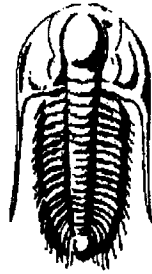


15-195-22319

7-14s-21w



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Zinzser Oil Co., Inc.**

PO Box 211  
Hays KS 67601

ATTN: Kim Zinzser

**7-14s-21w Trego KS**

**Nicholson "G" # 4**

Start Date: 2006.01.21 @ 20:15:19

End Date: 2006.01.22 @ 03:17:49

Job Ticket #: 23316                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Zinzser Oil Co., Inc.

**Nicholson "G" # 4**

PO Box 211  
Hays KS 67601

**7-14s-21w Trego KS**

Job Ticket: 23316

**DST#: 1**

ATTN: Kim Zinzser

Test Start: 2006.01.21 @ 20:15:19

**Tool Information**

Drill Pipe:	Length: 3576.00 ft	Diameter: 3.80 inches	Volume: 50.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3605.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3578.00	
Shut In Tool	5.00			3583.00	
Hydraulic tool	5.00			3588.00	
Jars	5.00			3593.00	
Safety Joint	3.00			3596.00	
Packer	4.00			3600.00	28.00 Bottom Of Top Packer
Packer	5.00			3605.00	
Stubb	1.00			3606.00	
Perforations	1.00			3607.00	
Change Over Sub	1.00			3608.00	
Recorder	0.00	8018	Inside	3608.00	
Blank Spacing	31.00			3639.00	
Change Over Sub	1.00			3640.00	
Perforations	5.00			3645.00	
Recorder	0.00	13308	Outside	3645.00	
Bullhose	3.00			3648.00	43.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>71.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Zinzser Oil Co., Inc.

**Nicholson "G" # 4**

PO Box 211  
Hays KS 67601

**7-14s-21w Trego KS**

Job Ticket: 23316

**DST#: 1**

ATTN: Kim Zinzser

Test Start: 2006.01.21 @ 20:15:19

**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:

90000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
659.00	Muddy S.Water-75%W-25%M	8.962
1.00	oil	0.014
0.00	50 gas in pipe	0.000

Total Length: 660.00 ft      Total Volume: 8.976 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rkoudele@berexco.com

