

Well Name: #1 Stephen's Q
Company: Pickrell Drilling
Location: 21-31s-21w
Clark County Kansas
Date: 1-5-99

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling

DATE 12-29-98

WELL NAME: #1 Stephen's Q

KB 2128.00 ft

TICKET NO: 11785

DST #1

LOCATION : 21-31s-21w Clark co. KS

GR 2123.00 ft

FORMATION: Morrow

INTERVAL : 5336.00 To 5369.00 ft

TD 5369.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	10991			PF Fr. 0038 to 0108 hr
SI 60 Range(Psi)	4025.0	4025.0	4200.0	0.0	0.0	IS Fr. 0108 to 0208 hr
SF 90 Clock(hrs)	12	12	12			SF Fr. 0208 to 0338 hr
FS 120 Depth(ft)	5363.0	5363.0	5340.0	0.0	0.0	FS Fr. 0338 to 0538 hr

	Field	1	2	3	4	
A. Init Hydro	2762.0	2745.0	0.0	0.0	0.0	T STARTED 0945 hr
B. First Flow	81.0	69.0	0.0	0.0	0.0	T ON BOTM 0030 hr
B1. Final Flow	101.0	94.0	0.0	0.0	0.0	T OPEN 0038 hr
C. In Shut-in	1347.0	1350.0	0.0	0.0	0.0	T PULLED 0538 hr
D. Init Flow	111.0	105.0	0.0	0.0	0.0	T OUT 0845 hr
E. Final Flow	132.0	136.0	0.0	0.0	0.0	
F. Fl Shut-in	1407.0	1402.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2711.0	2685.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 75000.00 lbs
						Initial Str Wt 75000.00 lbs
						Unseated Str Wt 75000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 235.86 ft
						D.P. Length 5097.14 ft

RECOVERY

Tot Fluid 175.00 ft of 175.00 ft in DC and 0.00 ft in DP
 4782.00 ft of Gas in pipe
 115.00 ft of Slight oily gassy cut mud
 0.00 ft of 5% gas 5% oil 90% mud
 60.00 ft of Slight oil cut watery mud
 0.00 ft of 24% gas 6% oil 20% water 50% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Fair blow bottom of bucket in 5 mins.

Initial Shut-in:

Bled down for 15 mins. no blow back

Final Flow:

Strong blow bottom of bucket in
 30 secs.

Final Shut-in:

Ble down for 10 mins. no blow back

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	64.00 S/L
W.L.	12.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	108.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Bill Klaver
Contr.	Pickrell
Rig #	
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

[illegible]

10991
DST # 2

This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11785

Well Name & No.	#1 Stephen's "Q"	Test No.	#1	Date	12/29/1998
Company	Pickrell Drilling	Zone Tested	Morrow		
Address	110 N. Market Suite 205 Wichita, KS 67202	Elevation	2128	KB	2123 GL
Co. Rep / Geo.	Bill Klauer	Cont.	Pickrell	Est. Ft. of Pay	Por. %
Location: Sec.	21	Twp.	31S	Rge.	21 W
		Co.	Clark	State	KS
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	5336' - 5369'	Initial Str Wt./Lbs.	75,000	Unseated Str. Wt./Lbs.	75,000
Anchor Length	33'	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	75,000
Top Packer Depth	5331'	Tool Weight	2100		
Bottom Packer Depth	5336'	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓
Total Depth	5369'	Wt. Pipe Run	N/A	Drill Collar Run	235' 86
Mud Wt.	9.1 LCM @ Vis. 64 WL 12.8	Drill Pipe Size	4 1/2 X H	Ft. Run	5097.14
Blow Description	IF: Gain blow b.o.b in 5 mins. IST: Bleed down for 15 mins. No bk. FF: Strong blow b.o.b in 30 sec. FSL: Bleed down for 10 mins. No bk.				

