

**WELL NAME:** Hayes 1-4  
**COMPANY:** Eagle Creek Corporation  
**LOCATION:** 4-18S-7W  
Rice County, Kansas  
**DATE:** 12/8/97

TRILOBITE TESTING L.L.C.

OPERATOR : Eagle Creek Corporation DATE 12-2-97  
 WELL NAME: Hayes 1-4 KB 1711.00 ft TICKET NO: 10876 DST #1  
 LOCATION : 4-18S-7W Rice Co KS GR 1706.00 ft FORMATION: Conglomerate Sand  
 INTERVAL : 3144.00 To 3183.00 ft TD 3183.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10270	10270	13548			PF Fr. 1930 to 2000 hr
SI 60	Range(Psi )	4150.0	4150.0	0.0	0.0	0.0	IS Fr. 2000 to 2100 hr
SF 20	Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 2100 to 2120 hr
FS 0	Depth(ft )	3147.0	3147.0	3150.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 1530 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 1925 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 1930 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 2120 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 2300 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 44000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 240.00 ft
						D.P. Length 2877.00 ft

RECOVERY

Tot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP  
 130.00 ft of Mud  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 Weak building to a fair blow  
 1 to 4" blow

Final Flow:  
 no blow

Misrun - slid tool approx. 8' to bottom after tool was set

SAMPLES:  
 SENT TO:

MUD DATA-----

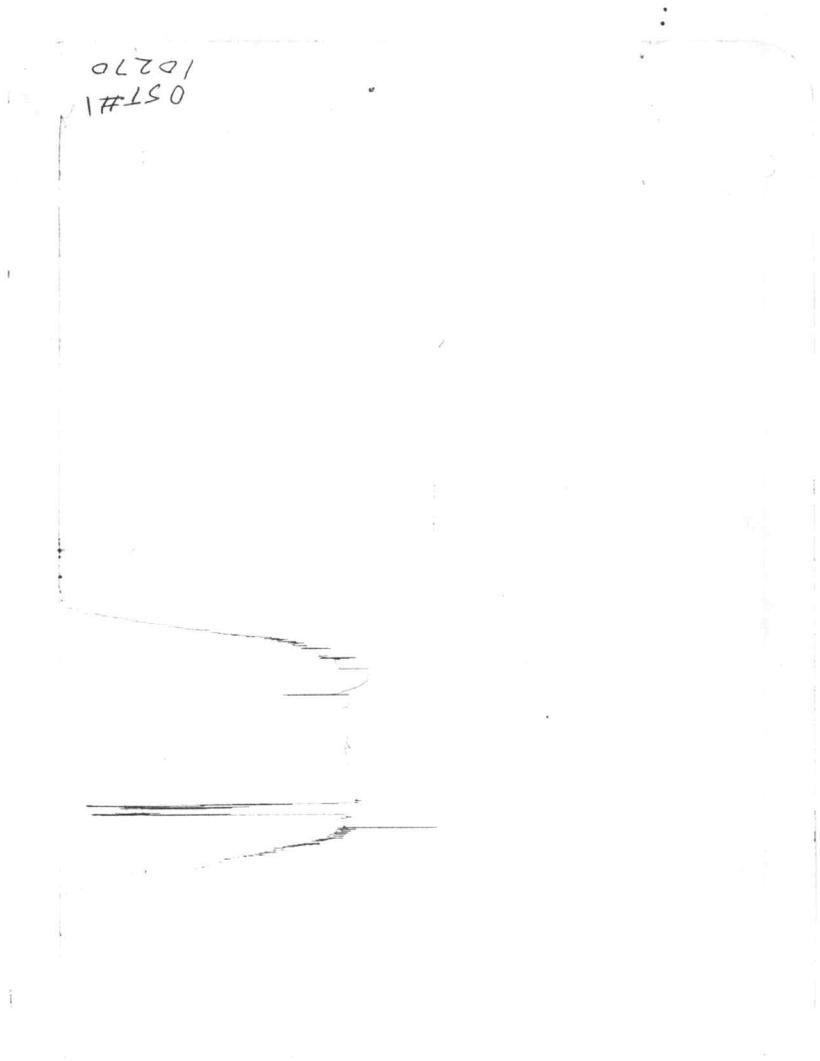
Mud Type	Chemical
Weight	9.00 lb/c
Vis.	46.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	103.00 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 Ray Schwager  
 Co. Rep. Dave Callewaert  
 Contr. Mallard  
 Rig #  
 Unit #  
 Pump T.

