

15-101-21732

9-17s-29w

WELL NAME: Snider #1
COMPANY: Rheem Resources
LOCATION: Sec. 9 Twp. 17s Rge. 29w
Lane County Kansas
DATE: 11-14-96

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources
WELL NAME: Snider #1
LOCATION : 9-17s-29w Lane KS
INTERVAL : 4052.00 To 4064.00 ft

DATE 11-7-96
KB 2820.00 ft
GR 2815.00 ft
TD 4064.00 ft

TICKET NO: 9577
FORMATION: Lansing KC "E"
TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2342			PF Fr. 1245 to 0115 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0115 to 0145 hr
SF 30 Clock(hrs)	12	12	elec.			SF Fr. 0145 to 0215 hr
FS 30 Depth(ft)	4061.0	4061.0	4053.0	0.0	0.0	FS Fr. 0215 to 0245 hr

	Field	1	2	3	4	
A. Init Hydro	1974.0	1956.0	1967.0	0.0	0.0	T STARTED 2245 hr
B. First Flow	44.0	28.0	18.0	0.0	0.0	T ON BOTM 1242 hr
B1. Final Flow	44.0	28.0	34.0	0.0	0.0	T OPEN 1245 hr
C. In Shut-in	1097.0	1080.0	1091.0	0.0	0.0	T PULLED 0245 hr
D. Init Flow	55.0	46.0	37.0	0.0	0.0	T OUT 0500 hr
E. Final Flow	55.0	46.0	53.0	0.0	0.0	
F. Fl Shut-in	1075.0	1052.0	1066.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1952.0	1936.0	1928.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 42000.00 lbs
						Unseated Str Wt 42000.00 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 4059.00 ft
						H.W. I.D 2.70 in
						H.W. Length 563.00 ft

RECOVERY

Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP
60.00 ft of muddy water 10 %mud 90% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of RW .41 @ 70F
SALINITY 18000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
Weak surface blow - died in 5 min.

Initial Shut-in -
No return

Final Flow -
Bubble to open tool - no blow - weak
surface blow in 10 min. - blew
throughout

Final Shut-in -
No return

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type	Chem
Weight	8.80 lb/cf
Vis.	53.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop Y	25.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Kris Kennedy
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Snider #1

LOCATION : 9-17s-29w Lane KS

TICKET No. 9577 D.S.T. No. 1 DATE 11-7-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 23

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 12

TOTAL TOOL 35

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 35

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands65 Single 1 Total 4059

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4094

TOTAL DEPTH 4064

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:

P.O. SUB	
C.O. SUB 1'	4030
S.I. TOOL 5'	4036
HMV 5'	4041
JARS n/a	
SAFETY JOINT 2'	4043
PACKER top	4047
PACKER bottom	4052
DEPTH 4052	
STUBB 1'	4053
ANCHOR alpine recorder	4053
6' perf	4059
T.C.	
DEPTH	
ak-1 recorder	4061
BULLNOSE 5' bullplug	4064
T.D.	4064

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9577 DST #1 Snider #1 Rheem Resources

DATE: 11/07/96 TIME: 23:45:36

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	116.00	1967.3	0.0	107.79		
***** Start Flow 1	0.00	18.2	0.0	107.95		
	1.00	18.8	0.6	108.23		
	2.00	18.7	0.5	108.43		
	3.00	19.4	1.2	108.56		
	4.00	20.0	1.8	108.65		
	5.00	20.9	2.7	108.70		
	6.00	21.4	3.2	108.73		
	7.00	21.9	3.7	108.74		
	8.00	22.4	4.2	108.74		
	9.00	23.1	4.9	108.73		
	10.00	23.5	5.3	108.71		
	11.00	24.2	6.0	108.70		
	12.00	24.3	6.1	108.68		
	13.00	25.3	7.0	108.66		
	14.00	25.6	7.4	108.64		
	15.00	26.0	7.8	108.62		
	16.00	26.4	8.2	108.60		
	17.00	27.0	8.8	108.59		
	18.00	27.5	9.3	108.58		
	19.00	28.0	9.8	108.56		
	20.00	28.4	10.2	108.56		
	21.00	28.9	10.7	108.55		
	22.00	29.5	11.2	108.55		
	23.00	30.1	11.9	108.55		
	24.00	30.6	12.4	108.54		
	25.00	31.1	12.9	108.55		
	26.00	31.5	13.3	108.55		
	27.00	32.2	14.0	108.56		
	28.00	32.8	14.6	108.58		
	29.00	33.3	15.1	108.59		
	30.00	33.9	15.7	108.60		
	31.00	34.5	16.3	108.61		
***** End Flow 1	32.00	35.0	16.8	108.63		
***** Start Shutin 1	0.00	35.0	0.0	108.63	0.0000	0.001
	1.00	66.7	31.7	108.66	33.0000	0.004
	2.00	545.7	510.7	108.70	17.0000	0.298
	3.00	915.9	880.9	108.76	11.6667	0.839
	4.00	981.9	947.0	108.83	9.0000	0.964
	5.00	1008.6	973.6	108.88	7.4000	1.017
	6.00	1024.1	989.1	108.95	6.3333	1.049
	7.00	1034.7	999.7	109.01	5.5714	1.071
	8.00	1042.7	1007.7	109.07	5.0000	1.087
	9.00	1049.2	1014.2	109.13	4.5556	1.101
	10.00	1054.5	1019.6	109.18	4.2000	1.112
	11.00	1059.3	1024.3	109.23	3.9091	1.122
	12.00	1062.8	1027.8	109.28	3.6667	1.129
	13.00	1066.2	1031.2	109.33	3.4615	1.137
	14.00	1069.1	1034.1	109.38	3.2857	1.143
	15.00	1071.7	1036.8	109.42	3.1333	1.149
	16.00	1074.2	1039.2	109.46	3.0000	1.154

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9577 DST #1 Snider #1 Rheem Resources

DATE: 11/07/96 TIME: 23:45:36

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	1076.3	1041.3	109.52	2.8824	1.158
	18.00	1078.2	1043.2	109.55	2.7778	1.163
	19.00	1080.0	1045.0	109.61	2.6842	1.166
	20.00	1081.7	1046.7	109.65	2.6000	1.170
	21.00	1083.2	1048.2	109.71	2.5238	1.173
	22.00	1084.6	1049.6	109.75	2.4545	1.176
	23.00	1085.8	1050.9	109.80	2.3913	1.179
	24.00	1086.9	1052.0	109.84	2.3333	1.181
	25.00	1088.2	1053.2	109.89	2.2800	1.184
	26.00	1089.3	1054.3	109.94	2.2308	1.187
	27.00	1090.2	1055.2	109.99	2.1852	1.189
***** End Shut-in 1	28.00	1091.2	1056.2	110.02	2.1429	1.191
***** Start Flow 2	0.00	37.4	0.0	110.03		
	1.00	37.7	0.3	110.05		
	2.00	38.2	0.8	110.07		
	3.00	38.8	1.4	110.09		
	4.00	39.5	2.1	110.10		
	5.00	40.1	2.7	110.13		
	6.00	40.7	3.3	110.16		
	7.00	41.3	3.9	110.20		
	8.00	41.9	4.4	110.23		
	9.00	42.4	5.0	110.26		
	10.00	43.0	5.5	110.31		
	11.00	43.5	6.0	110.36		
	12.00	44.1	6.6	110.40		
	13.00	44.6	7.2	110.45		
	14.00	45.2	7.8	110.50		
	15.00	45.7	8.3	110.55		
	16.00	46.2	8.7	110.60		
	17.00	46.7	9.2	110.65		
	18.00	47.2	9.8	110.71		
	19.00	47.7	10.3	110.75		
	20.00	48.2	10.8	110.81		
	21.00	48.8	11.4	110.86		
	22.00	49.4	12.0	110.90		
	23.00	49.9	12.5	110.96		
	24.00	50.4	13.0	111.01		
	25.00	51.1	13.7	111.06		
	26.00	51.5	14.1	111.11		
	27.00	52.1	14.7	111.16		
	28.00	52.6	15.2	111.22		
***** End Flow 2	29.00	53.1	15.7	111.27		
***** Start Shutin 2	0.00	53.1	0.0	111.27	0.0000	0.003
	1.00	65.5	12.4	111.32	62.0000	0.004
	2.00	156.0	102.9	111.38	31.5000	0.024
	3.00	600.7	547.5	111.45	21.3333	0.361
	4.00	895.7	842.6	111.54	16.2500	0.802
	5.00	961.2	908.1	111.62	13.2000	0.924
	6.00	987.3	934.2	111.71	11.1667	0.975
	7.00	1002.4	949.3	111.80	9.7143	1.005
	8.00	1012.9	959.8	111.87	8.6250	1.026

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9577 DST #1 Snider #1 Rheem Resources

DATE: 11/07/96

TIME: 23:45:36

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	9.00	1020.8	967.7	111.94	7.7778	1.042
	10.00	1027.1	974.0	112.01	7.1000	1.055
	11.00	1032.3	979.2	112.09	6.5455	1.066
	12.00	1036.7	983.6	112.15	6.0833	1.075
	13.00	1040.5	987.4	112.21	5.6923	1.083
	14.00	1043.9	990.8	112.27	5.3571	1.090
	15.00	1047.0	993.9	112.32	5.0667	1.096
	16.00	1049.7	996.6	112.38	4.8125	1.102
	17.00	1052.3	999.2	112.43	4.5882	1.107
	18.00	1054.5	1001.3	112.49	4.3889	1.112
	19.00	1056.6	1003.4	112.54	4.2105	1.116
	20.00	1058.4	1005.3	112.59	4.0500	1.120
	21.00	1060.2	1007.1	112.65	3.9048	1.124
	22.00	1061.8	1008.7	112.70	3.7727	1.128
	23.00	1063.3	1010.2	112.75	3.6522	1.131
	24.00	1064.8	1011.7	112.80	3.5417	1.134
	25.00	1066.3	1013.2	112.85	3.4400	1.137
	26.00	1067.6	1014.4	112.90	3.3462	1.140
	27.00	1068.6	1015.5	112.95	3.2593	1.142
	28.00	1069.7	1016.6	113.00	3.1786	1.144
	29.00	1064.2	1011.1	113.05	3.1034	1.133
	30.00	1065.2	1012.1	113.10	3.0333	1.135
	31.00	1066.1	1013.0	113.15	2.9677	1.137
***** End Shut-in 2	32.00	1067.0	1013.8	113.20	2.9062	1.138
***** Start Flow 3	0.00	1928.3	0.0	113.74		
***** End Flow 3	1.00	1919.9	-8.4	114.17		
***** End Shut-in 3	1.00	1919.9	0.0	114.17	62.0000	3.686
***** Final Hydro.	242.00	1919.9	0.0	114.17		

