

DRILL STEM TEST REPORT

Prepared For: **Zinszer Oil Co Inc**

P O Box 211
Hays Ks 67601

ATTN: Perry Henman

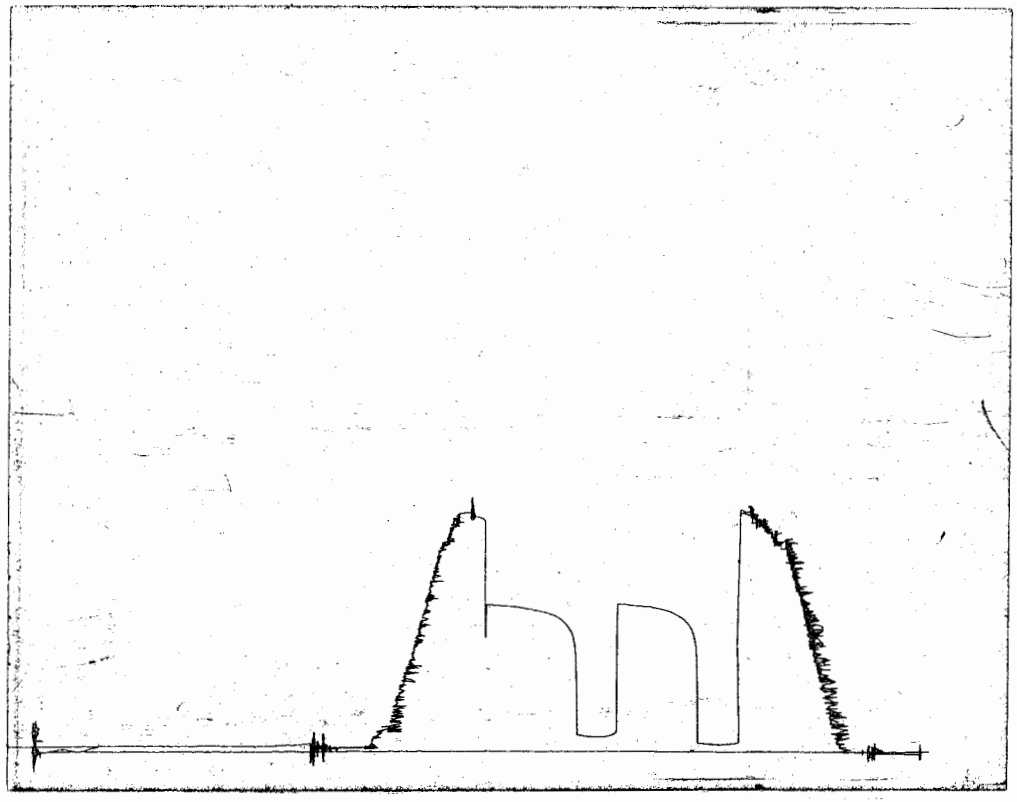
33-8-19 Rooks co KS

Amrein #1

Start Date: 2000.12.16 @ 01:05:00
End Date: 2000.12.16 @ 09:02:00
Job Ticket #: 13943 DST #: 1

Trilobite Testing Inc.
Box 362 Hays KS 67601
785.625.4778 trilobite@eaglecom.net

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 № 13943

Test Ticket

Well Name & No. Amrein #1 Test No. 1 Date 12-16-00

Company Zinszer Oil Co. Inc. Zone Tested Lower Topeka

Address P.O. Box 211, Hays, Ks. 67601 Elevation 2005 KB 1997 GL

Co. Rep / Geo. Paul Montoia Cont. Discovery #2 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 8 Rge. 19 Co. Rooks State Ks

No. of Copies ___ Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 3099 – 3130 Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 37,000

Anchor Length 31 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 40,000

Top Packer Depth 3094 Tool Weight 1000

Bottom Packer Depth 3099 Hole Size — 7 7/8" ___ Rubber Size — 6 3/4" ___

Total Depth 3130 Wt. Pipe Run ___ Drill Collar Run 30

Mud Wt. 8.8 LCM 1# Vis. 41 WL 10 Drill Pipe Size 4.5 XH Ft. Run 3075

Blow Description I.F. Strong - B.O.B. in 22 min.

F.F. Weak - building to 5"

Recovery — Total Feet 216 GIP ___ Ft. in DC 30 Ft. in DP 186

Rec. 2	Feet Of CO	%gas	%oil	%water	%mud
Rec. 214	Feet Of Mdy wtr.	%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 100 °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW .17 @ 60 °F Chlorides 56,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud	___	1476	PSI	Recorder No.	3024	T-On Location	23:00 (2:05)
(B) First Initial Flow Pressure	___	14	PSI	(depth)	3100	T-Started	01:05
(C) First Final Flow Pressure	___	65	PSI	Recorder No.	13254	T-Open	03:48 (8:10)
(D) Initial Shut-In Pressure	___	918	PSI	(depth)	3125	T-Pulled	06:48 (10:15)
(E) Second Initial Flow Pressure	___	67	PSI	Recorder No.	___	T-Out	09:15
(F) Second Final Flow Pressure	___	105	PSI	(depth)	___	T-Off Location	___
(G) Final Shut-in Pressure	___	908	PSI	Initial Opening	30	Test	700
(Q) Final Hydrostatic Mud	___	1444	PSI	Initial Shut-in	60	Jars	___
				Final Flow	30	Safety Joint	___
				Final Shut-in	60	Straddle	___
				___	___	Circ. Sub	___
				___	___	Sampler	___
						Extra Packer	___
						Elec. Rec. X	150
						Mileage	40
						Other	2hrs 60
						TOTAL PRICE $	950

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 Paul A. Montoia

Our Representative Dan Sample

DRILL STEM TEST REPORT

Zinszer Oil Co Inc

P O Box 211
Hays Ks 67601

ATTN: Perry Henman

Amrein #1

33-8-19 Rooks co KS

Job Ticket: 13944 **DST#: 2**

Test Start: 2000.12.16 @ 21:29:29

GENERAL INFORMATION:

Formation: **Toronto/A-B-C-D-**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:27:28
Time Test Ended: 04:55:28