Serial #: 8018

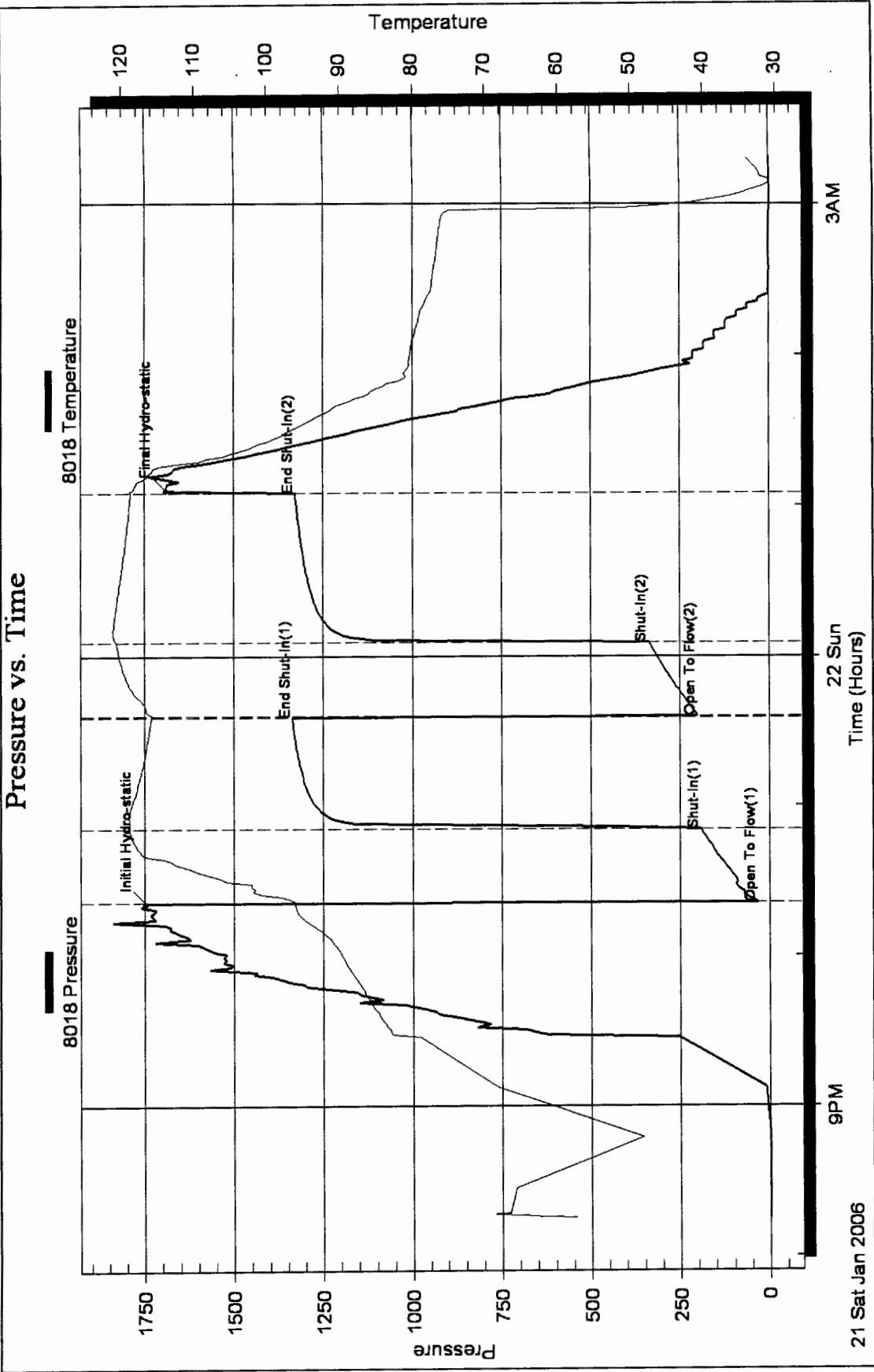
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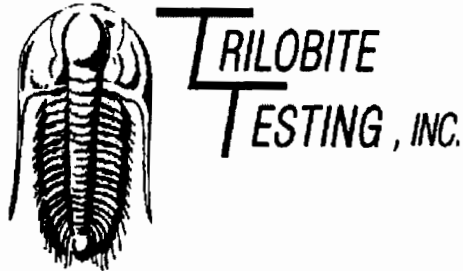
Zinzer Oil Co., Inc.

7-14s-21w Trego KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Zinzser Oil Co., Inc.**

PO Box 211  
Hays KS 67601

ATTN: Kim Zinzser

**7-14s-21w Trego KS**

**Nicholson "G" # 4**

Start Date: 2006.01.22 @ 13:52:07

End Date: 2006.01.22 @ 20:49:37

Job Ticket #: 23317                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Zinzser Oil Co., Inc.

**Nicholson "G" # 4**

PO Box 211  
Hays KS 67601

**7-14s-21w Trego KS**

Job Ticket: 23317

**DST#: 2**

ATTN: Kim Zinzser

Test Start: 2006.01.22 @ 13:52:07

### GENERAL INFORMATION:

Formation: **L.Kc.-I**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:44:07

Time Test Ended: 20:49:37

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3741.00 ft (KB) To 3764.00 ft (KB) (TVD)**

Reference Elevations: **2240.00 ft (KB)**

Total Depth: **3764.00 ft (KB) (TVD)**

**2232.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

**KB to GR/CF: 8.00 ft**

**Serial #: 8018**

**Inside**

Press@RunDepth: **33.82 psig @ 3743.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2006.01.22**

End Date:

**2006.01.22**

Last Calib.: **2006.01.22**

Start Time: **13:52:12**

End Time:

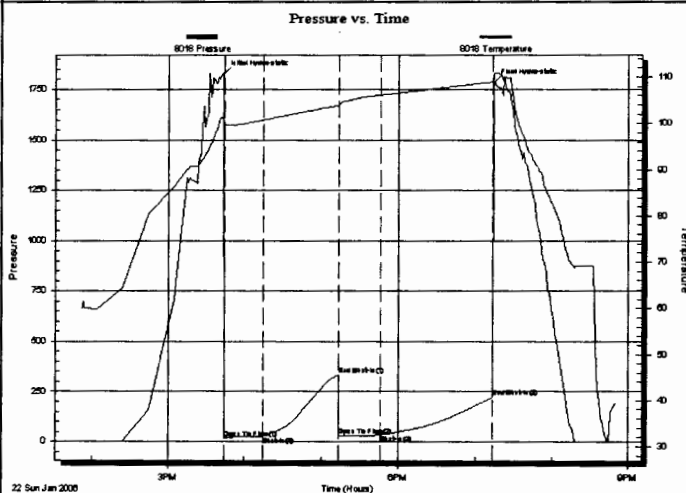
**20:49:36**

Time On Btm: **2006.01.22 @ 15:43:37**

Time Off Btm: **2006.01.22 @ 19:14:07**

TEST COMMENT: **F-Weak Surface Dead in 25 min.**  
**FF-Dead**

**ISI-Dead**  
**FSI-Dead**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.15	100.75	Initial Hydro-static
1	17.29	100.05	Open To Flow (1)
31	26.21	100.77	Shut-In(1)
90	331.66	103.87	End Shut-In(1)
90	30.73	103.93	Open To Flow (2)
123	33.82	106.11	Shut-In(2)
210	223.66	108.94	End Shut-In(2)
211	1783.76	109.51	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil spotted D.Mud	0.07

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Zinzser Oil Co., Inc.

**Nicholson "G" # 4**

PO Box 211  
Hays KS 67601

**7-14s-21w Trego KS**

Job Ticket: 23317

**DST#: 2**

ATTN: Kim Zinzser

Test Start: 2006.01.22 @ 13:52:07

**Tool Information**

Drill Pipe:	Length: 3702.00 ft	Diameter: 3.80 inches	Volume: 51.93 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		<b>Total Volume:</b>	<b>52.08 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3741.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

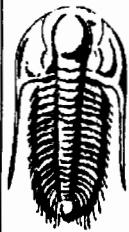
Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3714.00	
Shut In Tool	5.00			3719.00	
Hydraulic tool	5.00			3724.00	
Jars	5.00			3729.00	
Safety Joint	3.00			3732.00	
Packer	4.00			3736.00	28.00 Bottom Of Top Packer
Packer	5.00			3741.00	
Stubb	1.00			3742.00	
Perforations	1.00			3743.00	
Recorder	0.00	8018	Inside	3743.00	
Perforations	18.00			3761.00	
Recorder	0.00	13308	Outside	3761.00	
Bullnose	3.00			3764.00	23.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Zinzser Oil Co., Inc.

**Nicholson "G" # 4**

PO Box 211  
Hays KS 67601

**7-14s-21w Trego KS**

Job Ticket: 23317

**DST#: 2**

ATTN: Kim Zinzser

Test Start: 2006.01.22 @ 13:52:07

### 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: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Oil spotted D.Mud	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8018

