

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HEIMAN #1-15 Test No. 1 Date 4/27/93
Company SLAWSON EXPLORATION INC. Zone MORROW
Address 621 N ROBINSON #490 OKLAHOMA CITY OK 73102 Elevation 2834
Co. Rep./Geo. JERRY DEAN Cont. H-40 RIG #1 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 33S Rge. 33W Co. SEWARD State KS

Interval Tested	<u>5595-5661</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>66</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5590</u>	Drill Collar - 2.25 Ft. Run	<u>624</u>
Bottom Packer Depth	<u>5595</u>	Mud Wt.	<u>8.9</u> lb/Gal.
Total Depth	<u>5661</u>	Viscosity	<u>48</u>
		Filtrate	<u>8.0</u>

Tool Open @ 4:10 AM Initial Blow WEAK BLOW - BUILT TO 1"

Final Blow SURFACE BLOW - DIED IN 15 MINUTES

Recovery - Total Feet 30 Flush Tool? NO

Rec. <u>30</u>	Feet of	<u>DRILLING MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 2639.1 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 47.2 PSI @ (depth) 5598 w / Clock No. 25813

(C) First Final Flow Pressure 47.2 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 69.1 PSI @ (depth) 5658 w / Clock No. 27594

(E) Second Initial Flow Pressure 47.2 PSI AK1 Recorder No. _____ Range _____

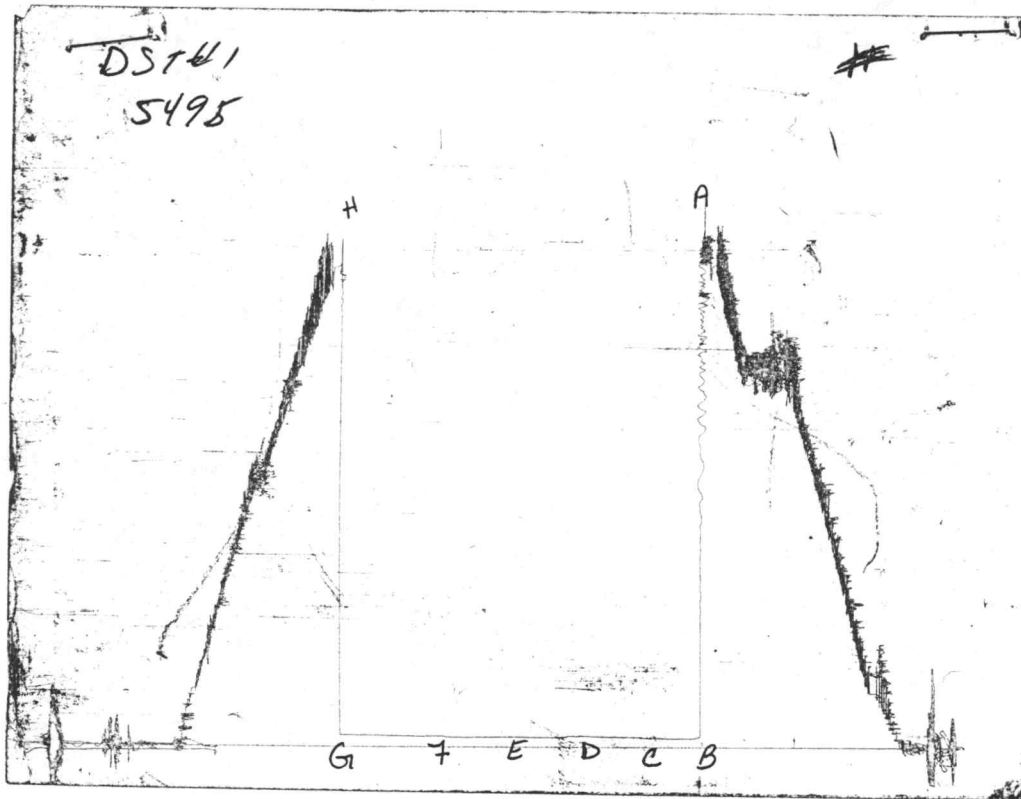
(F) Second Final Flow Pressure 47.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 69.1 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2610.3 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2636	2639.1
(B) FIRST INITIAL FLOW PRESSURE	45	47.2
(C) FIRST FINAL FLOW PRESSURE	45	47.2
(D) INITIAL CLOSED-IN PRESSURE	67	69.1
(E) SECOND INITIAL FLOW PRESSURE	45	47.2
(F) SECOND FINAL FLOW PRESSURE	45	47.2
(G) FINAL CLOSED-IN PRESSURE	67	69.1
(H) FINAL HYDROSTATIC MUD	2605	2610.3

