

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIMPSON #4 Test No. 1 Date 1/20/92
Company ZINZER OIL Zone Tested TORONTO
Address 206 W 26th HAYS KANSAS 67601 Elevation 1863
Co. Rep./Geo. PAUL MONTOIA Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3026-3050 Drill Pipe Size 4.5 XH
Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3021 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 3026
Total Depth 3050

Mud Wt. 9 lb / gal. Viscosity 48 Filtrate 9.2

Tool Open @ 9:29 AM Initial Blow SLID TOOL 8' WHEN OPENED-3" BLOW DECREASING TO 1.5"

Final Blow NO BLOW

Recovery - Total Feet 50 Flush Tool? NO

Rec. 50 Feet of MUD

Rec. _____ Feet of _____

BHT 86 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1274.3 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 44.2 PSI @ (depth) 3030 w/Clock No. 8698

(C) First Final Flow Pressure 44.2 PSI AK1 Recorder No. 24174 Range 3350

(D) Initial Shut-in Pressure 85.6 PSI @ (depth) 3049 w/Clock No. 17640

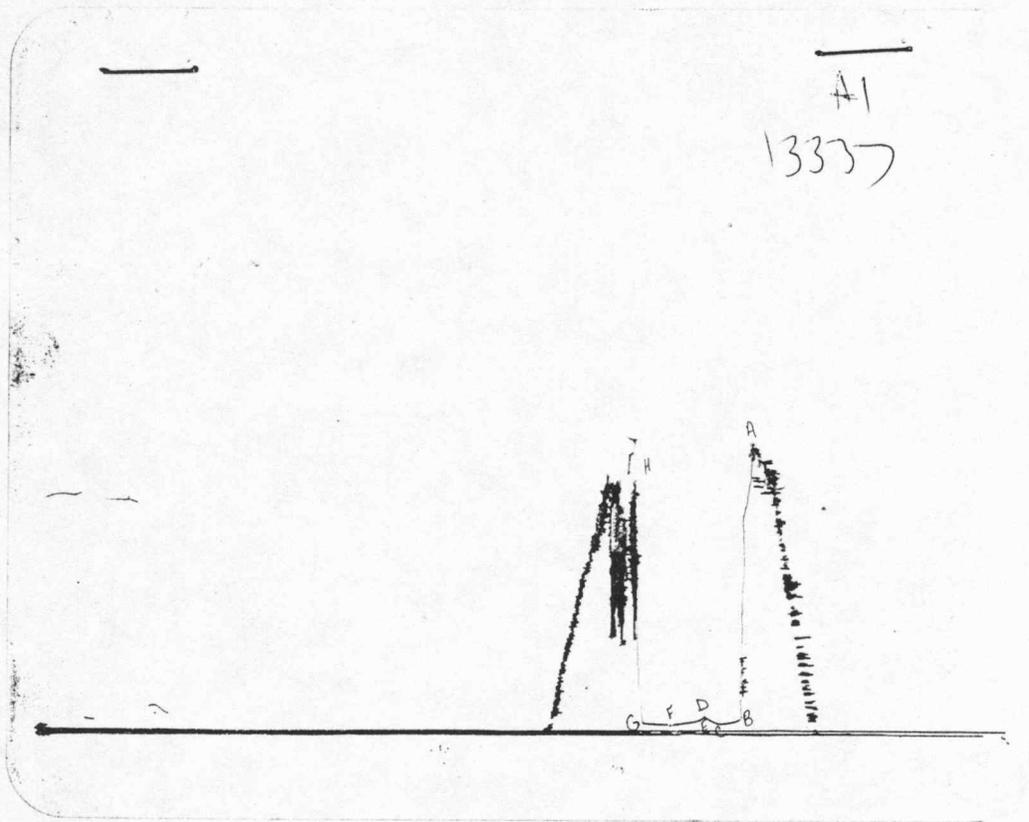
(E) Second Initial Flow Pressure 52.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 52.3 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 70.2 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1251.5 PSI Initial Shut-in 15 Final Shut-in 30