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 11

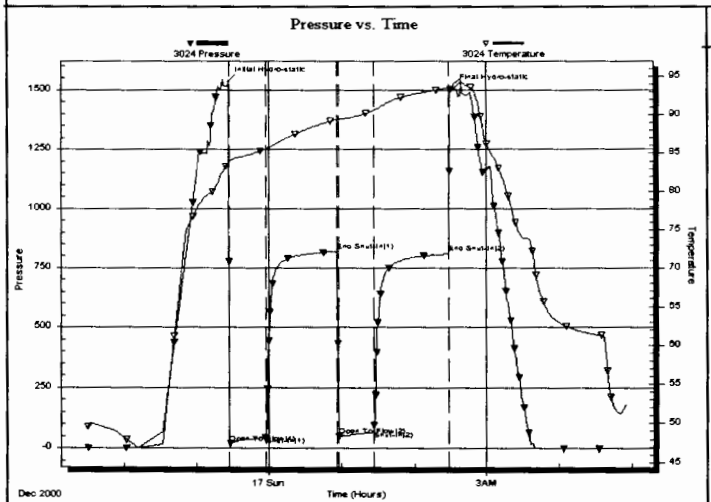
Interval: 3160.00 ft (KB) To 3244.00 ft (KB) (TVD)
Total Depth: 3244.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2005.00 ft (KB)
1997.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3024 Inside
Press@RunDepth: 67.38 psig @ 3166.01 ft (KB)
Start Date: 2000.12.16 End Date: 2000.12.17
Start Time: 21:29:29 End Time: 04:55:28

Capacity: 7000.00 psig
Last Calib.: 2000.12.16
Time On Btm: 2000.12.16 @ 23:26:28
Time Off Btm: 2000.12.17 @ 02:32:28

TEST COMMENT: IF-Weak building to 6" fair
FF-Weak building to 2"



PRESSURE SUMMARY

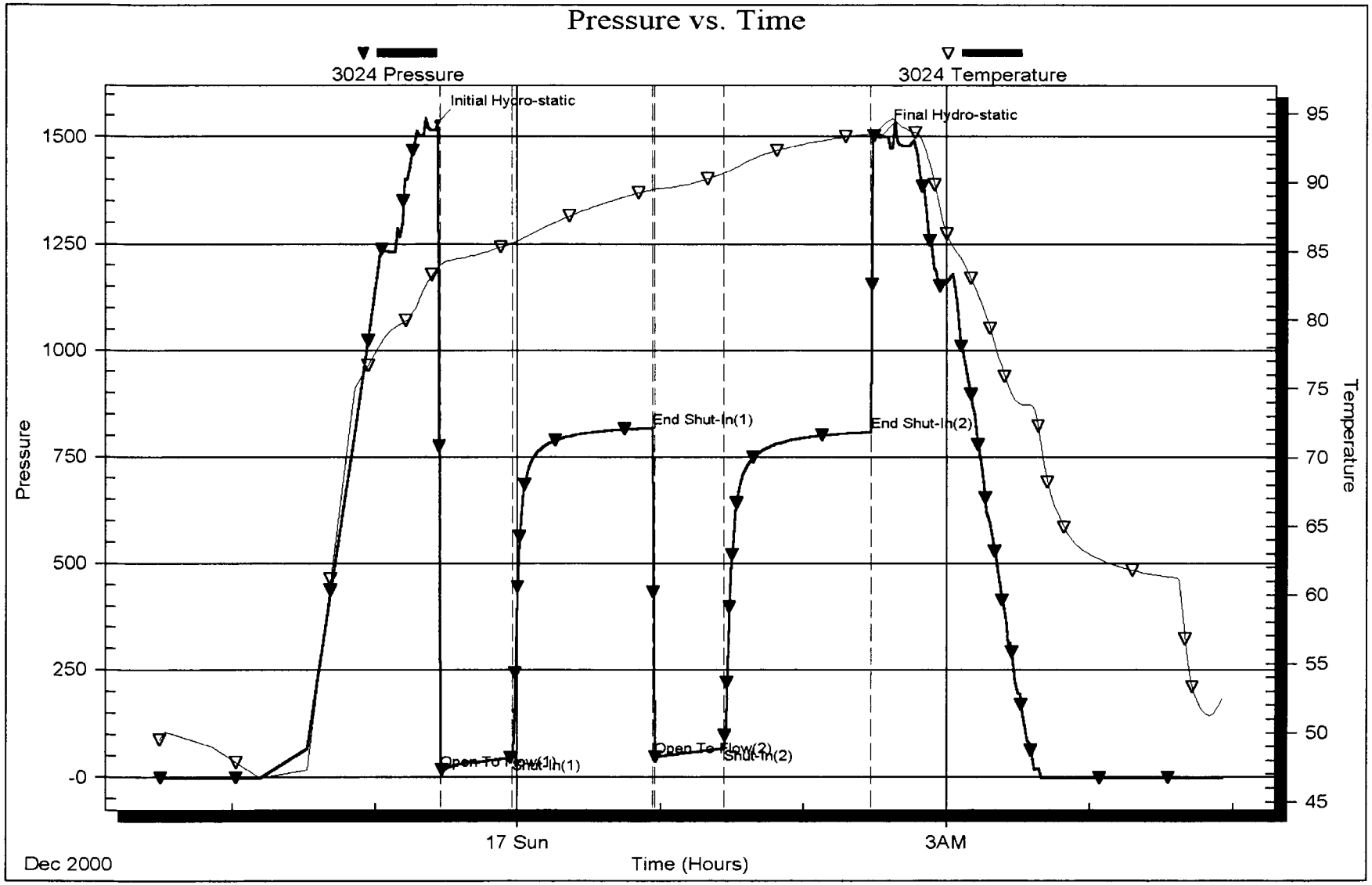
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
117	1534.15	83.82	Initial Hydro-static
118	16.71	84.00	Open To Flow (1)
148	46.11	85.60	Shut-In(1)
207	818.10	89.44	End Shut-In(1)
208	48.11	89.51	Open To Flow (2)
237	67.38	90.65	Shut-In(2)
299	808.94	93.54	End Shut-In(2)
303	1501.27	93.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	Muddy water Rw .23 @ 68= 68000	1.20

Gas Rates

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


Pressure vs. Time
3024 Pressure
3024 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
1500
1250
1000
750
500
250
-0
Pressure
95
90
85
80
75
70
65
60
55
50
45
Temperature
17 Sun
3AM
Time (Hours)
Dec 2000

DRILL STEM TEST REPORT

Zinszer Oil Co Inc

P O Box 211
Hays Ks 67601

ATTN: Perry Henman

Amrein #1

33-8-19 Rooks co KS

Job Ticket: 13945 **DST#: 3**

Test Start: 2000.12.17 @ 13:24:41

GENERAL INFORMATION:

Formation: **E-F-G LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:18:10
Time Test Ended: 20:43:40