Test Successful: N

CHART PAGE



OST#1  
10270

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

TRILOBITE TESTING L.L.C.

OPERATOR : Eagle Creek Corporation DATE 12-3-97  
 WELL NAME: Hayes 1-4 KB 1711.00 ft TICKET NO: 10877 DST #2  
 LOCATION : 4-18S-7W Rice Co KS GR 1706.00 ft FORMATION: Conglomerate Sand  
 INTERVAL : 3144.00 To 3183.00 ft TD 3183.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10270	10270	13548			PF Fr. 0645 to 0715 hr
SI 45	Range(Psi )	4150.0	4150.0	0.0	0.0	0.0	IS Fr. 0715 to 0800 hr
SF 30	Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 0800 to 0830 hr
FS 45	Depth(ft )	3147.0	3147.0	3150.0	0.0	0.0	FS Fr. 0830 to 0915 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 0500 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 0640 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 0645 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0915 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1100 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid	1.00 ft of	1.00 ft in DC and	0.00 ft in DP	TOOL DATA-----
1.00	ft of Mud			Tool Wt. 2900.00 lbs
0.00	ft of			Wt Set On Packer 20000.00 lbs
0.00	ft of			Wt Pulled Loose 44000.00 lbs
0.00	ft of			Initial Str Wt 44000.00 lbs
0.00	ft of			Unseated Str Wt 50000.00 lbs
0.00	ft of			Bot Choke 0.75 in
0.00	ft of			Hole Size 7.78 in
0.00	ft of			D Col. ID 2.25 in
0.00	ft of			D. Pipe ID 3.80 in
0.00	ft of			D.C. Length 240.00 ft
0.00	ft of			D.P. Length 2877.00 ft
SALINITY	0.00 P.P.M.	A.P.I. Gravity	0.00	

