

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STANNARD "A" #1 Test No. 1 Date 8/9/92
Company PICKRELL DRILLING COMPANY, INC. Zone BERN
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 1957
Co. Rep./Geo. BILL KLAVER Cont. PICKRELL RIG #1 Est. Ft. of Pay 4
Location: Sec. 16 Twp. 30S Rge. 14W Co. BARBER State KS

Interval Tested 3263-3295 Drill Pipe Size 4.5 XH
Anchor Length 22 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3258 Drill Collar - 2.25 Ft. Run 240
Bottom Packer Depth 3263 Mud Wt. 8.5 lb/Gal.
Total Depth 3295 Viscosity 44 Filtrate 16

Tool Open @ 3:02 PM Initial Blow WEAK SURFACE BLOW DIED IN 10 MINUTES

Final Blow NO RETURN-FLUSHED TOOL-SURFACE BLOW DIED IN 5 MINUTES

Recovery - Total Feet 20 Flush Tool? YES

Rec. 20 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 99 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 15000 ppm System

(A) Initial Hydrostatic Mud 1596.3 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 22.3 PSI @ (depth) 3285 w / Clock No. 25814

(C) First Final Flow Pressure 22.3 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 22.3 PSI @ (depth) 3290 w / Clock No. 27566

(E) Second Initial Flow Pressure 40.7 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 40.7 PSI @ (depth) _____ w / Clock No. _____

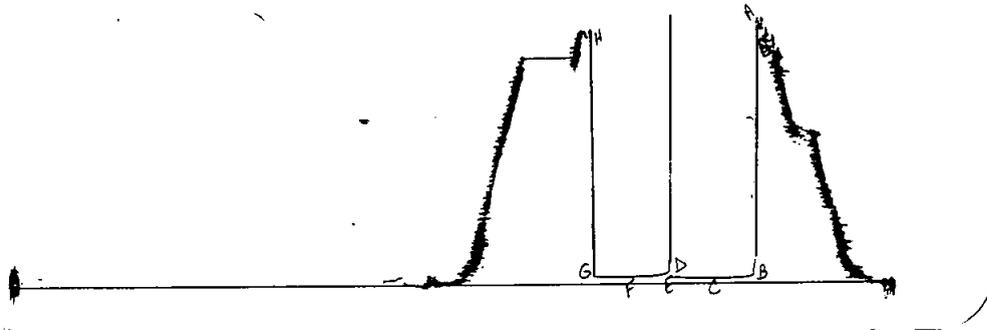
(G) Final Shut-in Pressure 40.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1563.2 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative ROD STEINBRINK

CHART PAGE

DST #1
13339



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1592	1596.3
(B) FIRST INITIAL FLOW PRESSURE	20	22.3
(C) FIRST FINAL FLOW PRESSURE	20	22.3
(D) INITIAL CLOSED-IN PRESSURE	20	22.3
(E) SECOND INITIAL FLOW PRESSURE	41	40.7
(F) SECOND FINAL FLOW PRESSURE	41	40.7
(G) FINAL CLOSED-IN PRESSURE	41	40.7
(H) FINAL HYDROSTATIC MUD	1562	1563.2

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5184

Well Name & No.	<u>Stannard 'A' #1</u>	Test No.	<u>1</u>	Date	<u>8-9-92</u>				
Company	<u>Pickrell Drilling Company, Inc.</u>	Zone Tested	<u>Bern</u>						
Address	<u>110 N. Market Suite 205</u>	Nichita, KS. 67202	Elevation	<u>1957 (KB)</u>					
Co. Rep./Geo.	<u>Bill Klover</u>	cont.	<u>Pickrell #</u>	Est. Ft. of Pay	<u>4'</u>				
Location: Sec.	<u>16</u>	Twp.	<u>30 S</u>	Rge.	<u>14 W</u>	co.	<u>Barber</u>	state	<u>KS.</u>
No. of Copies		Distribution Sheet	Yes <input checked="" type="checkbox"/>	No	Turnkey	Yes	No	Evaluation	

Interval Tested	<u>3263 - 3295</u>	Drill Pipe Size	<u>4 1/2" XH</u>	
Anchor Length	<u>22'</u>	Top Choke - 1"	Bottom Choke - <u>3/4"</u>	
Top Packer Depth	<u>3258</u>	Hole Size - <u>7 7/8"</u>	Rubber Size - <u>6 3/4"</u>	
Bottom Packer Depth	<u>3263</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>—</u>	
Total Depth	<u>3295</u>	Drill Collar - 2.25 Ft. Run	<u>240'</u>	
Mud Wt.	<u>8.5</u>	lb/gal.	Viscosity <u>44</u>	Filtrate <u>16.0</u>
Tool Open @	<u>3:02 pm</u>	Initial Blow	<u>Weak surface blow died in 10 mins.</u>	

Final Blow No return / flushed tool - surface blow died in 5 mins.

Recovery - Total Feet	<u>20'</u>	Feet of Gas In Pipe	<u>—</u>	Flush Tool?	<u>YES</u>	
Rec.	Feet Of	% gas	% oil	% water	% mud	
Rec.	Feet Of	% gas	% oil	% water	% mud	
Rec.	<u>20'</u> Feet Of	<u>Drbg. Mud</u>	% gas	% oil	% water	% mud
Rec.	Feet Of	% gas	% oil	% water	% mud	
Rec.	Feet Of	% gas	% oil	% water	% mud	

BHT 99° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 15,000 ppm System

- (A) Initial Hydrostatic Mud 1592 PSI Ak1 Recorder No. 13309 Range 4700
- (B) First Initial Flow Pressure 20 PSI @ (depth) 3285 w/Clock No. 25814
- (C) First Final Flow Pressure 20 PSI AK1 Recorder No. 13339 Range 4025
- (D) Initial Shut-In Pressure 20 PSI @ (depth) 3290 w/Clock No. 27566
- (E) Second Initial Flow Pressure 41 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 41 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 41 PSI Initial Opening 30 Test _____
- (H) Final Hydrostatic Mud 1562 PSI Initial Shut-In 30 Jars _____