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 11

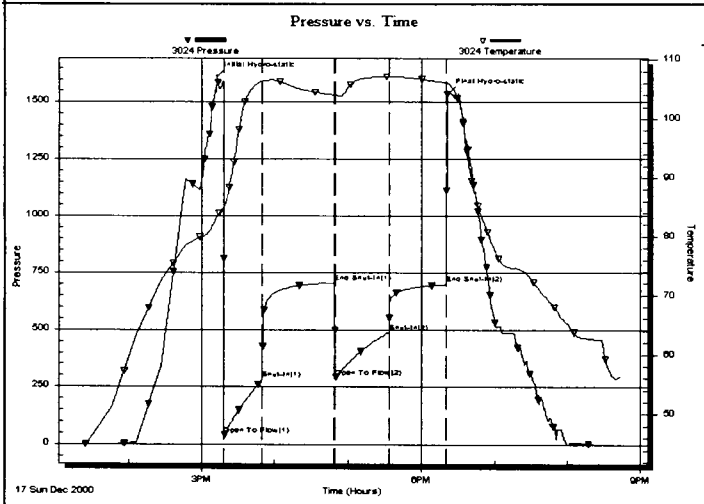
Interval: 3239.00 ft (KB) To 3285.00 ft (KB) (TVD)
Total Depth: 3285.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2005.00 ft (KB)
1997.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3024 Inside
Press@RunDepth: 487.89 psig @ 3250.01 ft (KB)
Start Date: 2000.12.17 End Date: 2000.12.17
Start Time: 13:24:41 End Time: 20:43:40

Capacity: 7000.00 psig
Last Calib.: 2000.12.16
Time On Btm: 2000.12.17 @ 15:12:40
Time Off Btm: 2000.12.17 @ 18:22:40

TEST COMMENT: IF-Strong B.O.B.in 3 min
FF-Strong B.O.B. in 4 min



PRESSURE SUMMARY

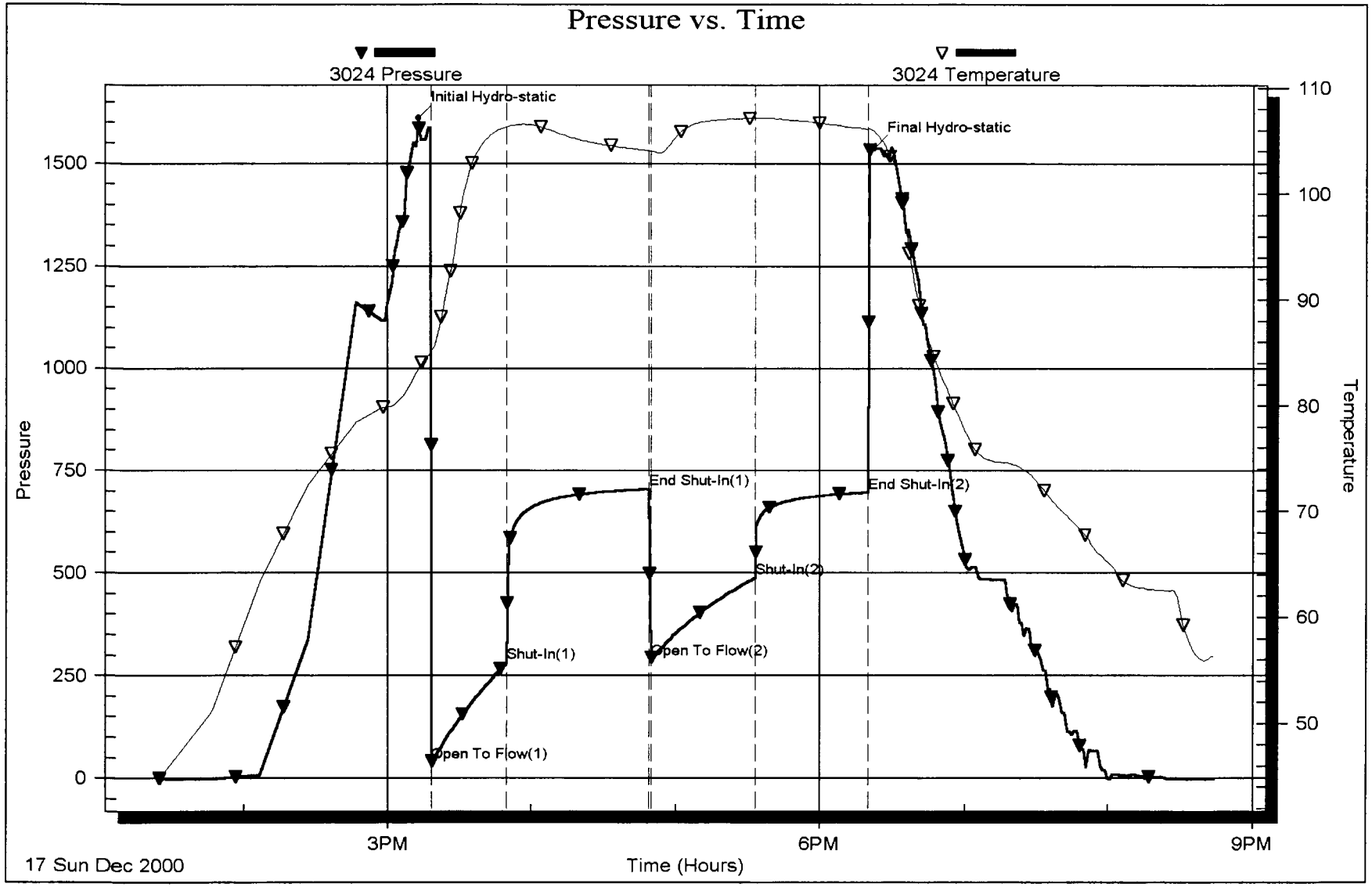
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
108	1611.20	83.54	Initial Hydro-static
114	38.32	85.24	Open To Flow (1)
145	282.13	106.35	Shut-In(1)
204	704.98	104.07	End Shut-In(1)
205	290.74	104.04	Open To Flow (2)
249	487.89	107.15	Shut-In(2)
296	697.23	106.13	End Shut-In(2)
298	1537.74	105.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1116.00	Sulfer Water	15.38

Gas Rates

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


Pressure vs. Time
3024 Pressure
3024 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
3PM
6PM
9PM
17 Sun Dec 2000
Time (Hours)

DRILL STEM TEST REPORT

Zinszer Oil Co Inc

P O Box 211
Hays Ks 67601

ATTN: Perry Henman

Amrein #1

33-8-19 Rooks co KS

Job Ticket: 13946 **DST#: 4**

Test Start: 2000.12.18 @ 09:45:18

GENERAL INFORMATION:

Formation: **"J" LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:33:17
Time Test Ended: 15:14:47

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 11

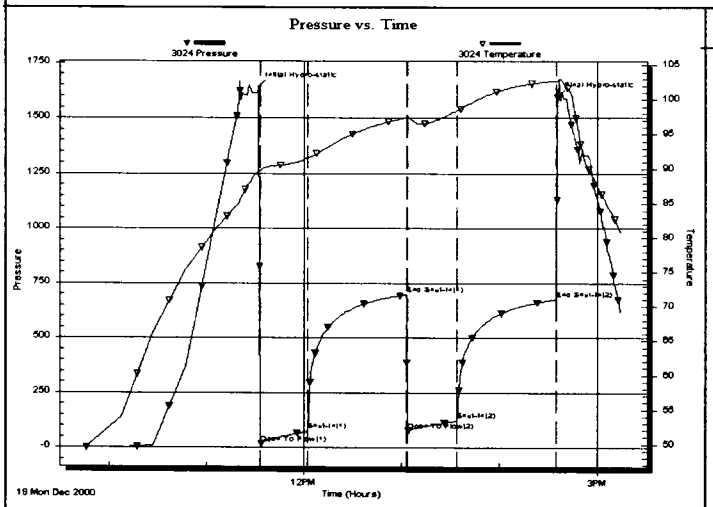
Interval: 3343.00 ft (KB) To 3370.00 ft (KB) (TVD)
Total Depth: 3370.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2005.00 ft (KB)
1997.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3024 Inside
Press@RunDepth: 122.95 psig @ 3344.01 ft (KB)
Start Date: 2000.12.18 End Date: 2000.12.18
Start Time: 09:45:18 End Time: 15:14:47

Capacity: 7000.00 psig
Last Calib.: 2000.12.16
Time On Btm: 2000.12.18 @ 11:32:17
Time Off Btm: 2000.12.18 @ 14:35:47

TEST COMMENT: IF-Strong B.O.B. in 20 min
FF-Weak building to 7"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
107	1637.97	89.76	Initial Hydro-static
108	14.42	89.85	Open To Flow (1)
137	74.08	91.61	Shut-In(1)
198	697.09	97.48	End Shut-In(1)
198	76.95	97.51	Open To Flow (2)
229	122.95	98.47	Shut-In(2)
290	676.64	102.74	End Shut-In(2)
291	1597.76	102.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
231.00	Water w/ show of oil on top	2.97

Gas Rates

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

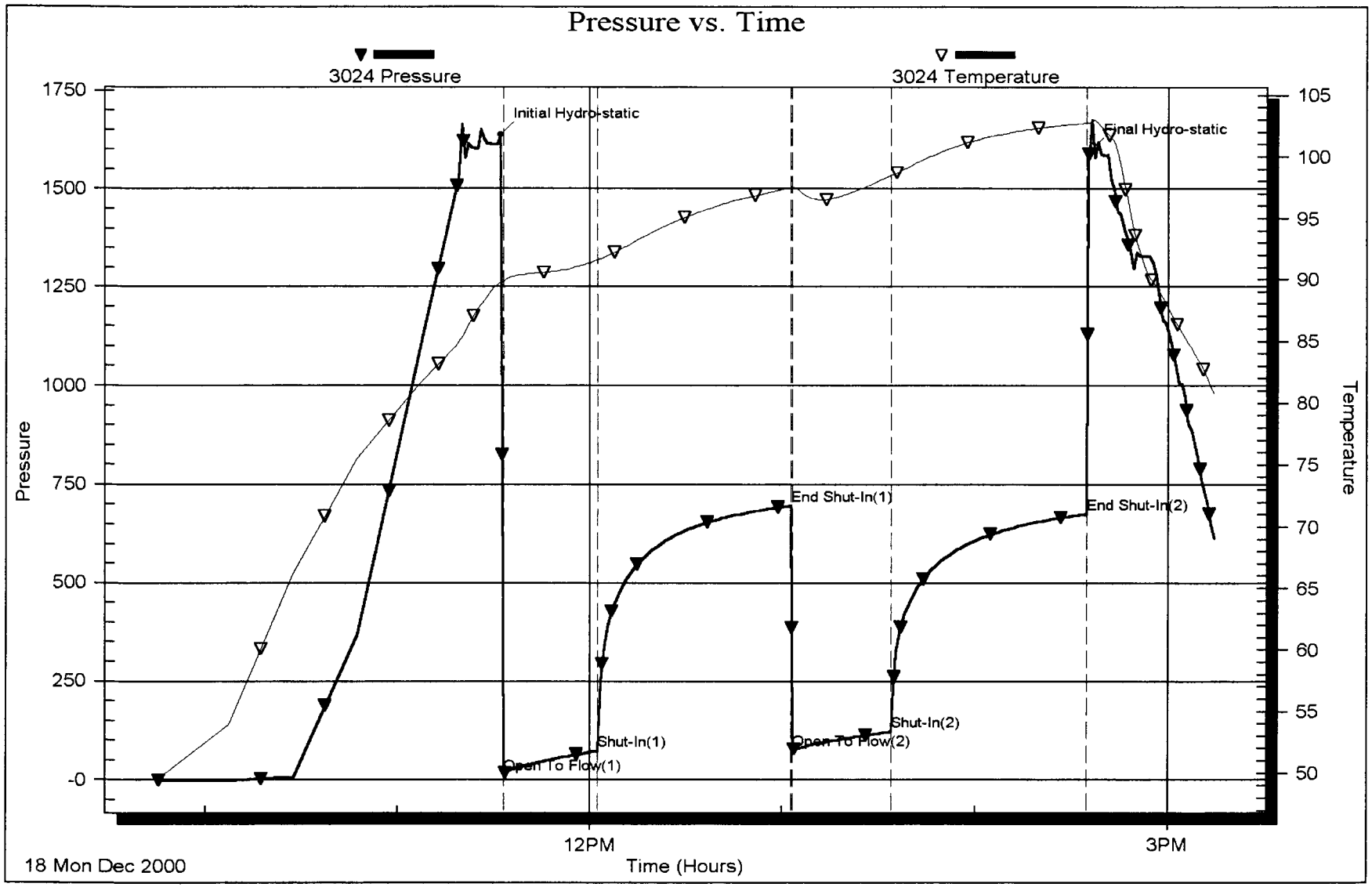
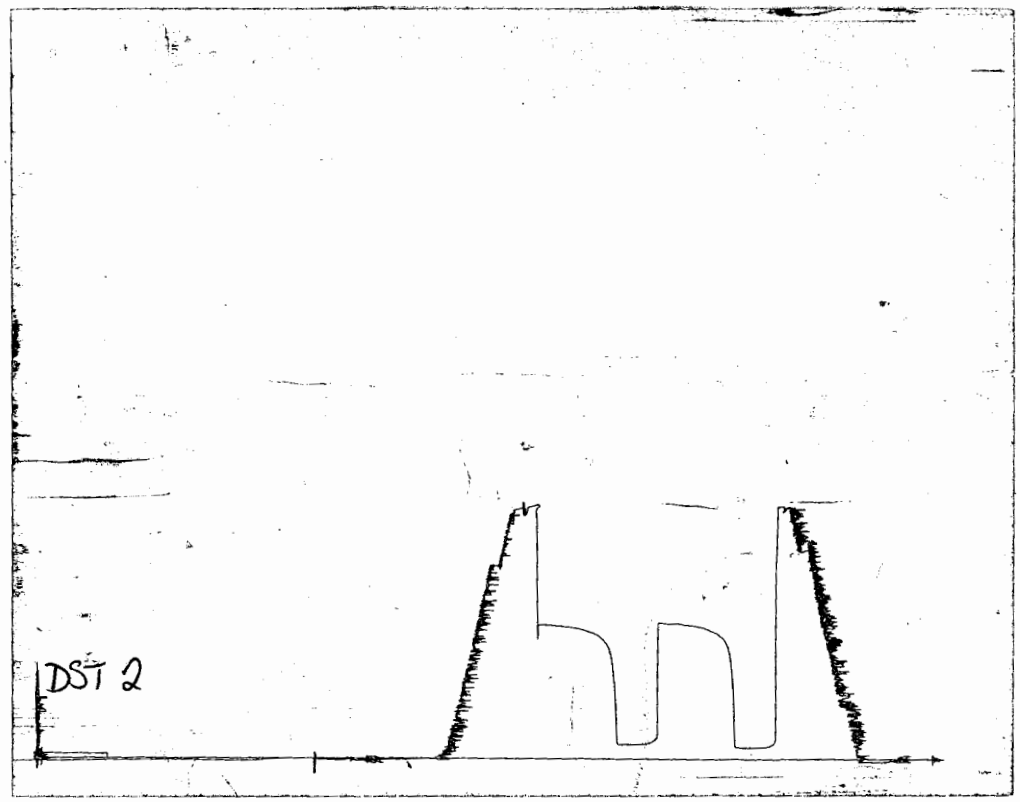

