

Well Name: NICKELSON #1
Company : RHEEM RESOURCES INC
Location - Sec: 9 **Twp:** 11S **Rge:** 32W
County: LOGAN **State:** KS
Date: 20-Oct-95

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources Inc

DATE 10/15/95

WELL NAME: Nickelson #1

KB 3071.00 ft

TICKET NO: 8089

DST #1

LOCATION : 9-11S-32W, Logan Cty KS

GR 0.00 ft

FORMATION: Toronto

INTERVAL : 4032.00 To 4062.00 ft

TD 4062.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	13276			PF Fr. 2250 to 2320 hr
SI 45 Range(Psi)	4000.0	4000.0	4000.0	0.0	0.0	IS Fr. 2320 to 0005 hr
SF 30 Clock(hrs)	23832	23832	25753			SF Fr. 0005 to 0035 hr
FS 45 Depth(ft)	4057.0	4057.0	4052.0	0.0	0.0	FS Fr. 0035 to 0120 hr

	Field	1	2	3	4	
A. Init Hydro	1922.0	1939.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	155.0	158.0	0.0	0.0	0.0	T ON BOTM hr
Bl. Final Flow	569.0	595.0	0.0	0.0	0.0	T OPEN 2250 hr
C. In Shut-in	1150.0	1169.0	0.0	0.0	0.0	T PULLED 0120 hr
D. Init Flow	649.0	663.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	959.0	974.0	0.0	0.0	0.0	
F. Fl Shut-in	1150.0	1173.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1902.0	1899.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 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 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 2230.00 ft of 0.00 ft in DC and 2230.00 ft in DP
 240.00 ft of Muddy water - 70% water, 30% mud
 1990.00 ft of Water - 100% water

MUD DATA-----

Mud Type
 Weight 0.00 lb/
 Vis. 0.00 S/I
 W.L. 0.00 in3
 F.C. 0.00 in
 Mud Drop

BLOW DESCRIPTION

Initial Blow -
 Strong blow off bottom of bucket in
 2 min

Initial Shutin -
 Bled off blow, no return

Final Blow -
 Strong return off bottom in 2 min

Final Shutin -
 Bled off blow, no return

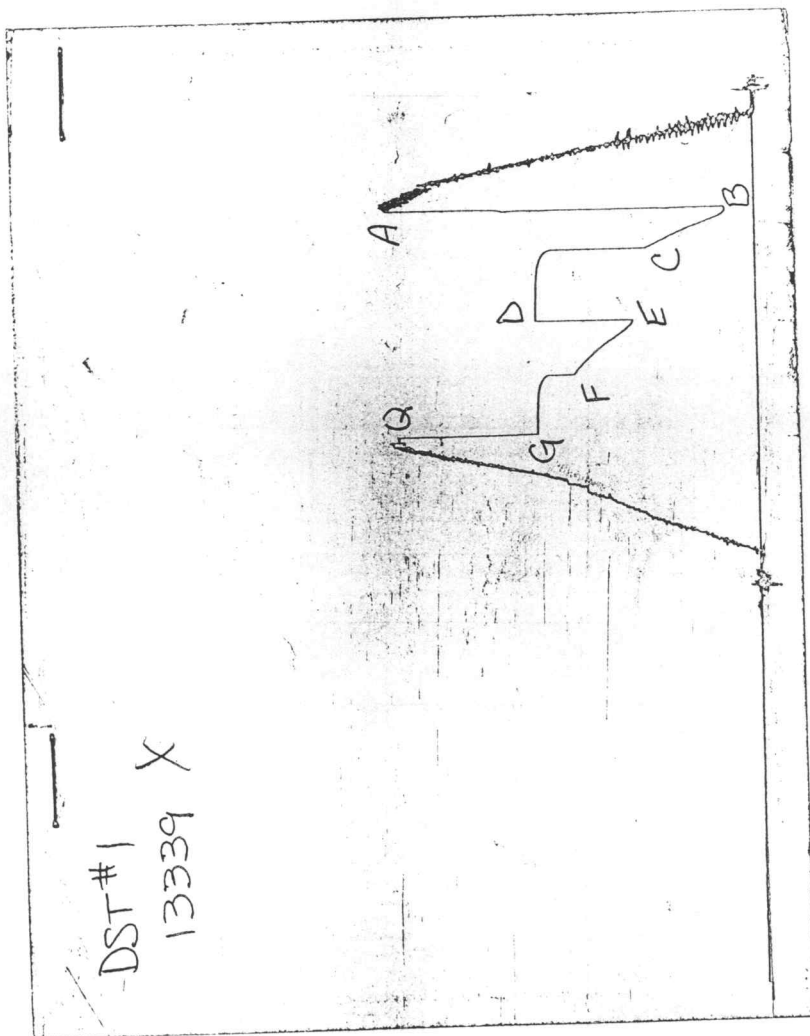
SAMPLES:

