



**ORIGINAL**  
**TRILOBITE**  
**TESTING, INC.**

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**DRILL STEM TEST REPORT**

Prepared For: **Coral Production Corporation**

1600 Stout St.#1500  
Denver, CO 80202

ATTN: Tim J.Lauer

**21--17S--11W**

**Soeken#1**

Start Date: 2002.07.22 @ 11:36:44

End Date: 2002.07.22 @ 17:24:44

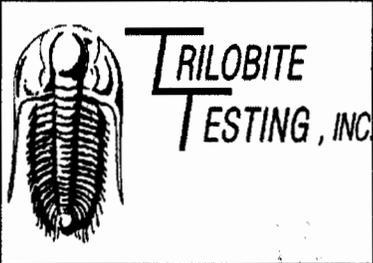
Job Ticket #: 15731                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

103249



# DRILL STEM TEST REPORT

Coral Production Corporation **Soeken#1**  
 1600 Stout St.#1500 **21-17S-11W**  
 Denver, CO 80202 Job Ticket: 15731 **DST#: 1**  
 ATTN: Tim J. Lauer Test Start: 2002.07.22 @ 11:36:44

**ORIGINAL**

**GENERAL INFORMATION:**

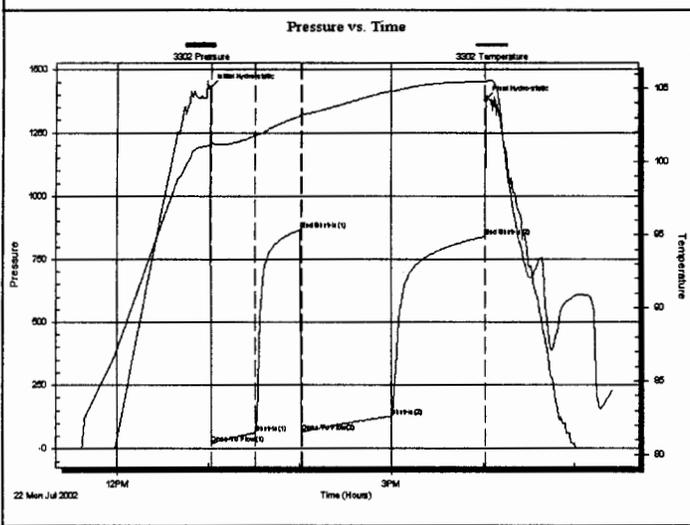
Formation: **Lansing**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **13:01:59** Tester: **Darren L. Amerine**  
 Time Test Ended: **17:24:44** Unit No: **19**

Interval: **2975.00 ft (KB) To 3040.00 ft (KB) (TVD)** Reference Elevations: **1797.00 ft (KB)**  
 Total Depth: **3040.00 ft (KB) (TVD)** **1792.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

**Serial #: 3302** **Inside**

Press@RunDepth: **127.32 psig @ 2976.00 ft (KB)** Capacity: **7000.00 psig**  
 Start Date: **2002.07.22** End Date: **2002.07.22** Last Calib.: **2002.06.22**  
 Start Time: **11:36:46** End Time: **17:24:44** Time On Btm: **2002.07.22 @ 13:01:29**  
 Time Off Btm: **2002.07.22 @ 16:01:44**

**TEST COMMENT:** IF:Weak blow built to 10" H2O bucket.  
 IS:Bled down n for 1 min. no blow back.  
 FF:Weak blow built to 8" H2O bucket.  
 FS:Bled down n for 2 min. no blow back.



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1429.55	101.09	Initial Hydro-static
1	19.65	101.31	Open To Flow (1)
30	63.25	101.80	Shut-In(1)
60	866.54	103.12	End Shut-In(1)
60	66.79	103.30	Open To Flow (2)
119	127.32	104.83	Shut-In(2)
180	840.59	105.48	End Shut-In(2)
181	1380.28	105.54	Final Hydro-static

Length (ft)	Description	Volume (bbl)
180.00	350 - Mud cut Water	2.52
60.00	104 - Water cut Mud	0.84
60.00	01 - Gas	0.84

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Coral Production Corporation