Pressure vs. Time
3024 Pressure
3024 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
1750
1500
1250
1000
750
500
250
-0
Pressure
105
100
95
90
85
80
75
70
65
60
55
50
Temperature
12PM
3PM
Time (Hours)
18 Mon Dec 2000

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 № 13944

Test Ticket

Well Name & No. Amrein #1 Test No. 2 Date 12-16-00

Company Zinszer Oil Co. Inc Zone Tested Toronto/ABCD-LKC

Address _____ Elevation 2005 KB 1997 GL

Co. Rep / Geo. Paul Montoia Cont. Discovery #2 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 33 Twp. 8 Rge. 19 Co. Rooks State Ks

No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3160-3244 Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 36,000

Anchor Length 84 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 39,000

Top Packer Depth 3155 Tool Weight 1000

Bottom Packer Depth 3160 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 3244 Wt. Pipe Run _____ Drill Collar Run 90

Mud Wt. 9.1 LCM ____ Vis. 45 WL 8.8 Drill Pipe Size 4.5XH Ft. Run 3200

Blow Description IF - Weak - building To 6" fair blow

F.F. Weak - building To 2"

Recovery — Total Feet 105 GIP _____ Ft. in DC 90 Ft. in DP 76

Rec. 105	Feet Of mdy wtr.	%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 93 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW .23 @ 68 °F Chlorides 68,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		1534	PSI	Recorder No.	3024	T-On Location	20:30
(B) First Initial Flow Pressure		16	PSI	(depth)	3166	T-Started	21:29
(C) First Final Flow Pressure		46	PSI	Recorder No.	13254	T-Open	23:35
(D) Initial Shut-In Pressure		818	PSI	(depth)	3229	T-Pulled	02:35
(E) Second Initial Flow Pressure		48	PSI	Recorder No.		T-Out	05:00
(F) Second Final Flow Pressure		67	PSI	(depth)		T-Off Location	05:20
(G) Final Shut-in Pressure		808	PSI	Initial Opening	30	Test	700
(Q) Final Hydrostatic Mud		1501	PSI	Initial Shut-in	60	Jars	
				Final Flow	30	Safety Joint	
				Final Shut-in	60	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec.	X 150
						Mileage	40
						Other	
						TOTAL PRICE $	890