SENT TO:

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 Rod Steinbrink
 Co. Rep. Dan Reynolds
 Contr. LD Davis
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources Inc
WELL NAME: Nickelson #1
LOCATION : 9-11S-32W, Logan Cty KS
INTERVAL : 4087.00 To 4112.00 ft

DATE 10/16/95
KB 3071.00 ft TICKET NO: 8090 DST #2
GR 0.00 ft FORMATION: Lansing "C"
TD 4112.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13339	13339	13276			PF Fr. 1215 to 1300 hr
SI 45 Range(Psi)	4025.0	4025.0	4000.0	0.0	0.0	IS Fr. 1300 to 1345 hr
SF 60 Clock(hrs)	23832	23832	25753			SF Fr. 1345 to 1445 hr
FS 60 Depth(ft)	4107.0	4107.0	4102.0	0.0	0.0	FS Fr. 1445 to 1545 hr

	Field	1	2	3	4	
A. Init Hydro	1942.0	1961.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	31.0	35.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	52.0	75.0	0.0	0.0	0.0	T OPEN 1215 hr
C. In Shut-in	1120.0	1141.0	0.0	0.0	0.0	T PULLED 1545 hr
D. Init Flow	93.0	123.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	145.0	171.0	0.0	0.0	0.0	
F. Fl Shut-in	1100.0	1125.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1922.0	1943.0	0.0	0.0	0.0	Tool Wt. 0.00 lb
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lb
						Wt Pulled Loose 0.00 lb
						Initial Str Wt 0.00 lb
						Unseated Str Wt 0.00 lb
						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 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 340.00 ft of 0.00 ft in DC and 340.00 ft in DP
40.00 ft of Muddy water - 70% water, 30% mud
300.00 ft of Water - 100% water

RW .23 @ 70 F
SALINITY 30000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
Weak surface blow slowly built to 1"

Final Blow -
Surface blow built to .5" stayed
steady throughout

SAMPLES:
SENT TO:

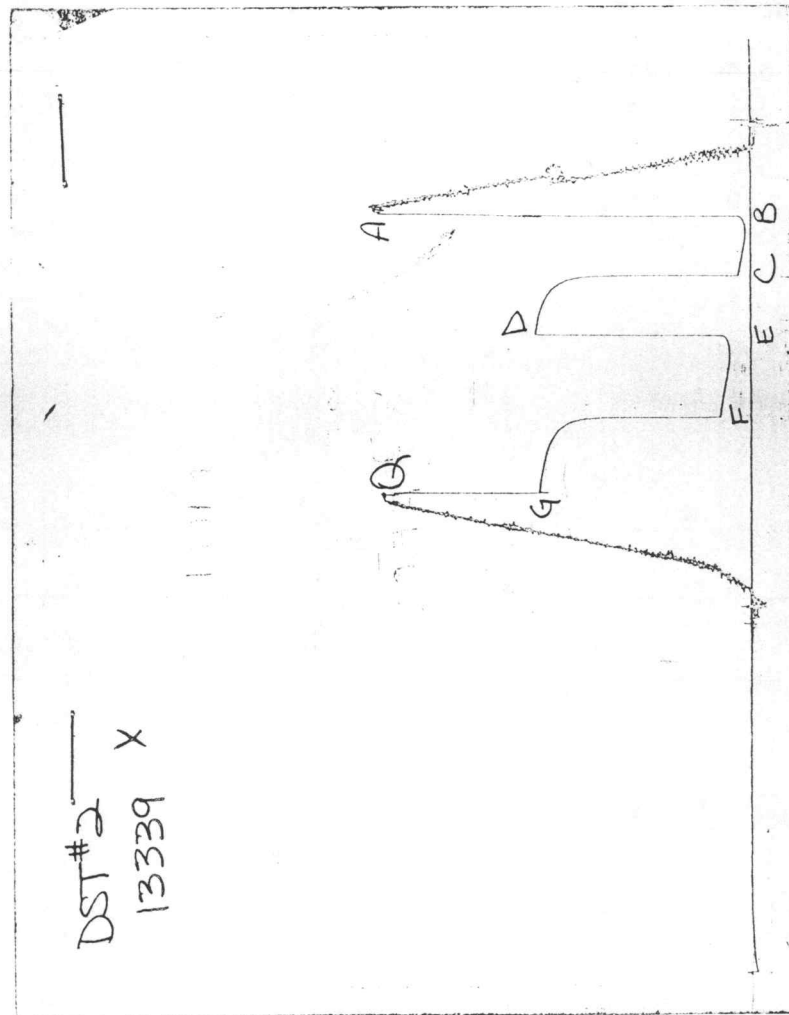
Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb
Vis.	46.00 S/
W.L.	7.00 ir
F.C.	0.00 ir
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 ir
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Dan Reynolds
Contr.	LD Davis
Rig #	1
Unit #	
Pump T.	

CHART PAGE

DST#2
13339 X



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources Inc

DATE 10/17/95

WELL NAME: Nickelson #1

KB 3071.00 ft

TICKET NO: 8091

DST #3

LOCATION : 9-11S-32W, Logan Cty KS

GR 0.00 ft

FORMATION: Lansing "E"

INTERVAL : 4142.00 To 4155.00 ft

TD 4155.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	13276			PF Fr. 0207 to 0237 hr
SI 30 Range(Psi)	4025.0	4025.0	4000.0	0.0	0.0	IS Fr. 0237 to 0307 hr
SF 30 Clock(hrs)	23832	23832	25753			SF Fr. 0307 to 0337 hr
FS 30 Depth(ft)	4150.0	4150.0	4145.0	0.0	0.0	FS Fr. 0337 to 0407 hr

	Field	1	2	3	4	
A. Init Hydro	2003.0	2023.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	10.0	25.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	10.0	25.0	0.0	0.0	0.0	T OPEN 0207 hr
C. In Shut-in	1030.0	1024.0	0.0	0.0	0.0	T PULLED 0407 hr
D. Init Flow	20.0	42.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	20.0	42.0	0.0	0.0	0.0	
F. Fl Shut-in	919.0	940.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1982.0	1997.0	0.0	0.0	0.0	Tool Wt. 0.00 lb
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lb
						Wt Pulled Loose 0.00 lb
						Initial Str Wt 0.00 lb
						Unseated Str Wt 0.00 lb
						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 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
5.00 ft of Drilling mud

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

BLOW DESCRIPTION

Initial Blow -
Very weak surface blow died in 2 min

Final Blow -
No return blow

SAMPLES:
SENT TO:

MUD DATA-----

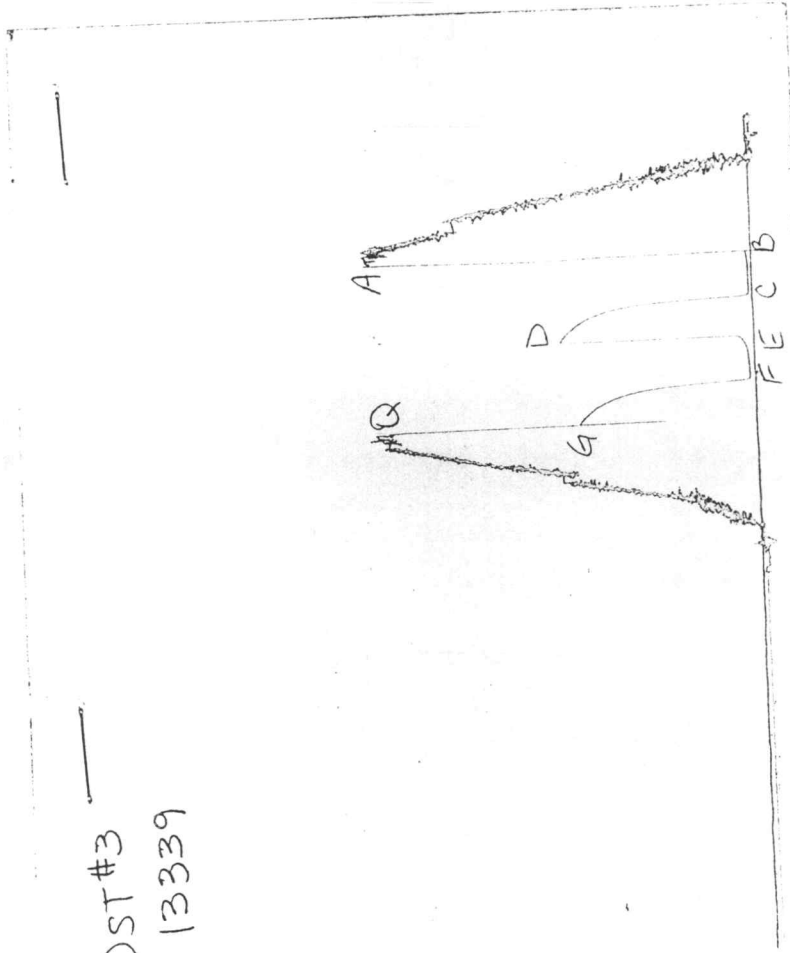
Mud Type	Chemical
Weight	9.00 lb
Vis.	46.00 S/
W.L.	7.00 in
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 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	Rod Steinbrink
Co. Rep.	Dan Reynolds
Contr.	LD Davis
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE

DST #3
13339



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources Inc

DATE 10/17/95

WELL NAME: Nickelson #1

KB 3071.00 ft

TICKET NO: 8092

DST #4

LOCATION : 9-11S-32W, Logan Cty KS

GR 0.00 ft

FORMATION: Lansing "J"

INTERVAL : 4255.00 To 4280.00 ft

TD 4280.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13339	13339	13276			PF Fr. 2015 to 2100 hr
SI 45 Range(Psi)	4025.0	4025.0	4000.0	0.0	0.0	IS Fr. 2100 to 2145 hr
SF 60 Clock(hrs)	23832	23832	25753			SF Fr. 2145 to 2245 hr
FS 60 Depth(ft)	4275.0	4275.0	4270.0	0.0	0.0	FS Fr. 2245 to 2345 hr

	Field	1	2	3	4	
A. Init Hydro	2083.0	2075.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	52.0	50.0	0.0	0.0	0.0	T ON BOTM hr
Bl. Final Flow	62.0	57.0	0.0	0.0	0.0	T OPEN 2015 hr
C. In Shut-in	1020.0	1010.0	0.0	0.0	0.0	T PULLED 2345 hr
D. Init Flow	93.0	84.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	93.0	84.0	0.0	0.0	0.0	
F. Fl Shut-in	989.0	994.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2063.0	2061.0	0.0	0.0	0.0	Tool Wt. 0.00 lb
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lb
						Wt Pulled Loose 0.00 lb
						Initial Str Wt 0.00 lb
						Unseated Str Wt 0.00 lb
						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 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 125.00 ft of 0.00 ft in DC and 125.00 ft in DP
 2.00 ft of Free oil - 100% oil
 126.00 ft of Muddy water - 65% water, 35% mud

TOOL DATA-----
 Tool Wt. 0.00 lb
 Wt Set On Packer 0.00 lb
 Wt Pulled Loose 0.00 lb
 Initial Str Wt 0.00 lb
 Unseated Str Wt 0.00 lb
 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 0.00 ft
 D.P. Length 0.00 ft

RW .25 @ 53 F

SALINITY 38000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Surface blow built to 2"

Final Blow -
 Surface return built to 1"

MUD DATA-----
 Mud Type
 Weight 0.00 lb
 Vis. 0.00 S/
 W.L. 0.00 in
 F.C. 0.00 in
 Mud Drop