Soeken#1

1600 Stout St.#1500  
Denver, CO 80202

21-17S-11W

Job Ticket: 15731

DST#: 1

ATTN: Tim J.Lauer

Test Start: 2002.07.22 @ 11:36:44

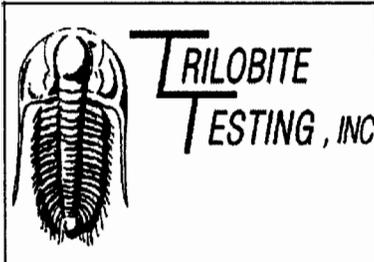
### Tool Information

Drill Pipe:	Length: 2976.00 ft	Diameter: 3.80 inches	Volume: 41.75 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 41.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2975.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2955.00	
S.I. Tool	5.00			2960.00	
HMV	5.00			2965.00	
Packer	5.00			2970.00	21.00 Bottom Of Top Packer
Packer	5.00			2975.00	
Stubb	1.00			2976.00	
Recorder	0.00	3302	Inside	2976.00	
Anchor	31.00			3007.00	
Recorder	0.00	10991	Outside	3007.00	
Blank Spacing	31.00			3038.00	
Bullnose	2.00			3040.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coral Production Corporation

Soeken#1

1600 Stout St.#1500  
Denver, CO 80202

21-17S-11W

Job Ticket: 15731

DST#: 1

ATTN: Tim J.Lauer

Test Start: 2002.07.22 @ 11:36:44

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 39.00 sec/qt  
Water Loss: 7.49 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7000.00 ppm  
Filter Cake: 0.32 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 38000 ppm

### Recovery Information

Recovery Table

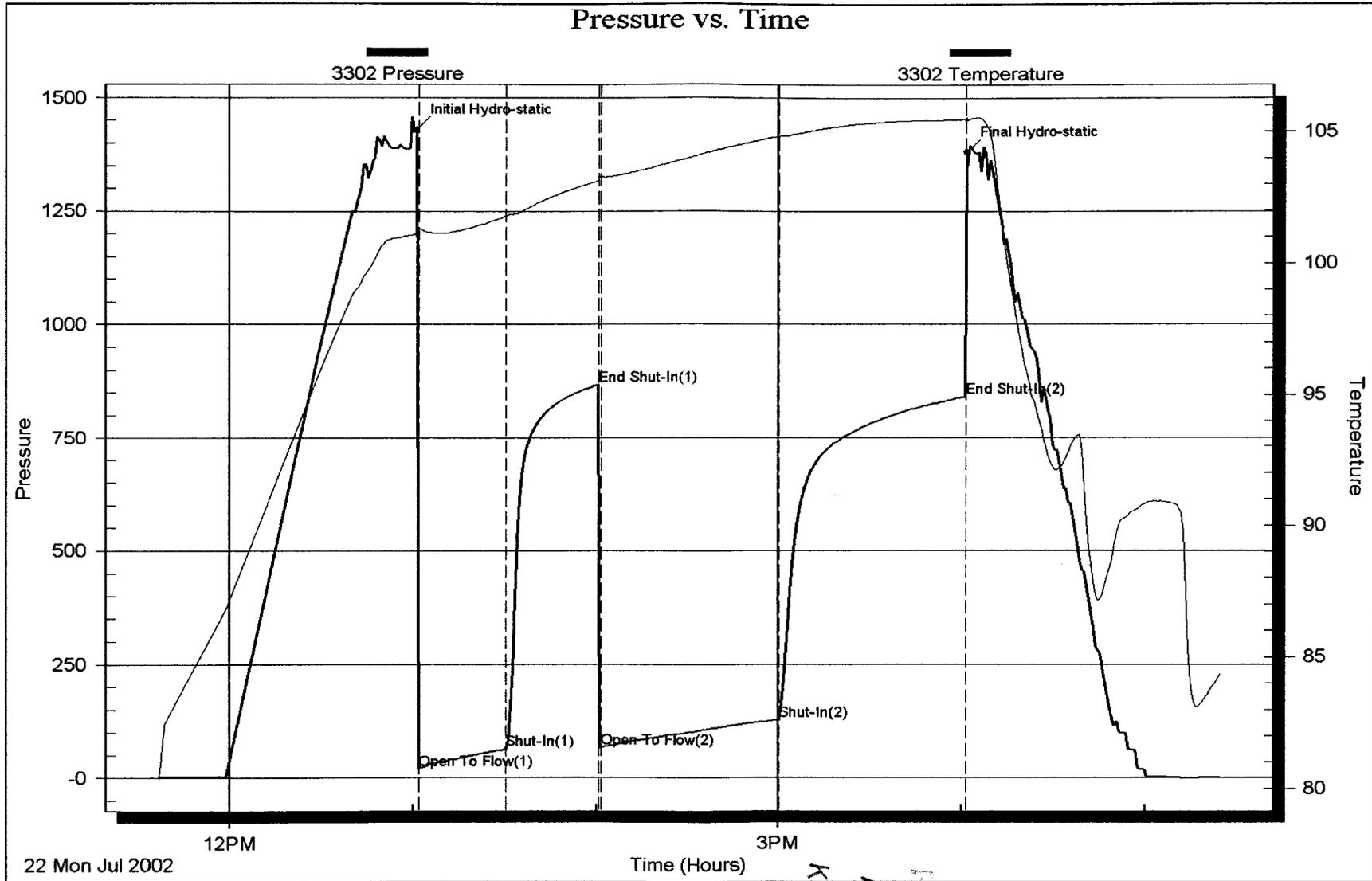
Length ft	Description	Volume bbl
180.00	350 - Mud cut Water	2.525
60.00	104 - Water cut Mud	0.842
60.00	01 - Gas	0.842