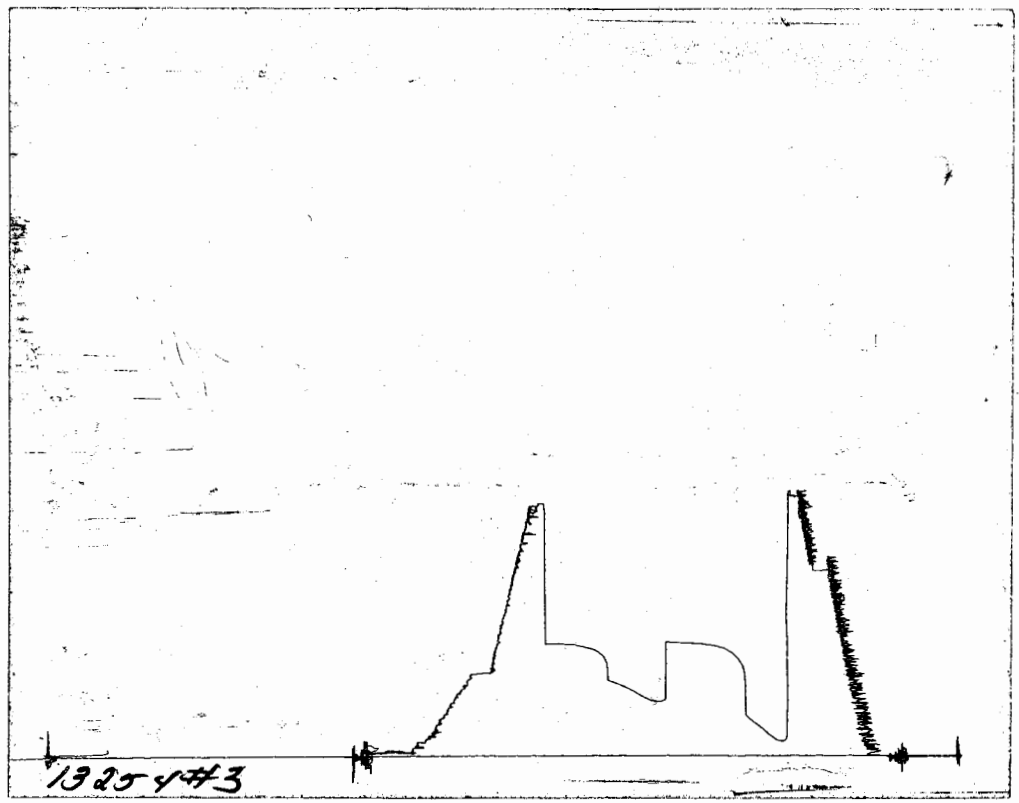
1:00
1:31

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 Sample

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 № 13945

Test Ticket

Well Name & No. Amrein #1 Test No. 3 Date 12-17-00

Company Zinszer Oil Co Inc Zone Tested E-F-G-LKC

Address _____ Elevation 2005 KB 1997 GL

Co. Rep / Geo. Paul Montoia Cont. Discovery #2 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 33 Twp. 8 Rge. 19 Co. Rooks State Ks

No. of Copies ____ Distribution Sheet (Y, N) ____ Turnkey (Y, N) ____ Evaluation (Y, N) ____

Interval Tested 3285 – 3244 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 42,000

Anchor Length 41 Wt. Set Lbs. 39000 Wt. Pulled Loose/Lbs. 59,000

Top Packer Depth 3239 Tool Weight 1500

Bottom Packer Depth 3244 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3285 Wt. Pipe Run ____ Drill Collar Run 30

Mud Wt. 9.1 LCM ____ Vis. 47 WL 8.8 Drill Pipe Size 4.5 XH Ft. Run 3201

Blow Description I.F. Strong - B.O.B. in 3 min.

F.F. Strong - B.O.B. in 4 min.

Recovery — Total Feet 1116 GIP ____ Ft. in DC 30 Ft. in DP 1086

Rec. 1116	Feet Of Sulfer water	%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 106 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW .14 @ 68.1 °F Chlorides 58,000 ppm Recovery Chlorides 4,000 ppm System

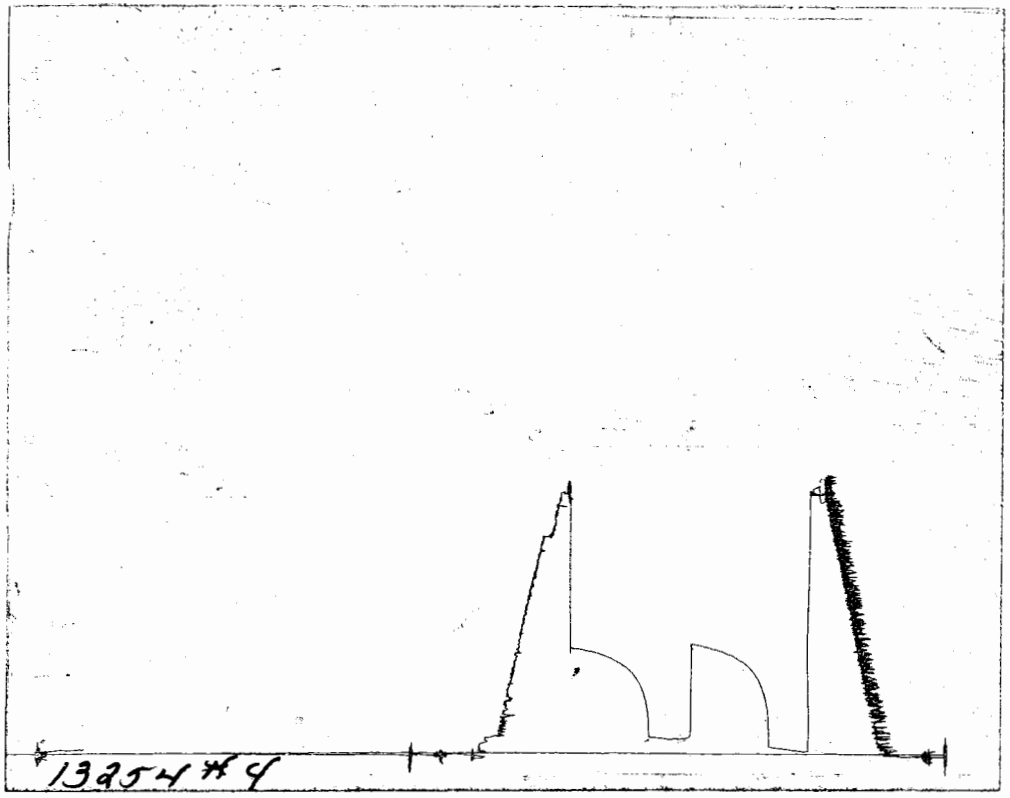
	AK-1	Alpine					
(A) Initital Hydrostatic Mud	____	1611	PSI	Recorder No.	3024	T-On Location	13:15 (13:09)
(B) First Initial Flow Pressure	____	38	PSI	(depth)	3250	T-Started	13:24
(C) First Final Flow Pressure	____	282	PSI	Recorder No.	13254	T-Open	15:27 (7:36)
(D) Initial Shut-In Pressure	____	704	PSI	(depth)	3280	T-Pulled	18:27
(E) Second Initial Flow Pressure	____	290	PSI	Recorder No.	____	T-Out	21:00
(F) Second Final Flow Pressure	____	487	PSI	(depth)	____	T-Off Location	21:15
(G) Final Shut-in Pressure	____	697	PSI	Initial Opening	30	Test	700
(Q) Final Hydrostatic Mud	____	1537	PSI	Initial Shut-in	60	Jars	____
				Final Flow	45	Safety Joint	____
				Final Shut-in	45	Straddle	____
				____	____	Circ. Sub	____
				____	____	Sampler	____
						Extra Packer	____
						Elec. Rec.	X 150
						Mileage	40
						Other	____
						TOTAL PRICE $	890

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 Dave Bengtson

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 № 13946

Test Ticket

Well Name & No. Amrein #1 Test No. 4 Date 12-18-00

Company Zinszer Oil Co. Inc Zone Tested "J" LKC

Address _____ Elevation 2005 KB 1997 GL

Co. Rep / Geo. Paul Montoia Cont. Discovery #2 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 33 Twp. 8 Rge. 19 Co. Rooks State Ks

No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3343 — 3370 Initial Str Wt./Lbs. 39,000 Unseated Str Wt./Lbs. 40,000

Anchor Length 27' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 45,000

Top Packer Depth 3338 Tool Weight 1100

Bottom Packer Depth 3343 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 3370 Wt. Pipe Run _____ Drill Collar Run 30

Mud Wt. 9.2 LCM 4# Vis. 43 WL 8.8 Drill Pipe Size 4.5 XH Ft. Run 3323

Blow Description I.F. Strong - B.O.B. in 20 min.