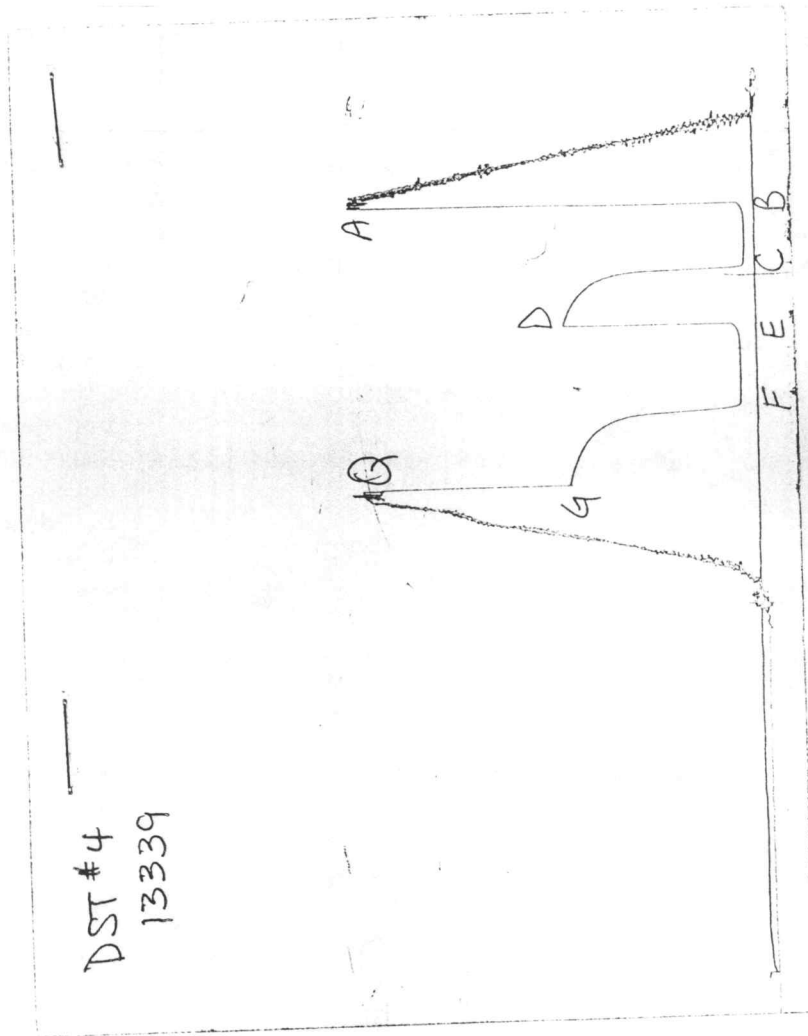
Amt. of fill 0.00 ft
 Btm. H. Temp. 119.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Rod Steinbrink
 Co. Rep. Dan Reynolds
 Contr. LD Davis
 Rig # 1
 Unit #
 Pump T.

SAMPLES:

SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources Inc

DATE 10/18/95

WELL NAME: Nickelson #1

KB 3071.00 ft

TICKET NO: 8093

DST #5

LOCATION : 9-11S-32W, Logan Cty KS

GR 0.00 ft

FORMATION: Lansing "K"

INTERVAL : 4287.00 To 4320.00 ft

TD 4320.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	13276			PF Fr. 1030 to 1100 hr
SI 30 Range(Psi)	4025.0	4025.0	4000.0	0.0	0.0	IS Fr. 1100 to 1130 hr
SF 30 Clock(hrs)	23832	23832	25753			SF Fr. 1130 to 1200 hr
FS 30 Depth(ft)	4315.0	4315.0	4310.0	0.0	0.0	FS Fr. 1200 to 1230 hr

	Field	1	2	3	4	
A. Init Hydro	2123.0	2125.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	10.0	46.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	10.0	46.0	0.0	0.0	0.0	T OPEN 1030 hr
C. In Shut-in	619.0	641.0	0.0	0.0	0.0	T PULLED 1230 hr
D. Init Flow	10.0	50.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	10.0	50.0	0.0	0.0	0.0	
F. Fl Shut-in	52.0	73.0	0.0	0.0	0.0	
G. Final Hydro	2113.0	2105.0	0.0	0.0	0.0	
Inside/Outside	O	O	I			