Total Length: 300.00 ft      Total Volume: 4.209 bbl

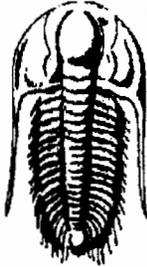
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .15@90 degrees F



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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corporation**

1600 Stout St.#1500  
Denver, CO 80202

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KCC WICHITA

ATTN: Tim J.Lauer

**21--17S--11W**

**Soeken#1**

Start Date: 2002.06.23 @ 13:42:12

End Date: 2002.06.23 @ 20:09:12

Job Ticket #: 15732                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

 <b>TRILOBITE TESTING, INC.</b>	<b>DRILL STEM TEST REPORT</b>	
	Coral Production Corporation 1600 Stout St.#1500 Denver, CO 80202 ATTN: Tim J.Lauer	<b>Soeken#1</b> <b>21-17S-11W</b> Job Ticket: 15732 <b>DST#:2</b> Test Start: 2002.06.23 @ 13:42:12

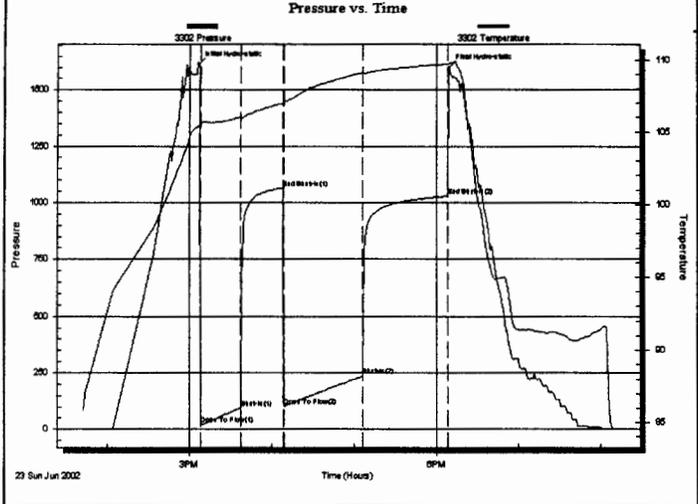
**GENERAL INFORMATION:**

Formation: <b>Arbuckel</b>	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Darren L.Amerine
Time Tool Opened: 15:08:12	Unit No: 19
Time Test Ended: 20:09:12	Reference Elevations: 1797.00 ft (KB)
Interval: <b>3256.00 ft (KB) To 3262.00 ft (KB) (TVD)</b>	1792.00 ft (CF)
Total Depth: 3262.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

**Serial #: 3302 Inside**

Press@RunDepth: 235.72 psig @ 3257.00 ft (KB)	Capacity: 7000.00 psig
Start Date: 2002.06.23 End Date: 2002.06.23	Last Calib.: 2002.06.23
Start Time: 13:42:14 End Time: 20:09:12	Time On Btm: 2002.06.23 @ 15:06:27
	Time Off Btm: 2002.06.23 @ 18:09:27

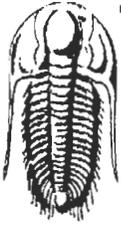
**TEST COMMENT:** IF: Fair blow built to b.o.b in 8 min.  
 IS: Bled down for 3 min. weak surface blow died in 12 min.  
 FF: Weak blow built to b.o.b in 19 min.  
 FS: Bled down for 2 min. no blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.97	105.36	Initial Hydro-static
2	22.47	105.44	Open To Flow (1)
31	96.15	106.06	Shut-in(1)
62	1064.93	107.00	End Shut-in(1)
63	100.94	107.18	Open To Flow (2)
121	235.72	109.11	Shut-in(2)
182	1028.64	109.70	End Shut-in(2)
183	1596.80	109.72	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
545.00	51 - Gas cut Oil	7.64
60.00	103 - Gas and Oil cut Mud	0.84