Recovery — Total Feet	175	GIP	4782'	Ft. in DC	175'	Ft. in DP	
Rec.	115'	Feet Of	50' GCM	5 %gas	5 %oil	%water	90 %mud
Rec.	60'	Feet Of	50' CWM	24 %gas	6 %oil	20 %water	50 %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud

BHT 108° °F Gravity °API D@ °F Corrected Gravity °API
RW .066 @ 58° °F Chlorides 80,000 ppm Recovery Chlorides 14,000 ppm System

(A) Initial Hydrostatic Mud	2762	AK-1	Alpine	PSI Recorder No.	10991	T-On Location	09:00
(B) First Initial Flow Pressure	81			PSI (depth)	5340'	T-Started	09:45
(C) First Final Flow Pressure	101			PSI Recorder No.	10332	T-Open	00:38
(D) Initial Shut-In Pressure	1347			PSI (depth)	5363'	T-Pulled	05:38
(E) Second Initial Flow Pressure	111			PSI Recorder No.		T-Out	08:45
(F) Second Final Flow Pressure	132			PSI (depth)		T-Off Location	1100
(G) Final Shut-in Pressure	1407			PSI Initial Opening	30	Test	✓ 800
(Q) Final Hydrostatic Mud	2711			PSI Initial Shut-in	60	Jars	✓ 200
				Final Flow	90	Safety Joint	✓ 50
				Final Shut-in	120	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec.	
						Mileage	
						Other	

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative

Bill Klauer

Dawn L. Dineen

TOTAL PRICE \$ 10.50

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling

DATE 12-31-98

WELL NAME: #1 Stephen's Q

KB 2128.00 ft

TICKET NO: 11786

DST #2

LOCATION : 21-31s-21w Clark co. KS

GR 2125.00 ft

FORMATION: Morrow

INTERVAL : 5335.00 To 5386.00 ft

TD 5386.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	10332			PF Fr. 0155 to 0235 hr
SI 60 Range(Psi)	4200.0	4200.0	4025.0	0.0	0.0	IS Fr. 0235 to 0335 hr
SF 90 Clock(hrs)	12	12	12			SF Fr. 0335 to 0505 hr
FS 120 Depth(ft)	5344.0	5344.0	5383.0	0.0	0.0	FS Fr. 0505 to 0705 hr

	Field	1	2	3	4	
A. Init Hydro	2649.0	2669.0	0.0	0.0	0.0	T STARTED 2200 hr
B. First Flow	43.0	61.0	0.0	0.0	0.0	T ON BOTM 0150 hr
B1. Final Flow	85.0	93.0	0.0	0.0	0.0	T OPEN 0155 hr
C. In Shut-in	1268.0	1272.0	0.0	0.0	0.0	T PULLED 0710 hr
D. Init Flow	106.0	118.0	0.0	0.0	0.0	T OUT 1000 hr
E. Final Flow	106.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	1300.0	1306.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2649.0	2669.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 120000.00 lbs
						Initial Str Wt 73000.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 225.86 ft
						D.P. Length 5098.00 ft

RECOVERY

Tot Fluid 350.00 ft of 0.00 ft in DC and 350.00 ft in DP
 950.00 ft of Gas in pipe
 120.00 ft of Slight oil and gas cut mud
 0.00 ft of 2% gas 1% oi 97% mud
 230.00 ft of Oil and gas cut muddy water
 0.00 ft of 9% gas 1% oil 50% wtaer 40% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Fair blow bottom of bucket in
 6 1/2 mins.

Initial Shut-in:

No blow back

Final Flow:

Strong blow bottom of bucket in
 1 1/2 mins.