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP
10.00 ft of Drilling mud w/ slight show of oil

TOOL DATA-----

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 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	0.00 ft
D.P. Length	0.00 ft

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

BLOW DESCRIPTION

MUD DATA-----

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

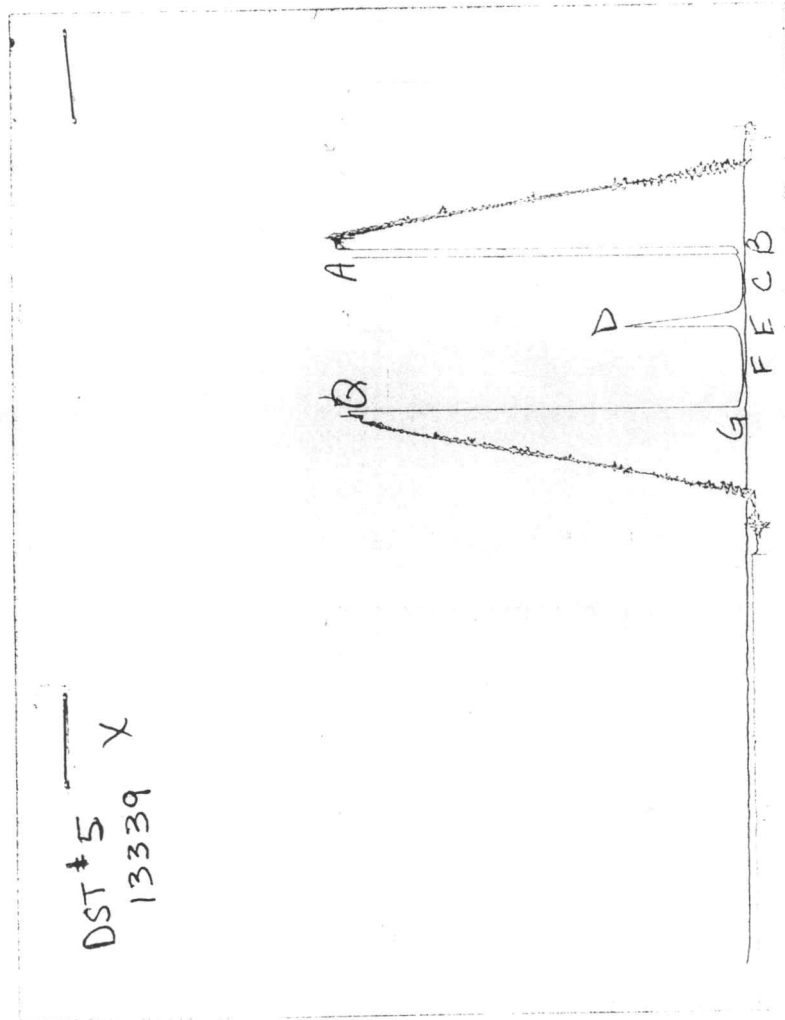
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Dan Reynolds
Contr.	LD Davis
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources Inc

DATE 10/19/95

WELL NAME: Nickelson #1

KB 3071.00 ft

TICKET NO: 8094

DST #6

LOCATION : 9-11S-32W, Logan Cty KS

GR 0.00 ft

FORMATION: Lansing/Marmaton

INTERVAL : 4319.00 To 4395.00 ft

TD 4395.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	13276			PF Fr. 0315 to 0345 hr
SI 30 Range(Psi)	4025.0	4025.0	4000.0	0.0	0.0	IS Fr. 0345 to 0415 hr
SF 30 Clock(hrs)	23832	23832	25753			SF Fr. 0415 to 0445 hr
FS 30 Depth(ft)	4349.0	4349.0	4344.0	0.0	0.0	FS Fr. 0445 to 0515 hr