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Coral Production Corporation

Soeken#1

1600 Stout St.#1500  
Denver, CO 80202

21--17S--11W

Job Ticket: 15732

DST#: 2

ATTN: Tim J.Lauer

Test Start: 2002.06.23 @ 13:42:12

### Tool Information

Drill Pipe:	Length: 3255.00 ft	Diameter: 3.80 inches	Volume: 45.66 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3256.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

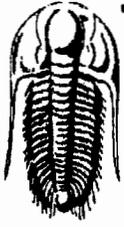
Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3232.00		
S.I. Tool	5.00			3237.00		
HMV	5.00			3242.00		
Recorder Carrier	4.00			3246.00		
Recorder	0.00	10991	inside	3246.00		
Packer	5.00			3251.00	25.00	Bottom Of Top Packer
Packer	5.00			3256.00		
Stubb	1.00			3257.00		
Recorder	0.00	3302	inside	3257.00		
Bullnose	5.00			3262.00	6.00	Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>31.00</b>					



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TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Coral Production Corporation

**Soeken#1**

1600 Stout St.#1500  
Denver, CO 80202

**21-17S-11W**

Job Ticket: 15732

**DST#: 2**

ATTN: Tim J.Lauer

Test Start: 2002.06.23 @ 13:42:12

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.10 ohm.m	Gas Cushion Pressure: psig		
Salinity: 10000.00 ppm			
Filter Cake: 0.32 inches			

**Recovery Information**

Recovery Table

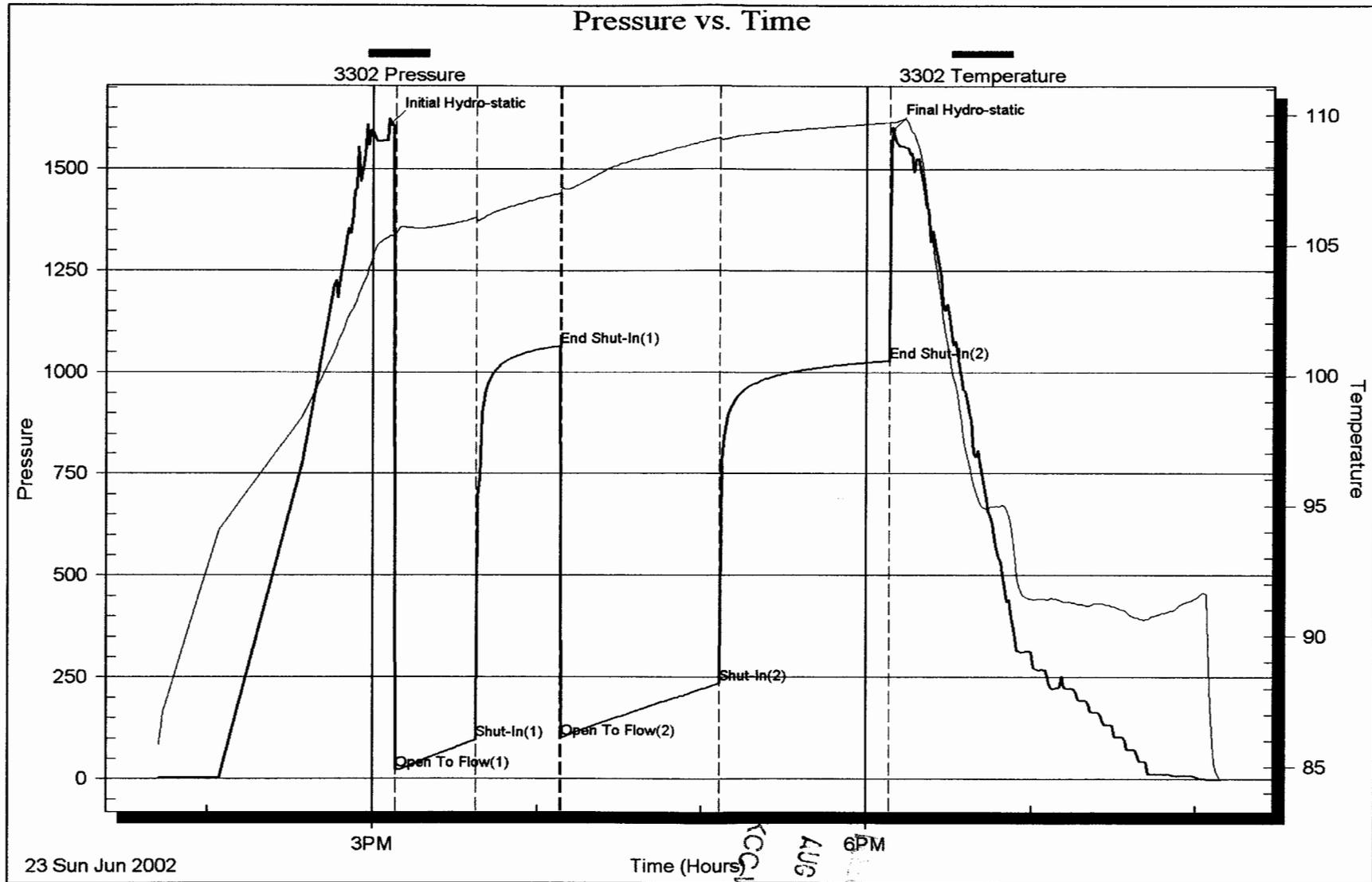
Length ft	Description	Volume bbl
545.00	51 - Gas cut Oil	7.645
60.00	103 - Gas and Oil cut Mud	0.842

