

WELL NAME: Rolfs #2-4
COMPANY: Eagle Creek Corporation
LOCATION: 4-18S-7W
Rice County, Kansas
DATE: 4/30/98

TRILOBITE TESTING L.L.C.

OPERATOR : Eagle Creek Corporation
 WELL NAME: Rolfs #2-4
 LOCATION : 4-18S-7W Rice KS
 INTERVAL : 3142.00 To 3176.00 ft

DATE 4-28-98

KB 1724.00 ft TICKET NO: 10289 DST #1
 GR 1719.00 ft FORMATION:
 TD 3176.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10270	10270	13548			PF Fr. 1925 to 1955 hr
SI 60 Range(Psi)	4150.0	4150.0	4075.0	0.0	0.0	IS Fr. 1955 to 2055 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 2055 to 2155 hr
FS 90 Depth(ft)	3168.0	3168.0	3171.0	0.0	0.0	FS Fr. 2155 to 2325 hr

	Field	1	2	3	4	
A. Init Hydro	1578.0	1572.0	0.0	0.0	0.0	T STARTED 1745 hr
B. First Flow	72.0	83.0	0.0	0.0	0.0	T ON BOTM 1920 hr
B1. Final Flow	72.0	83.0	0.0	0.0	0.0	T OPEN 1925 hr
C. In Shut-in	375.0	371.0	0.0	0.0	0.0	T PULLED 2325 hr
D. Init Flow	83.0	110.0	0.0	0.0	0.0	T OUT 0045 hr
E. Final Flow	83.0	103.0	0.0	0.0	0.0	
F. Fl Shut-in	655.0	657.0	0.0	0.0	0.0	
G. Final Hydro	1537.0	1552.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2900.00 lbs

RECOVERY

Tot Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP
 210.00 ft of Gas in pipe
 30.00 ft of Gassy oil cut mud 2% gas 5% oil 93% mud
 0.00 ft of
 0.00 ft of

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

Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 48000.00 lbs
 Initial Str Wt 43000.00 lbs
 Unseated Str Wt 43000.00 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 180.00 ft
 D.P. Length 2936.00 ft

BLOW DESCRIPTION

Initial Flow:
 Weak blow throughout 1/2" to 1" blow
 Final Flow:
 Weak blow throughout 1" to 1 1/2"
 blow

MUD DATA-----
 Mud Type Chemical
 Weight 9.00 lb/c
 Vis. 46.00 S/L
 W.L. 8.00 in³
 F.C. 0.00 in
 Mud Drop

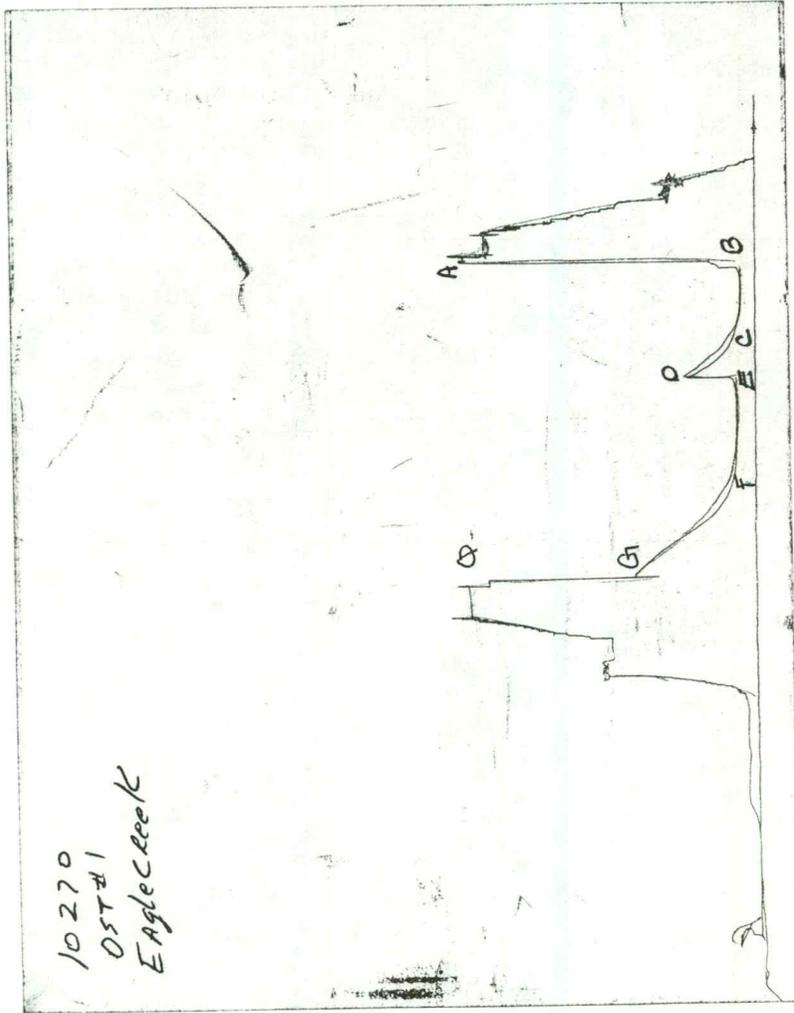
Amt. of fill 0.00 ft
 Btm. H. Temp. 102.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00