F.F. Weak - building to 8"

Recovery — Total Feet 231 GIP _____ Ft. in DC 30 Ft. in DP 201

Rec. 231	Feet Of WTR w/show	%gas	%oil	%water	%mud
Rec. _____	Feet Of free oil on Top	%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 _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW .123 @ 65° °F Chlorides 65,000 ppm Recovery Chlorides 7,000 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud	1588		PSI	Recorder No.	3024	T-On Location	09:10 (1:35)
(B) First Initial Flow Pressure	23		PSI	(depth)	3344	T-Started	09:45
(C) First Final Flow Pressure	30		PSI	Recorder No.	13254	T-Open	11:41 (7:15)
(D) Initial Shut-In Pressure	674		PSI	(depth)	3365	T-Pulled	14:41
(E) Second Initial Flow Pressure	94		PSI	Recorder No.		T-Out	17:00
(F) Second Final Flow Pressure	106		PSI	(depth)		T-Off Location	17:15
(G) Final Shut-in Pressure	651		PSI	Initial Opening	30	Test	700
(Q) Final Hydrostatic Mud	1553		PSI	Initial Shut-in	60	Jars	
				Final Flow	30	Safety Joint	
				Final Shut-in	60	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec. X	150
						Mileage	40
						Other	
						TOTAL PRICE $	890

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 Rample

SRU Job Information

Company: Linger ZINSZER

Address: _____

_____

Polymer Comp: PST

Well Name & No: Ameing #1

Location: _____

Start Date: _____ Time: _____ End Date: _____

Comments: 3326 tod

Zurich 5.5 N (DGS well)

W No

Date	Miles	Reason
8/27	43x2	Started
9/4	43 x2	ovl

Trilobite Rep: BS IN Psart

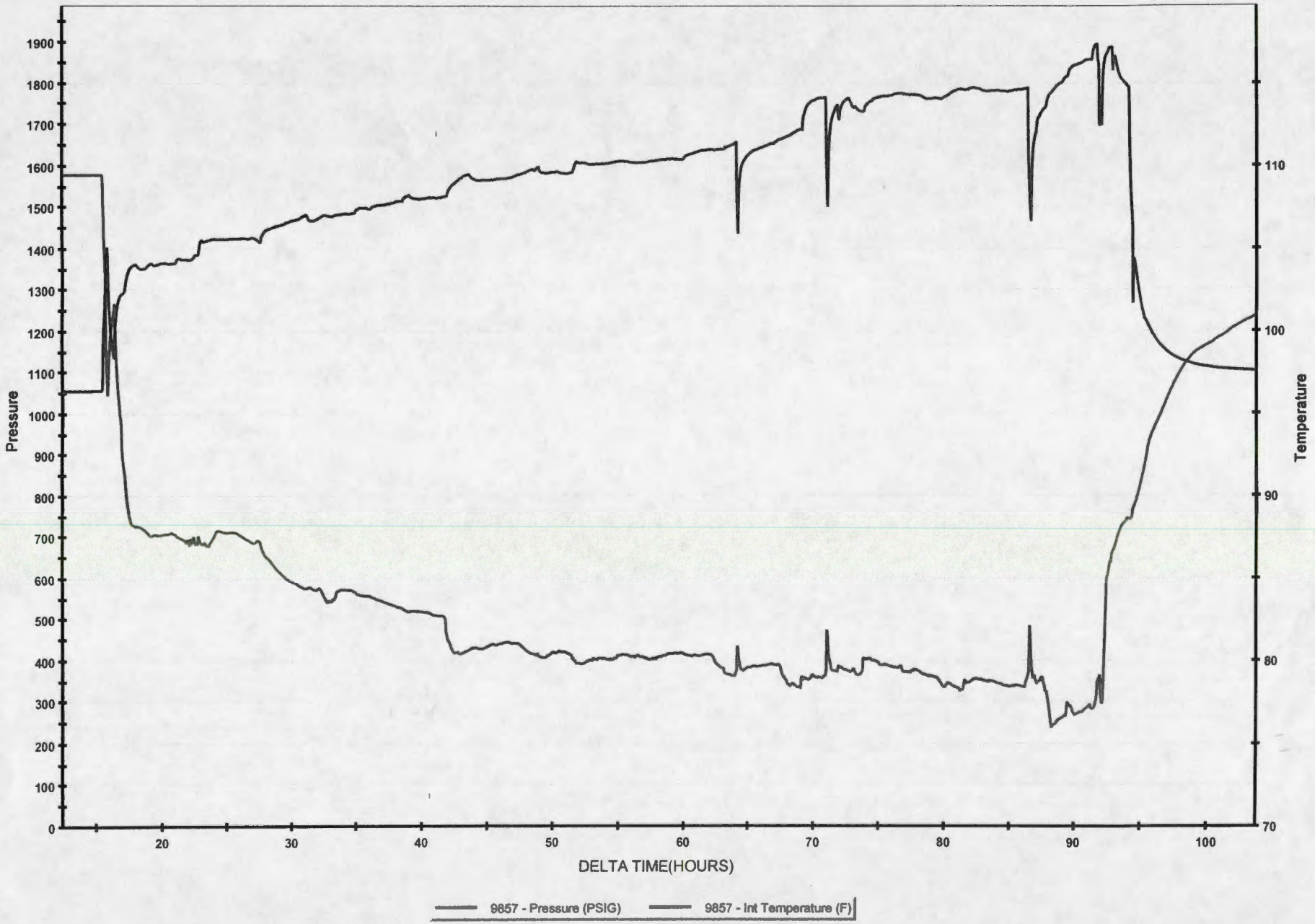
100
15
85
- 24
61
- 24
- 24
13

107.50
1000
800
800
442
107.50
3257

86

PRESSURE AND TEMPERATURE VS DELTA TIME

Company: Zinszer
Location: Amrein #1
Date: 9/4/07
Serial# 9857
Max. Pressure: 1898.703 Max. Temperature: 110.009