Final Shut-in:

Bled down for 10 mns. no blow back

MUD DATA-----

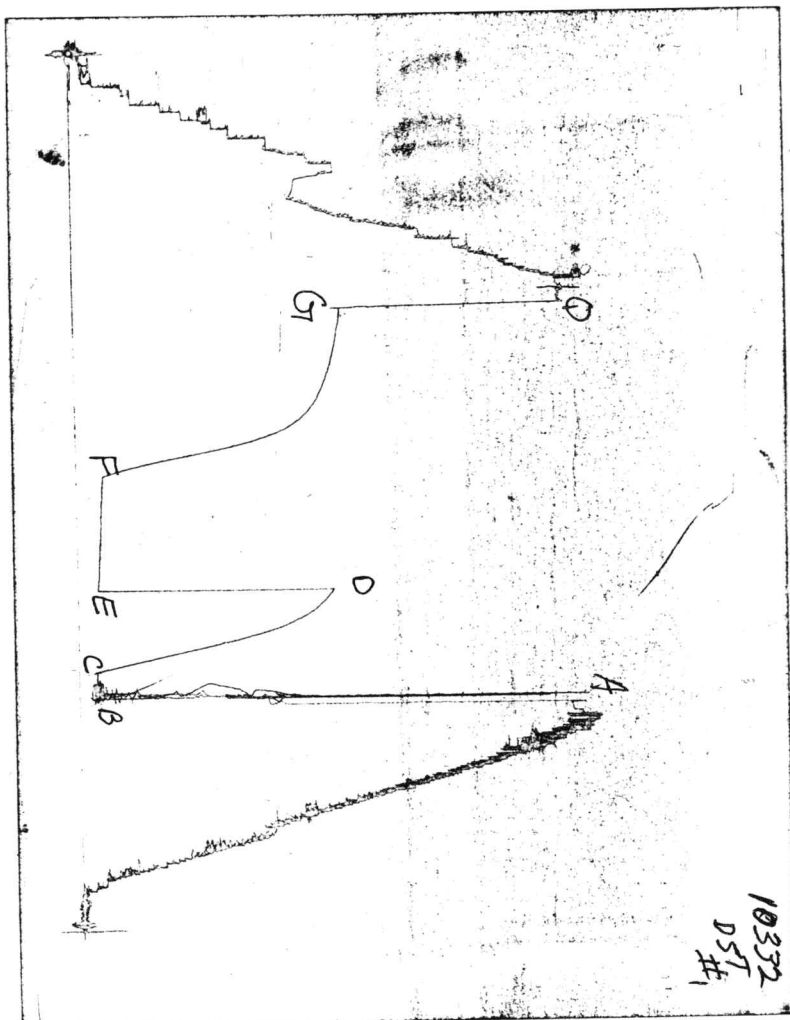
Mud Type	Chemical
Weight	9.10 lb/c
Vis.	61.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Bill Klaver
Contr.	Pickrell
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11786

Well Name & No. <u>#1 Stephens "Q"</u>	Test No. <u>#2</u>	Date <u>12/31/1998</u>
Company <u>Pickrell Drilling</u>	Zone Tested <u>Morrow</u>	
Address <u>110 N. Market Suite 205 Wichita, KS 67202</u>	Elevation <u>2128</u>	KB <u>2123</u> GL
Co. Rep / Geo. <u>Bill Klaver</u>	Cont. <u>Pickrell #1</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>21</u>	Twp. <u>31S</u>	Rge. <u>21W</u> Co. <u>Clark</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested 5335'-5386' Initial Str Wt./Lbs. 13,000 Unseated Str Wt./Lbs.
Anchor Length 51' Wt. Set Lbs. 29,000 Wt. Pulled Loose/Lbs. 120,000
Top Packer Depth 5330' Tool Weight 2100
Bottom Packer Depth 5335' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
Total Depth 5386 Wt. Pipe Run Drill Collar Run 255.86
Mud Wt. 9.1 LCM Tre Vis. 61 WL 12.0 Drill Pipe Size 4 1/2 XH Ft. Run 5098
Blow Description TF: Fair blow b.o.b in 6 1/2 min.
FSI: good b.p.
FF: Strong blow b.o.b in 1 1/2 min
FSI Bled down for 10 min. Night b.p.