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 _____

Final Shut-In 30 Straddle _____

Circ. Sub X N/C

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 550.00

Approved By Bill Klover

Our Representative Rod Steinbrink

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STANNARD "A" #1 Test No. 2 Date 8/13/92
Company PICKRELL DRILLING COMPANY, INC. Zone MARM/CONG
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 1957
Co. Rep./Geo. BILL KLAVER Cont. PICKRELL RIG #1 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 30S Rge. 14W Co. BARBER State KS

Interval Tested	<u>4482-4548</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>4477</u>	Drill Collar - 2.25 Ft. Run	<u>180</u>
Bottom Packer Depth	<u>4482</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>4548</u>	Viscosity	<u>44</u> Filtrate <u>12</u>

Tool Open @ 4:57 AM Initial Blow TOOL SLID 4'-WEAK SURFACE BLOW BUILT TO 5"
ISI: BLED OFF BLOW-SURFACE BLOW BUILT TO 1"
Final Blow WEAK RETURN SLOWLY BUILT OFF BOTTOM IN 25 MINUTES
FSI: BLED OFF BLOW-1" RETURN

Recovery - Total Feet 70 Flush Tool? NO

Rec. 70 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 19000 ppm System

(A) Initial Hydrostatic Mud 2340.8 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 44.2 PSI @ (depth) 4538 w / Clock No. 25814

(C) First Final Flow Pressure 40.7 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 65.8 PSI @ (depth) 4543 w / Clock No. 27566

(E) Second Initial Flow Pressure 40.7 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 40.7 PSI @ (depth) _____ w / Clock No. _____

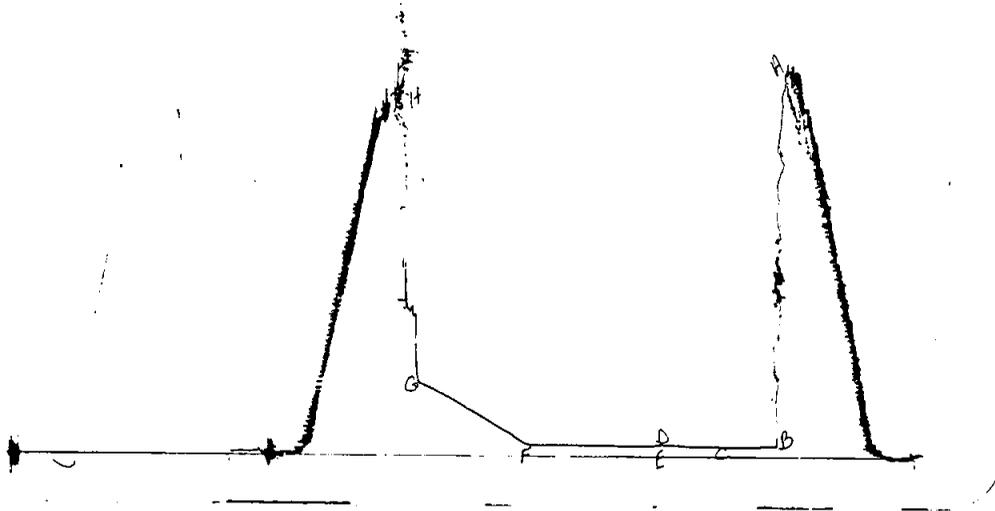
(G) Final Shut-in Pressure 417.6 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2254.7 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative ROD STEINBRINK

CHART PAGE

DST#2
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2343	2340.8
(B) FIRST INITIAL FLOW PRESSURE	41	44.2
(C) FIRST FINAL FLOW PRESSURE	41	40.7
(D) INITIAL CLOSED-IN PRESSURE	62	65.8
(E) SECOND INITIAL FLOW PRESSURE	41	40.7
(F) SECOND FINAL FLOW PRESSURE	41	40.7
(G) FINAL CLOSED-IN PRESSURE	415	417.6
(H) FINAL HYDROSTATIC MUD	2253	2254.7

TRILOBITE TESTING L.L.C.

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Test Ticket

No 5185

Well Name & No. Stannard 'A' #1 Test No. 2 Date 8-13-92
 Company Pickrell Drilling Company, Inc. zone Tested Marmaton/Conglomerate
 Address 110 N. Market Suite 205 Wichita, KS. 67202 Elevation 1957 (KB)
 Co. Rep./Geo. Bill Klaver cont. Pickrell #1 Est. Ft. of Pay _____
 Location: Sec. 16 Twp. 30 S Rge. 14 W co. Barber state KS.
 No. of Copies _____ Distribution Sheet _____ Yes X No Turnkey _____ Yes X No _____ Evaluation _____

Interval Tested 4482 - 4548 Drill Pipe Size 4 1/2" XH
 Anchor Length 66' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4477 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4482 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4548 Drill Collar — 2.25 Ft. Run 180'
 Mud Wt. 93 lb/gal. Viscosity 44 Filtrate 12.0
 Tool Open @ 4:57 am Initial Blow Tool slid 4' - Weak surface blow built to 5"
ISI: Bled off blow - Surface blow built to 1"
 Final Blow Weak return slowly built off bottom in 25 mins.
FST: Bled off blow - 1" return.

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>70'</u>	_____	<u>No</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>70'</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 119° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 19,000 ppm System
 (A) Initial Hydrostatic Mud 2343 PSI Ak1 Recorder No. 13309 Range 4700
 (B) First Initial Flow Pressure 41 PSI @ (depth) 4538 w/Clock No. 25814
 (C) First Final Flow Pressure 41 PSI AK1 Recorder No. 13339 Range 4025
 (D) Initial Shut-In Pressure 62 PSI @ (depth) 4543 w/Clock No. 27566
 (E) Second Initial Flow Pressure 41 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 41 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 415 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 2253 PSI Initial Shut-In 60 Jars _____

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Final Flow 90 Safety Joint _____
 Final Shut-In 90 Straddle _____
 Circ. Sub X N/C
 Sampler _____
 Extra Packer _____
 Other _____

Approved By Bill Klaver
 Our Representative Rod Steinbrink

TOTAL PRICE \$ 550.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STANNARD "A" #1 Test No. 3 Date 8/13/92
Company PICKRELL DRILLING COMPANY, INC. Zone VIOLA
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 1957
Co. Rep./Geo. BILL KLAVER Cont. PICKRELL RIG #1 Est. Ft. of Pay 6
Location: Sec. 16 Twp. 30S Rge. 14W Co. BARBER State KS