Our Representative PAUL SIMPSON TOTAL PRICE \$ 550



POINT This is an actual photograph of recorder chart PRESSURE

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1271	1274.3
(B) FIRST INITIAL FLOW PRESSURE	41	44.2
(C) FIRST FINAL FLOW PRESSURE	41	44.2
(D) INITIAL CLOSED-IN PRESSURE	83	85.6
(E) SECOND INITIAL FLOW PRESSURE	49	52.3
(F) SECOND FINAL FLOW PRESSURE	49	52.3
(G) FINAL CLOSED-IN PRESSURE	66	70.2
(H) FINAL HYDROSTATIC MUD	1246	1251.5

Test Ticket, L.L.C.

No 4736

Well Name & No. Simpson #4 Test No. 1 Date 1-20-92
 Company Zinzer Oil Zone Tested Toronto
 Address 206 W 26th Hwy Ks 67601 Elevation 1863
 Co. Rep./Geo. Paul Mendoza cont. Empress #6 Est. Ft. of Pay _____
 Location: Sec. 15 Twp. 11s Rge. 17w Co. Ellis State Ks
 1-70 Monday
 No. of Copies 8 Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3026-3050 Drill Pipe Size 4 1/2 X 1 1/4
 Anchor Length 24 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3021 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3026 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3050 Drill Collar — 2.25 Ft. Run 30
 Mud Wt. 9.0 lb/gal. Viscosity 48 Filtrate 9.2
 Tool Open @ 9:29 AM Initial Blow slid tool 8' when opened - 3" blow
decreasing to 1 1/2"
 Final Blow no blow

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>50</u> Feet Of <u>mud</u>	% 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 86 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

- (A) Initial Hydrostatic Mud 1271 PSI AK1 Recorder No. 13337 Range 3925
- (B) First Initial Flow Pressure 41 PSI @ (depth) 3030 w/Clock No. 8698
- (C) First Final Flow Pressure 41 PSI AK1 Recorder No. 24174 Range 3350
- (D) Initial Shut-In Pressure 83 PSI @ (depth) 3049 w/Clock No. 17640
- (E) Second Initial Flow Pressure 49 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 49 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 66 PSI Initial Opening 15 Test X
- (H) Final Hydrostatic Mud 1246 PSI Initial Shut-In 15 Jars _____

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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 15 Safety Joint _____
 Final Shut-In 30 Straddle _____

Approved By Paul A. Mendoza
 Our Representative Paul Simpson

Sampler _____
 Extra Packer _____
 Other _____

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIMPSON #4 Test No. 2 Date 1/21/92
Company ZINZER OIL Zone Tested LKC-"E-G"
Address 206 W 26th HAYS KANSAS 67601 Elevation 1863
Co. Rep./Geo. PAUL MONTOIA Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3110-3175 Drill Pipe Size 4.5 XH
Anchor Length 65 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3105 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 3110
Total Depth 3175

Mud Wt. 8.9 lb / gal. Viscosity 47 Filtrate 9.2

Tool Open @ 2:31 AM Initial Blow WEAK 1/2" BLOW BUILDING TO 4"

Final Blow VERY WEAK SURFACE BLOW BUILDING TO 2"

Recovery — Total Feet 70 Flush Tool? NO

Rec. 1 Feet of CLEAN OIL

Rec. 9 Feet of SLTLY OIL CUT MUD-5%OIL/95%MUD

Rec. 60 Feet of MUD W/ FEW SPOTS OF OIL

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 90 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1525.5 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 41.2 PSI @ (depth) 3142 w/Clock No. 17640