	Field	1	2	3	4	
A. Init Hydro	2123.0	2129.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	10.0	35.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	10.0	35.0	0.0	0.0	0.0	T OPEN 0315 hr
C. In Shut-in	218.0	245.0	0.0	0.0	0.0	T PULLED 0515 hr
D. Init Flow	10.0	42.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	10.0	35.0	0.0	0.0	0.0	
F. Fl Shut-in	218.0	277.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2103.0	2115.0	0.0	0.0	0.0	Tool Wt. 0.00 lb
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lb
						Wt Pulled Loose 0.00 lb
						Initial Str Wt 0.00 lb
						Unseated Str Wt 0.00 lb
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
5.00 ft of Drilling Mud

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

BLOW DESCRIPTION

Initial Blow -
Weak surface blow died in 5 min

Final Blow -
No return blow

SAMPLES:

SENT TO:

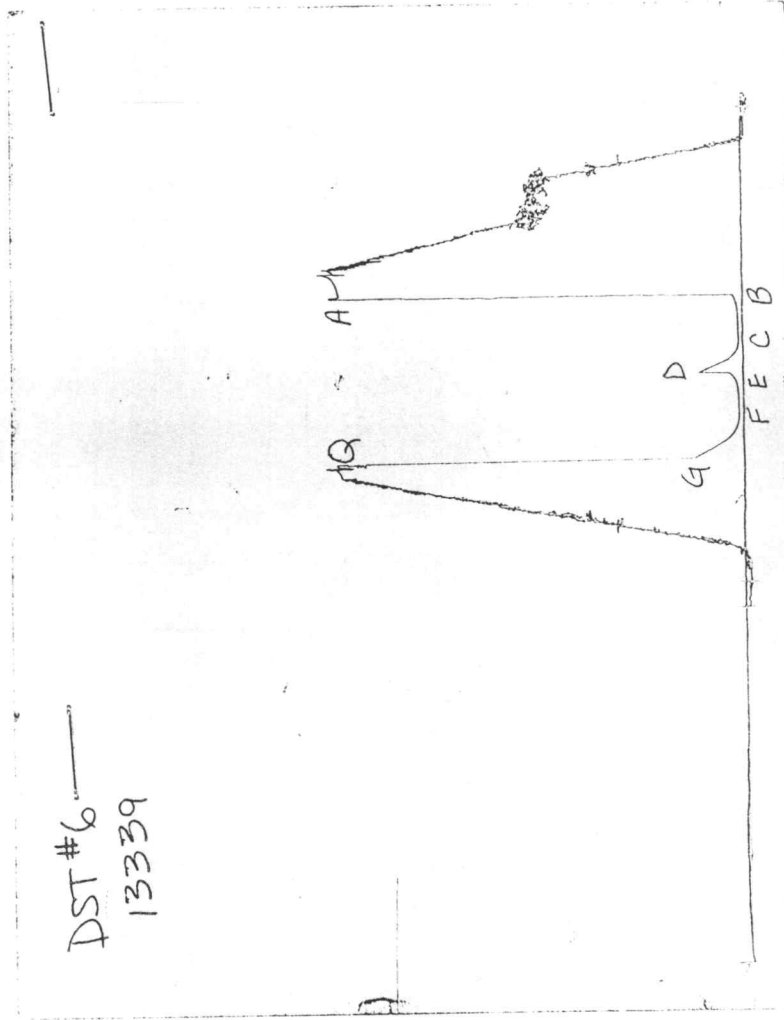
MUD DATA-----

Mud Type	
Weight	0.00 lb
Vis.	0.00 S/
W.L.	0.00 in
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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	Rod Steinbrink
Co. Rep.	Dan Reynolds
Contr.	LD Davis
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE

DST #6
13339



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources Inc

DATE 10/20/95

WELL NAME: Nickelson #1

KB 3071.00 ft

TICKET NO: 8095

DST #7

LOCATION : 9-11S-32W, Logan Cty KS

GR 0.00 ft

FORMATION: Johnson

INTERVAL : 4556.00 To 4650.00 ft

TD 4715.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	13276	13309		PF Fr. 2210 to 2240 hr
SI 30 Range(Psi)	4025.0	4025.0	4000.0	4700.0	0.0	IS Fr. 2240 to 2310 hr
SF 10 Clock(hrs)	23832	23832	25753	21060		SF Fr. 2310 to 2320 hr
FS 30 Depth(ft)	4560.0	4560.0	4642.0	4652.0	0.0	FS Fr. 2320 to 2350 hr