FLUID SAMPLER DATA

Ticket No.: 5670 Date: 4/27/93

Company: SLAWSON EXPLORATION INC.

Lease: HEIMAN #1-15 Test No.: 1

County: SEWARD Sec.: 15 Twp.: 33S Rng.: 33W

SAMPLER RECOVERY

Gas

Oil

Mud 4000

Water

Other

Pressure 20

TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides

Resistivity ohms@ F

Viscosity 48

Mud Wt. 8.9

Filtrate 8.0

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5670

Well Name & No. <u>Heiman #1-15</u>	Test No. <u>#1</u>	Date <u>4-27-93</u>
Company <u>Slawson Exploration Company Inc.</u>	Zone Tested <u>Morrow</u>	
Address <u>621 N. Robinson #490 OKC, OK 73102</u>	Elevation <u>2834 (KB)</u>	
Co. Rep./Geo. <u>Jerry Dean</u>	Cont. <u>H-40 Drlg #1</u>	Est. Ft. of Pay _____
Location: Sec. <u>15</u>	Twp. <u>33</u>	Rge. <u>33 w</u> Co. <u>Seward</u> State <u>Ks.</u>
No. of Copies _____	Distribution Sheet _____	Yes <u>X</u> No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>5595 - 5661</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>66'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5590</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5595</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5661</u>	Drill Collar — 2.25 Ft. Run <u>624'</u>
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>48</u> Filtrate <u>8.0</u>
Tool Open @ <u>4:10 AM</u>	Initial Blow <u>weak blow - built to line</u>

Final Blow Surface blow - died in 15 min.

Recovery — Total Feet <u>30'</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>30</u> Feet Of <u>Drlg mud</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud <u>2636</u>	PSI AK1 Recorder No. <u>13277</u>	Range <u>4125</u>
(B) First Initial Flow Pressure <u>45</u>	PSI @ (depth) <u>5598</u>	w/Clock No. <u>25813</u>
(C) First Final Flow Pressure <u>45</u>	PSI AK1 Recorder No. <u>5495</u>	Range <u>4200</u>
(D) Initial Shut-In Pressure <u>67</u>	PSI @ (depth) <u>5658</u>	w/Clock No. <u>27894</u>
(E) Second Initial Flow Pressure <u>45</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>45</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>67</u>	PSI Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>
(H) Final Hydrostatic Mud <u>2605</u>	PSI Initial Shut-In <u>60</u>	Jars <u>X</u> <u>200</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>60</u>	Safety Joint <u>X</u> <u>50</u>
Final Shut-In <u>90</u>	Straddle _____
	Circ. Sub _____
	Sampler <u>X</u> <u>200</u>
	Extra Packer _____
	Other _____

Approved By Jerry Dean

Our Representative Tom Horvack

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HEIMAN #1-15 Test No. 2 Date 4/29/93
Company SLAWSON EXPLORATION INC. Zone MORROW
Address 621 N ROBINSON #490 OKLAHOMA CITY OK 73102 Elevation 2834
Co. Rep./Geo. JERRY DEAN Cont. H-40 RIG #1 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 33S Rge. 33W Co. SEWARD State KS