Total Length: 605.00 ft      Total Volume: 8.487 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

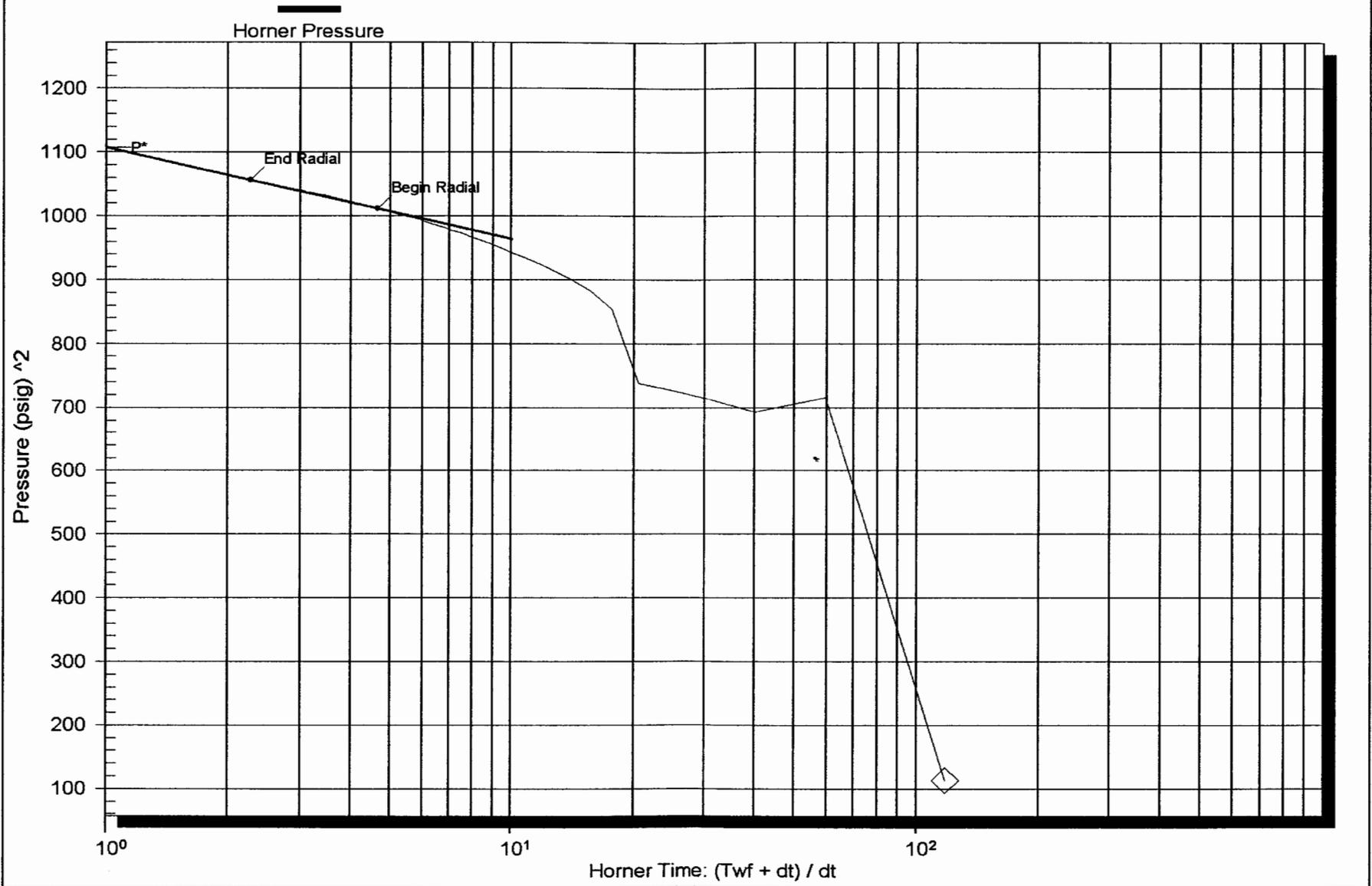
Laboratory Name:      Laboratory Location:

Recovery Comments:



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### Horner Plot



Serial Number: 3302 (Inside)

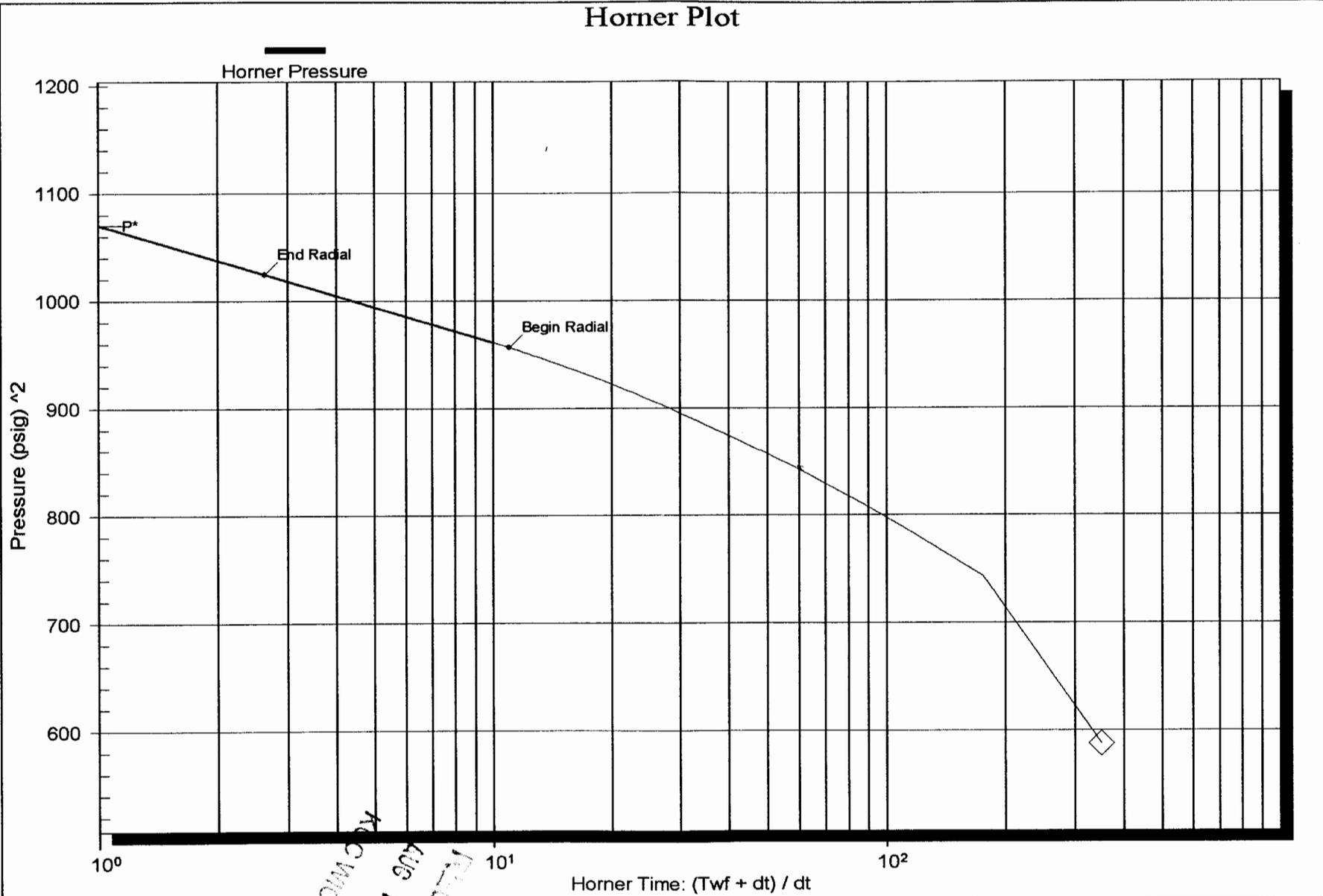
P\* : 33.28

Slope (m) : 142.84 kpa/log cycle

Flow Cycle: 1

103249

### Horner Plot



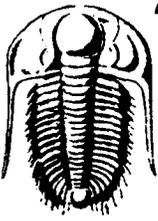
Serial Number: 3302 (Inside)