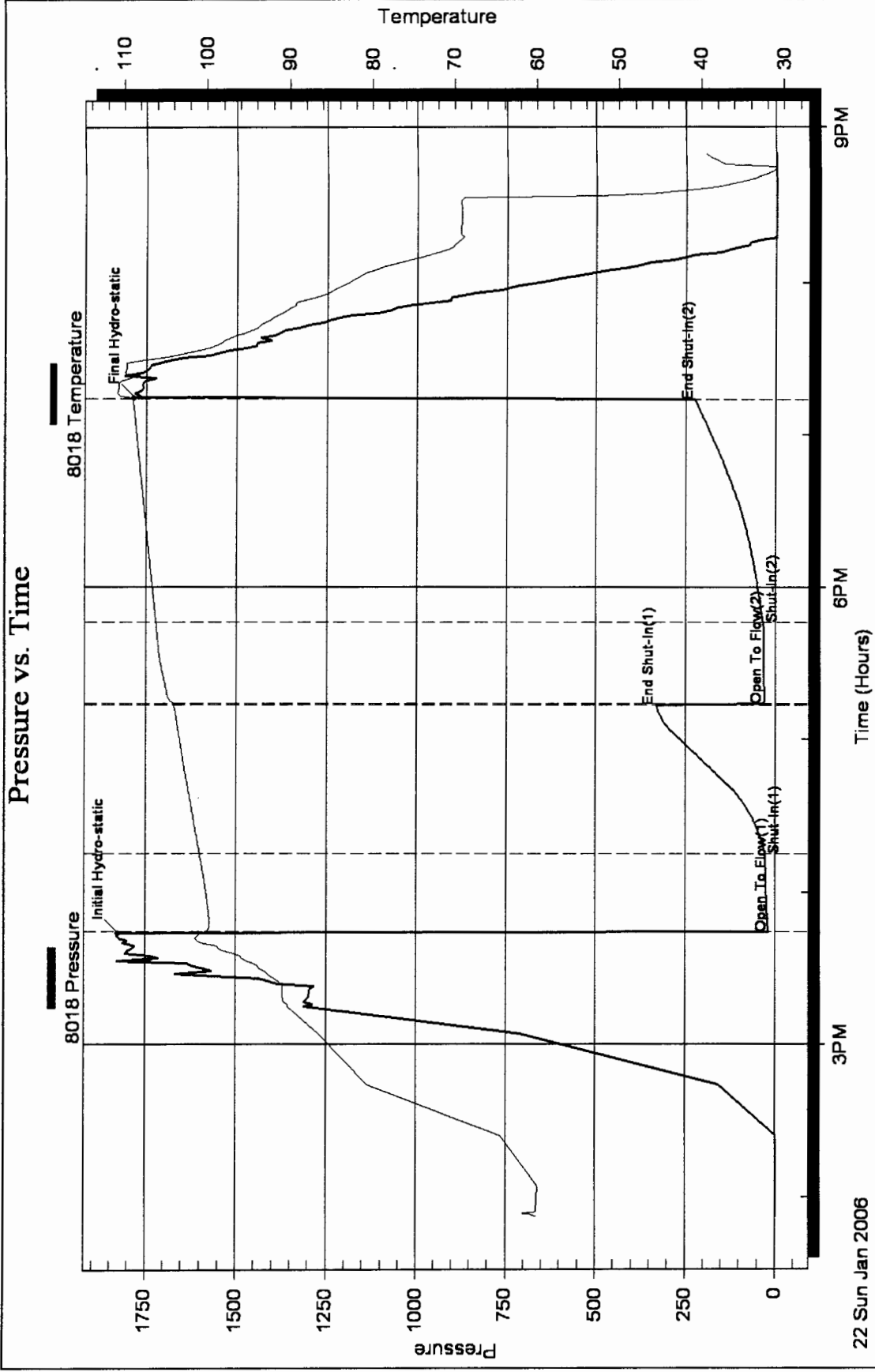
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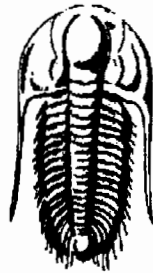
Zinzser Oil Co., Inc.

7-14s-21w Trego KS

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Zinzser Oil Co., Inc.**

PO Box 211  
Hays KS 67601

ATTN: Kim Zinzser

**7-14s-21w Trego KS**

**Nicholson "G" # 4**

Start Date: 2006.01.23 @ 21:09:31

End Date: 2006.01.24 @ 03:49:31

Job Ticket #: 23318                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Zinzser Oil Co., Inc.

Nicholson "G" # 4

7-14s-21w Trego KS

DST # 3

Cherokee

2006.01.23



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Zinzser Oil Co., Inc.

