

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #5 DIRKS B Test No. 1 Date 9/24/92
Company ZINSZER OIL OPERATIONS Zone ARBUCKLE
Address 206 W 26th HAYS KS 67601 Elevation 2084
Co. Rep./Geo. PAUL MONTOIA Cont. EMPHASIS RIG #5 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 18S Rge. 18W Co. RUSH State KS

Interval Tested <u>3815-3843</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>28</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>600</u>
Top Packer Depth <u>3810</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3815</u>	Mud Wt. <u>9.3</u> lb/Gal.
Total Depth <u>3843</u>	Viscosity <u>54</u> Filtrate <u>8.5</u>

Tool Open @ 10:45 PM ^{Initial Blow} STRONG BLOW-BOTTOM OF BUCKET IN 1 MINUTE

Final Blow STRONG BLOW-BOTTOM OF BUCKET IN 1/2 MINUTE

Recovery - Total Feet 2600 Flush Tool? NO

Rec. <u>400</u>	Feet of <u>WATERY MUD-SLIGHTLY GASSY / 5%GAS/10%WTR/85%MUD</u>
Rec. <u>2200</u>	Feet of <u>SLTLY GASSY WATER-5%GAS/95%WTR</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.2 @ 60 °F Chlorides 40000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1915.8 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 841.2 PSI @ (depth) 3820 w / Clock No. 31152

(C) First Final Flow Pressure 950.6 PSI AK1 Recorder No. 10332 Range 4025

(D) Initial Shut-in Pressure 1206.8 PSI @ (depth) 3840 w / Clock No. 14389

(E) Second Initial Flow Pressure 1043.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 1189.6 PSI @ (depth) _____ w / Clock No. _____

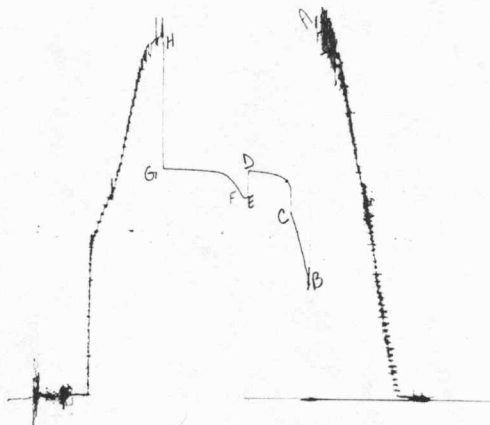
(G) Final Shut-in Pressure 1201.4 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1880.7 PSI Initial Shut-in 30 Final Shut-in 45

Our Representative JOHN RIELL

CHART PAGE

RK 10332 DST #1



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1906	1915.8
(B) FIRST INITIAL FLOW PRESSURE	546	841.2
(C) FIRST FINAL FLOW PRESSURE	953	950.6
(D) INITIAL CLOSED-IN PRESSURE	1201	1206.8
(E) SECOND INITIAL FLOW PRESSURE	1044	1043.2
(F) SECOND FINAL FLOW PRESSURE	1185	1189.6
(G) FINAL CLOSED-IN PRESSURE	1197	1201.4
(H) FINAL HYDROSTATIC MUD	1885	1880.7

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

NE 5093

#5 DINKS

Well Name & No. <u>DINKS 6^{#5}</u>	Test No. <u>1</u>	Date <u>9-24-92</u>
Company <u>ZINSER OIL OPER</u>	Zone Tested <u>ARBUCKLE</u>	
Address <u>206 W 26TH ST HAYS 67601</u>	Elevation <u>2079.6</u>	
Co. Rep./Geo. <u>PERBY HEDMAN</u>	Cont. <u>EMPHASIS 5165</u>	Est. Ft. of Pay
Location: Sec. <u>15</u>	Twp. <u>18S</u>	Rge. <u>18W</u> Co. <u>RUSH</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet	Yes <u>X</u> No <u>X</u> Turnkey Yes <u>X</u> No <u>NO</u> Evaluation

Interval Tested <u>3815-3843</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>28 FT</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3810</u>	Hole Size — 77/8" Rubber Size — 63/4"
Bottom Packer Depth <u>3815</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>600 FT</u>
Total Depth <u>3843</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>54</u> Filtrate <u>8.5</u>
Tool Open @ <u>10:45 P.M.</u>	Initial Blow <u>STRONG BLOW BTM BUCKET IN 1 MINUTE</u>