P\* : 32.71

Slope (m) : 109.16 kpa/log cycle

Flow Cycle: 2

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15731

## Test Ticket

Well Name & No. Soeken #1 Test No. #1 Date 06-22-02  
 Company Coral Production, Cororation Zone Tested ~~Soeken~~ Lansing  
 Address 1600 Stout St. #1500 Denver, Colorado 80202 Elevation 1797 KB 1792 GL  
 Co. Rep / Geo. Tim J. Laver Cont. Vonfeldt #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 21 Twp. 17S Rge. 11 W Co. Barton State Ks  
 No. of Copies 5 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 2975' - 3040' Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 36,000  
 Anchor Length 65' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 45,000  
 Top Packer Depth 2970' Tool Weight 2100  
 Bottom Packer Depth 2975' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 3040' Wt. Pipe Run N Drill Collar Run N/A  
 Mud Wt. 8.90 LCM 1/4" Vis. 49 WL 7.5 Drill Pipe Size 4 1/2 KTI Ft. Run 2976'

Blow Description IF: Weak blow built to 10" in #20 bucket  
ISI: Bled down for 1 min. No blow back.  
FF: Weak blow built to 8" in #20 bucket.  
FSI: Bled down for 2 mins. No blow back.

Recovery — Total Feet	GIP	Trace	Ft. in DC	N/A	Ft. in DP	240
Rec. <u>60'</u>	Feet Of	<del>56</del> <u>56</u> <u>MCW</u>	10	%gas	%oil	20
Rec. <u>180'</u>	Feet Of	<u>56</u> <u>MCW</u>	10	%gas	%oil	60
Rec. <u>6TP</u>	Feet Of	<u>Trace</u>		%gas	%oil	
Rec. _____	Feet Of			%gas	%oil	
Rec. _____	Feet Of			%gas	%oil	

BHT 105 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 0.15 @ 90 °F Chlorides 37,000 ppm Recovery Chlorides 7,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1457</u>		<u>3302</u>	<u>1100</u>
(B) First Initial Flow Pressure		<u>20</u>	PSI	(depth) <u>2976'</u>	T-Started <u>1136</u>
(C) First Final Flow Pressure		<u>63</u>	PSI	Recorder No. <u>10991</u>	T-Open <u>1324</u>
(D) Initial Shut-In Pressure		<u>868</u>	PSI	(depth) <u>3007'</u>	T-Pulled <u>1624</u>
(E) Second Initial Flow Pressure		<u>67</u>	PSI	Recorder No. _____	T-Out <u>1724</u>
(F) Second Final Flow Pressure		<u>127</u>	PSI	(depth) _____	T-Off Location <u>1815</u>
(G) Final Shut-in Pressure		<u>840</u>	PSI	Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud		<u>1410</u>	PSI	Initial Shut-in <u>30</u>	Jars _____