Interval Tested 4548-4575 Drill Pipe Size 4.5 XH
Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4543 Drill Collar - 2.25 Ft. Run 180
Bottom Packer Depth 4548 Mud Wt. 9.5 lb/Gal.
Total Depth 4575 Viscosity 52 Filtrate 19.2

Tool Open @ 8:40 PM Initial Blow WEAK BLOW SLOWLY BUILT TO 6"
ISI: BLED OFF BLOW-SURFACE RETURN LASTING 15 MINUTES
Final Blow VERY WEAK SURFACE RETURN STAYING STEADY THROUGHOUT
FSI: NO BLOW

Recovery - Total Feet 70 Flush Tool? NO

Rec. 70 Feet of DRILLING MUD WITH GOOD SHOW OF OIL IN TOOL
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 34000 ppm System

(A) Initial Hydrostatic Mud 2356.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 32.3 PSI @ (depth) 4565 w / Clock No. 25814

(C) First Final Flow Pressure 30.9 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 85.4 PSI @ (depth) 4570 w / Clock No. 27566

(E) Second Initial Flow Pressure 30.9 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 30.9 PSI @ (depth) _____ w / Clock No. _____

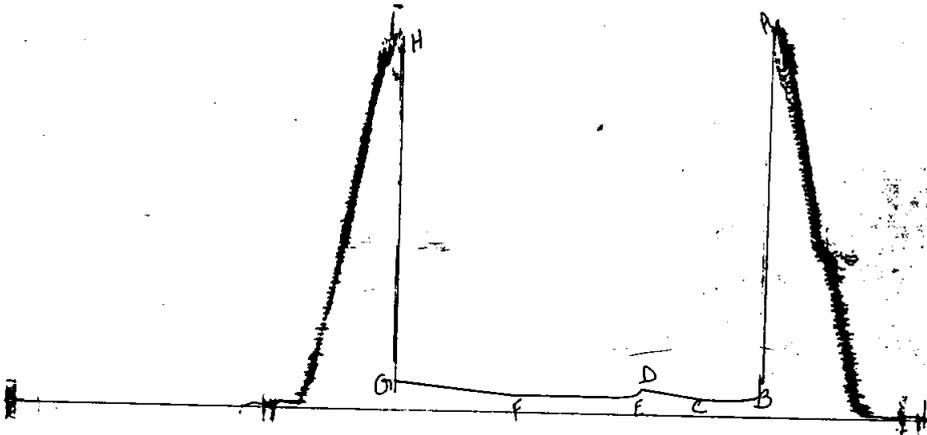
(G) Final Shut-in Pressure 84.3 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2271.3 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative ROD STEINBRINK

CHART PAGE

DST#3
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2353	2356.9
(B) FIRST INITIAL FLOW PRESSURE	31	32.3
(C) FIRST FINAL FLOW PRESSURE	31	30.9
(D) INITIAL CLOSED-IN PRESSURE	83	85.4
(E) SECOND INITIAL FLOW PRESSURE	31	30.9
(F) SECOND FINAL FLOW PRESSURE	31	30.9
(G) FINAL CLOSED-IN PRESSURE	83	84.3
(H) FINAL HYDROSTATIC MUD	2273	2271.3

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5186

Well Name & No.	Stannard 'A' #1	Test No.	3	Date	8-13-92				
Company	Pickrell Drilling Company, Inc.	Zone Tested	Viola						
Address	1103 N. Market Suite 205 Wichita, KS. 67202	Elevation	1957 (KB)						
Co. Rep./Geo.	Bill Klaver	cont.	Pickrell #1	Est. Ft. of Pay	6'				
Location: Sec.	16	Twp.	30 S	Rge.	14 W	co.	Barber	state	KS
No. of Copies		Distribution Sheet	Yes <input checked="" type="checkbox"/>	No	Turnkey	Yes <input checked="" type="checkbox"/>	No	Evaluation	

Interval Tested	4548 - 4575	Drill Pipe Size	4 1/2" XH		
Anchor Length	27'	Top Choke -- 1"	Bottom Choke -- 3/4"		
Top Packer Depth	4543	Hole Size -- 7 7/8"	Rubber Size -- 6 3/4"		
Bottom Packer Depth	4548	Wt. Pipe I.D. -- 2.7 Ft. Run			
Total Depth	4575	Drill Collar -- 2.25 Ft. Run	180'		
Mud Wt.	9.5 lb/gal.	Viscosity	52	Filtrate	19.2

Tool Open @ 8:40 pm. Initial Blow Weak blow slowly built to 6".
ISI: Bled off blow - surface return lasting 15 mins.
Final Blow Very weak surface return staying steady throughout.
FSI: No blow

Recovery -- Total Feet	70'	Feet of Gas In Pipe		Flush Tool?	No		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	70'	Feet Of	Drlg. Mud w/good show	%gas	%oil	%water	%mud
Rec.	Feet Of	oil in tool	%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 34,000 ppm System

- (A) Initial Hydrostatic Mud 2353 PSI AK1 Recorder No. 13309 Range 4700
- (B) First Initial Flow Pressure 31 PSI @ (depth) 4565 w/Clock No. 25814
- (C) First Final Flow Pressure 31 PSI AK1 Recorder No. 13339 Range 4025
- (D) Initial Shut-In Pressure 83 PSI @ (depth) 4570 w/Clock No. 27566
- (E) Second Initial Flow Pressure 31 PSI AK1 Recorder No. Range
- (F) Second Final Flow Pressure 31 PSI @ (depth) w/Clock No.
- (G) Final Shut-In Pressure 83 PSI Initial Opening 30 Test
- (H) Final Hydrostatic Mud 2273 PSI Initial Shut-In 60 Jars

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Final Flow 90 Safety Joint
Final Shut-In 90 Straddle
Circ. Sub N/C
Sampler
Extra Packer
Other

Approved By Bill Klaver
Our Representative Rod Steinbrink

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STANNARD "A" #1 Test No. 4 Date 8/14/92
Company PICKRELL DRILLING COMPANY, INC. Zone SIMPSON SAND
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 1957
Co. Rep./Geo. BILL KLAVER Cont. PICKRELL RIG #1 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 30S Rge. 14W Co. BARBER State KS