Nicholson "G" # 4

PO Box 211  
Hays KS 67601

7-14s-21w Trego KS

Job Ticket: 23318

DST#: 3

ATTN: Kim Zinzser

Test Start: 2006.01.23 @ 21:09:31

### GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 23:11:31

Time Test Ended: 03:49:31

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3982.00 ft (KB) To 4040.00 ft (KB) (TVD)**

Total Depth: **4040.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2240.00 ft (KB)**

**2232.00 ft (CF)**

KB to GR/CF: **8.00 ft**

**Serial #: 8018** **Inside**

Press@RunDepth: **262.32 psig @ 3985.00 ft (KB)**

Start Date: **2006.01.23**

End Date: **2006.01.24**

Start Time: **21:09:36**

End Time: **03:49:30**

Capacity: **7000.00 psig**

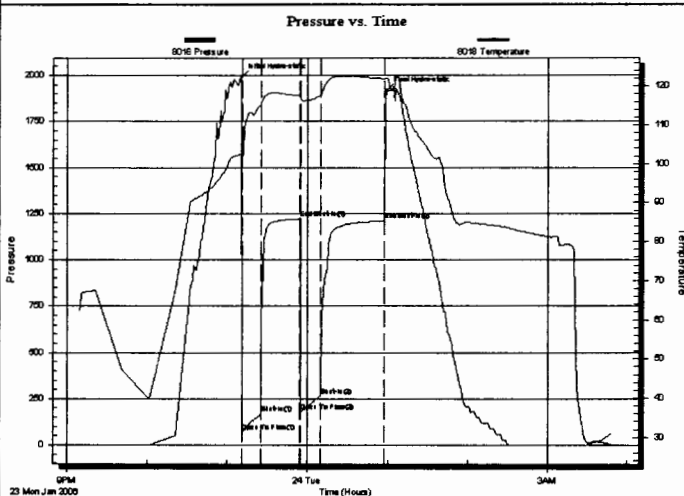
Last Calib.: **2006.01.24**

Time On Btrm: **2006.01.23 @ 23:11:01**

Time Off Btrm: **2006.01.24 @ 00:59:01**

TEST COMMENT: **F-Strong B.O.B.3 min.**  
**FF-Strong B.O.B.3 min.**

**ISI-3" blow back.**  
**FSL-5" blow back.**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.08	102.37	Initial Hydro-static
1	75.25	101.74	Open To Flow (1)
15	172.66	115.09	Shut-In(1)
44	1221.00	117.49	End Shut-In(1)
45	183.02	116.92	Open To Flow (2)
59	262.32	117.52	Shut-In(2)
107	1210.39	121.86	End Shut-In(2)
108	1918.16	122.13	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
200.00	Gassy oil-10%G-90%O	2.52
185.00	Gassy muddy oil 20%G-20%M-60%O	2.60
265.00	Gassy oil 10%G-90%O	3.72
0.00	350 gas in pipe	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Zinzser Oil Co., Inc.

**Nicholson "G" # 4**

PO Box 211  
Hays KS 67601

**7-14s-21w Trego KS**

Job Ticket: 23318

**DST#: 3**

ATTN: Kim Zinzser

Test Start: 2006.01.23 @ 21:09:31

**Tool Information**

Drill Pipe:	Length: 3953.00 ft	Diameter: 3.80 inches	Volume: 55.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3982.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3955.00	
Shut In Tool	5.00			3960.00	
Hydraulic tool	5.00			3965.00	
Jars	5.00			3970.00	
Safety Joint	3.00			3973.00	
Packer	4.00			3977.00	28.00 Bottom Of Top Packer
Packer	5.00			3982.00	
Stubb	1.00			3983.00	
Perforations	1.00			3984.00	
Change Over Sub	1.00			3985.00	
Recorder	0.00	8018	Inside	3985.00	
Blank Spacing	31.00			4016.00	
Change Over Sub	1.00			4017.00	
Recorder	0.00	11084	Outside	4017.00	
Perforations	20.00			4037.00	
Bullnose	3.00			4040.00	58.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>86.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Zinzser Oil Co., Inc.

**Nicholson "G" # 4**

PO Box 211  
Hays KS 67601

**7-14s-21w Trego KS**

Job Ticket: 23318

**DST#: 3**

ATTN: Kim Zinzser

Test Start: 2006.01.23 @ 21:09:31

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Gassy oil-10%G90%O	2.523
185.00	Gassy muddy oil 20%G-20%M-60%O	2.595
265.00	Gassy oil 10%G-90%O	3.717
0.00	350 gas in pipe	0.000

Total Length: 650.00 ft      Total Volume: 8.835 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Hole tight made to trips to rig.