Final Blow STRONG BLOW BTM BUCKET IN 2 MINUTE

Recovery — Total Feet <u>2600</u>	Feet of Gas in Pipe <u>0</u>	Flush Tool? <u>NO</u>
Rec. <u>400</u> Feet Of <u>WATER MUD SLICKY</u>	%gas <u>5%</u> %oil <u>—</u> %water <u>10%</u> %mud <u>85%</u>	
Rec. <u>2200</u> Feet Of <u>WATER SLICKY</u>	%gas <u>5%</u> %oil <u>—</u> %water <u>95%</u> %mud <u>—</u>	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>120</u> °F	Gravity _____	°API @ _____	°F Corrected Gravity _____	°API
RW <u>.2</u> @ <u>60</u> °F	Chlorides <u>40,000</u> ppm	Recovery _____	Chlorides <u>5,100</u> ppm	System
(A) Initial Hydrostatic Mud <u>1906</u>	PSI	AK1 Recorder No. <u>13337</u>	Range <u>3925 PSI</u>	
(B) First Initial Flow Pressure <u>546</u>	PSI	@ (depth) <u>3820</u>	w/Clock No. <u>31152</u>	
(C) First Final Flow Pressure <u>953</u>	PSI	AK1 Recorder No. <u>10332</u>	Range <u>4025</u>	
(D) Initial Shut-In Pressure <u>1201</u>	PSI	@ (depth) <u>3840</u>	w/Clock No. <u>14389</u>	
(E) Second Initial Flow Pressure <u>1044</u>	PSI	AK1 Recorder No. <u>—</u>	Range <u>—</u>	
(F) Second Final Flow Pressure <u>1185</u>	PSI	@ (depth) <u>—</u>	w/Clock No. <u>—</u>	
(G) Final Shut-In Pressure <u>1197</u>	PSI	Initial Opening <u>15</u>	Test <u>✓ 550</u>	
(H) Final Hydrostatic Mud <u>1885</u>	PSI	Initial Shut-In <u>30</u>	Jars <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.

Final Flow <u>15</u>	Safety Joint <u>—</u>
Final Shut-In <u>45</u>	Straddle <u>—</u>
	Circ. Sub <u>X 5125</u>
	Sampler <u>—</u>
	Extra Packer <u>—</u>
	Other <u>—</u>
	TOTAL PRICE \$ <u>\$585</u>

Approved By Paul H. Montoy

Our Representative John Ried

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #5 DIRKS B Test No. 2 Date 9/26/92
Company ZINSZER OIL OPERATIONS Zone LKC-"C"
Address 206 W 26th HAYS KS 67601 Elevation 2084
Co. Rep./Geo. PAUL MONTOIA Cont. EMPHASIS RIG #5 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 18S Rge. 18W Co. RUSH State KS

Interval Tested <u>3472-3515</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>43</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>63</u>
Top Packer Depth <u>3472</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3515</u>	Mud Wt. <u>8.7</u> lb/Gal.
Total Depth <u>4037</u>	Viscosity <u>54</u> Filtrate <u>8.8</u>

Tool Open @ 1:10 AM Initial Blow WEAK-BUILDING TO 2"

Final Blow WEAK-BUILDING TO 1/4"

Recovery - Total Feet 70 Flush Tool? NO

Rec. <u>70</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 1850.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 30.6 PSI @ (depth) 3476 w / Clock No. 8376

(C) First Final Flow Pressure 44.5 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1141.6 PSI @ (depth) 3507 w / Clock No. 25828

(E) Second Initial Flow Pressure 71.2 PSI AK1 Recorder No. 13849 Range 4375

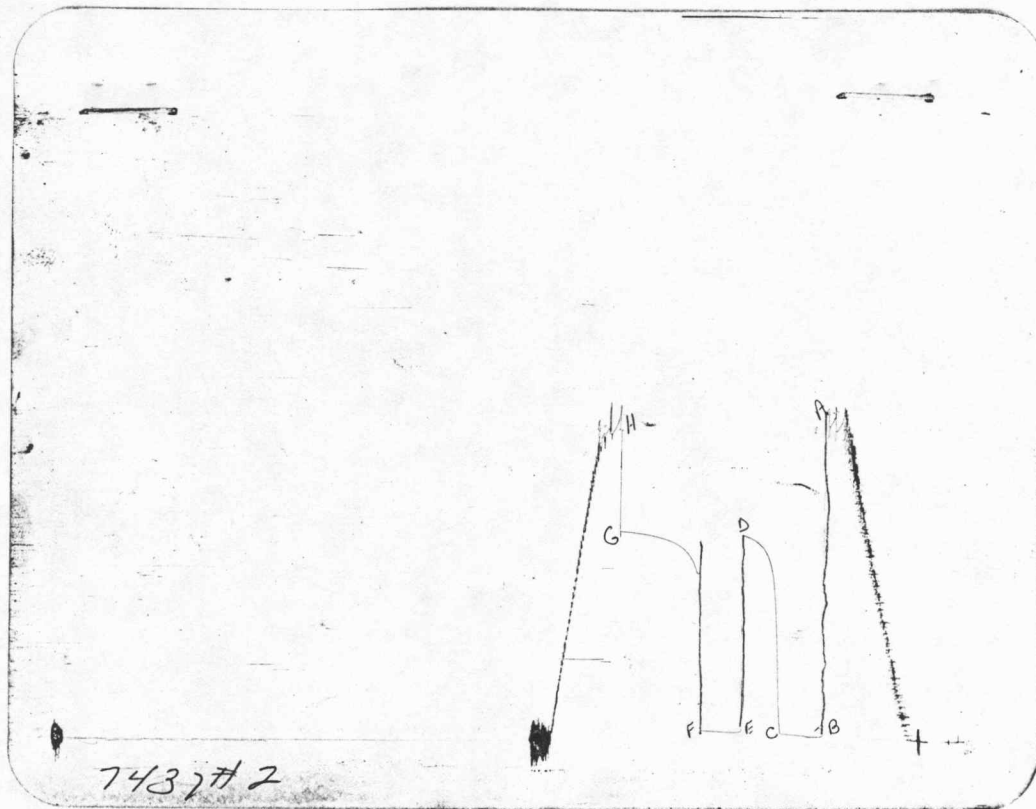
(F) Second Final Flow Pressure 71.2 PSI @ (depth) 4033 w / Clock No. 27567