Recovery — Total Feet 350 GIP 950' Ft. in DC Ft. in DP
Rec. 120 Feet Of 50° GCM 2 %gas 1 %oil %water 97 %mud
Rec. 230 Feet Of 0° GCMW 9 %gas 1 %oil 50 %water 40 %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
BHT 128° °F Gravity °API D@ °F Corrected Gravity °API
RW 2 @ 40" °F Chlorides 55,000 ppm Recovery Chlorides 14,000 ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2649</u>		PSI Recorder No. <u>10991 *</u>	T-On Location <u>2000</u>
(B) First Initial Flow Pressure	<u>43</u>		PSI (depth) <u>5344'</u>	T-Started <u>2200</u>
(C) First Final Flow Pressure	<u>85</u>		PSI Recorder No. <u>10332</u>	T-Open <u>0155</u>
(D) Initial Shut-In Pressure	<u>1268</u>		PSI (depth) <u>5383'</u>	T-Pulled <u>0710</u>
(E) Second Initial Flow Pressure	<u>106</u>		PSI Recorder No. <u> </u>	T-Out <u>1000</u>
(F) Second Final Flow Pressure	<u>106</u>		PSI (depth) <u> </u>	T-Off Location <u>1130</u>
(G) Final Shut-in Pressure	<u>1300</u>		PSI Initial Opening <u>30</u>	Test <u>✓ 800</u>
(Q) Final Hydrostatic Mud	<u>2649</u>		PSI Initial Shut-in <u>60</u>	Jars <u>✓ 200</u>
			Final Flow <u>90</u>	Safety Joint <u>✓ 50</u>
			Final Shut-in <u>120</u>	Straddle <u> </u>

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Approved By

Our Representative

Extra Packer
Elec. Rec.
Mileage
Other
TOTAL PRICE \$ 1050

Well Name #1 Stephens Q
DST Number 1
Recorder Number 10338

A: 2.714 2745

B: .069 69

C: .093 94

D: 1.335 1350

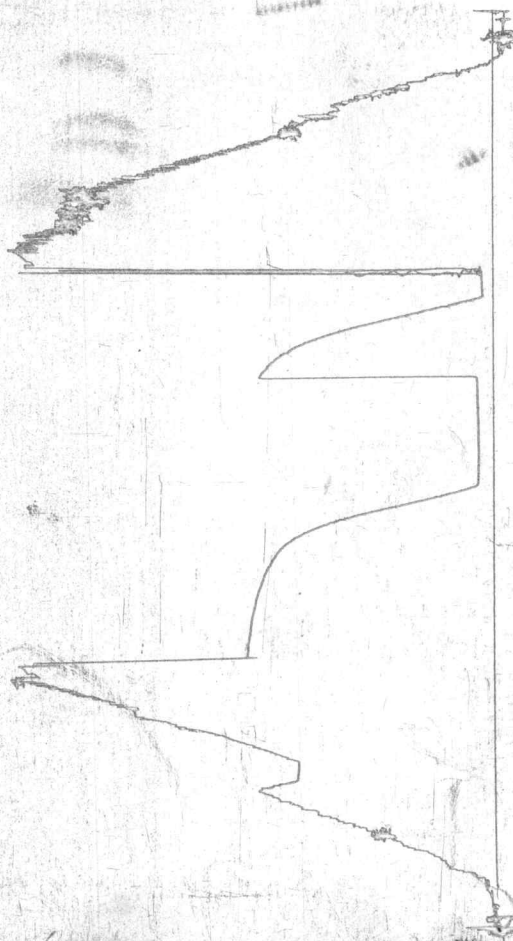
E: .104 105

F: .135 136

G: 1.385 1402

Q: 2.1055 21085

10991
TSD
DS#1



10332
PST
#2