SAMPLES:
 SENT TO:

Cushion Type
 Reversed Out
 Tool Chased
 Tester Ray Schwager
 Co. Rep. Dave Callewaert
 Contr. Mallard Drilling
 Rig #
 Unit #
 Pump T.

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

N^o 10289

Well Name & No. <u>Rolfs #2-4</u>		Test No. <u>1</u>	Date <u>4-28-98</u>
Company <u>Eagle Creek Corporation</u>		Zone Tested _____	
Address <u>107 N. MARKET, SUITE 509 WICHITA KS 67202</u>		Elevation <u>1724</u> KB <u>1719</u> GL	
Co. Rep / Geo. <u>DAVE CALLOWAY</u>	Cont. <u>MALLARD DRG</u>	Est. Ft. of Pay _____	Por. _____%
Location: Sec. <u>4</u>	Twp. <u>18^s</u>	Rge. <u>7^w</u>	Co. <u>Rice</u> State <u>Ks</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u>N</u>

Interval Tested <u>3142-3176</u>	Initial Str Wt./Lbs. <u>43000</u>	Unseated Str Wt./Lbs. <u>43000</u>
Anchor Length <u>34</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>48000</u>
Top Packer Depth <u>3137</u>	Tool Weight <u>2900</u>	
Bottom Packer Depth <u>3142</u>	Hole Size — <u>7 7/8"</u> <u>yes</u>	Rubber Size — <u>6 3/4"</u> <u>yes</u>
Total Depth <u>3176</u>	Wt. Pipe Run _____	Drill Collar Run <u>180</u>
Mud Wt. <u>9</u> LCM <u>-</u> Vis. <u>46</u> WL <u>8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>2936</u>

Blow Description _____
IFP - WEAK BLOW THROUGHOUT 1/2" TO 1" BLOW
FFP - WEAK BLOW THROUGHOUT 1" TO 1 1/2" BLOW

Recovery — Total Feet <u>30</u>	GIP <u>210</u>	Ft. in DC <u>30</u>	Ft. in DP <u>-</u>
Rec. <u>30</u> Feet Of <u>oil cut Mud</u>	<u>2</u> %gas	<u>5</u> %oil	%water <u>93</u> %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 102 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud <u>1578</u> PSI	Recorder No. <u>10270</u>	T-Started <u>5:45 pm = 17</u>
(B) First Initial Flow Pressure <u>72</u> PSI	(depth) <u>3168</u>	T-Open <u>7:25 = 19</u>
(C) First Final Flow Pressure <u>72</u> PSI	Recorder No. <u>13548</u>	T-Pulled <u>11:25 = 23</u>
(D) Initial Shut-in Pressure <u>375</u> PSI	(depth) <u>3171</u>	T-Out <u>12:45 AM</u>
(E) Second Initial Flow Pressure <u>83</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>83</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>655</u> PSI	Initial Opening <u>30</u>	Test ✓ <u>600</u>
(H) Final Hydrostatic Mud <u>1537</u> PSI	Initial Shut-in <u>60</u>	Jars ✓ <u>200</u>
	Final Flow <u>60</u>	Safety Joint _____
	Final Shut-in <u>90</u>	Straddle _____

TRILOBIITE 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 [Signature]

on loc 3:40 pm
 off loc _____

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elect. Rec. _____
 Other _____

TRILOBITE TESTING L.L.C.