Company: ZINZER OIL Date: 8/27/07

Well Name: AMREIN #1

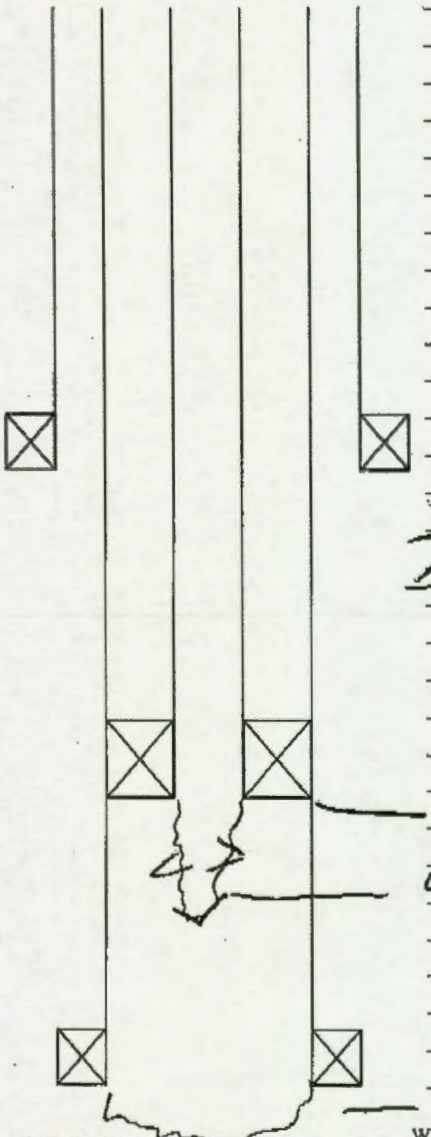
Job Type: VB-247 Tubing Size: 2 3/8" Casing Size: 5 1/2"

Open Hole: 3435-39' Perfs: NONE

Packer Setting: 3326 BP Setting: NONE Max Rate: 1440 BPD

Max Psi: 2000 BHST: 110 Form: ARB Tail Pipe: 4' PERF SUB

POLYMER SERVICES LLC
1733 W Road
Plainville, Kansas 67663
785-434-2474 or 800-625-3791
POLYMER GEL TECHNOLOGY FOR THE OIL AND GAS INDUSTRY



- POLYMER TO START TUESDAY 8/28/07 8:00 A.M.
- WELL LOCATION IS 5½ N OF ZURICH ON BLACKTOP,
- WEST THRU CATTLEGUARD, THEN SW TO WELL.
- EARLY SURFACE PRESSURE EXPECTED.
- HIGH SURFACE PRESSURE EXPECTED.
- NOTE: 4' PERF SUB BELOW PACKER. CLOSED ON BOTTOM NOT OPEN-ENDED.
- PACKER @ 3326'
- 4' CLOSED END PERF SUB @ 3330' ??!!
- OPEN HOLE 3435-39'

VO. BETWEEN PIPE & HOLE CAP

	BBL/FT	FT/BBL	CF/LF
4 1/2-7 7/8	.0406	24.65	.2278
5 1/2-7 7/8	.0309	32.41	.1733
8 5/8-12 1/4	.0735	13.61	.4127
9 5/8-12 1/4	.0558	17.93	.3132
13 3/8-17 1/2	.1924	8.08	.6946

VO. BETWEEN PIPE & HOLE CAP

	WT.	BBL/FT	FT/BBL	CF/LF
2 3/8-4 1/2	11.6	.0101	99.37	.0565
2 3/8-5 1/2	17.0	.0178	56.28	.0998
2 7/8-5 1/2	17.0	.0152	65.71	.0854
2 7/8-7	23.0	.0313	31.91	.1760

SIZE	WEIGHT (LB/FT)	ID	BBL/FT
1 1/2...	2.90...	1.610...	0.0025
2 1/16	3.40...	1.751...	0.0030
2 3/8	4.70...	1.995...	0.0155
2 1/2,,	6.40...	2.441...	0.0058
2 1/2...	8.60...	2.259...	0.0050
3.....	7.70...	2.943...	0.0091
3.....	9.30...	2.867...	0.0087
3.....	10.20..	2.797...	0.0083
3.....	12.95..	2.625...	0.0074
3 1/2..	9.50...	3.548...	0.0122
3 1/2..	11.00..	3.476...	0.0117
4.....	12.60..	3.958...	0.0152

OD	WEIGHT (LB/FT)	ID	BBL/FT
4 1/2...	9.50	4.090...	0.0163
4 1/2...	10.50	4.052...	0.0159
4 1/2...	11.60	4.000...	0.0155
4 1/2...	12.75	3.953...	0.0152
4 1/2...	13.50	3.920...	0.0149
4 1/2...	15.10	3.826...	0.0142
4 3/4...	16.00	4.082...	0.0163
5.....	13.00	4.494...	0.0196
5.....	15.00	4.408...	0.0189
5.....	18.00	4.276...	0.0178
5.....	21.00	4.154...	0.0168
5 1/2...	14.00	5.012...	0.0244
5 1/2...	15.00	4.974...	0.0240
5 1/2...	15.50	4.950...	0.0238

OD	WEIGHT (LB/FT)	ID	BBL/FT
5 1/2...	17.00	4.892...	0.0232
5 1/2...	20.00	4.778...	0.0222
5 1/2...	23.00	4.670...	0.0212
7.....	17.00	6.538...	0.0415
7.....	20.00	6.456...	0.0405
7.....	23.00	6.366...	0.0394
7.....	24.00	6.336...	0.0390
7.....	26.00	6.276...	0.0383
7.....	29.00	6.184...	0.0371
7.....	30.00	6.154...	0.0368
7.....	32.00	6.094...	0.0361
7.....	35.00	6.004...	0.0350
7.....	38.00	5.920...	0.0340

Zinszer Amrein I	113 hrs	
Polymer tests		
mileage	82	$1/mile rt
1st day	900	
more days 88hrs	3) 2100	700/day ~~or 30/hr~~
	16) 480	30/hr
mileage	82	$1/mile rt
port sep		400/day/3
		80/day/after 3
TOTAL	3644	

7917

SRU Job Information

Company: Zinser Oil

Address: _____

_____

Co. Rep: _____

Well Name & No: Amen #1

Location: _____

Start Date: _____ Time: _____ End Date: _____

Comments: 9400 SRU #3
PST
1/4 N Rds
2 unds N to pipe Sin
W thru cattleguard

Date	Miles	Reason
9/19	41 X2	

Trilobite Rep: Paul (In) Darin (Out)

PRESSURE AND TEMPERATURE VS DELTA TIME

Company: Zinszer Oil Comp
Location: Amrein #1
Date: 9-19-05
Serial# 9977
Max. Pressure: 1836.722 Max. Temperature: 110.122