(C) First Final Flow Pressure 52.3 PSI AK1 Recorder No. 24174 Range 3350

(D) Initial Shut-in Pressure 605.4 PSI @ (depth) 3174 w/Clock No. 25810

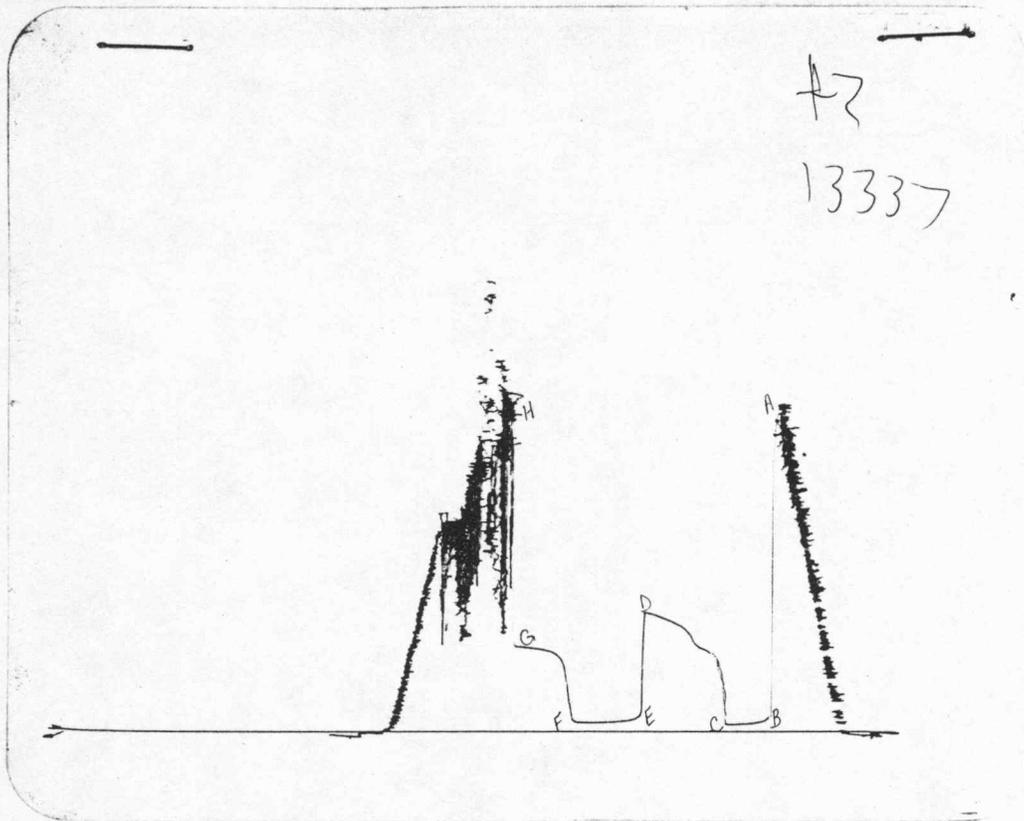
(E) Second Initial Flow Pressure 62.4 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 62.4 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 430.1 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1515.2 PSI Initial Shut-in 60 Final Shut-in 45

Our Representative PAUL SIMPSON TOTAL PRICE \$ 550



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1523	1525.5
(B) FIRST INITIAL FLOW PRESSURE	39	41.2
(C) FIRST FINAL FLOW PRESSURE	49	52.3
(D) INITIAL CLOSED-IN PRESSURE	602	605.4
(E) SECOND INITIAL FLOW PRESSURE	59	62.4
(F) SECOND FINAL FLOW PRESSURE	59	62.4
(G) FINAL CLOSED-IN PRESSURE	425	430.1
(H) FINAL HYDROSTATIC MUD	1514	1515.2

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4737

Well Name & No. <u>Simpson #4</u>		Test No. <u>2</u>	Date <u>1-21-92</u>
Company <u>Zinzer Oil</u>		Zone Tested <u>LKC 'E-6'</u>	
Address _____		Elevation <u>1863</u>	
Co. Rep./Geo. <u>Paul Montora</u>	cont. <u>Emphas #6</u>	Est. Ft. of Pay _____	
Location: Sec. <u>15</u>	Twp. <u>11s</u>	Rge. <u>17w</u>	Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies <u>8</u>	Distribution Sheet _____	Yes _____ No _____	Turnkey _____ Yes _____ No _____
		Evaluation _____	

Interval Tested <u>3110-3175</u>	Drill Pipe Size <u>4 1/2 X 14</u>
Anchor Length <u>65</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3105</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3110</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3175</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>47</u> Filtrate <u>9.2</u>
Tool Open @ <u>2:31 AM</u>	Initial Blow <u>weak 1/2" blow building to 4"</u>
Final Blow <u>very weak surface blow building to 2"</u>	