OPERATOR : Eagle Creek Corporation DATE 4-29-98
 WELL NAME: Rolfs #2-4 KB 1724.00 ft TICKET NO: 10290 DST #2
 LOCATION : 4-18S-7W Rice KS GR 1719.00 ft FORMATION:
 INTERVAL : 3143.00 To 3181.00 ft TD 3181.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10270	10270	13401			PF Fr. 0815 to 0845 hr
SI 60 Range(Psi)	4150.0	4150.0	3950.0	0.0	0.0	IS Fr. 0845 to 0945 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 0945 to 1045 hr
FS 90 Depth(ft)	3173.0	3173.0	3176.0	0.0	0.0	FS Fr. 1045 to 1215 hr

	Field	1	2	3	4	
A. Init Hydro	1558.0	1584.0	0.0	0.0	0.0	T STARTED 0705 hr
B. First Flow	135.0	138.0	0.0	0.0	0.0	T ON BOTM 0810 hr
B1. Final Flow	166.0	169.0	0.0	0.0	0.0	T OPEN 0815 hr
C. In Shut-in	863.0	854.0	0.0	0.0	0.0	T PULLED 1215 hr
D. Init Flow	281.0	287.0	0.0	0.0	0.0	T OUT 1430 hr
E. Final Flow	364.0	381.0	0.0	0.0	0.0	
F. Fl Shut-in	863.0	864.0	0.0	0.0	0.0	
G. Final Hydro	1558.0	1584.0	0.0	0.0	0.0	

	Field	1	2	3	4	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2900.00 lbs
						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 48000.00 lbs
						Initial Str Wt 43000.00 lbs
						Unseated Str Wt 46000.00 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 180.00 ft
						D.P. Length 2937.00 ft

RECOVERY

Tot Fluid 933.00 ft of 180.00 ft in DC and 753.00 ft in DP
 434.00 ft of Clean gassy oil
 529.00 ft of Gassy muddy oil 30% gas 60% oil 10% mud
 10.00 ft of Oil cut watery mud
 0.00 ft of 3% gas 5% oil 20% water 72% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 6800.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	50.00 S/L
W.L.	8.20 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

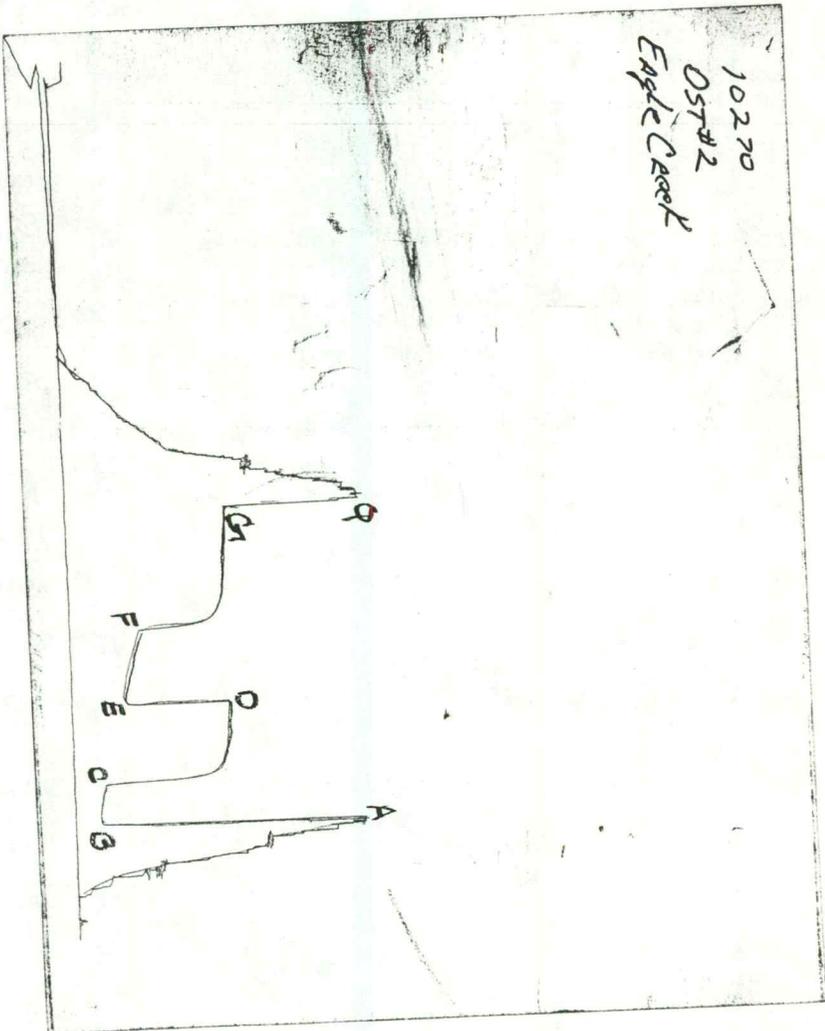
Initial Flow:
 Strong blow gas to surface in 20 mins
 Final Flow:
 Gas to surface weak to gauge