TEST HISTORY

9577 DST #1 Snider #1 Rheem Resources

Flag Points

t<Min.> P< PSig> t<Min.> P< PSig>
 A: 0.00 1967.34 Q: 0.00 1928.32
 B: 0.00 18.20
 C: 32.00 34.99
 D: 28.00 1091.22
 E: 0.00 37.42
 F: 29.00 53.12
 G: 32.00 1066.97

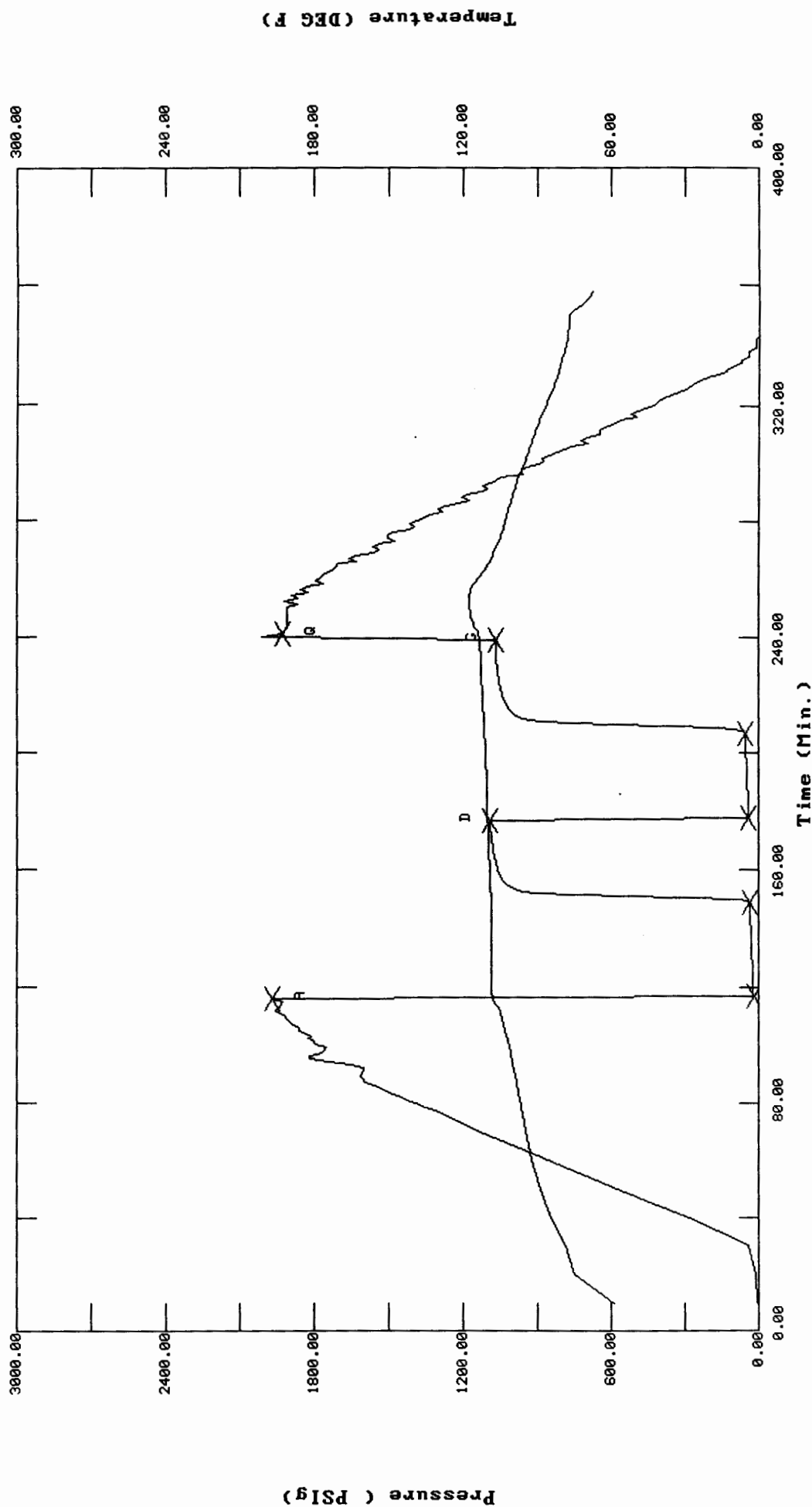
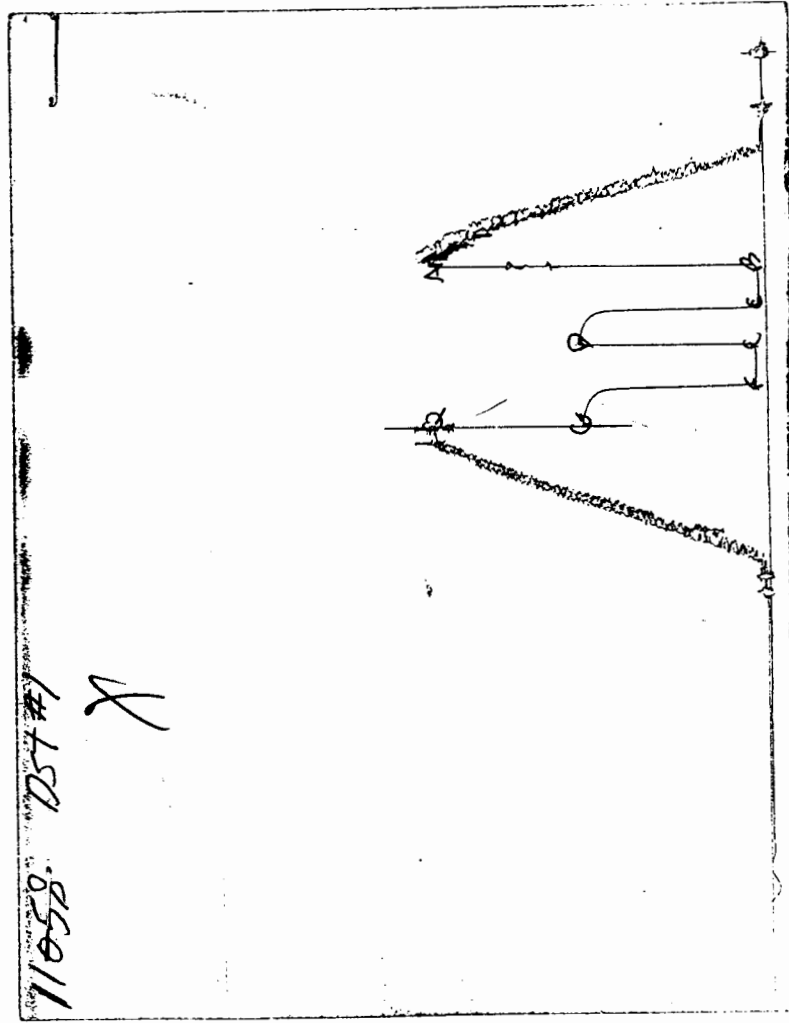


CHART PAGE



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 9577

Well Name & No. <u>#1 Snider</u>	Test No. <u>1</u>	Date <u>11-7-96</u>
Company <u>Rheem Resources</u>	Zone Tested <u>LKC "E"</u>	
Address <u>100 S. Main Suite 505, Wichita, KS 67202</u>	Elevation <u>2820'</u>	KB <u>2815 GL</u>
Co. Rep / Geo. <u>Kris Kennedy</u>	Cont. <u>H. Barcomb #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>9</u> Twp. <u>17</u> Rge. <u>29</u>	Co. <u>hane</u>	State <u>KS</u>
No. of Copies <u>None</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested <u>4052' - 4064'</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt./Lbs. <u>42,000</u>
Anchor Length <u>12'</u>	Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>4047'</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth <u>4052'</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>4064'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u> </u>
Mud Wt. <u>8.8</u> LCM <u>#1</u> Vis. <u>53</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4059'</u>
Blow Description <u>Weak surface blow died in 5 min.</u>		

ISI: No - return

F.F. Bubble to open tool - No Blow - Weak surface blow in 10 min Blow Throughout

FSI: No - return.

Recovery — Total Feet <u>60'</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>60'</u>
Rec. <u>60'</u> Feet Of <u>muddy water</u>	%gas <u> </u>	%oil <u> </u>	%water <u>90</u> %mud <u>10</u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>

BHT 114° °F Gravity °API D@ °F Corrected Gravity °API

RW .41 @ 70 °F Chlorides 18,000 ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud <u>1974</u> <u>1967</u> PSI	Recorder No. <u>2342</u>	T-Started <u>22:45 P.M.</u>
(B) First Initial Flow Pressure <u>44</u> <u>18</u> PSI	(depth) <u>4053'</u>	T-Open <u>12:45 A.M.</u>
(C) First Final Flow Pressure <u>44</u> <u>34</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>2:45 A.M.</u>
(D) Initial Shut-in Pressure <u>1097</u> <u>1091</u> PSI	(depth) <u>4061'</u>	T-Out <u>5:00 A.M.</u>
(E) Second Initial Flow Pressure <u>55</u> <u>37</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>55</u> <u>53</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u>1075</u> <u>1066</u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud <u>1962</u> <u>1928</u> PSI	Initial Shut-in <u>30</u>	Jars <u> </u>

AK-1

ELEC

Final Flow 30 Safety Joint X 50

Final Shut-in 30 Straddle

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 Kris Kennedy

Our Representative Steve McBride

Circ. Sub X 4/C

Sampler

Extra Packer

Elect. Rec. X 150

Other

TOTAL PRICE \$ 800

(5)

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources

DATE 11-8-96

WELL NAME: Snider #1

KB 2820.00 ft

TICKET NO: 9578

DST #2

LOCATION : 9-17s-29w Lane KS

GR 2815.00 ft

FORMATION: "J"