Recovery — Total Feet <u>700</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>1</u> Feet Of <u>clean oil</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>9</u> Feet Of <u>SOCM</u>	%gas _____ %oil <u>5</u> %water <u>95</u> %mud _____	
Rec. <u>60</u> Feet Of <u>Mud w/ few spots oil</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 90 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud <u>1523</u>	PSI	AK1 Recorder No. <u>13337</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>39</u>	PSI	@ (depth) <u>3142</u>	w/Clock No. <u>17640</u>
(C) First Final Flow Pressure <u>49</u>	PSI	AK1 Recorder No. <u>24174</u>	Range <u>3350</u>
(D) Initial Shut-in Pressure <u>602</u>	PSI	@ (depth) <u>3174</u>	w/Clock No. <u>25810</u>
(E) Second Initial Flow Pressure <u>59</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>59</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-in Pressure <u>425</u>	PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud <u>1514</u>	PSI	Initial Shut-in <u>60</u>	Jars _____

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Final Flow <u>45</u>	Safety Joint _____
Final Shut-in <u>45</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By Paul A. Montora

Our Representative Paul Simpson

TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIMPSON #4 Test No. 3 Date 1/22/92
Company ZINZER OIL Zone Tested ARBUCKLE
Address 206 W 26th HAYS KANSAS 67601 Elevation 1863
Co. Rep./Geo. PAUL MONTOIA Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3343-3383 Drill Pipe Size 4.5 XH
Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3338 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 3343
Total Depth 3383

Mud Wt. 9 lb / gal. Viscosity 49 Filtrate 9.6

Tool Open @ 4:50 AM Initial Blow LOST TOOL WHEN TOOL OPENED-RESET TOOL-MUD HELD ON
3rd TRY-WEAK 1/2" BLOW DIED IN 4 MINUTES
Final Blow NO BLOW-FLUSHED TOOL-WEAK BLOW DIED IN 5 MINUTES

Recovery — Total Feet 110 Flush Tool? YES

Rec. 110 Feet of MUD

Rec. _____ Feet of _____

BHT 96 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1680.2 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure _____ PSI @ (depth) 3345 w/Clock No. 8698

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 24174 Range 3350

(D) Initial Shut-in Pressure _____ PSI @ (depth) 3382 w/Clock No. 17640

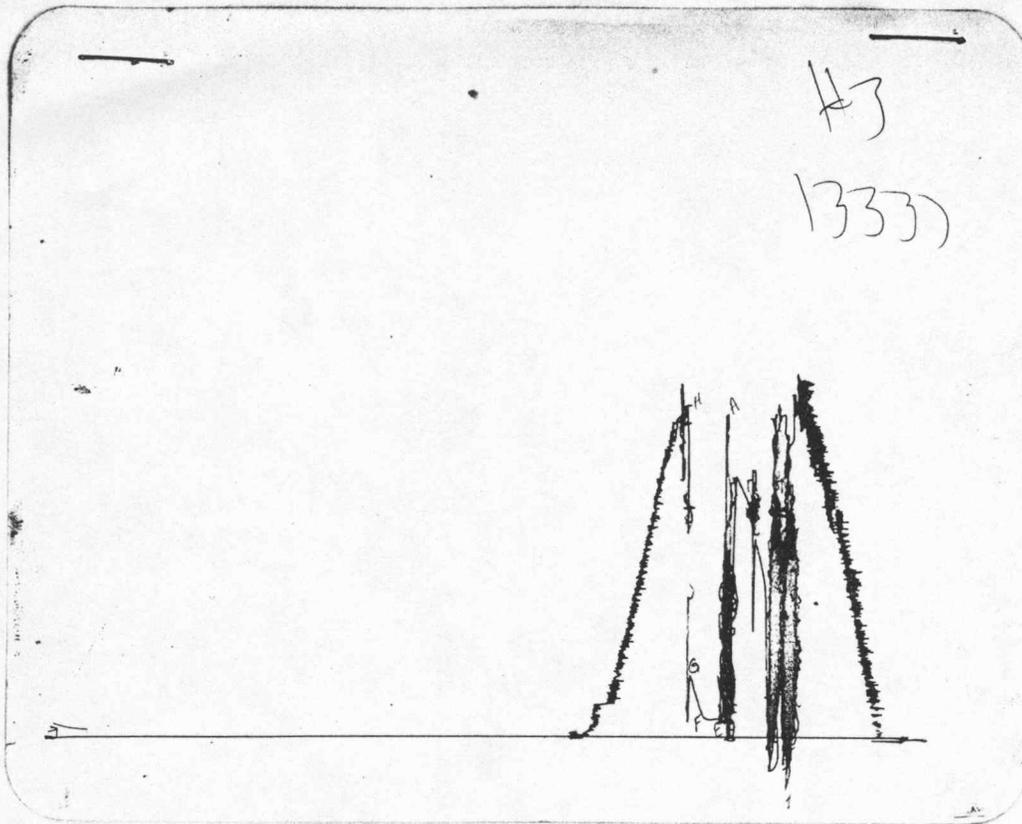
(E) Second Initial Flow Pressure 85.4 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 85.4 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 277.6 PSI Initial Opening 15 Final Flow _____