Interval Tested	<u>5570-5750</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>180</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5565-5570</u>	Drill Collar - 2.25 Ft. Run	<u>279</u>
Bottom Packer Depth	<u>5750</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>6450</u>	Viscosity	<u>51</u>
		Filtrate	<u>7.4</u>

Tool Open @ _____ Initial Blow TOOL WOULD NOT GO PAST 3450

Final Blow _____

Recovery - Total Feet _____ Flush Tool? NO

Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1250 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5728 w / Clock No. 25813

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 11038 Range 4175

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5742 w / Clock No. 27894

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

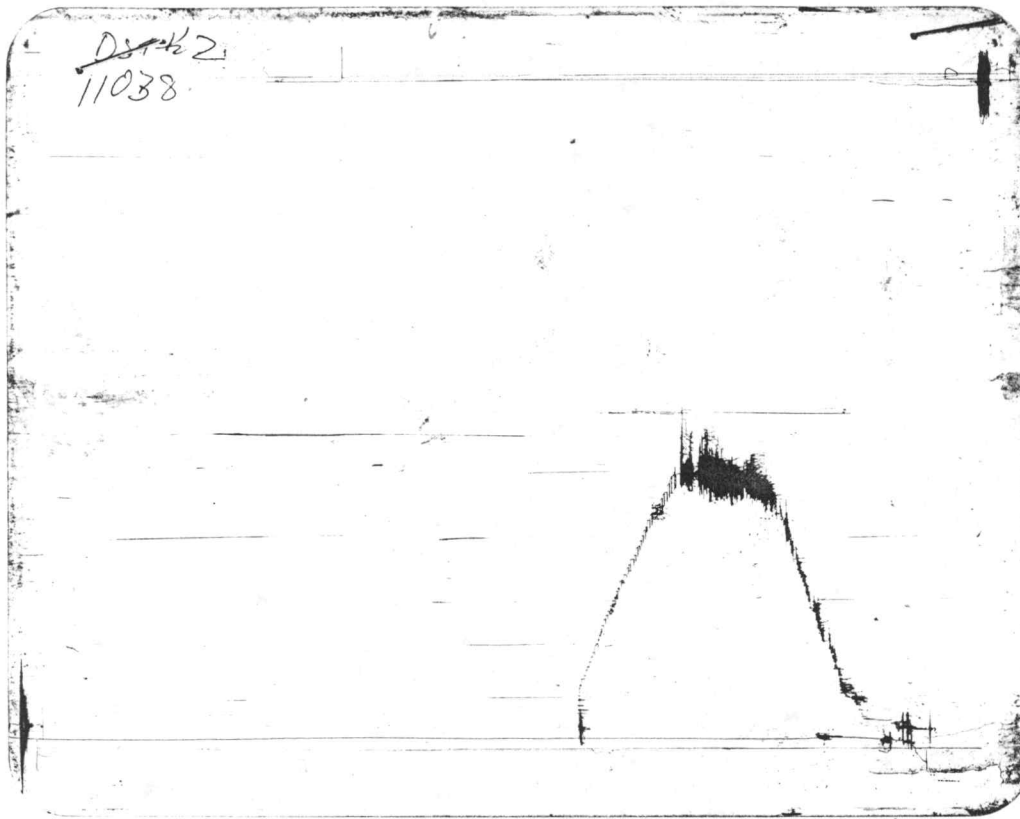
(F) Second Final Flow Pressure _____ PSI @ (depth) 5817 w / Clock No. 3942

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

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

Our Representative TOM HORACEK

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 5671

Well Name & No. <u>Heiman #1-15</u>	Test No. <u>42</u>	Date <u>4-29-93</u>
Company <u>Slawson Exploration Company Inc.</u>	Zone Tested <u>Murrow</u>	
Address <u>621 N. Robinson #490 OKC, OK 73102</u>	Elevation <u>2834 KB</u>	
Co. Rep./Geo. <u>Jerry Dean</u>	Cont. <u>H-40 Drk #1</u>	Est. Ft. of Pay _____
Location: Sec. <u>15</u> Twp. <u>33</u> Rge. <u>33w</u> Co. <u>Seward</u> State <u>Ks.</u>		
No. of Copies _____ Distribution Sheet _____ Yes <u>X</u> No _____ Turnkey _____ Yes _____ No _____ Evaluation _____		