(G) Final Shut-in Pressure 1160.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1784.3 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative DAN BANGLE

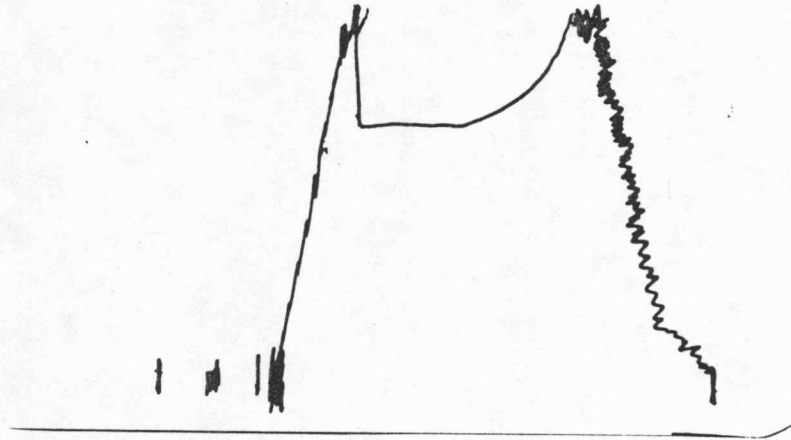
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1846	1850.6
(B) FIRST INITIAL FLOW PRESSURE	29	30.6
(C) FIRST FINAL FLOW PRESSURE	39	44.5
(D) INITIAL CLOSED-IN PRESSURE	1136	1141.6
(E) SECOND INITIAL FLOW PRESSURE	68	71.2
(F) SECOND FINAL FLOW PRESSURE	68	71.2
(G) FINAL CLOSED-IN PRESSURE	1156	1160.9
(H) FINAL HYDROSTATIC MUD	1786	1784.3

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5413

Well Name & No. Dicks B #5 Test No. 2 Date 9-26-92
 Company Zinszer Oil Operations Zone Tested 'C' L.K.C.
 Address _____ Elevation 2084 K.B.
 Co. Rep./Geo. Paul Monteiro Cont. Emphasis #5 Est. Ft. of Pay _____
 Location: Sec. 15 Twp. 18 Rge. 18 Co. Rush State Ks.
 No. of Copies 5 Distribution Sheet _____ Yes _____ No _____ Turnkey X Yes _____ No _____ Evaluation _____

Interval Tested 3472 - 3515 Drill Pipe Size 4.5 X H
 Anchor Length 43 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3472 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3515 Wt. Pipe I.D. — 2.7 Ft. Run 63'
 Total Depth 4037 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 8.7 lb / gal. Viscosity 54 Filtrate 8.8
 Tool Open @ 1:10 a.m. Initial Blow Weak-building to 2"

Final Blow Weak-building to 1/4"

Recovery — Total Feet 70 Feet of Gas in Pipe _____ Flush Tool? _____
 Rec. 70 Feet Of D.M. %gas %oil %water 100 %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 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud 1846 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 29 PSI @ (depth) 3476 w/Clock No. 8376
 (C) First Final Flow Pressure 39 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-In Pressure 1136 PSI @ (depth) 3507 w/Clock No. 25828
 (E) Second Initial Flow Pressure 68 PSI AK1 Recorder No. 13849 Range 4375
 (F) Second Final Flow Pressure 68 PSI @ (depth) 4033 w/Clock No. 27567
 (G) Final Shut-In Pressure 1156 PSI Initial Opening 30 Test 550.00
 (H) Final Hydrostatic Mud 1786 PSI Initial Shut-In 30 Jars _____

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Final Flow 30 Safety Joint _____

Final Shut-In 60 Straddle X 150

Circ. Sub _____

Sampler _____

Extra Packer X 150

Other _____

TOTAL PRICE \$ 250

Approved By [Signature]

Our Representative Dan Bangle