INTERVAL : 4203.00 To 4220.00 ft

TD 4220.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11058	11058	2342			PF Fr. 2240 to 2310 hr
SI 30	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 2310 to 2340 hr
SF 30	Clock(hrs)	12	12	elec.			SF Fr. 2340 to 0010 hr
FS 30	Depth(ft)	4215.0	4215.0	4204.0	0.0	0.0	FS Fr. 0010 to 0040 hr

	Field	1	2	3	4	
A. Init Hydro	2098.0	2058.0	2061.0	0.0	0.0	T STARTED 2122 hr
B. First Flow	33.0	32.0	19.0	0.0	0.0	T ON BOTM 2237 hr
B1. Final Flow	44.0	32.0	34.0	0.0	0.0	T OPEN 2240 hr
C. In Shut-in	411.0	409.0	411.0	0.0	0.0	T PULLED 0040 hr
D. Init Flow	55.0	48.0	36.0	0.0	0.0	T OUT 0315 hr
E. Final Flow	66.0	54.0	56.0	0.0	0.0	
F. Fl Shut-in	400.0	391.0	405.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2076.0	2027.0	2038.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 52000.00 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 0.00 ft
						D.P. Length 3648.00 ft
						H.W. I.D 2.70 in
						H.W. Length 563.00 ft

RECOVERY

Tot Fluid 80.00 ft of 0.00 ft in DC and 80.00 ft in DP
 80.00 ft of muddy water 60% water 40% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of RW .321 @ 69F

SALINITY 21000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 1/8" at open - built to 1/4 in.

Initial Shut-in -
 No return

Final Flow -
 Bubble to open tool - weak surface
 blow in 23 min.

Final Shut-in -
 No return

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chem
 Weight 9.00 lb/ci
 Vis. 50.00 S/L
 W.L. 8.00 in3
 F.C. 0.00 in
 Mud Drop Y 30.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 123.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Shane McBride
 Co. Rep. Kris Kennedy
 Contr. Abercrombie
 Rig # 8
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Snider #1

LOCATION : 9-17s-29w Lane KS

TICKET No. 9578 D.S.T. No. 2 DATE 11-8-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 23

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 17

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 40

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands67 Single 1 Total 4211

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4251

TOTAL DEPTH 4220

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

P.O. SUB	
C.O. SUB 1'	4181
S.I. TOOL 5'	4187
HMV 5'	4192
JARS n/a	
SAFETY JOINT 2'	4194
PACKER top	4198
PACKER bottom	4203
DEPTH 4203	
STUBB 1'	4204
ANCHOR alpine recorder	4204
11' perf	4215
T.C.	
DEPTH	
ak-1 recorder	4215
BULLNOSE 5' bullplug	4220
T.D.	4220

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9578 DST #2 Snider #1 Rheem Resources

DATE: 11/08/96 TIME: 22:24:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	76.00	2061.9	0.0	110.34		
***** Start Flow 1	0.00	19.5	0.0	110.94		
	1.00	20.6	1.1	111.17		
	2.00	21.8	2.3	111.36		
	3.00	22.7	3.2	111.51		
	4.00	22.7	3.2	111.63		
	5.00	24.3	4.8	111.72		
	6.00	24.9	5.4	111.80		
	7.00	25.7	6.1	111.87		
	8.00	26.1	6.5	111.93		
	9.00	26.7	7.1	111.97		
	10.00	27.4	7.9	112.03		
	11.00	27.9	8.4	112.07		
	12.00	28.6	9.1	112.11		
	13.00	29.4	9.8	112.16		
	14.00	30.0	10.4	112.21		
	15.00	30.6	11.1	112.26		
	16.00	31.3	11.7	112.32		
	17.00	31.9	12.3	112.38		
	18.00	32.6	13.1	112.45		
	19.00	33.4	13.8	112.52		
	20.00	34.1	14.5	112.60		
	21.00	34.7	15.2	112.68		
	22.00	35.4	15.9	112.78		
	23.00	36.1	16.5	112.88		
	24.00	36.8	17.3	112.98		
	25.00	31.0	11.4	113.08		
	26.00	31.6	12.1	113.20		
	27.00	32.3	12.8	113.32		
	28.00	33.0	13.4	113.44		
	29.00	33.6	14.1	113.57		
***** End Flow 1	30.00	34.3	14.8	113.69		
***** Start Shutin 1	0.00	34.3	0.0	113.69	0.0000	0.001
	1.00	57.9	23.6	113.82	31.0000	0.003
	2.00	221.3	187.0	113.97	16.0000	0.049
	3.00	313.7	279.4	114.11	11.0000	0.098
	4.00	334.1	299.8	114.21	8.5000	0.112
	5.00	346.4	312.0	114.25	7.0000	0.120
	6.00	355.4	321.1	114.28	6.0000	0.126
	7.00	362.3	328.0	114.30	5.2857	0.131
	8.00	368.1	333.8	114.35	4.7500	0.135
	9.00	372.9	338.6	114.43	4.3333	0.139
	10.00	377.0	342.7	114.53	4.0000	0.142
	11.00	380.6	346.3	114.65	3.7273	0.145
	12.00	383.9	349.6	114.76	3.5000	0.147
	13.00	386.7	352.4	114.93	3.3077	0.150
	14.00	389.3	355.0	115.09	3.1429	0.152
	15.00	391.8	357.4	115.24	3.0000	0.153
	16.00	393.9	359.5	115.40	2.8750	0.155
	17.00	395.9	361.6	115.54	2.7647	0.157
	18.00	397.7	363.4	115.69	2.6667	0.158

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9578 DST #2 Snider #1 Rheem Resources

DATE: 11/08/96 TIME: 22:24:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	399.4	365.1	115.83	2.5789	0.160
	20.00	401.0	366.7	115.98	2.5000	0.161
	21.00	402.5	368.2	116.12	2.4286	0.162
	22.00	403.9	369.6	116.24	2.3636	0.163
	23.00	405.3	371.0	116.37	2.3043	0.164
	24.00	406.4	372.1	116.50	2.2500	0.165
	25.00	407.5	373.1	116.61	2.2000	0.166
	26.00	408.6	374.3	116.73	2.1538	0.167
	27.00	409.6	375.3	116.84	2.1111	0.168
	28.00	410.7	376.3	116.94	2.0714	0.169
	29.00	411.5	377.2	117.04	2.0345	0.169
***** End Shut-in 1	30.00	411.6	377.3	117.14	2.0000	0.169
***** Start Flow 2	0.00	36.3	0.0	117.22		
	1.00	36.9	0.6	117.33		
	2.00	37.7	1.3	117.48		
	3.00	38.4	2.1	117.64		
	4.00	39.2	2.9	117.79		
	5.00	40.0	3.7	117.92		
	6.00	40.9	4.5	118.04		
	7.00	41.6	5.3	118.15		
	8.00	42.4	6.0	118.26		
	9.00	43.1	6.8	118.36		
	10.00	43.8	7.5	118.46		
	11.00	44.6	8.2	118.55		
	12.00	45.2	8.9	118.65		
	13.00	45.9	9.6	118.75		
	14.00	46.6	10.2	118.85		
	15.00	47.2	10.9	118.97		
	16.00	47.7	11.3	119.12		
	17.00	48.2	11.8	119.29		
	18.00	48.8	12.4	119.52		
	19.00	49.3	13.0	119.80		
	20.00	49.9	13.6	120.08		
	21.00	50.7	14.4	120.35		
	22.00	51.4	15.1	120.60		
	23.00	52.0	15.7	120.83		
	24.00	52.6	16.3	121.02		
	25.00	53.3	17.0	121.17		
	26.00	53.9	17.5	121.31		
	27.00	54.4	18.0	121.44		
	28.00	55.0	18.7	121.56		
	29.00	55.6	19.3	121.70		
	30.00	56.3	20.0	121.85		
***** End Flow 2	31.00	56.8	20.5	122.01		
***** Start Shutin 2	0.00	56.8	0.0	122.01	0.0000	0.003
	1.00	60.3	3.5	122.16	62.0000	0.004
	2.00	135.5	78.7	122.30	31.5000	0.018
	3.00	271.6	214.8	122.46	21.3333	0.074
	4.00	315.4	258.6	122.59	16.2500	0.099
	5.00	331.8	274.9	122.70	13.2000	0.110
	6.00	342.3	285.5	122.76	11.1667	0.117

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9578 DST #2 Snider #1 Rheem Resources

DATE: 11/08/96 TIME: 22:24:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	7.00	350.2	293.4	122.82	9.7143	0.123
	8.00	356.6	299.8	122.86	8.6250	0.127
	9.00	361.9	305.1	122.91	7.7778	0.131
	10.00	366.3	309.5	122.94	7.1000	0.134
	11.00	370.3	313.5	122.97	6.5455	0.137
	12.00	373.7	316.9	123.01	6.0833	0.140
	13.00	376.8	320.0	123.04	5.6923	0.142
	14.00	379.7	322.9	123.07	5.3571	0.144
	15.00	382.3	325.5	123.12	5.0667	0.146
	16.00	384.5	327.7	123.14	4.8125	0.148
	17.00	386.6	329.8	123.18	4.5882	0.149
	18.00	388.7	331.9	123.21	4.3889	0.151
	19.00	390.4	333.6	123.25	4.2105	0.152
	20.00	392.2	335.4	123.29	4.0500	0.154
	21.00	393.8	337.0	123.32	3.9048	0.155
	22.00	395.3	338.5	123.33	3.7727	0.156
	23.00	396.7	339.9	123.37	3.6522	0.157
	24.00	398.0	341.2	123.40	3.5417	0.158
	25.00	399.2	342.3	123.43	3.4400	0.159
	26.00	400.4	343.6	123.46	3.3462	0.160
	27.00	401.5	344.7	123.48	3.2593	0.161
	28.00	402.6	345.8	123.51	3.1786	0.162
	29.00	403.6	346.8	123.53	3.1034	0.163
	30.00	404.5	347.7	123.56	3.0333	0.164
***** End Shut-in 2	31.00	405.4	348.6	123.59	2.9677	0.164
***** Final Hydro.	203.00	2038.3	0.0	123.75		