Interval Tested <u>5570-5750</u>	Drill Pipe Size <u>4.5x-Hole</u>
Anchor Length <u>180'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5565-5570</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5750</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>6450</u>	Drill Collar — 2.25 Ft. Run <u>279'</u>
Mud Wt. <u>2.0</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>7.4</u>
Tool Open @ _____ Initial Blow <u>Tool would not go past 3450</u>	

Final Blow _____

Recovery — Total Feet _____ Feet of Gas in Pipe _____ Flush Tool? _____

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1250 ppm System

(A) Initial Hydrostatic Mud _____ PSI	AK1 Recorder No. <u>13277</u>	Range <u>4125</u>
(B) First Initial Flow Pressure _____ PSI	@ (depth) <u>5728</u>	w/Clock No. <u>25813</u>
(C) First Final Flow Pressure _____ PSI	AK1 Recorder No. <u>11038</u>	Range <u>4175</u>
(D) Initial Shut-In Pressure _____ PSI	@ (depth) <u>5742</u>	w/Clock No. <u>27894</u>
(E) Second Initial Flow Pressure _____ PSI	AK1 Recorder No. <u>5485</u>	Range <u>4200</u>
(F) Second Final Flow Pressure _____ PSI	@ (depth) <u>5817</u>	w/Clock No. <u>3942</u>
(G) Final Shut-In Pressure _____ PSI	Initial Opening _____	Test <u>X</u> <u>500</u>
(H) Final Hydrostatic Mud _____ PSI	Initial Shut-In _____	Jars <u>X</u> <u>200</u>

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Final Flow _____ Safety Joint X 50
 Final Shut-In _____ Straddle X 250
 Circ. Sub _____

Approved By _____

Our Representative Tom Horacek

Sampler X 200

Extra Packer X 150

Other Hook wall X 300

TOTAL PRICE \$ MISS KUN 1450

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HEIMAN #1-15 Test No. 3 Date 4/30/93
Company SLAWSON EXPLORATION INC. Zone MORROW
Address 621 N ROBINSON #490 OKLAHOMA CITY OK 73102 Elevation 2834
Co. Rep./Geo. JERRY DEAN Cont. H-40 RIG #1 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 33S Rge. 33W Co. SEWARD State KS

Interval Tested	<u>5570-5750</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>180</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5565-5570</u>	Drill Collar - 2.25 Ft. Run	<u>279</u>
Bottom Packer Depth	<u>5750</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>6450</u>	Viscosity	<u>51</u> Filtrate <u>7.4</u>

Tool Open @ _____ Initial Blow TOOL WOULD NOT GO PAST 3620

Final Blow _____

Recovery - Total Feet _____ Flush Tool? NO

Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1250 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5728 w / Clock No. 25813