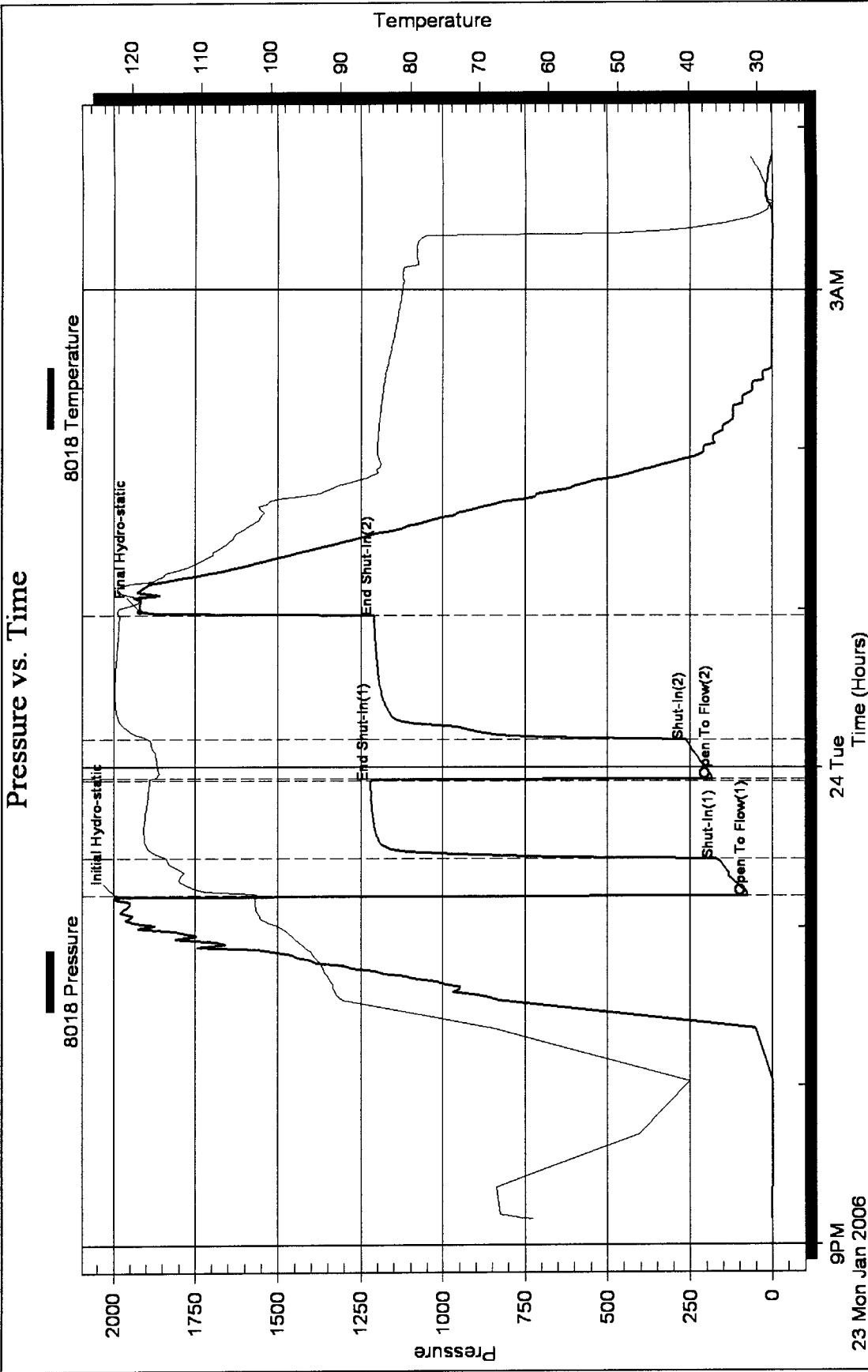
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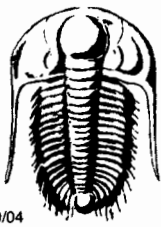
Inside

Zinzser Oil Co., Inc.