Interval Tested	<u>4574-4596</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>22</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4569</u>	Drill Collar - 2.25 Ft. Run	<u>180</u>
Bottom Packer Depth	<u>4574</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4596</u>	Viscosity	<u>48</u>
		Filtrate	<u>10.4</u>

Tool Open @ 12:43 PM Initial Blow SURFACE BLOW SLOWLY BUILT TO 8"
ISI: BLED OFF BLOW-NO RETURN
Final Blow SURFACE RETURN BUILT OFF BOTTOM IN 45 MINUTES
FSI: BLED OFF BLOW-NO RETURN

Recovery - Total Feet 210 Flush Tool? NO

Rec. <u>30</u>	Feet of	<u>GSY MUD-20%GAS/80%MUD</u>
Rec. <u>120</u>	Feet of	<u>GSY CUT WTRY MUD-30%GAS/5%WTR/65%MUD</u>
Rec. <u>60</u>	Feet of	<u>GSY CUT WTRY MUD-20%GAS/20%WTR/60%MUD</u>
Rec. _____	Feet of	<u>TRACE OF OIL IN TOTAL RECOVERY</u>
Rec. _____	Feet of	_____

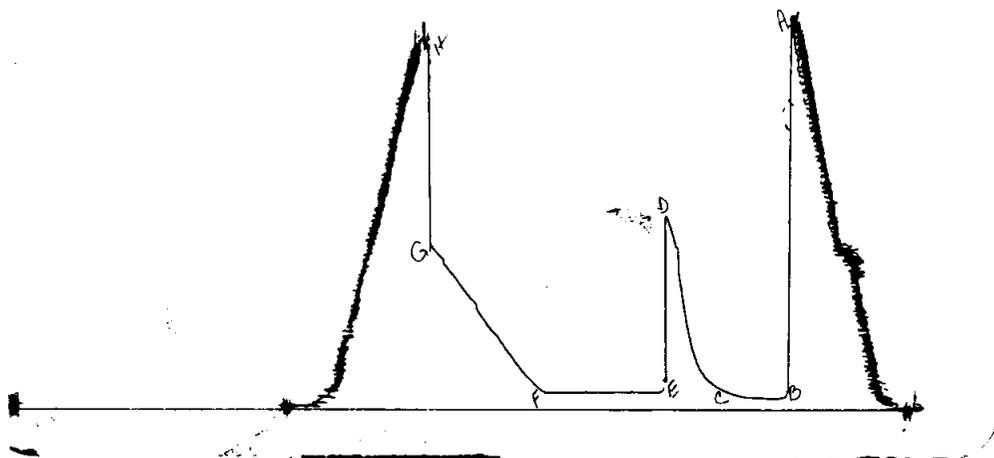
BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.35 @ 77 °F Chlorides 17000 ppm Recovery Chlorides 25000 ppm System

(A) Initial Hydrostatic Mud	<u>2377.2</u> PSI	AK1 Recorder No.	<u>13309</u>	Range	<u>4700</u>
(B) First Initial Flow Pressure	<u>55.4</u> PSI	@ (depth)	<u>4587</u>	w / Clock No.	<u>25814</u>
(C) First Final Flow Pressure	<u>55.4</u> PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(D) Initial Shut-in Pressure	<u>1186.3</u> PSI	@ (depth)	<u>4591</u>	w / Clock No.	<u>27566</u>
(E) Second Initial Flow Pressure	<u>105.2</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>105.2</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>990.3</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>90</u>
(H) Final Hydrostatic Mud	<u>2304.5</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>90</u>

Our Representative ROD STEINBRINK

CHART PAGE

DST#4
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2383	2377.2
(B) FIRST INITIAL FLOW PRESSURE	52	55.4
(C) FIRST FINAL FLOW PRESSURE	52	55.4
(D) INITIAL CLOSED-IN PRESSURE	1180	1186.3
(E) SECOND INITIAL FLOW PRESSURE	104	105.2
(F) SECOND FINAL FLOW PRESSURE	104	105.2
(G) FINAL CLOSED-IN PRESSURE	989	990.3
(H) FINAL HYDROSTATIC MUD	2303	2304.5

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5187

Well Name & No.	Stannard 'A' #1	Test No.	4	Date	8-14-92								
Company	Pickrell Drlg. Company, Inc.	Zone Tested	Simpson Sand										
Address	110 N. Market Suite 205 Wichita, KS 67202	Elevation	1957 (KB)										
Co. Rep./Geo.	Bill Klaver	cont.	Pickrell #1	Est. Ft. of Pay									
Location: Sec.	16	Twp.	30 S	Rge.	14 W	co.	Barber	state	KS				
No. of Copies		Distribution Sheet		Yes	X	No	Turnkey		Yes	X	No	Evaluation	

Interval Tested	4574 - 4596	Drill Pipe Size	4 1/2" XH			
Anchor Length	22'	Top Choke - 1"	Bottom Choke - 3/4"			
Top Packer Depth	4569	Hole Size - 7 7/8"	Rubber Size - 6 3/4"			
Bottom Packer Depth	4574	Wt. Pipe I.D. - 2.7 Ft. Run	—			
Total Depth	4596	Drill Collar - 2.25 Ft. Run	180'			
Mud Wt.	9.2	lb/gal.	Viscosity	48	Filtrate	10.4

Tool Open @ 12:43 pm Initial Blow Surface blow slowly built to 8".
ISI: Bled off blow - no return.
Final Blow Surface return built off bottom in 45 mins.
FSI: Bled off blow - no return

Recovery - Total Feet	310 210'	Feet of Gas In Pipe		Flush Tool?	No		
Rec.	30'	Feet Of	GOCM	20 %gas	trc %oil	— %water	80 %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	120'	Feet Of	GOCWM	30 %gas	trc %oil	5 %water	65 %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	60'	Feet Of	GDCWM	20 %gas	trc %oil	20 %water	60 %mud

BHT 118° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW .35 @ 77° °F. Chlorides 17,000 ppm Recovery Chlorides 25,000 ppm System