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 11038 Range 4175

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5742 w / Clock No. 27894

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

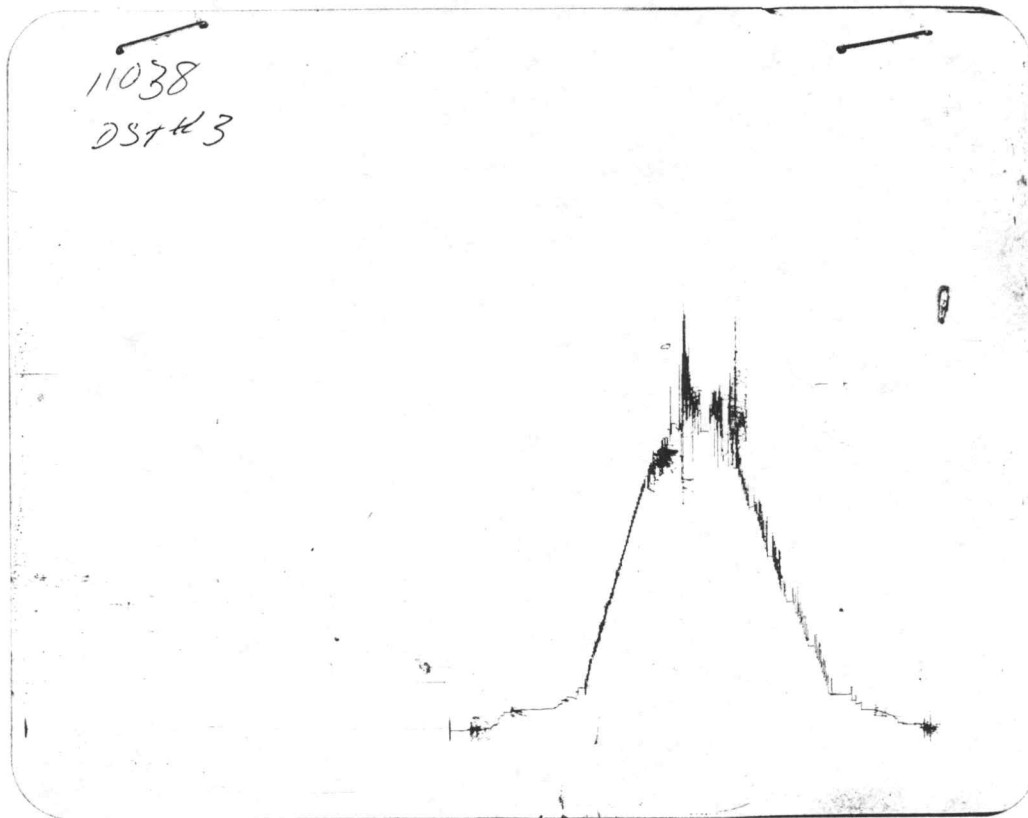
(F) Second Final Flow Pressure _____ PSI @ (depth) 5817 w / Clock No. 3942

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

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

Our Representative TOM HORACEK

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 5672

Well Name & No. <u>Heiman #1-15</u>	Test No. <u>#3</u>	Date <u>4-30-93</u>
Company <u>Slawson Exploration Company Inc.</u>	Zone Tested <u>Morrow</u>	
Address <u>621 N. Robinson #490 Oke. Ok. 73102</u>	Elevation <u>2834 (KB)</u>	
Co. Rep./Geo. <u>Jerry Dean</u>	Cont. <u>H-40 Drlg. #1</u>	Est. Ft. of Pay
Location: Sec. <u>15</u> Twp. <u>33</u> Rge. <u>33 W</u> Co. <u>Seward</u> State <u>Ks</u>		
No. of Copies	Distribution Sheet	Yes <u>X</u> No Turnkey Yes No Evaluation

Interval Tested <u>5570-5750</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>180'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>5565 - 5570</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>5750</u>	Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth <u>6450</u>	Drill Collar — 2.25 Ft. Run <u>279'</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>7.4</u>
Tool Open @	Initial Blow <u>Tool would not go past 3620</u>

Final Blow

Recovery — Total Feet Feet of Gas in Pipe Flush Tool?