TEST HISTORY

9578 DST #2 Snider #1 Rheem Resources

Flag Points

t(Min.) P(PSIg)

A: 0.00 2061.93
B: 0.00 19.55
C: 30.00 34.32
D: 30.00 411.57
E: 0.00 36.33
F: 31.00 56.81
G: 31.00 405.45
Q: 0.00 2038.26

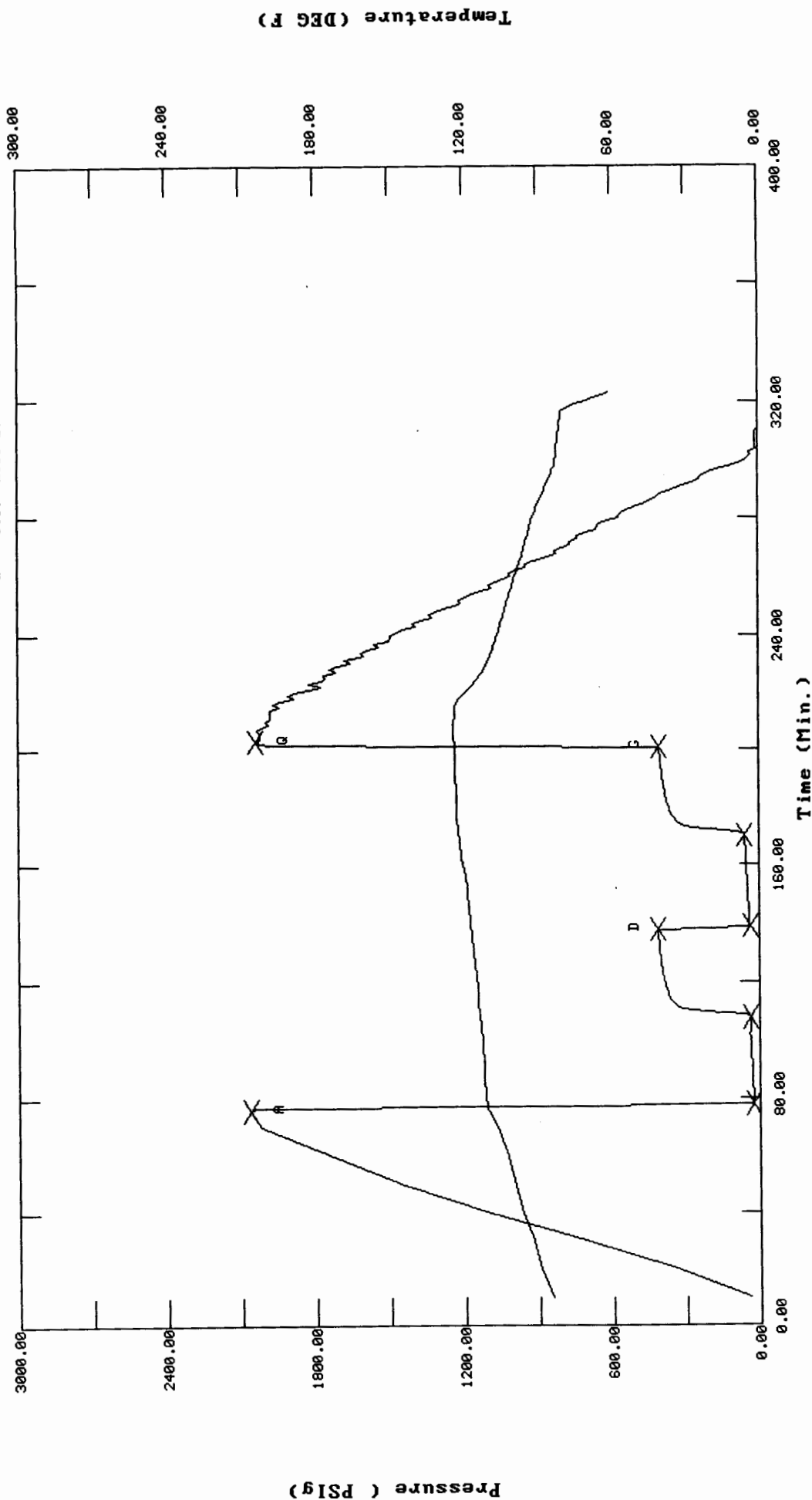
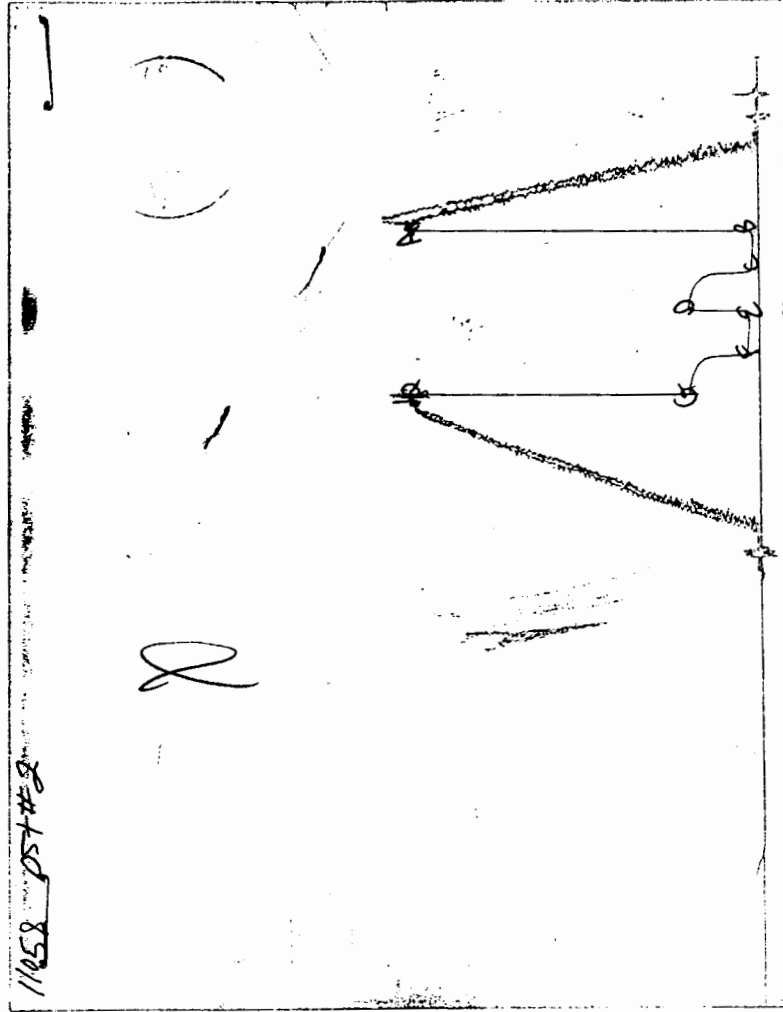


CHART PAGE



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 9578

Well Name & No. <u>#1 Smider</u>	Test No. <u>2</u>	Date <u>11-8-96</u>
Company <u>Rheem Resources</u>	Zone Tested <u>"J"</u>	
Address <u>100 Smider, Suite 505, Wichita KS 67202</u>	Elevation <u>2820'</u>	KB <u>2815'</u> GL
Co. Rep / Geo. <u>Kris Kennedy</u>	Cont. <u>Aburumbe #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>9</u> Twp. <u>17</u> Rge. <u>29</u> Co. <u>June</u> State <u>KS</u>		
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4203'</u>	<u>4220'</u>	Initial Str Wt./Lbs. <u>43000</u>	Unseated Str Wt./Lbs. <u>43000</u>
Anchor Length <u> </u>	<u>17'</u>	Wt. Set Lbs. <u>26000</u>	Wt. Pulled Loose/Lbs. <u>52000</u>
Top Packer Depth <u> </u>	<u>4198'</u>	Tool Weight <u>4000</u>	
Bottom Packer Depth <u> </u>	<u>4203'</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u> </u>	<u>4220'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.0</u> LCM <u> </u> Vis. <u>50</u> WL <u>8.0</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3648'</u>
Blow Description <u>18" in @ open burst to 1/4" in.</u>			

I.S.T. No return

F.F. Bubble To open - weak surface blow in 23 min

F.S.T. No return

Recovery — Total Feet <u>80'</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>80'</u>
Rec. <u>80'</u> Feet Of <u>mud under spec's</u>	%gas <u>3%</u>	%oil <u>60%</u>	%water <u>40%</u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>

BHT 123° °F Gravity °API D@ °F Corrected Gravity °API

RW 3.21 @ 69 °F Chlorides 21,000 ppm Recovery Chlorides 1,300 ppm System

(A) Initial Hydrostatic Mud <u>2098</u>	<u>2061</u> PSI	Recorder No. <u>2342</u>	T-Started <u>21:22 P.M.</u>
(B) First Initial Flow Pressure <u>33</u>	<u>19</u> PSI	(depth) <u>4204'</u>	T-Open <u>22:40 P.M.</u>
(C) First Final Flow Pressure <u>44</u>	<u>34</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>12:40 P.M.</u>
(D) Initial Shut-in Pressure <u>411</u>	<u>411</u> PSI	(depth) <u>4215'</u>	T-Out <u>3:15 A.M.</u>
(E) Second Initial Flow Pressure <u>55</u>	<u>36</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>66</u>	<u>56</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u>400</u>	<u>405</u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud <u>2076</u>	<u>2038</u> PSI	Initial Shut-in <u>30</u>	Jars <u> </u>

AK-1 Elec.