(H) Final Hydrostatic Mud 1560.4 PSI Initial Shut-in 15 Final Shut-in _____

Our Representative PAUL SIMPSON TOTAL PRICE \$ 550



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1673	1680.2
(B) FIRST INITIAL FLOW PRESSURE		
(C) FIRST FINAL FLOW PRESSURE		
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE	83	85.4
(F) SECOND FINAL FLOW PRESSURE	83	85.4
(G) FINAL CLOSED-IN PRESSURE	273	277.6
(H) FINAL HYDROSTATIC MUD	1557	1560.4

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4738

Well Name & No. Simpson #4 Test No. 3 Date 1-22-91
Company Zinzer Oil Zone Tested Arbuckle
Address _____ Elevation 1863
Co. Rep./Geo. Paul Montana Cont. Emphasis #6 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 11s Rge. 17w Co. Ellis State Ks
No. of Copies 5 Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No Evaluation _____

Interval Tested 3343-3383 Drill Pipe Size 4 1/2 X 1 1/4
Anchor Length 40 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 3338 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 3343 Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth 3383 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.0 lb/gal. Viscosity 49 Filtrate 9.6
Tool Open @ 4:50 AM Initial Blow lost tool when tool opened reset tool
& mud held on 3rd try - work 12" blow died in 4 minutes
Final Blow no blow - flush tool - work blow died in 5 minutes

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?	%gas	%oil	%water	%mud
<u>110</u>		<u>Y</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
Rec. _____	Feet Of _____		%gas	%oil	%water	%mud

BHT Ab °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System
(A) Initial Hydrostatic Mud 1673 PSI Ak1 Recorder No. 13377 Range 3925
(B) First Initial Flow Pressure _____ PSI @ (depth) 3345 w/Clock No. 5698
(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 24174 Range 3350
(D) Initial Shut-In Pressure _____ PSI @ (depth) 3352 w/Clock No. 17640
(E) Second Initial Flow Pressure 83 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 83 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 273 PSI Initial Opening 15 Test _____
(H) Final Hydrostatic Mud 1557 PSI Initial Shut-In 15 Jars _____

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Final Flow _____ Safety Joint _____
Final Shut-In _____ Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Other _____

Approved By Paul A. Montana
Our Representative Paul Simpson

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIMPSON #4 Test No. 4 Date 1/22/92
Company ZINZER OIL Zone Tested ARBUCKLE
Address 206 W 26th HAYS KANSAS 67601 Elevation 1863
Co. Rep./Geo. PAUL MONTOIA Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3313-3383 Drill Pipe Size 4.5 XH
Anchor Length 70 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3308 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 3313
Total Depth 3383