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 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1250 ppm System

(A) Initial Hydrostatic Mud	PSI	Ak1 Recorder No. <u>13277</u>	Range <u>4125</u>
(B) First Initial Flow Pressure	PSI	@ (depth) <u>5728</u>	w/Clock No. <u>25813</u>
(C) First Final Flow Pressure	PSI	Ak1 Recorder No. <u>11038</u>	Range <u>4175</u>
(D) Initial Shut-In Pressure	PSI	@ (depth) <u>5742</u>	w/Clock No. <u>27894</u>
(E) Second Initial Flow Pressure	PSI	Ak1 Recorder No. <u>5495</u>	Range <u>4200</u>
(F) Second Final Flow Pressure	PSI	@ (depth) <u>5817</u>	w/Clock No. <u>3942</u>
(G) Final Shut-In Pressure	PSI	Initial Opening	Test <u>X</u> 500
(H) Final Hydrostatic Mud	PSI	Initial Shut-In	Jars <u>X</u> 200

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Final Flow Safety Joint X 50

Final Shut-In Straddle X 250

Circ. Sub

Sampler X 200

Extra Packer X 150

Other Hook w/ll X 300

TOTAL PRICE \$ MISS RUN 1650

Approved By

Our Representative Tom Horacek

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HEIMAN #1-15 Test No. 4 Date 4/30/93
Company SLAWSON EXPLORATION INC. Zone MORROW
Address 621 N ROBINSON #490 OKLAHOMA CITY OK 73102 Elevation 2834
Co. Rep./Geo. JERRY DEAN Cont. H-40 RIG #1 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 33S Rge. 33W Co. SEWARD State KS

Interval Tested	<u>5588-5840</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>252</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5583-5588</u>	Drill Collar - 2.25 Ft. Run	<u>655</u>
Bottom Packer Depth	<u>5840</u>	Mud Wt.	<u>8.9</u> lb/Gal.
Total Depth	<u>6450</u>	Viscosity	<u>48</u>
		Filtrate	<u>7.6</u>

Tool Open @ 11:00 PM Initial Blow 2" BLOW - BUILT TO BOTTOM OF BUCKET IN 9 MINUTES
ISI: BLED OFF BLOW - NO BLOW BACK
Final Blow 1" BLOW - BUILT TO 7"
FSI: BLED OFF BLOW - NO BLOW BACK

Recovery - Total Feet 175 Flush Tool? NO

Rec. <u>175</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 131 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 4 @ 76 °F Chlorides 1200 ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 2856.9 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 225.9 PSI @ (depth) 5813 w / Clock No. 25813

(C) First Final Flow Pressure 225.9 PSI AK1 Recorder No. 11038 Range 4175

(D) Initial Shut-in Pressure 236.4 PSI @ (depth) 5831 w / Clock No. 27894

(E) Second Initial Flow Pressure 225.9 PSI AK1 Recorder No. 5495 Range 4200

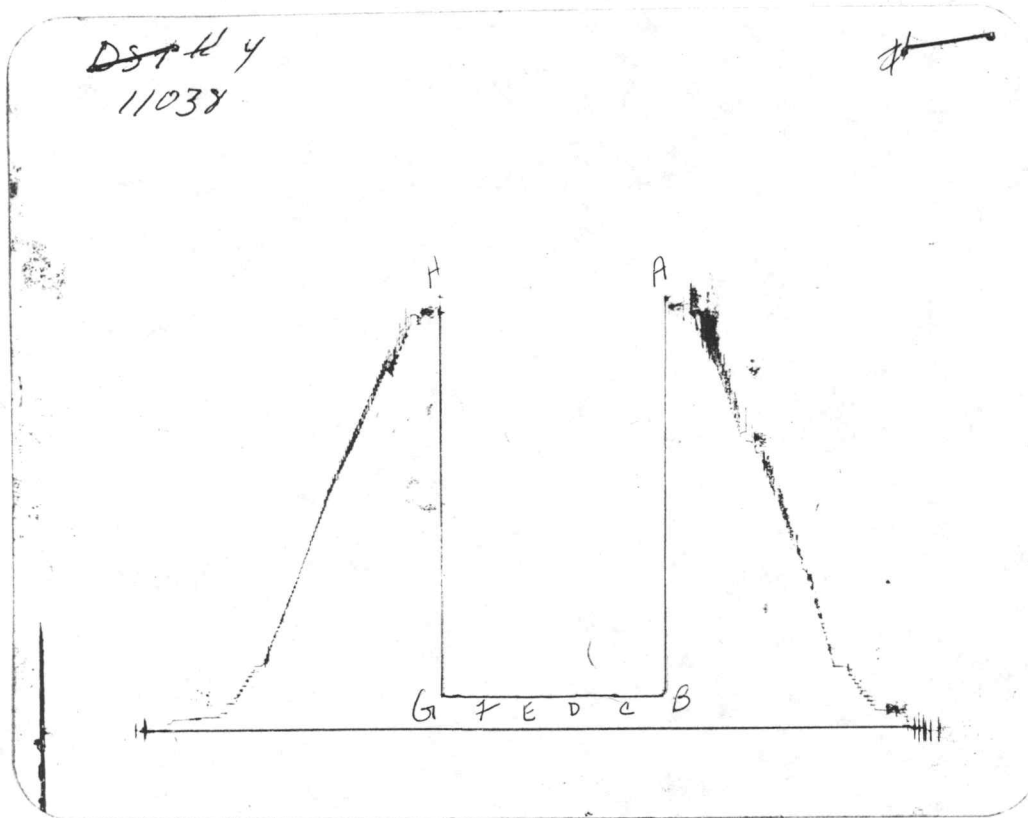
(F) Second Final Flow Pressure 225.9 PSI @ (depth) 6447 w / Clock No. 3942