Final Flow 30 Safety Joint X 50
Final Shut-in 30 Straddle

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

Circ. Sub X N/C
Sampler
Extra Packer
Elect. Rec. X 150
Other
TOTAL PRICE \$ 800

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources
WELL NAME: Snider
LOCATION : 9-17s-29w Lane KS
INTERVAL : 4226.00 To 4245.00 ft

DATE 11-9-96
KB 2823.00 ft TICKET NO: 9579 DST #3
GR 2818.00 ft FORMATION: "K"
TD 4245.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2342			PF Fr. 1220 to 1250 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1250 to 1320 hr
SF 30 Clock(hrs)	12	12	elec.			SF Fr. 1320 to 1350 hr
FS 30 Depth(ft)	4240.0	4240.0	4227.0	0.0	0.0	FS Fr. 1350 to 1420 hr

	Field	1	2	3	4	
A. Init Hydro	2098.0	2102.0	2073.0	0.0	0.0	T STARTED 1040 hr
B. First Flow	77.0	66.0	21.0	0.0	0.0	T ON BOTM 1217 hr
B1. Final Flow	133.0	117.0	108.0	0.0	0.0	T OPEN 1220 hr
C. In Shut-in	478.0	469.0	457.0	0.0	0.0	T PULLED 1420 hr
D. Init Flow	166.0	151.0	112.0	0.0	0.0	T OUT 1645 hr
E. Final Flow	200.0	188.0	183.0	0.0	0.0	
F. Fl Shut-in	478.0	460.0	455.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2076.0	2070.0	2040.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 53000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 47000.00 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 3648.00 ft
						H.W. I.D 2.70 in
						H.W. Length 563.00 ft

RECOVERY

Tot Fluid 360.00 ft of 0.00 ft in DC and 360.00 ft in DP
60.00 ft of watery mud 35%water 65% mud trace oil
60.00 ft of slightly muddy water 80% water 20% mud
240.00 ft of water 100% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of RW .271 at 69F
SALINITY 24300.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
1/8" at open - built to 9"

Initial Shut-in -
No return

Final Flow -
Weak surface blow - built to 4"

Final Shut-in -
No return

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chem
Weight 9.20 lb/cf
Vis. 49.00 S/L
W.L. 8.00 in3
F.C. 0.00 in
Mud Drop Y 25.0 ft

Amt. of fill 0.00 ft
Btm. H. Temp. 129.00 F
Hole Condition good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Shane McBride
Co. Rep. Kris Kennedy
Contr. Abercrombie
Rig # 8
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Snider

LOCATION : 9-17s-29w Lane KS

TICKET No. 9579 D.S.T. No. 3 DATE 11-9-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 23

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 42

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 42

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands66 Single Total 4211

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4253

TOTAL DEPTH 4245

TOTAL DRILL PIPE ABOVE K.B. 8

REMARKS:

P.O. SUB	
C.O. SUB 1'	4204
S.I. TOOL 5'	4210
HMV 5'	4215
JARS n/a	
SAFETY JOINT 2'	4217
PACKER top	4221
PACKER bottom	4226
DEPTH 4226	
STUBB 1'	4227
ANCHOR alpine recorder	4227
13' perf	4240
T.C.	
DEPTH	
ak-1 recorder	4240
BULLNOSE 5' bullplug	4245
T.D.	4245

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9579 DST #3 Snider #1 Rheem Resources

DATE: 11/09/96

TIME: 11:57:52

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	82.00	2073.7	0.0	106.67		
***** Start Flow 1	0.00	21.2	0.0	107.26		
	1.00	25.1	3.9	107.54		
	2.00	29.3	8.1	107.81		
	3.00	32.6	11.3	108.06		
	4.00	36.0	14.8	108.29		
	5.00	39.9	18.7	108.48		
	6.00	43.8	22.6	108.64		
	7.00	47.3	26.1	108.77		
	8.00	50.8	29.5	109.00		
	9.00	54.1	32.9	109.32		
	10.00	57.5	36.3	109.71		
	11.00	60.8	39.5	110.16		
	12.00	64.2	43.0	110.62		
	13.00	67.6	46.4	111.05		
	14.00	71.0	49.8	111.44		
	15.00	74.3	53.0	111.77		
	16.00	77.2	56.0	112.07		
	17.00	80.2	59.0	112.33		
	18.00	83.0	61.8	112.67		
	19.00	79.3	58.1	113.19		
	20.00	82.2	61.0	113.78		
	21.00	85.2	64.0	114.33		
	22.00	88.4	67.1	114.80		
	23.00	91.5	70.2	115.17		
	24.00	94.5	73.3	115.51		
	25.00	97.2	76.0	115.82		
	26.00	99.5	78.3	116.15		
	27.00	101.5	80.3	116.63		
	28.00	103.9	82.7	117.27		
	29.00	106.3	85.1	117.92		
***** End Flow 1	30.00	108.7	87.5	118.58		
***** Start Shutin 1	0.00	108.7	0.0	118.58	0.0000	0.012
	1.00	398.5	289.8	119.29	31.0000	0.159
	2.00	414.4	305.7	119.96	16.0000	0.172
	3.00	423.2	314.6	120.57	11.0000	0.179
	4.00	429.3	320.6	121.14	8.5000	0.184
	5.00	433.7	325.1	121.66	7.0000	0.188
	6.00	437.2	328.5	122.12	6.0000	0.191
	7.00	440.0	331.3	122.52	5.2857	0.194
	8.00	442.3	333.6	122.87	4.7500	0.196
	9.00	444.1	335.5	123.19	4.3333	0.197
	10.00	445.8	337.1	123.45	4.0000	0.199
	11.00	447.1	338.4	123.67	3.7273	0.200
	12.00	448.4	339.7	123.85	3.5000	0.201
	13.00	449.4	340.7	124.00	3.3077	0.202
	14.00	450.3	341.7	124.15	3.1429	0.203
	15.00	451.1	342.4	124.29	3.0000	0.203
	16.00	451.9	343.2	124.41	2.8750	0.204
	17.00	452.5	343.9	124.51	2.7647	0.205
	18.00	453.2	344.5	124.59	2.6667	0.205

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9579 DST #3 Snider #1 Rheem Resources

DATE: 11/09/96 TIME: 11:57:52

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	453.7	345.0	124.68	2.5789	0.206
	20.00	454.1	345.4	124.74	2.5000	0.206
	21.00	454.6	346.0	124.81	2.4286	0.207
	22.00	455.0	346.4	124.86	2.3636	0.207
	23.00	455.4	346.7	124.90	2.3043	0.207
	24.00	455.7	347.0	124.94	2.2500	0.208
	25.00	456.1	347.5	124.97	2.2000	0.208
	26.00	456.4	347.7	124.99	2.1538	0.208
	27.00	456.7	348.0	125.00	2.1111	0.209
	28.00	457.0	348.3	125.02	2.0714	0.209
	29.00	457.2	348.6	125.03	2.0345	0.209
***** End Shut-in 1	30.00	457.5	348.8	125.04	2.0000	0.209
***** Start Flow 2	0.00	112.1	0.0	125.02		
	1.00	115.4	3.3	125.01		
	2.00	118.5	6.4	125.00		
	3.00	121.4	9.3	125.04		
	4.00	124.2	12.1	125.13		
	5.00	126.8	14.7	125.25		
	6.00	129.5	17.4	125.32		
	7.00	131.9	19.8	125.40		
	8.00	134.3	22.2	125.46		
	9.00	136.7	24.6	125.53		
	10.00	139.1	26.9	125.58		
	11.00	141.4	29.3	125.63		
	12.00	144.0	31.9	125.67		
	13.00	146.6	34.5	125.72		
	14.00	149.1	37.0	125.77		
	15.00	151.7	39.6	125.82		
	16.00	154.3	42.1	125.87		
	17.00	156.4	44.3	125.94		
	18.00	158.7	46.6	125.99		
	19.00	161.0	48.8	126.05		
	20.00	163.1	51.0	126.11		
	21.00	165.3	53.2	126.19		
	22.00	167.6	55.5	126.25		
	23.00	169.8	57.7	126.34		
	24.00	172.0	59.9	126.41		
	25.00	174.3	62.2	126.51		
	26.00	176.7	64.5	126.59		
	27.00	178.8	66.7	126.70		
	28.00	181.1	69.0	126.80		
***** End Flow 2	29.00	183.1	71.0	126.90		
***** Start Shutin 2	0.00	183.1	0.0	126.90	0.0000	0.034
	1.00	406.2	223.1	127.01	60.0000	0.165
	2.00	419.0	235.8	127.11	30.5000	0.176
	3.00	426.3	243.2	127.21	20.6667	0.182
	4.00	431.3	248.2	127.29	15.7500	0.186
	5.00	434.9	251.8	127.39	12.8000	0.189
	6.00	437.8	254.6	127.47	10.8333	0.192
	7.00	440.1	257.0	127.56	9.4286	0.194
	8.00	442.0	258.9	127.70	8.3750	0.195

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9579 DST #3 Snider #1 Rheem Resources

DATE: 11/09/96 TIME: 11:57:52

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	9.00	443.5	260.4	127.87	7.5556	0.197
	10.00	444.9	261.8	128.03	6.9000	0.198
	11.00	446.0	262.9	128.19	6.3636	0.199
	12.00	446.9	263.8	128.34	5.9167	0.200
	13.00	447.8	264.7	128.48	5.5385	0.201
	14.00	448.6	265.5	128.60	5.2143	0.201
	15.00	449.3	266.2	128.71	4.9333	0.202
	16.00	450.0	266.9	128.81	4.6875	0.203
	17.00	450.6	267.5	128.89	4.4706	0.203
	18.00	451.1	268.0	128.96	4.2778	0.203
	19.00	451.8	268.7	129.02	4.1053	0.204
	20.00	452.2	269.1	129.07	3.9500	0.204
	21.00	452.6	269.5	129.10	3.8095	0.205
	22.00	452.9	269.8	129.14	3.6818	0.205
	23.00	453.2	270.1	129.16	3.5652	0.205
	24.00	453.5	270.4	129.19	3.4583	0.206
	25.00	453.9	270.8	129.21	3.3600	0.206
	26.00	454.0	270.9	129.22	3.2692	0.206
	27.00	454.3	271.2	129.24	3.1852	0.206
	28.00	454.6	271.5	129.25	3.1071	0.207
	29.00	454.9	271.8	129.26	3.0345	0.207
	30.00	455.1	272.0	129.26	2.9667	0.207
***** End Shut-in 2	31.00	455.4	272.3	129.26	2.9032	0.207
***** Final Hydro.	207.00	2040.4	0.0	129.34		

TEST HISTORY

9579 DST #3 Snider #1 Rheem Resources

Flag Points

t (Min.) P (PSig)

A: 0.00 2073.68
B: 0.00 21.23
C: 30.00 108.68
D: 30.00 457.48
E: 0.00 112.12
F: 29.00 183.12
G: 31.00 455.38
H: 0.00 2040.36