Mud Wt. 9.2 lb / gal. Viscosity 46 Filtrate 8.8

Tool Open @ 3:18 PM Initial Blow SLID TOOL 4 FT WHEN OPENED-STRONG BLOW TO
BOTTOM OF BUCKET IN 20 SECONDS
Final Blow NO BLOW-FLUSHED TOOL-THEN PULLED TOOL

Recovery — Total Feet 1725 Flush Tool? YES

Rec. 300 Feet of SLTLY OIL CUT MUD-5%OIL/95%MUD

Rec. 300 Feet of OIL & WTR CUT MUD-15%OIL/5%WTR/80%MUD

Rec. 925 Feet of OIL & MUD CUT WATER-10%OIL/80%WTR/10%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.317 @ 66.5 °F Chlorides 24000 ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud _____ PSI Ak1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 215.4 PSI @ (depth) 3347 w/Clock No. 25810

(C) First Final Flow Pressure 708.6 PSI AK1 Recorder No. 24174 Range 3350

(D) Initial Shut-in Pressure 840.2 PSI @ (depth) 3382 w/Clock No. 17640

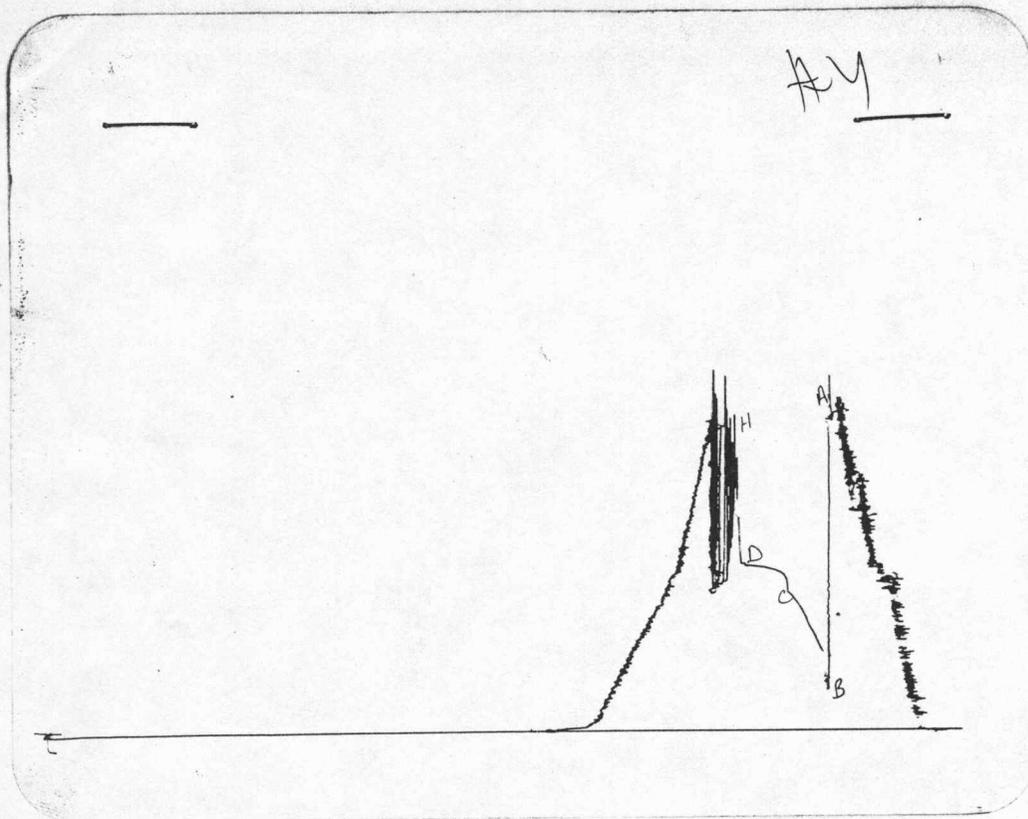
(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

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

Our Representative PAUL SIMPSON TOTAL PRICE \$ 550



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		
(B) FIRST INITIAL FLOW PRESSURE	208	215.4
(C) FIRST FINAL FLOW PRESSURE	700	708.6
(D) INITIAL CLOSED-IN PRESSURE	838	840.2
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD		