(G) Final Shut-in Pressure 236.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2816.7 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative TOM HORACEK

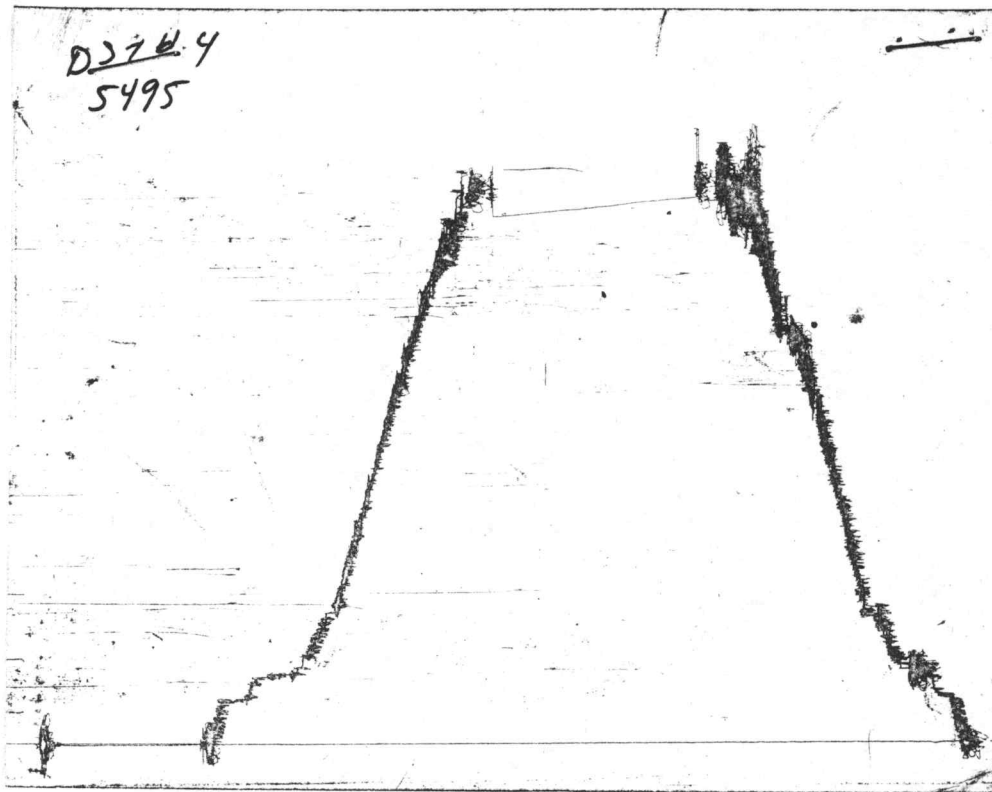
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2851	2856.9
(B) FIRST INITIAL FLOW PRESSURE	217	225.9
(C) FIRST FINAL FLOW PRESSURE	217	225.9
(D) INITIAL CLOSED-IN PRESSURE	230	236.4
(E) SECOND INITIAL FLOW PRESSURE	217	225.9
(F) SECOND FINAL FLOW PRESSURE	217	225.9
(G) FINAL CLOSED-IN PRESSURE	230	236.4
(H) FINAL HYDROSTATIC MUD	2812	2816.7