- (A) Initial Hydrostatic Mud 2383 PSI Ak1 Recorder No. 13309 Range 4700
- (B) First Initial Flow Pressure 52 PSI @ (depth) 4587 w/Clock No. 25814
- (C) First Final Flow Pressure 52 PSI Ak1 Recorder No. 13339 Range 4025
- (D) Initial Shut-In Pressure 1180 PSI @ (depth) 4591 w/Clock No. 27566
- (E) Second Initial Flow Pressure 104 PSI Ak1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 104 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 989 PSI Initial Opening 30 Test _____
- (H) Final Hydrostatic Mud 2303 PSI Initial Shut-In 60 Jars _____

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 Bill Klaver
Our Representative Rod Steinbrink

Final Flow 90 Safety Joint _____
Final Shut-In 90 Straddle _____
Circ. Sub X N/C
Sampler _____
Extra Packer _____
Other _____

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STANNARD "A" #1 Test No. 5 Date 8/15/92
Company PICKRELL DRILLING COMPANY, INC. Zone SIMPSON SAND
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 1957
Co. Rep./Geo. BILL KLAVER Cont. PICKRELL RIG #1 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 30S Rge. 14W Co. BARBER State KS

Interval Tested	<u>4573-4601</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>28</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4568</u>	Drill Collar - 2.25 Ft. Run	<u>180</u>
Bottom Packer Depth	<u>4573</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4601</u>	Viscosity	<u>48</u> Filtrate <u>10.4</u>

Tool Open @ 3:23 AM Initial Blow SURFACE BLOW BUILT TO BOTTOM IN 16 MINUTES
ISI: BLED OFF BLOW-NO RETURN
Final Blow FAIR RETURN BUILT TO BOTTOM IN 26 MINUTES
FSI: BLED OFF BLOW-WEAK SURFACE RETURN BUILT TO 8"

Recovery - Total Feet 390 Flush Tool? NO

Rec. <u>30</u>	Feet of	<u>GSY WTRY CUT MUD-15%GAS/25%WTR/60%MUD</u>
Rec. <u>120</u>	Feet of	<u>GSY CUT WTRY MUD-30%GAS/30%WTR/40%MUD</u>
Rec. <u>120</u>	Feet of	<u>GSY CUT WTRY MUD-40%GAS/30%WTR/30%MUD</u>
Rec. <u>120</u>	Feet of	<u>GSY MUD CUT WATER-50%GAS/20%WTR/30%MUD</u>
Rec. _____	Feet of	<u>TRACE OF OIL IN TOTAL RECOVERY</u>

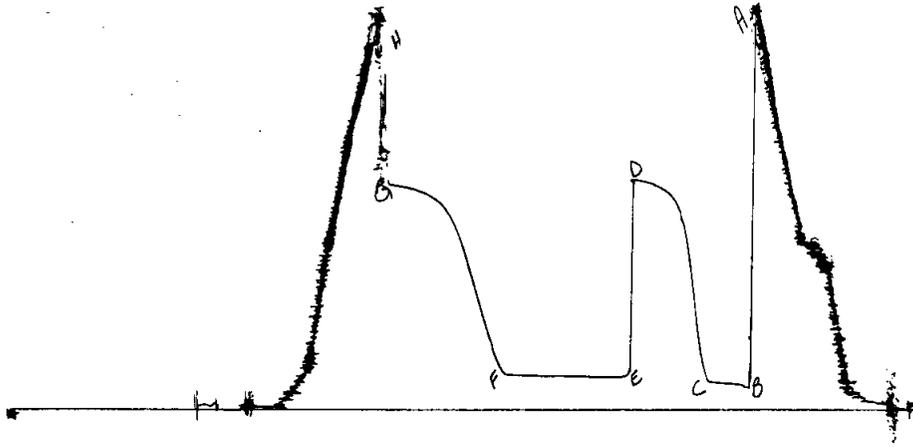
BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.48 @ 78 °F Chlorides 12500 ppm Recovery Chlorides 25000 ppm System

(A) Initial Hydrostatic Mud	<u>2378.3</u> PSI	AK1 Recorder No.	<u>13309</u>	Range	<u>4700</u>
(B) First Initial Flow Pressure	<u>70.9</u> PSI	@ (depth)	<u>4591</u>	w / Clock No.	<u>25814</u>
(C) First Final Flow Pressure	<u>105.2</u> PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(D) Initial Shut-in Pressure	<u>1360.7</u> PSI	@ (depth)	<u>4596</u>	w / Clock No.	<u>27566</u>
(E) Second Initial Flow Pressure	<u>160.3</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>188.6</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>1355.5</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>90</u>
(H) Final Hydrostatic Mud	<u>2344.7</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>90</u>

Our Representative ROD STEINBRINK

CHART PAGE

DST #5
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2373	2378.3
(B) FIRST INITIAL FLOW PRESSURE	72	70.9
(C) FIRST FINAL FLOW PRESSURE	104	105.2
(D) INITIAL CLOSED-IN PRESSURE	1361	1360.7
(E) SECOND INITIAL FLOW PRESSURE	155	160.3
(F) SECOND FINAL FLOW PRESSURE	187	188.6
(G) FINAL CLOSED-IN PRESSURE	1351	1355.5
(H) FINAL HYDROSTATIC MUD	2343	2344.7

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5188

Well Name & No.	<u>Stannard 'A' #1</u>	Test No.	<u>5</u>	Date	<u>8-15-92</u>					
Company	<u>Pickrell Drilling Company, Inc.</u>	Zone Tested	<u>Simpson Sand</u>							
Address	<u>110 N. Market Suite 205 Wichita, KS. 67202</u>	Elevation	<u>1957 (KB)</u>							
Co. Rep./Geo.	<u>Bill Klaver</u>	cont.	<u>Pickrell #1</u>	Est. Ft. of Pay	_____					
Location: Sec.	<u>16</u>	Twp.	<u>30 S</u>	Rge.	<u>14 W</u>	co.	<u>Barber</u>	state	<u>KS.</u>	
No. of Copies	_____	Distribution Sheet	Yes <input checked="" type="checkbox"/>	No	Turnkey	Yes <input checked="" type="checkbox"/>	No	_____	Evaluation	_____

Interval Tested	<u>4573 - 4601</u>	Drill Pipe Size	<u>4 1/2" XH</u>	
Anchor Length	<u>28'</u>	Top Choke — 1"	Bottom Choke — 1/4"	
Top Packer Depth	<u>4568</u>	Hole Size — 7 7/8"	Rubber Size — 6 3/4"	
Bottom Packer Depth	<u>4573</u>	Wt. Pipe I.D. — 2.7 Ft. Run	_____	
Total Depth	<u>4601</u>	Drill Collar — 2.25 Ft. Run	<u>180'</u>	
Mud Wt.	<u>9.2</u>	lb/gal.	Viscosity <u>48</u>	Filtrate <u>10.4</u>

Tool Open @ 3:23 am Initial Blow Surface blow built to bottom in 16 mins.
IST: Bled off blow - no return.

