Zone Tested <u>MISS.</u>	
Address <u>100 S. MAIN, Suite 505</u>	Elevation <u>2971'</u>	KB <u>2966'</u> GL
Co. Rep / Geo. <u>Arden Ratzlaff</u>	Cont. <u>Pickrell #10</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>1</u> Twp. <u>18</u> Rge. <u>32</u>	Co. <u>Scott</u>	State <u>Ks</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>4570'</u>	<u>4590'</u>	Initial Str Wt./Lbs. <u>6500</u>	Unseated Str Wt./Lbs. <u>65000</u>
Anchor Length _____	<u>20'</u>	Wt. Set Lbs. <u>2600</u>	Wt. Pulled Loose/Lbs. <u>85000</u>
Top Packer Depth _____	<u>4565'</u>	Tool Weight <u>4000</u>	
Bottom Packer Depth _____	<u>4570'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth _____	<u>4590'</u>	Wt. Pipe Run _____	Drill Collar Run <u>233' (4)</u>
Mud Wt. <u>9.6</u> LCM <u>-0-</u> Vis. <u>56</u> WL <u>8.8</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run _____
Blow Description <u>Weak surface blow died in 22 min.</u>			

T.S.I: No return  
 F.F: Bubble to open tool - No blow - Flush tool down into open bond surge  
No blow F.S.I: No return

Recovery — Total Feet <u>30'</u>	GIP _____	Ft. in DC <u>30'</u>	Ft. in DP _____
Rec. <u>30'</u> Feet Of <u>Water Cut Mud</u>	%gas <u>sp</u> %oil _____	%water <u>30</u>	%mud <u>76</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 _____

BHT 124° °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .26 @ 60 °F Chlorides 29,000 ppm Recovery Chlorides 1,300 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2341</u>	<u>2359</u>	<u>2346</u>	<u>12:10 A.M.</u>
(B) First Initial Flow Pressure	<u>66</u>	<u>17</u>	(depth) <u>4571'</u>	T-Started <u>03:50 A.M.</u>
(C) First Final Flow Pressure	<u>55</u>	<u>20</u>	PSI Recorder No. <u>2023</u>	T-Open <u>06:40 A.M.</u>
(D) Initial Shut-In Pressure	<u>66</u>	<u>36</u>	(depth) <u>4587'</u>	T-Pulled <u>08:30 A.M.</u>
(E) Second Initial Flow Pressure	<u>55</u>	<u>23</u>	PSI Recorder No. _____	T-Out <u>10:50 A.M.</u>
(F) Second Final Flow Pressure	<u>76</u>	<u>29</u>	(depth) _____	T-Off Location <u>12:00 P.M.</u>
(G) Final Shut-in Pressure	<u>173</u>	<u>170</u>	PSI Initial Opening <u>30</u>	Test <u>X</u>
(Q) Final Hydrostatic Mud	<u>2331</u>	<u>2256</u>	PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow <u>30</u>	Safety Joint <u>A</u>
			Final Shut-in <u>30</u>	Straddle _____

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Approved By Arden Ratzlaff  
 Our Representative Frank M. B...

Circ. Sub X N/A  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Elec. Rec. X  
 Mileage \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ \_\_\_\_\_