Amt. of fill	0.00 ft
Btm. H. Temp.	104.00 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 Drilling
Rig #	
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 10290

Well Name & No. <u>Rolfs #2-4</u>	Test No. <u>2</u>	Date <u>4-29-98</u>
Company <u>Eagle Creek Corporation</u>	Zone Tested _____	
Address <u>107 N. MARKET, SUITE 509 WICHITA, KS 67202</u>	Elevation <u>1724</u>	KB <u>1719</u> GL
Co. Rep / Geo. <u>Dave Callewaret</u>	Cont. <u>MALLARD DRILG</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>4</u>	Twp. <u>18^s</u>	Rge. <u>7^w</u> Co. <u>Rice</u> State <u>Ks</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u>N</u>

Interval Tested <u>3143-3181</u>	Initial Str Wt./Lbs. <u>43000</u>	Unseated Str Wt./Lbs. <u>48000</u>
Anchor Length <u>38</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>48000</u>
Top Packer Depth <u>3138</u>	Tool Weight <u>2900</u>	
Bottom Packer Depth <u>3143</u>	Hole Size — 7 7/8" <u>yes</u>	Rubber Size — 6 3/4" <u>yes</u>
Total Depth <u>3181</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>180</u>
Mud Wt. <u>9.1</u> LCM <u>-</u> Vis. <u>50</u> WL <u>8.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>2937</u>

Blow Description _____
IFP - STRONG BLOW GAS TO SURFACE IN 20 MIN TWTG.
FFP - GAS TO SURFACE TO WEAK TO GAUGE

Recovery — Total Feet <u>933</u>	GIP _____	Ft. in DC <u>180</u>	Ft. in DP <u>753</u>
Rec. <u>434</u> Feet Of <u>CLEAN GASSY OIL</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>529</u> Feet Of <u>GASSY MUDDY OIL</u>	<u>30</u> %gas <u>60</u> %oil	%water <u>10</u> %mud _____	
Rec. <u>10</u> Feet Of <u>OIL CUT WATER & MUD</u>	<u>3</u> %gas <u>5</u> %oil	<u>20</u> %water <u>72</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 104° °F Gravity 38 °API D@ 60 °F Corrected Gravity 38 °API
 RW .39 @ 70 °F Chlorides 6800 ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud <u>1558</u> PSI	Recorder No. <u>10270</u>	T-Started <u>0705</u>
(B) First Initial Flow Pressure <u>135</u> PSI	(depth) <u>3173</u>	T-Open <u>0815</u>
(C) First Final Flow Pressure <u>166</u> PSI	Recorder No. <u>13401</u>	T-Pulled <u>1315</u>
(D) Initial Shut-in Pressure <u>863</u> PSI	(depth) <u>3176</u>	T-Out <u>1430</u>
(E) Second Initial Flow Pressure <u>281</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>364</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>863</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>600</u>
(H) Final Hydrostatic Mud <u>1558</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
	Final Flow <u>60</u>	Safety Joint _____
	Final Shut-in <u>90</u>	Straddle _____

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[Signature]

Approved By _____

off loc 8:10pm

Sampler _____
 Extra Packer _____
 Elect. Rec. _____
 Other _____