Final Blow Fair return built to bottom in 26 mins.
FSI: Bled off blow - weak surface return built to 8".

Recovery — Total Feet 390' Feet of Gas in Pipe _____ Flush Tool? No

Rec.	Feet Of	% gas	trc. % oil	% water	% mud
<u>30'</u>	<u>GWCM</u>	<u>15</u>	<u>25</u>	<u>60</u>	
<u>120'</u>	<u>GWCM</u>	<u>30</u>	<u>30</u>	<u>40</u>	
<u>120'</u>	<u>GWCM</u>	<u>40</u>	<u>30</u>	<u>30</u>	
<u>120'</u>	<u>GMCW</u>	<u>50</u>	<u>20</u>	<u>30</u>	
Rec.	Feet Of	% gas	% oil	% water	% mud

BHT 120° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .48 @ 78° °F Chlorides 12,500 ppm Recovery Chlorides 25,000 ppm System

- (A) Initial Hydrostatic Mud 2373 PSI AK1 Recorder No. 13309 Range 4700
- (B) First Initial Flow Pressure 72 PSI @ (depth) 4591 w/Clock No. 25814
- (C) First Final Flow Pressure 104 PSI AK1 Recorder No. 13339 Range 4025
- (D) Initial Shut-in Pressure 1361 PSI @ (depth) 4596 w/Clock No. 27566
- (E) Second Initial Flow Pressure 155 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 187 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-in Pressure 1351 PSI Initial Opening 30 Test _____
- (H) Final Hydrostatic Mud 2343 PSI Initial Shut-in 60 Jars _____

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 90 Safety Joint _____

Final Shut-in 90 Straddle _____

Circ. Sub X N/C

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ _____

Approved By Bill Klaver

Our Representative Rod Steinbrink

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STANNARD "A" #1 Test No. 6 Date 8/15/92
Company PICKRELL DRILLING COMPANY, INC. Zone SIMPSON SAND
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 1957
Co. Rep./Geo. BILL KLAVER Cont. PICKRELL RIG #1 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 30S Rge. 14W Co. BARBER State KS

Interval Tested	<u>4630-4645</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>15</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4625</u>	Drill Collar - 2.25 Ft. Run	<u>180</u>
Bottom Packer Depth	<u>4630</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4645</u>	Viscosity	<u>43</u> Filtrate <u>8</u>

Tool Open @ 8:00 PM Initial Blow LACKED GOING TO BOTTOM 25-30 FT - OPENED TOOL
WOULDN'T SLIDE TO BOTTOM-(TRIPPED OUT OF HOLE-CO. ORDERS)

Final Blow _____

Recovery - Total Feet _____ Flush Tool? NO

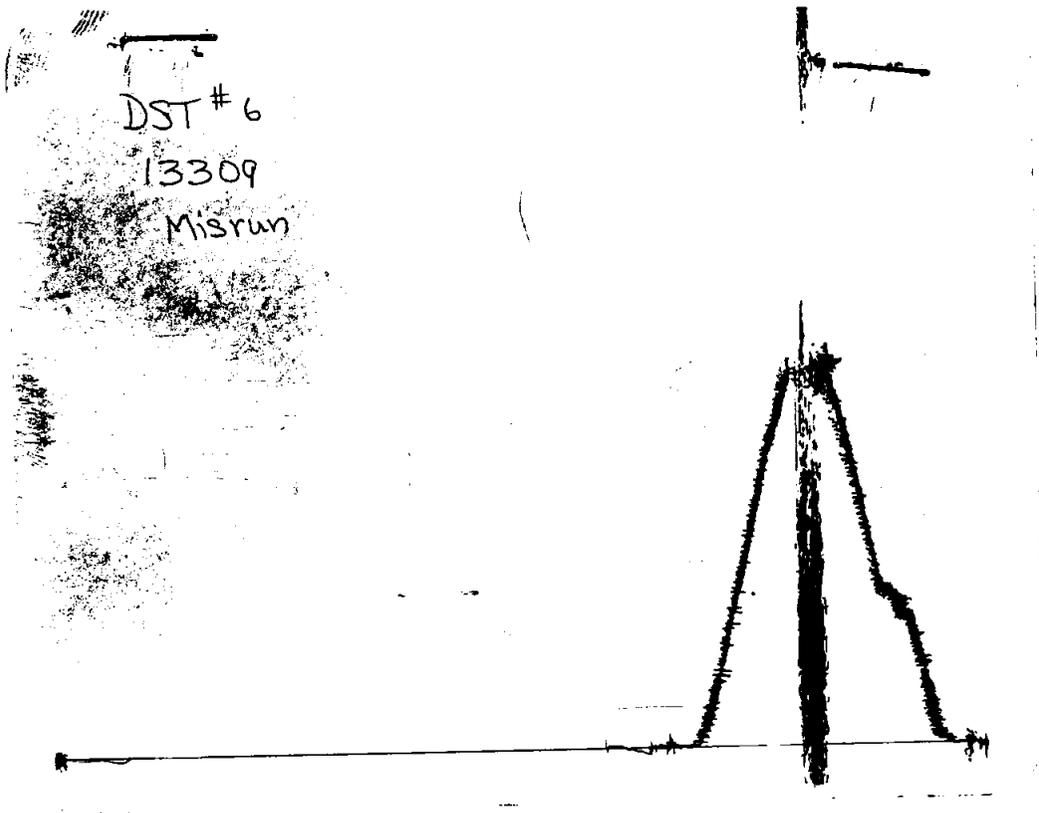
Rec. 65 Feet of HEAVY DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 25000 ppm System