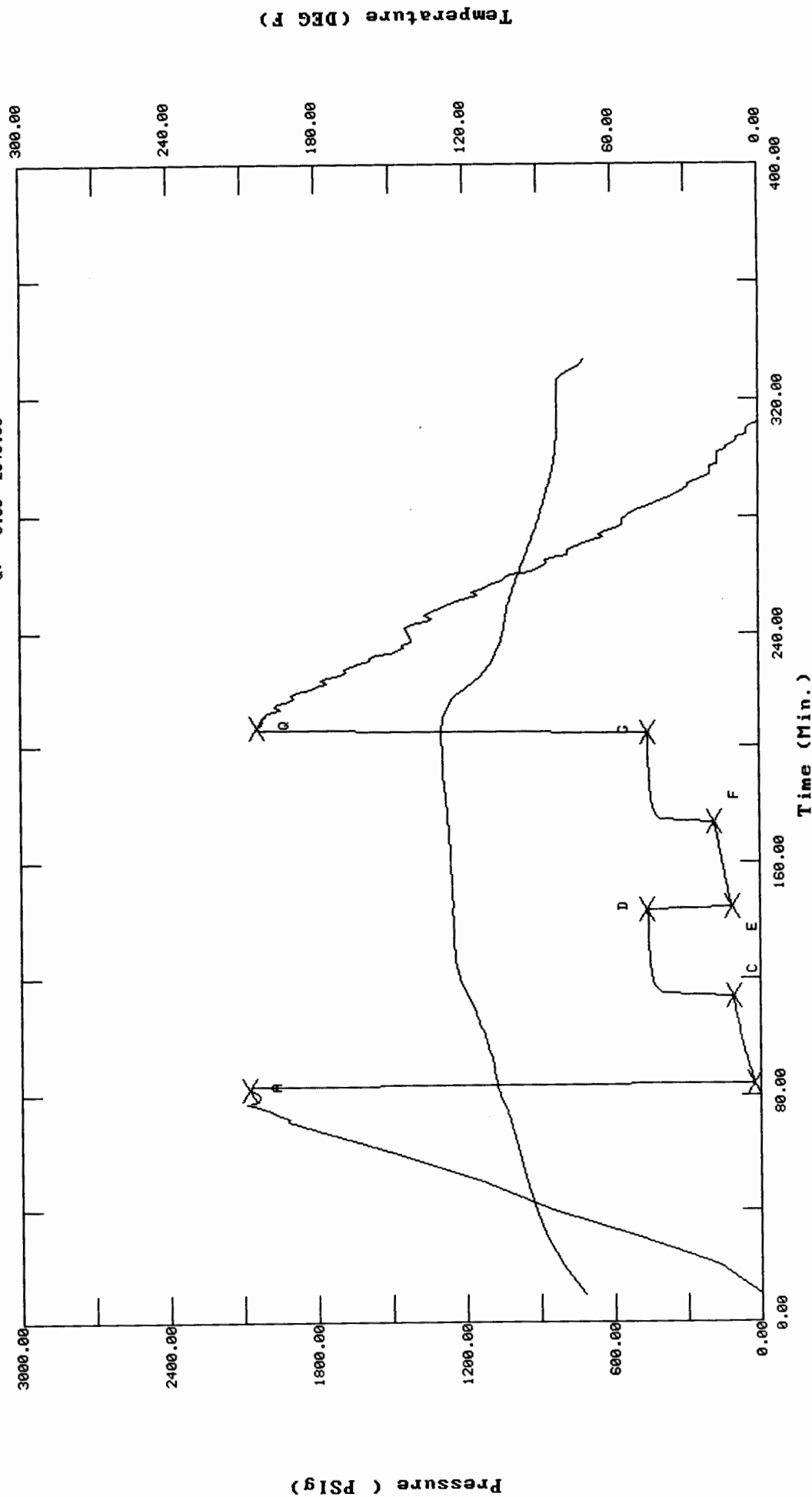
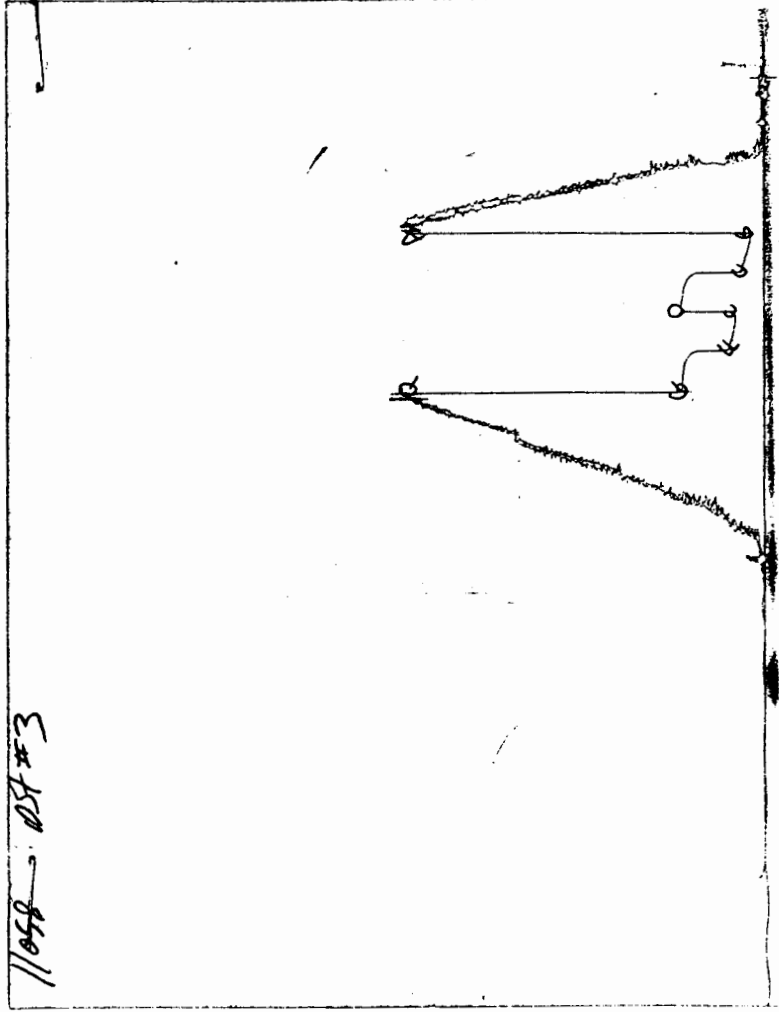


CHART PAGE



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 9579

Well Name & No. <u>Snyder #1</u>	Test No. <u>3</u>	Date <u>11-9-96</u>
Company <u>Rheem Resources</u>	Zone Tested <u>"K"</u>	
Address <u>100 S. main, Suite 505, Wichita, KS 67202</u>	Elevation <u>2829'</u> KB <u>2818'</u> GL	
Co. Rep / Geo. <u>K.S. Kennedy</u>	Cont. <u>Abercrombie #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>9</u> Twp. <u>17</u> Rge. <u>29</u> Co. <u>Lawrence</u> State <u>KS</u>		
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4226'</u>	<u>4245'</u>	Initial Str Wt./Lbs. <u>44,000</u>	Unseated Str Wt./Lbs. <u>47,000</u>
Anchor Length <u> </u>	<u>19'</u>	Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>53,000</u>
Top Packer Depth <u> </u>	<u>4221'</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth <u> </u>	<u>4226'</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u> </u>	<u>4245'</u>	Wt. Pipe Run <u>563'</u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.2</u> LCM <u>#1</u> Vis. <u>49</u> WL <u>8.0</u>		Drill Pipe Size <u>4 1/2 x 4</u>	Ft. Run <u>3648'</u>
Blow Description <u>1/8" in @ open built to 9" in.</u>			

I.S.I: No return
 F.F. Weak surface blow built to 4" in.
 F.S.I. No return

Recovery — Total Feet <u>360'</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>360'</u>
Rec. <u>60'</u> Feet Of <u>Watery Mud</u>	%gas <u>True</u> %oil <u> </u>	%water <u>35%</u>	%mud <u>65%</u>
Rec. <u>60'</u> Feet Of <u>slightly muddy water</u>	%gas <u> </u> %oil <u> </u>	%water <u>80%</u>	%mud <u>20%</u>
Rec. <u>240'</u> Feet Of <u>water</u>	%gas <u> </u> %oil <u> </u>	%water <u>100%</u>	%mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u>	%mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u>	%mud <u> </u>

BHT 129° °F Gravity °API D@ °F Corrected Gravity °API

RW 271 @ 69 °F Chlorides 24,300 ppm Recovery Chlorides 1,700 ppm System

(A) Initial Hydrostatic Mud <u>2098</u> <u>2073</u> PSI	Recorder No. <u>2342</u>	T-Started <u>10:40 AM</u>
(B) First Initial Flow Pressure <u>77</u> <u>21</u> PSI	(depth) <u>4227'</u>	T-Open <u>12:20 P.M.</u>
(C) First Final Flow Pressure <u>133</u> <u>108</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>2:20 P.M.</u>
(D) Initial Shut-in Pressure <u>478</u> <u>457</u> PSI	(depth) <u>4240'</u>	T-Out <u>4:45 P.M.</u>
(E) Second Initial Flow Pressure <u>164</u> <u>112</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>200</u> <u>183</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u>478</u> <u>455</u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud <u>2076</u> <u>2040</u> PSI	Initial Shut-in <u>30</u>	Jars <u> </u>

AK-1 Elec.