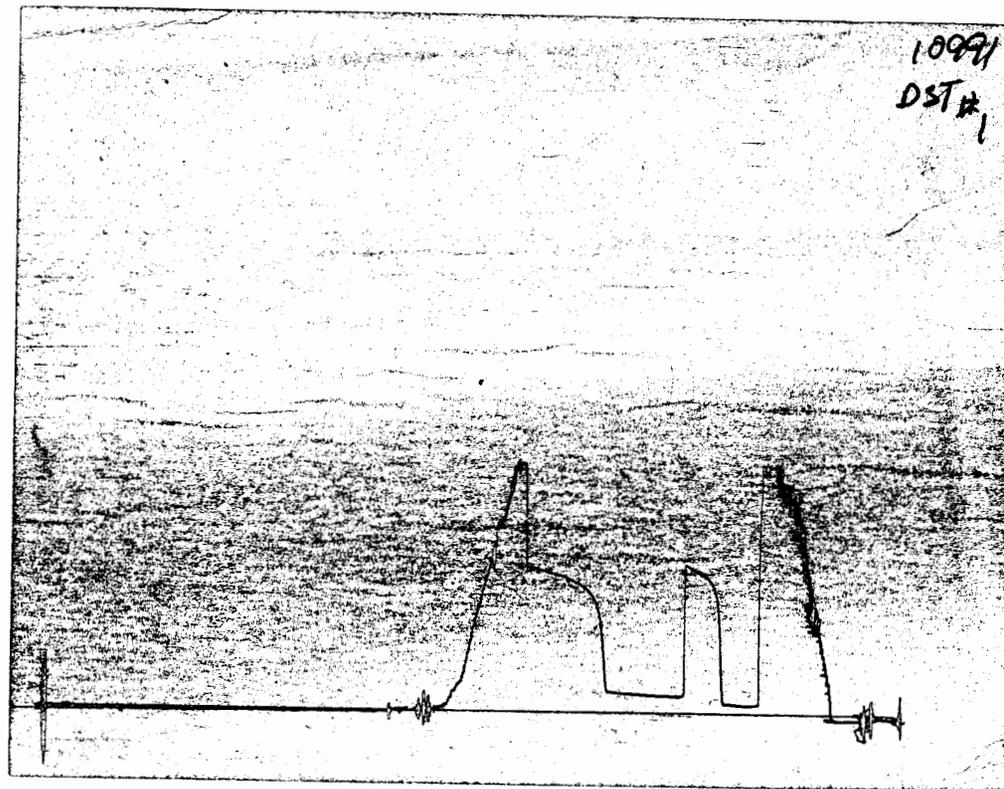
Final Flow 60 Safety Joint \_\_\_\_\_  
 Final Shut-in 60 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_

Approved By [Signature] Elec. Rec. ✓ 150  
 Our Representative Dennis J. Amerine Mileage 82  
 Other \_\_\_\_\_ TOTAL PRICE \$ 932

TRILOBITE TESTING INC. 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.

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15732

## Test Ticket

Well Name & No. Soeken #1 Test No. #2 Date 06-23-02  
 Company Coral Production Corporation Zone Tested Arbutel  
 Address 1600 Stout St. #1500 Denver, Colorado 80202 Elevation 1797 KB 1792GL  
 Co. Rep / Geo. Tim J. Lauer Cont. Vonfeldt Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 21 Twp. 175 Rge. 11W Co. Barton State KS  
 No. of Copies 5 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3256 - 3262 Initial Str Wt./Lbs. 37,000 Unseated Str Wt./Lbs. 40,000  
 Anchor Length 6 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 45,000  
 Top Packer Depth 3251 Tool Weight 2100  
 Bottom Packer Depth 3256 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 3262 Wt. Pipe Run N/A Drill Collar Run N/A  
 Mud Wt. 9.1 LCM Trace Vis. 50 WL 8.0 Drill Pipe Size 4 1/2 x H Ft. Run 3255

Blow Description IF: Fair blow built to b.o.b in 8 mins  
IST: Bleed down for 3 mins well surface blow died in 12 mins.  
FF: Weak blow built to b.o.b in 19 mins.  
FSL: Bleed down for 2 mins No blow back.

Recovery — Total Feet 605 GIP Trace Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. 60 Feet Of MC60 %gas 85 %oil 30 %water 35 %mud  
 Rec. 545 Feet Of 600 %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 109 °F Gravity 39° °API D@ 70 °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1611</u>			<u>10991</u>	<u>1315</u>
(B) First Initial Flow Pressure	<u>22</u>			(depth) <u>3246'</u>	T-Started <u>1342</u>
(C) First Final Flow Pressure	<u>96</u>			Recorder No. <u>3302</u>	T-Open <u>1530</u>
(D) Initial Shut-In Pressure	<u>1065</u>			(depth) <u>3257'</u>	T-Pulled <u>1830</u>
(E) Second Initial Flow Pressure	<u>101</u>			Recorder No. _____	T-Out <u>2009</u>
(F) Second Final Flow Pressure	<u>236</u>			(depth) _____	T-Off Location <u>2100</u>
(G) Final Shut-in Pressure	<u>1029</u>			PSI Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud	<u>1597</u>			PSI Initial Shut-in <u>30</u>	Jars _____
				Final Flow <u>60</u>	Safety Joint _____
				Final Shut-in <u>60</u>	Straddle _____

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Approved By Tim J. Lauer  
 Our Representative Darren J. Lauer

Elec. Rec. 150  
 Mileage 82  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 932

# CHART PAGE

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