(A) Initial Hydrostatic Mud 2356.9 PSI AK1 Recorder No. 13309 Range 4700
(B) First Initial Flow Pressure _____ PSI @ (depth) 4635 w / Clock No. 25814
(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13339 Range 4025
(D) Initial Shut-in Pressure _____ PSI @ (depth) 4640 w / Clock No. 27566
(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 _____ Final Flow _____
(H) Final Hydrostatic Mud 2356.9 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2353	2356.9
(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	2353	2356.9

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5189

Well Name & No.	Stannard 'A' #1	Test No.	6	Date	8-15-92				
Company	Pickrell Drilling Company, Inc.	Zone Tested	Simpson Sand						
Address	110 N. Market Suite 205 Wichita, KS 67202	Elevation	1957	(KB)					
Co. Rep./Geo.	Bill Klaver	cont.	Pickrell #1	Est. Ft. of Pay					
Location: Sec.	16	Twp.	30 S	Rge.	14 W	co.	Barber	state	KS.
No. of Copies		Distribution Sheet	Yes <input checked="" type="checkbox"/>	No Turnkey	Yes <input checked="" type="checkbox"/>	No		Evaluation	

Interval Tested	4630 - 4645	Drill Pipe Size	4 1/2" XH	
Anchor Length	15'	Top Choke — 1"	Bottom Choke — 3/4"	
Top Packer Depth	4625	Hole Size — 7 7/8"	Rubber Size — 6 3/4"	
Bottom Packer Depth	4630	Wt. Pipe I.D. — 2.7 Ft. Run		
Total Depth	4645	Drill Collar — 2.25 Ft. Run	180'	
Mud Wt.	9.2	lb/gal.	Viscosity 43	Filtrate 8.0
Tool Open @	8:00 pm	Initial Blow	Lacked going to bottom 25-30' Opened Tool - wouldn't slid to bottom. (T.O.H. w/Tool @ Co. Orders)	
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.	65'	Feet Of	Heavy Drlg. Mud.	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		

BHT 120° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 25,000 ppm System

(A) Initial Hydrostatic Mud	2353	PSI	AK1 Recorder No.	13309	Range	4700
(B) First Initial Flow Pressure		PSI	@ (depth)	4635	w/Clock No.	25814
(C) First Final Flow Pressure		PSI	AK1 Recorder No.	13339	Range	4025
(D) Initial Shut-In Pressure		PSI	@ (depth)	4640	w/Clock No.	27566
(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		Test	mistrun
(H) Final Hydrostatic Mud	2353	PSI	Initial Shut-in		Jars	

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		Safety Joint	
Final Shut-In		Straddle	
		Circ. Sub	X N/C
		Sampler	

Approved By _____
Our Representative Rod Steinbrink

Extra Packer _____
Other _____
TOTAL PRICE \$ 400.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STANNARD "A" #1 Test No. 7 Date 8/16/92
Company PICKRELL DRILLING COMPANY, INC. Zone SIMPSON SAND
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 1957
Co. Rep./Geo. BILL KLAVER Cont. PICKRELL RIG #1 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 30S Rge. 14W Co. BARBER State KS

Interval Tested	<u>4630-4645</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>15</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4625</u>	Drill Collar - 2.25 Ft. Run	<u>180</u>
Bottom Packer Depth	<u>4630</u>	Mud Wt.	<u>9.5</u> lb/Gal.
Total Depth	<u>4645</u>	Viscosity	<u>47</u> Filtrate <u>8</u>

Tool Open @ 7:30 AM Initial Blow WEAK 1/4" BLOW STEADY THROUGHOUT
ISI: 1/4" BLOW DIED ON ITS OWN IN 12 MINUTES
Final Blow NO RETURN-FLUSHED TOOL-GOOD SURGE-NO HELP

Recovery - Total Feet 70 Flush Tool? YES

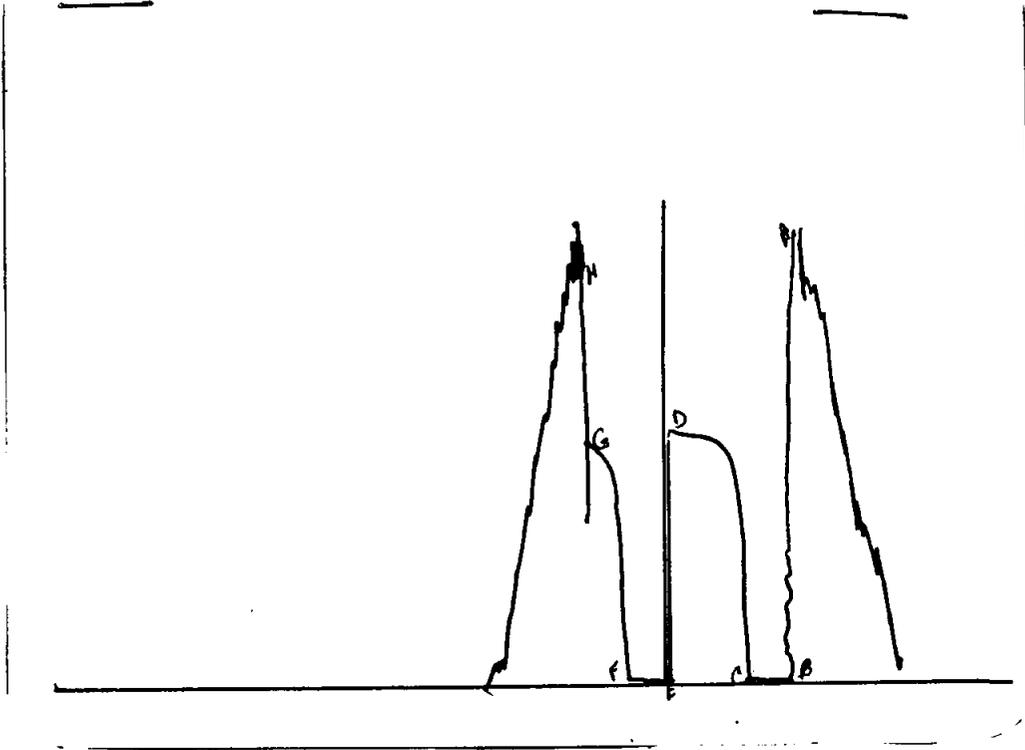
Rec. 70 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 28000 ppm System