Test Ticket

No 4739

Well Name & No. Simpson A4 Test No. 4 Date 1-22-91
 Company ZINER OIL Zone Tested Arbuckle
 Address _____ Elevation 1863
 Co. Rep./Geo. Paul Montoya Cont. Emphasis #6 Est. Ft. of Pay _____
 Location: Sec. 15 Twp. 11s Rge. 17w Co. Ellis State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3313-3383 Drill Pipe Size _____
 Anchor Length 70 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3308 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3313 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3383 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.2 lb/gal. Viscosity 46 Filtrate 8.8
 Tool Open @ 3:18 pm Initial Blow slid tool 4' when opened string blow to bottom of backed in 20 seconds
 Final Blow no blow - flushed tool then pulled tool

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>300</u> Feet Of <u>SOCM</u> %gas <u>5</u> %oil _____ %water <u>95</u> %mud _____		
Rec. <u>300</u> Feet Of <u>OHWCW</u> %gas <u>15</u> %oil <u>5</u> %water <u>80</u> %mud _____		
Rec. <u>925</u> Feet Of <u>OHMCW</u> %gas <u>10</u> %oil <u>80</u> %water <u>10</u> %mud _____		
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____		

BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1312 @ 66.5 °F Chlorides 24,000 ppm Recovery Chlorides 11,000 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13337 Range 3975
 (B) First Initial Flow Pressure 209 PSI @ (depth) 3347 w/Clock No. 25810
 (C) First Final Flow Pressure 700 PSI AK1 Recorder No. 24174 Range 3350
 (D) Initial Shut-In Pressure 838 PSI @ (depth) 3382 w/Clock No. 17640
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-In 30 Jars _____

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Final Flow _____ Safety Joint _____
 Final Shut-In _____ Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

Approved By _____
 Our Representative Paul Simpson

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIMPSON #4 Test No. 5 Date 1/23/92
Company ZINZER OIL Zone Tested ARBUCKLE
Address 206 W 26th HAYS KANSAS 67601 Elevation 1863
Co. Rep./Geo. PAUL MONTOIA Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3383-3389 Drill Pipe Size 4.5 XH
Anchor Length 6 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3378 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 3383
Total Depth 3389

Mud Wt. 9.2 lb / gal. Viscosity 47 Filtrate 11.8

Tool Open @ 4:05 AM Initial Blow SLID TOOL 6' WHEN OPENED-1" BLOW
DECREASING TO 1/2"

Final Blow NO BLOW-FLUSHED TOOL 3 TIMES-GOT SURGE EACH
TIME BUT NO BLOW

Recovery — Total Feet 15 Flush Tool? YES

Rec. 15 Feet of MUD

Rec. _____ Feet of MISRUN-PLUGGED ANCHOR

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1588.7 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure _____ PSI @ (depth) 3375 w/Clock No. 17640