Final Flow 30 Safety Joint X 50
 Final Shut-in 30 Straddle

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 K.S. Kennedy
 Our Representative

Circ. Sub X N/C
 Sampler
 Extra Packer
 Elect. Rec. X 150
 Other
 TOTAL PRICE \$ 800

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources
WELL NAME: Snider #1
LOCATION : 9-17s-29w Lan KS
INTERVAL : 4471.00 To 4525.00 ft

DATE 11-10-96
KB 2823.00 ft TICKET NO: 9580 DST #4
GR 2818.00 ft FORMATION: Lower Cherokee
TD 4525.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11058	11058	2342			PF Fr. 2037 to 2107 hr
SI 30	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 2107 to 2137 hr
SF 30	Clock(hrs)	12	12	elec.			SF Fr. 2137 to 2207 hr
FS 30	Depth(ft)	4520.0	4520.0	4472.0	0.0	0.0	FS Fr. 2207 to 2237 hr

	Field	1	2	3	4	
A. Init Hydro	2278.0	2262.0	2240.0	0.0	0.0	T STARTED 1845 hr
B. First Flow	77.0	74.0	20.0	0.0	0.0	T ON BOTM 2034 hr
B1. Final Flow	66.0	74.0	23.0	0.0	0.0	T OPEN 2037 hr
C. In Shut-in	411.0	408.0	395.0	0.0	0.0	T PULLED 2237 hr
D. Init Flow	77.0	82.0	19.0	0.0	0.0	T OUT 0130 hr
E. Final Flow	66.0	73.0	20.0	0.0	0.0	
F. Fl Shut-in	144.0	143.0	120.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2255.0	2178.0	2169.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 63000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 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 3929.00 ft
						H.W. I.D 2.70 in
						H.W. Length 563.00 ft

RECOVERY

Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
20.00 ft of Drilling Mud
0.00 ft of
0.00 ft of
0.00 ft of
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 -
Weak surface blow - died in 14 min.

Initial Shut-in -
No return

Final Flow -
Bubble to open tool - no blow

Final Shut-in -
No return

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type	Chem
Weight	9.30 lb/c
Vis.	51.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	1190.00 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	Shane McBride
Co. Rep.	Kris Kennedy
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Snider #1

LOCATION : 7-19-29

TICKET No. 9580 D.S.T. No. 4 DATE 11-10-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 23

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 77

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands74 Single Total 4461

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4538

TOTAL DEPTH 4525

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

P.O. SUB	
C.O. SUB 1'	4449
S.I. TOOL 5'	4455
HMV 5'	4460
JARS n/a	
SAFETY JOINT 2'	4462
PACKER top	4466
PACKER bottom	4471
DEPTH 4471	
STUBB 1'	4472
ANCHOR alpine recorder	4472
15' perf	4487
1' c.o.	4488
T.C.	
DEPTH	
31' drillpipe	4519
1' c.o.	4520
ak-1 recorder	4520
BULLNOSE 5' bullplug	4525
T.D.	4525

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9580 DST #4 Snider #1 Rheem Resources

DATE: 11/10/96

TIME: 19:49:50

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	107.00	2240.5	0.0	109.70		
***** Start Flow 1	0.00	20.2	0.0	110.19		
	1.00	20.6	0.3	110.39		
	2.00	20.7	0.5	110.54		
	3.00	20.9	0.7	110.65		
	4.00	21.3	1.1	110.74		
	5.00	21.5	1.3	110.82		
	6.00	21.6	1.3	110.89		
	7.00	21.8	1.6	110.95		
	8.00	22.0	1.8	111.02		
	9.00	22.1	1.9	111.07		
	10.00	22.2	2.0	111.12		
	11.00	22.3	2.1	111.18		
	12.00	22.3	2.1	111.22		
	13.00	22.4	2.2	111.28		
	14.00	22.4	2.2	111.34		
	15.00	22.5	2.3	111.39		
	16.00	22.6	2.4	111.45		
	17.00	22.7	2.4	111.51		
	18.00	22.7	2.4	111.57		
	19.00	22.7	2.4	111.63		
	20.00	22.7	2.4	111.69		
	21.00	22.8	2.6	111.76		
	22.00	22.9	2.7	111.82		
	23.00	23.1	2.9	111.88		
	24.00	23.2	2.9	111.95		
	25.00	23.3	3.1	112.02		
	26.00	23.3	3.1	112.09		
	27.00	23.5	3.3	112.16		
	28.00	23.7	3.4	112.23		
	29.00	23.8	3.6	112.30		
***** End Flow 1	30.00	23.8	3.6	112.36		
***** Start Shutin 1	0.00	23.8	0.0	112.36	0.0000	0.001
	1.00	25.8	2.0	112.43	31.0000	0.001
	2.00	27.9	4.1	112.51	16.0000	0.001
	3.00	30.0	6.2	112.58	11.0000	0.001
	4.00	32.4	8.6	112.65	8.5000	0.001
	5.00	34.7	10.9	112.72	7.0000	0.001
	6.00	37.5	13.7	112.79	6.0000	0.001
	7.00	40.5	16.7	112.87	5.2857	0.002
	8.00	43.8	20.0	112.94	4.7500	0.002
	9.00	41.0	17.2	113.01	4.3333	0.002
	10.00	45.1	21.3	113.09	4.0000	0.002
	11.00	49.8	25.9	113.16	3.7273	0.002
	12.00	55.0	31.2	113.24	3.5000	0.003
	13.00	61.3	37.4	113.31	3.3077	0.004
	14.00	68.2	44.4	113.38	3.1429	0.005
	15.00	76.7	52.9	113.45	3.0000	0.006
	16.00	86.5	62.7	113.53	2.8750	0.007
	17.00	97.5	73.7	113.61	2.7647	0.01
	18.00	110.9	87.1	113.68	2.6667	0.012

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9580 DST #4 Snider #1 Rheem Resources

DATE: 11/10/96 TIME: 19:49:50

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	126.3	102.5	113.75	2.5789	0.016
	20.00	143.9	120.1	113.83	2.5000	0.021
	21.00	164.0	140.2	113.90	2.4286	0.027
	22.00	186.2	162.4	113.98	2.3636	0.035
	23.00	210.4	186.6	114.06	2.3043	0.044
	24.00	235.8	212.0	114.14	2.2500	0.056
	25.00	262.0	238.2	114.21	2.2000	0.069
	26.00	288.6	264.8	114.28	2.1538	0.083
	27.00	315.8	292.0	114.36	2.1111	0.10
	28.00	342.8	319.0	114.44	2.0714	0.118
	29.00	369.8	346.0	114.51	2.0345	0.137
***** End Shut-in 1	30.00	395.5	371.7	114.58	2.0000	0.156
***** Start Flow 2	0.00	19.0	0.0	114.64		
	1.00	19.1	0.1	114.71		
	2.00	19.2	0.2	114.78		
	3.00	19.4	0.3	114.84		
	4.00	19.5	0.4	114.92		
	5.00	19.5	0.5	114.98		
	6.00	19.7	0.7	115.04		
	7.00	19.9	0.8	115.11		
	8.00	19.9	0.8	115.17		
	9.00	19.9	0.8	115.23		
	10.00	19.9	0.8	115.30		
	11.00	20.0	0.9	115.36		
	12.00	20.0	0.9	115.43		
	13.00	20.1	1.0	115.48		
	14.00	20.1	1.0	115.54		
	15.00	20.1	1.1	115.61		
	16.00	20.1	1.1	115.67		
	17.00	20.2	1.2	115.73		
	18.00	20.2	1.2	115.78		
	19.00	20.3	1.3	115.84		
	20.00	20.4	1.3	115.90		
	21.00	20.4	1.3	115.95		
	22.00	20.4	1.3	116.01		
	23.00	20.5	1.4	116.07		
	24.00	20.6	1.6	116.14		
	25.00	20.6	1.6	116.19		
	26.00	20.8	1.8	116.25		
	27.00	20.8	1.8	116.31		
	28.00	20.8	1.8	116.36		
***** End Flow 2	29.00	20.7	1.7	116.42		
***** Start Shutin 2	0.00	20.7	0.0	116.42	0.0000	0.000
	1.00	21.4	0.7	116.47	60.0000	0.000
	2.00	22.7	1.9	116.53	30.5000	0.001
	3.00	23.9	3.2	116.58	20.6667	0.001
	4.00	25.2	4.4	116.64	15.7500	0.001
	5.00	26.5	5.8	116.70	12.8000	0.001
	6.00	28.1	7.4	116.75	10.8333	0.001
	7.00	29.6	8.9	116.80	9.4286	0.001
	8.00	31.1	10.4	116.86	8.3750	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9580 DST #4 Snider #1 Rheem Resources

DATE: 11/10/96

TIME: 19:49:50

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	9.00	32.6	11.9	116.91	7.5556	0.001
	10.00	34.2	13.4	116.96	6.9000	0.001
	11.00	35.9	15.2	117.02	6.3636	0.001
	12.00	37.6	16.9	117.06	5.9167	0.001
	13.00	39.3	18.5	117.13	5.5385	0.002
	14.00	41.2	20.5	117.18	5.2143	0.002
	15.00	43.1	22.4	117.23	4.9333	0.002
	16.00	45.3	24.6	117.28	4.6875	0.002
	17.00	47.5	26.8	117.33	4.4706	0.002
	18.00	49.8	29.1	117.39	4.2778	0.002
	19.00	52.4	31.6	117.43	4.1053	0.003
	20.00	55.0	34.2	117.48	3.9500	0.003
	21.00	57.9	37.2	117.54	3.8095	0.003
	22.00	60.8	40.1	117.59	3.6818	0.004
	23.00	64.0	43.3	117.63	3.5652	0.004
	24.00	67.3	46.6	117.69	3.4583	0.005
	25.00	71.1	50.4	117.73	3.3600	0.005
	26.00	75.1	54.4	117.79	3.2692	0.006
	27.00	79.3	58.6	117.84	3.1852	0.006
	28.00	83.9	63.2	117.88	3.1071	0.007
	29.00	89.0	68.2	117.93	3.0345	0.008
	30.00	94.3	73.6	117.98	2.9667	0.009
	31.00	100.0	79.3	118.03	2.9032	0.010
	32.00	106.2	85.5	118.08	2.8438	0.011
	33.00	113.0	92.3	118.12	2.7879	0.013
***** End Shut-in 2	34.00	120.2	99.5	118.17	2.7353	0.014
***** Final Hydro.	235.00	2169.5	0.0	118.56		

TEST HISTORY

9580 DST #4 Snider #1 Rheem Resources

Flag Points

t (Min.) P (PSIg)

A: 0.00 2240.53
 B: 0.00 20.22
 C: 30.00 23.83
 D: 30.00 395.54
 E: 0.00 19.84
 F: 29.00 20.72
 G: 34.00 120.18
 Q: 0.00 2169.53