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

FLUID SAMPLER DATA

Ticket No.: 5673

Date: 4/27/93

Company: SLAWSON EXPLORATION INC.

Lease: HEIMAN #1-15

Test No.: 4

County: SEWARD

Sec.: 15

Twp.: 33S

Rng.: 33W

SAMPLER RECOVERY

Gas

Oil

Mud 4000

Water

Other

Pressure 100

TOTAL 4000

SAMPLER ANALYSIS

Resistivity 4 ohms@ 76 F

Chlorides 1200 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides

Resistivity ohms@ F

Viscosity 48

Mud Wt. 8.9

Filtrate 7.6

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5673

Well Name & No. <u>Heiman #1-15</u>	Test No. <u>4</u>	Date <u>4-30-93</u>
Company <u>Slawson Exploration Company Inc.</u>	Zone Tested <u>Morrow</u>	
Address <u>621 N. Robinson #490 Okc. Ok. 73102</u>	Elevation <u>2834 (KB)</u>	
Co. Rep./Geo. _____	Cont. <u>H-40 Drlg #1</u>	Est. Ft. of Pay _____
Location: Sec. <u>15</u>	Twp. <u>33</u>	Rge. <u>33 w</u>
Co. <u>Seward</u>	State <u>Ks.</u>	
No. of Copies _____	Distribution Sheet _____	Yes <u>X</u> No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 5588-5840 Drill Pipe Size 4.5 X-Hole
 Anchor Length 252' Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 5583-5588 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 5840 Wt. Pipe I.D. — 2.7 Ft. Run —
 Total Depth 6450 Drill Collar — 2.25 Ft. Run 655'
 Mud Wt. 8.9 lb/gal. Viscosity 48 Filtrate 7.6

Tool Open @ 11:00 pm Initial Blow 2 in blow - built to bottom of bucket 9 min.
ISI - Bled off blow - no blow back

Final Blow 2 in blow - built to 7 in.
FSI - Bled off blow - no blow back

Recovery — Total Feet 175' Feet of Gas in Pipe _____ Flush Tool? NO

Rec. _____ Feet Of _____	%gas	%Oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%Oil	%water	%mud
Rec. <u>175'</u> Feet Of <u>Drlg mud</u>	%gas	%Oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%Oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%Oil	%water	%mud

BHT 131 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 4 @ 76 °F Chlorides 1200 ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 2851 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 217 PSI @ (depth) 5813 w/Clock No. 25813

(C) First Final Flow Pressure 217 PSI AK1 Recorder No. 11038 Range 4175

(D) Initial Shut-In Pressure 230 PSI @ (depth) 5831 w/Clock No. 27894

(E) Second Initial Flow Pressure 217 PSI AK1 Recorder No. 5495 Range 4200

(F) Second Final Flow Pressure 217 PSI @ (depth) 6447 w/Clock No. 3942

(G) Final Shut-In Pressure 230 PSI Initial Opening 30 Test X 700

(H) Final Hydrostatic Mud 2812 PSI Initial Shut-In 30 Jars X 200

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 30 Safety Joint X 50

Final Shut-In 60 Straddle X 250

Circ. Sub _____

Sampler X 200

Extra Packer X 150

Other _____

Approved By _____

Our Representative Tom Horacek

TOTAL PRICE 1450