7-14s-21w Trego KS

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8341

No 23316

9/04

## Test Ticket

Well Name & No. NICHOLSON "G" #4 Test No. #1 Date 1-21-06  
 Company ZINZSER OIL Co., INC. Zone Tested L.Kc. - C4D  
 Address PO, BOX 211 HAYS, KS. 67601 Elevation ~~2278~~ KB ~~2290~~ GL  
 Co. Rep / Geo. PERRY HENMAN Cont. DISCOVERY #2 Est. Ft. of Pay 2240 Por. 2232 %  
 Location: Sec. 7 Twp. 14S Rge. 21W Co. TREGO State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

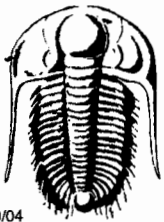
Interval Tested 3605 To 3648 Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 55,000  
 Anchor Length 43' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 3600 Tool Weight 2,500  
 Bottom Packer Depth 3605 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3648 Wt. Pipe Run 0 Drill Collar Run 31'  
 Mud Wt. 9.1 LCM 1/2" Vis. 60 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3576  
 Blow Description IF - STRONG B.O.B. 7-min. FSI - WEAR SURF.  
FF - STRONG B.O.B. 7-min. FSI -

Recovery - Total Feet 660' GIP 50' Ft. in DC 31 Ft. in DP 629  
 Rec. 659 Feet of MUDDY S. WATER %gas \_\_\_\_\_ %oil 75 %water 25 %mud  
 Rec. 1' Feet of OIL %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 118 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .15 @ 42 °F Chlorides 90,000 ppm Recovery \_\_\_\_\_ Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud	<u>1745</u> PSI	Recorder No.	<u>8018</u>	Test <u>B. HOLE</u> <u>1000</u>
(B) First Initial Flow Pressure	<u>33</u> PSI	(depth)	<u>3608</u>	Jars <u>✓</u> <u>200</u>
(C) First Final Flow Pressure	<u>191</u> PSI	Recorder No.	<u>13308</u>	Safety Jt. <u>✓</u> <u>50</u>
(D) Initial Shut-In Pressure	<u>1336</u> PSI	(depth)	<u>3645</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>201</u> PSI	Recorder No.	_____	Sampler _____
(F) Second Final Flow Pressure	<u>336</u> PSI	(depth)	_____	Straddle _____
(G) Final Shut-In Pressure	<u>1327</u> PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1689</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer _____
		Final Flow	<u>30</u>	Ruined Packer _____
		Final Shut-In	<u>60</u>	Mileage <u>RT-60</u> <u>60</u>
		T-On Location	<u>19:00</u>	Sub Total: <u>1310</u>
		T-Started	<u>20:15</u>	Std. By _____
		T-Open	<u>22:21</u>	Other _____
		T-Pulled	<u>01:05</u>	Total: _____
		T-Out	<u>03:17</u>	

TRILLOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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 John J. Schmidt



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23317

9/04

## Test Ticket

Well Name & No. NICHOLSON "6" # 4 Test No. # 2 Date 1-22-06  
 Company ZINZSER OIL CO. Zone Tested L.K.C. F  
 Address \_\_\_\_\_ Elevation 2240 KB 2232 GL  
 Co. Rep / Geo. PERRY HENMEN Cont. DISCOVERY #2 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 7 Twp. 14S Rge. 21W Co. TREGO State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

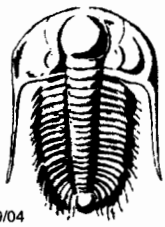
Interval Tested 3741 To 3764 Initial Str Wt./Lbs. 54,000 Unseated Str Wt/Lbs. 54,000  
 Anchor Length 23 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. \_\_\_\_\_  
 Top Packer Depth 3736 Tool Weight 2,500  
 Bottom Packer Depth 3741 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3764 Wt. Pipe Run 0 Drill Collar Run 31  
 Mud Wt. 9.2 LCM 1/2# Vis. 50 WL 8.4 Drill Pipe Size 4 1/2 X 4 Ft. Run \_\_\_\_\_  
 Blow Description IF-WEAK BLOW DEAD IN 25-MIN. ISF-DEAD  
FF-DEAD FSI-DEAD