BLOW DESCRIPTION

Initial Flow:  
 Weak blow throughtout 1/4" to 1/2"  
 blow

Final Flow:  
 no blow

misrun - plugged tool

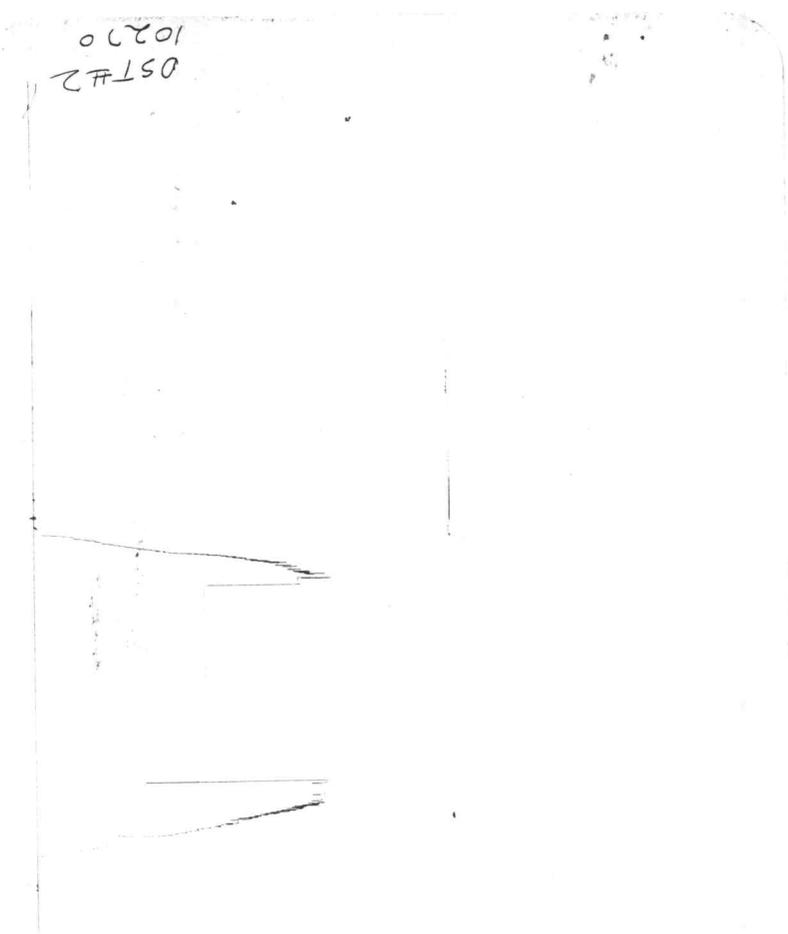
SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	59.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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	Ray Schwager
Co. Rep.	Dave Callewaert
Contr.	Mallard
Rig #	
Unit #	
Pump T.	

Test Successful: N

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Eagle Creek Corporation DATE 12-4-97  
 WELL NAME: Hayes 1-4 KB 1711.00 ft TICKET NO: 10878 DST #3  
 LOCATION : 4-18S-7W Rice Co KS GR 1706.00 ft FORMATION: Conglomerate Sand  
 INTERVAL : 3144.00 To 3186.00 ft TD 3285.00 ft TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 20 Rec.	10270	10270	13548	13401		PF Fr. 0415 to 0435 hr
SI 45 Range(Psi )	4150.0	4150.0	0.0	0.0	0.0	IS Fr. 0435 to 0520 hr
SF 20 Clock(hrs)	12 hr	12 hr	12 hr	12 hr		SF Fr. 0520 to 0540 hr
FS 0 Depth(ft )	3147.0	3147.0	3150.0	3282.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1547.0	1604.0	0.0	0.0	0.0	T STARTED 0230 hr
B. First Flow	145.0	156.0	0.0	0.0	0.0	T ON BOTM 0410 hr
B1. Final Flow	156.0	163.0	0.0	0.0	0.0	T OPEN 0415 hr
C. In Shut-in	873.0	875.0	0.0	0.0	0.0	T PULLED 0540 hr
D. Init Flow	177.0	172.0	0.0	0.0	0.0	T OUT 0830 hr
E. Final Flow	187.0	181.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	1527.0	151.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I	S		Tool Wt. 3100.00 lbs
						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 52000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 47000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 240.00 ft
						D.P. Length 2904.00 ft

RECOVERY

Tot Fluid 561.00 ft of 248.00 ft in DC and 313.00 ft in DP  
 65.00 ft of Slight oil & gas cut mud 10%gas 4%oil 86%mud  
 62.00 ft of Heavy oil & gas cut mud 18%gas 22%oil 60%mud  
 62.00 ft of Muddy gassy oil 30%gas 50%oil 20%mud  
 372.00 ft of Clean Oil  
 0.00 ft of  
 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:  
 Strong blow - gas to surface  
 in 8 minutes

Final Flow:  
 Strong blow - gas to surface

SAMPLES:  
 SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.00 lb/c  
 Vis. 69.00 S/L  
 W.L. 8.40 in3  
 F.C. 0.00 in  
 Mud Drop  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 103.00 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 Ray Schwager  
 Co. Rep. Dave CALLEWAERT  
 Contr. Mallard  
 Rig #  
 Unit #  
 Pump T.

Test Successful: Y