(A) Initial Hydrostatic Mud	<u>2368.2</u> PSI	AK1 Recorder No.	<u>13309</u>	Range	<u>4700</u>
(B) First Initial Flow Pressure	<u>30.9</u> PSI	@ (depth)	<u>4635</u>	w / Clock No.	<u>25814</u>
(C) First Final Flow Pressure	<u>30.9</u> PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(D) Initial Shut-in Pressure	<u>1360.7</u> PSI	@ (depth)	<u>4640</u>	w / Clock No.	<u>27566</u>
(E) Second Initial Flow Pressure	<u>30.9</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>40.7</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>1298.6</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>30</u>
(H) Final Hydrostatic Mud	<u>2310.5</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>30</u>

Our Representative ROD STEINBRINK

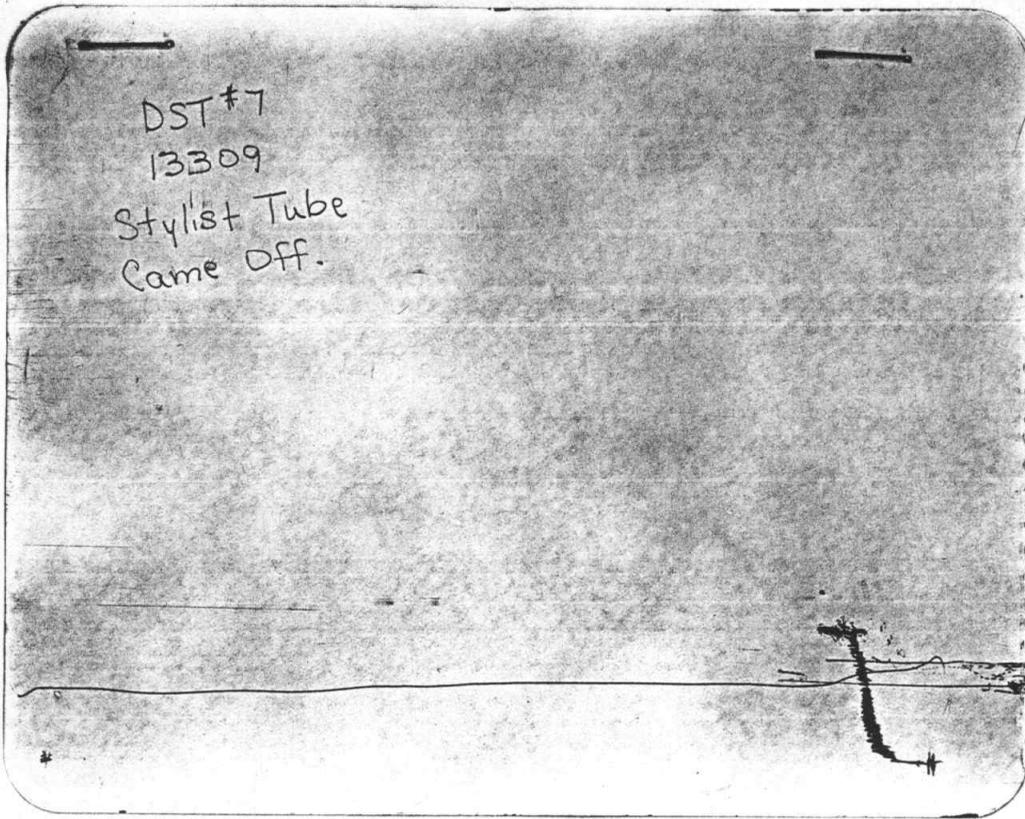
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2363	2368.2
(B) FIRST INITIAL FLOW PRESSURE	31	30.9
(C) FIRST FINAL FLOW PRESSURE	31	30.9
(D) INITIAL CLOSED-IN PRESSURE	1361	1360.7
(E) SECOND INITIAL FLOW PRESSURE	31	30.9
(F) SECOND FINAL FLOW PRESSURE	41	40.7
(G) FINAL CLOSED-IN PRESSURE	1291	1298.6
(H) FINAL HYDROSTATIC MUD	2303	2310.5

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 5190

Well Name & No. Stannard 'A' #1 Test No. 7 Date 8-16-92
 Company Pickrell Drilling Company, Inc. zone Tested Simpson Sand
 Address 110 N. Market Suite 205 Wichita, KS. 67202 Elevation 1957 (KB)
 Co. Rep./Geo. Bill Klaver cont. Pickrell #1 Est. Ft. of Pay _____
 Location: Sec. 16 Twp. 30 S Rge. 14 W co. Barber state KS.
 No. of Copies _____ Distribution Sheet _____ Yes No Turnkey _____ Yes No _____ Evaluation _____

Interval Tested 4630 - 4645 Drill Pipe Size 4 1/2" XH
 Anchor Length 15' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4625 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4630 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4645 Drill Collar — 2.25 Ft. Run 180'
 Mud Wt. 9.5 lb/gal. Viscosity 47 Filtrate 8.0
 Tool Open @ 7:30 am. Initial Blow Weak 1/4" blow steady throughout.
ISI: 1/4" blow died on its own in 12 mins.
 Final Blow No return - Flushed tool, good surge, no help.

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool? <u>YES</u>			
Rec.	Feet Of	% gas	% oil	% water	% mud
Rec. <u>70'</u>	Feet Of <u>Drig 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

BHT 116° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 28,000 ppm System
 (A) Initial Hydrostatic Mud 2363 PSI AK1 Recorder No. 13309 Range 4700
 (B) First Initial Flow Pressure 31 PSI @ (depth) 4635 w/Clock No. 25814
 (C) First Final Flow Pressure 31 PSI AK1 Recorder No. 13339 Range 4025
 (D) Initial Shut-in Pressure 1361 PSI @ (depth) 4640 w/Clock No. 27566
 (E) Second Initial Flow Pressure 31 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 41 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 1291 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 2303 PSI Initial Shut-in 60 Jars _____

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 Bill Klaver
 Our Representative Rod Steinbrink

Final Flow 30 Safety Joint _____
 Final Shut-in 30 Straddle _____
 Circ. Sub N/C _____
 Sampler _____
 Extra Packer _____
 Other _____