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 24174 Range 3350

(D) Initial Shut-in Pressure _____ PSI @ (depth) 3388 w/Clock No. 25810

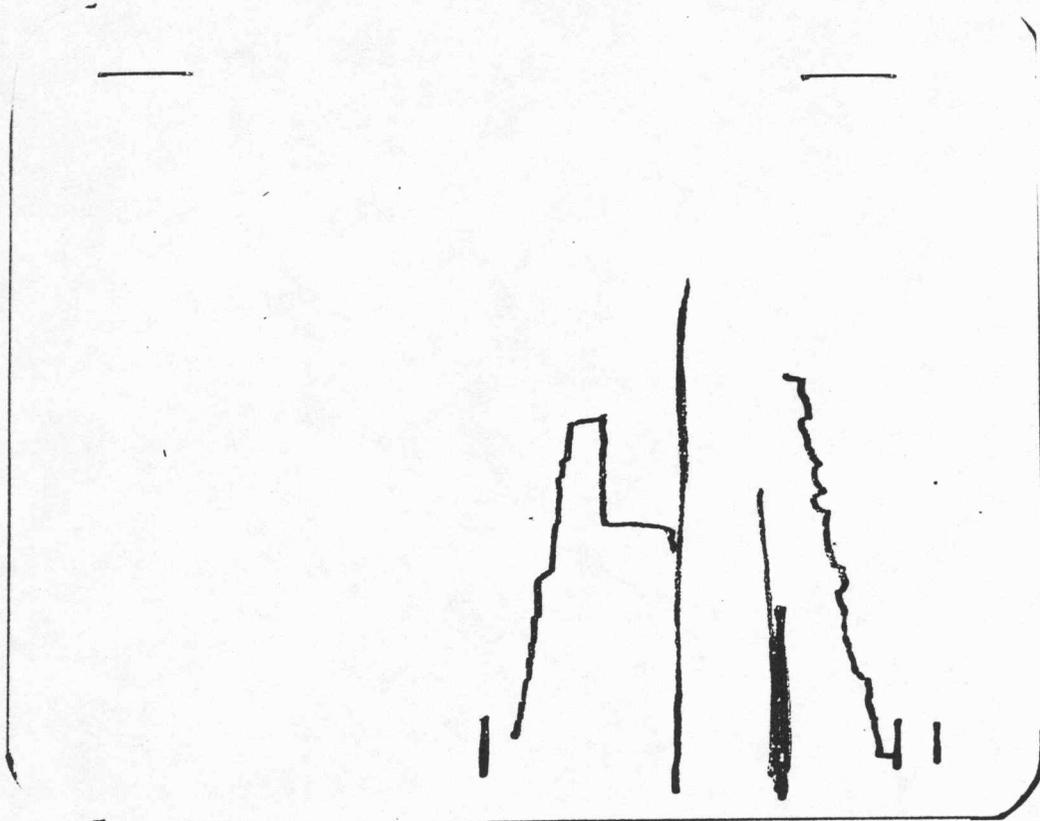
(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

(H) Final Hydrostatic Mud 1504.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON TOTAL PRICE \$ 400



POINT

This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1582	1588.7
(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	1498	1504.7

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4740

Well Name & No. <u>Simpson #4</u>	Test No. <u>5</u>	Date <u>1-23-91</u>
Company <u>Zinco Oil</u>	Zone Tested <u>Arbuckle</u>	
Address <u>Paul Montoya</u>	Elevation <u>1863</u>	
Co. Rep./Geo. <u>Paul Montoya</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay _____
Location: Sec. <u>15</u>	Twp. <u>11s</u>	Rge. <u>17w</u> Co. <u>611s</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3383-3389</u>	Drill Pipe Size <u>4 1/2 X 11</u>
Anchor Length <u>6</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3378</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3383</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3389</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>47</u> Filtrate <u>11.8</u>
Tool Open @ <u>4:05 AM</u>	Initial Blow <u>stick tool 6' when opened - 1" b low decreasing to 1/2"</u>
Final Blow <u>no blow - flush tool 3 times - good surge each time but no blow</u>	

Recovery — Total Feet <u>15</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>15</u> Feet Of <u>mud</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of <u>misson - plugged</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of <u>anchor</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT _____ °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides _____ ppm System _____
(A) Initial Hydrostatic Mud <u>1582</u>	PSI	AK1 Recorder No. <u>13337</u>	Range <u>3975</u>
(B) First Initial Flow Pressure _____	PSI	@ (depth) <u>3375</u>	w/Clock No. <u>17640</u>
(C) First Final Flow Pressure _____	PSI	AK1 Recorder No. <u>24174</u>	Range <u>3356</u>
(D) Initial Shut-In Pressure _____	PSI	@ (depth) <u>3388</u>	w/Clock No. <u>25810</u>
(E) Second Initial Flow Pressure _____	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure _____	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure _____	PSI	Initial Opening <u>30</u>	Test <u>misson</u>
(H) Final Hydrostatic Mud <u>1498</u>	PSI	Initial Shut-in <u>30</u>	Jars _____

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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>Paul A. Montoya</u>	Final Flow <u>30</u>	Safety Joint _____
Our Representative <u>Paul Simpson</u>	Final Shut-In <u>30</u>	Straddle _____
		Circ. Sub _____
		Sampler _____
		Extra Packer _____
		Other _____