Recovery - Total Feet 15 GIP 0 Ft. in DC 15 Ft. in DP 0  
 Rec. 15 Feet of OIL SPOTTED & MUD %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 108 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,000 ppm System

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1826</u> PSI	<u>8018</u>	<u>B, HOLE 1000</u>
(B) First Initial Flow Pressure	<u>17</u> PSI	(depth) <u>3743</u>	Jars <u>✓ 200</u>
(C) First Final Flow Pressure	<u>26</u> PSI	Recorder No. <u>13308</u>	Safety Jt. <u>✓ 50</u>
(D) Initial Shut-In Pressure	<u>331</u> PSI	(depth) <u>3761</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>30</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>33</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>223</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1783</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____
		Final Flow <u>30</u>	Ruined Packer _____
		Final Shut-In <u>90</u>	Mileage <u>RT-60 60</u>
		T-On Location <u>13:15</u>	Sub Total: <u>1310</u>
		T-Started <u>13:52</u>	Std. By _____
		T-Open <u>15:44</u>	Other _____
		T-Pulled <u>19:14</u>	Total: _____
		T-Out <u>20:49</u>	

TRILLOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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 John F. Schmidt



# TRILOBITE TESTING INC.

No 23318

P.O. Box 362 • Hays, Kansas 67601

9/04

## Test Ticket

Well Name & No. NICHOLSON "G" #4 Test No. #3 Date 1-23-06  
 Company ZINZSER OIL CO Zone Tested CHEROKEE  
 Address \_\_\_\_\_ Elevation 2240 KB 2232 GL  
 Co. Rep / Geo. PERRY HENMEN Cont. DISCOVERY #2 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 7 Twp. 14S Rge. 21W Co. TREGO State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3982 To 4040 Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 59,000  
 Anchor Length 58 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3977 Tool Weight 2,500  
 Bottom Packer Depth 3982 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4040 Wt. Pipe Run 0 Drill Collar Run 31  
 Mud Wt. 9.3 LCM 1/4" Vis. 46 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3953  
 Blow Description FF-STRONG BOB, 3-MIN, FSI-3" BLOW BACK  
FF-STRONG B.O.B, 3-MIN. FSI-5" BLOW BACK

(HOLE TIGHT MADE 2 TRIPS TO RIG)  
 Recovery - Total Feet 650 GIP 350 Ft. in DC 31 Ft. in DP 619  
 Rec. 200' Feet of GASSY OIL 10% gas 90% oil %water %mud  
 Rec. 185' Feet of GMO 20% gas 60% oil %water 20% mud  
 Rec. 265' Feet of GASSY OIL 10% gas 90% oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 121 °F Gravity 40 °API D @ 60 °F Corrected Gravity 40 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 5,500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1990</u> PSI	<u>8018</u>	<u>B, HOLE 1100</u>
(B) First Initial Flow Pressure		<u>75</u> PSI	<u>3985</u>	Jars <u>200</u>
(C) First Final Flow Pressure		<u>172</u> PSI	<u>11084</u>	Safety Jt. <u>50</u>
(D) Initial Shut-In Pressure		<u>1221</u> PSI	<u>4017</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>183</u> PSI		Sampler _____
(F) Second Final Flow Pressure		<u>262</u> PSI		Straddle _____
(G) Final Shut-In Pressure		<u>1210</u> PSI	Initial Opening <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1918</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>15</u>	Ruined Packer _____
			Final Shut-In <u>45</u>	Mileage <u>RT-60 60</u>
			T-On Location <u>20:30</u>	Sub Total: <u>140</u>
			T-Started <u>21:09</u>	Std. By _____
			T-Open <u>23:11</u>	Other _____
			T-Pulled <u>00:59</u>	Total: _____
			T-Out <u>03:49</u>	

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