	Field	1	2	3	4	
A. Init Hydro	2403.0	2433.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	104.0	137.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	104.0	137.0	0.0	0.0	0.0	T OPEN 2210 hr
C. In Shut-in	869.0	870.0	0.0	0.0	0.0	T PULLED 2350 hr
D. Init Flow	104.0	137.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	104.0	137.0	0.0	0.0	0.0	
F. Fl Shut-in	779.0	794.0	0.0	0.0	0.0	
G. Final Hydro	2373.0	2390.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside						Tool Wt. 0.00 lbs
						Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 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 60.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 90.00 ft of 60.00 ft in DC and 30.00 ft in DP
90.00 ft of Drilling mud

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

BLOW DESCRIPTION

Initial Blow -

Packer seemed to fail on first attempt
reset tool, lost 15' on anulus, 2"
surge, blow died in 27 min

Final Blow -

Good surge @ open, no return blow

SAMPLES:

SENT TO:

MUD DATA-----

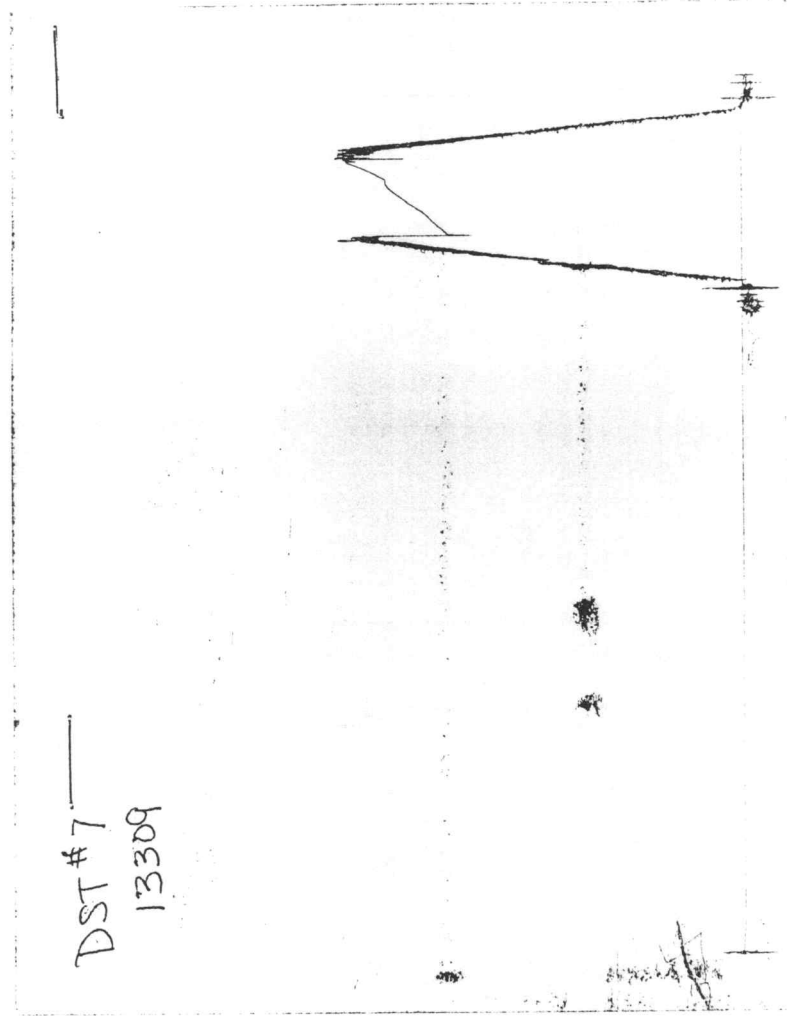
Mud Type	
Weight	0.00 lb/
Vis.	0.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Dan Reynolds
Contr.	LD Davis
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

DST # 1
13339

This is an actual photograph of recorder chart

CHART PAGE



This is an actual photograph of recorder chart