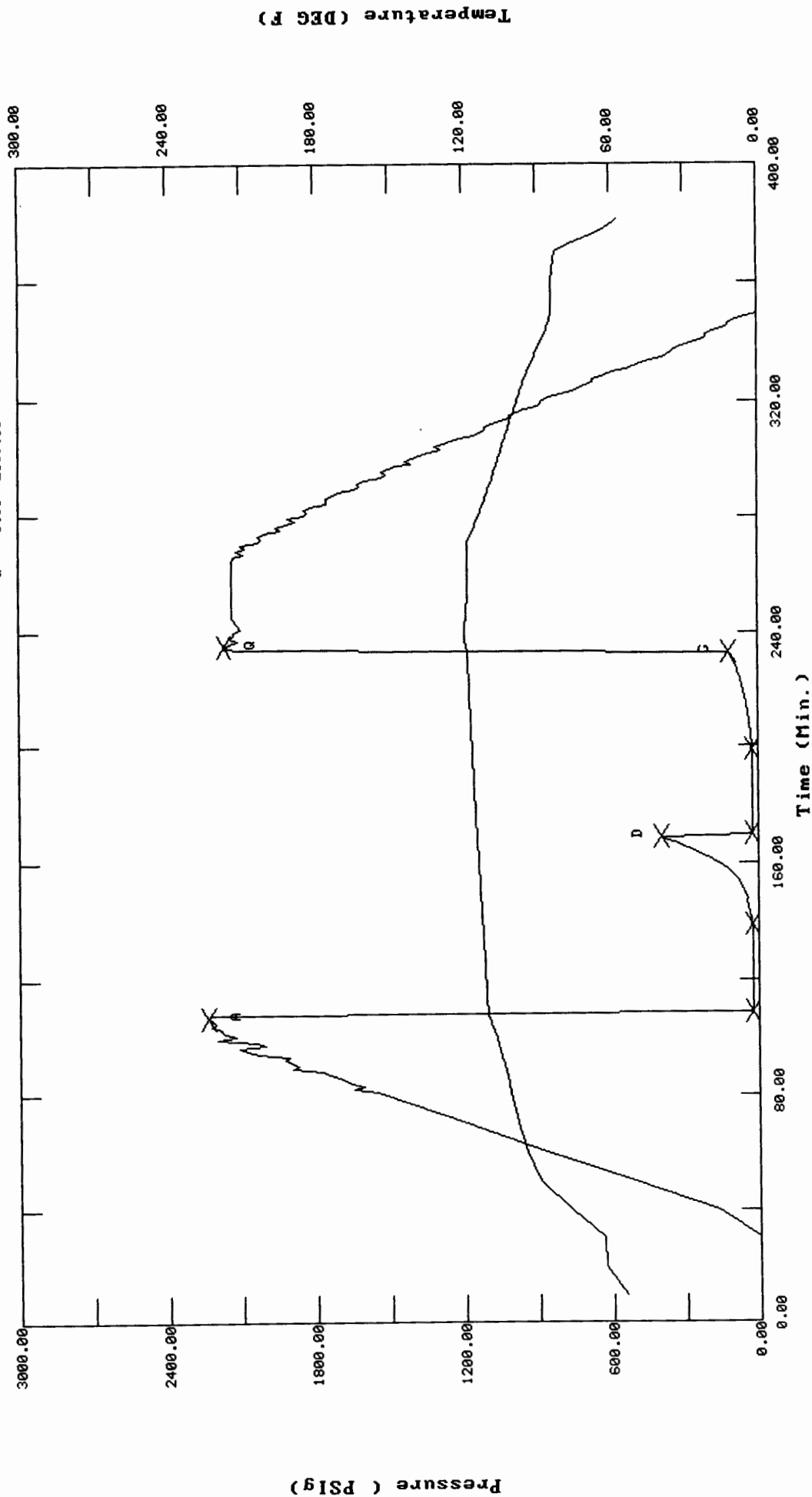
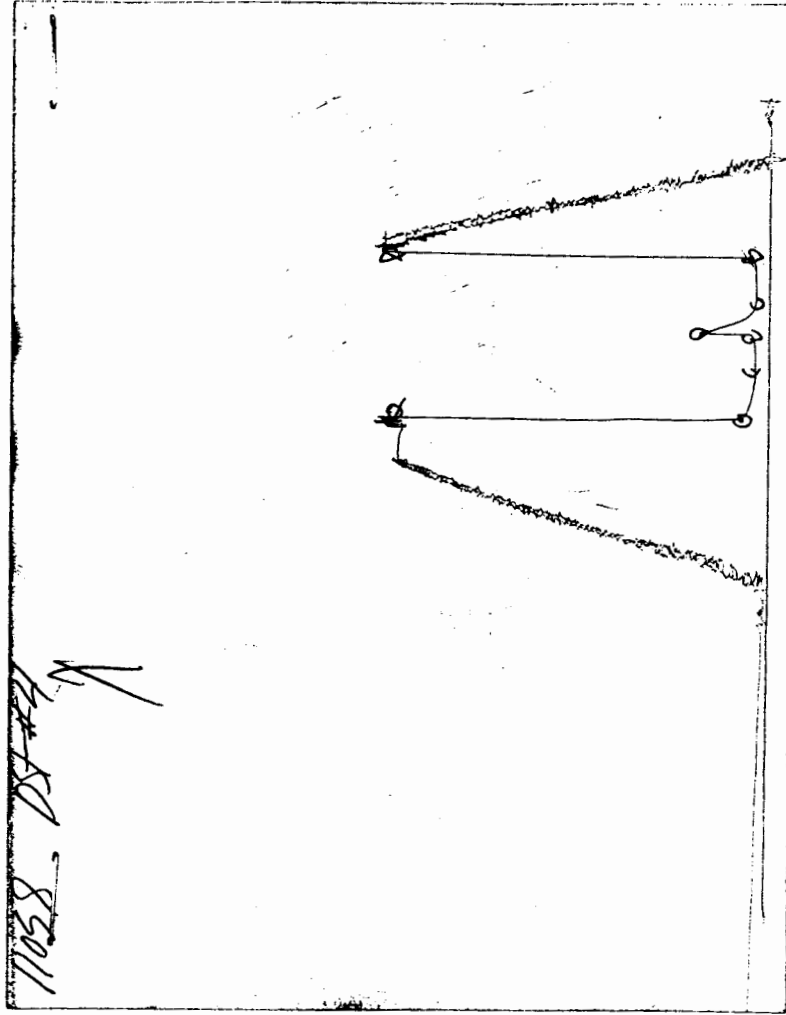


CHART PAGE



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 9580

Well Name & No. <u>Swider #1</u>	Test No. <u>4</u>	Date <u>11-10-96</u>
Company <u>Rheem Resources</u>	Zone Tested <u>Lower Cherokee</u>	
Address <u>100 S. main, Suite 505, Wichita, Ks, 67202</u>	Elevation <u>2823'</u> KB <u>2818'</u> GL	
Co. Rep / Geo. <u>Kris Kennedy</u>	Cont. <u>Abercrombie</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>9</u>	Twp. <u>19</u>	Rge. <u>29</u> Co. <u>Lane</u> State <u>Ks</u>
No. of Copies <u>None</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4471' - 4525'</u>	Initial Str Wt./Lbs. <u>5400</u>	Unseated Str Wt./Lbs. <u>54000</u>
Anchor Length <u>54'</u>	Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>63,000</u>
Top Packer Depth <u>4466'</u>	Tool Weight <u>4000</u>	
Bottom Packer Depth <u>4471'</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>4525'</u>	Wt. Pipe Run <u>563'</u>	Drill Collar Run <u>—</u>
Mud Wt. <u>9.3</u> LCM <u>#1</u> Vis. <u>51</u> WL <u>2.0</u>	Drill Pipe Size <u>4 1/2 X #</u>	Ft. Run <u>3929'</u>
Blow Description <u>Weak Surface blow died in 14 min.</u>		

ISF! No return
FF! Bubble to open tool - No Blow
FSI! No return

Recovery — Total Feet <u>20'</u>	GIP <u>—</u>	Ft. in DC <u>—</u>	Ft. in DP <u>20'</u>
Rec. <u>20'</u>	Feet Of <u>Only mud</u>	%gas <u>50%</u>	%oil <u>100%</u>
Rec. _____	Feet Of _____	%gas _____	%oil _____
Rec. _____	Feet Of _____	%gas _____	%oil _____
Rec. _____	Feet Of _____	%gas _____	%oil _____
Rec. _____	Feet Of _____	%gas _____	%oil _____

BHT 119° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4700 ppm System

(A) Initial Hydrostatic Mud <u>2278</u> <u>2240</u> PSI	Recorder No. <u>2342</u>	T-Started <u>18:45 P.m.</u>
(B) First Initial Flow Pressure <u>77</u> <u>20</u> PSI	(depth) <u>4472'</u>	T-Open <u>20:37 P.m.</u>
(C) First Final Flow Pressure <u>66</u> <u>23</u> PSI	Recorder No. <u>110589</u>	T-Pulled <u>22:37 P.m.</u>
(D) Initial Shut-in Pressure <u>411</u> <u>395</u> PSI	(depth) <u>4520'</u>	T-Out <u>01:30 A.m.</u>
(E) Second Initial Flow Pressure <u>77</u> <u>19</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>66</u> <u>20</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>144</u> <u>120</u> PSI	Initial Opening <u>30</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>2255</u> <u>2169</u> PSI	Initial Shut-in <u>30</u>	Jars _____
<u>AK-1</u> Elec.	Final Flow <u>30</u>	Safety Joint <u>X</u> <u>50</u>
	Final Shut-in <u>30</u>	Straddle _____
		Circ. Sub <u>X</u> <u>N/C</u>
		Sampler _____
		Extra Packer _____
		Elect. Rec. <u>X</u> <u>150</u>
		Other _____
		TOTAL PRICE \$ <u>800</u>

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

[Signature]
[Signature]

TRILOBITE TESTING L.L.C.

OPERATOR : Rheem Resources

DATE 11-11-96

WELL NAME: Snider #1

KB 2823.00 ft

TICKET NO: 9581

DST #5

LOCATION : 9-17s-29w Lane KS

GR 2818.00 ft

FORMATION: Johnson

INTERVAL : 4524.00 To 4556.00 ft

TD 4556.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11057	11057	23427			PF Fr. 1039 to 1124 hr
SI 45 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1124 to 1209 hr
SF 45 Clock(hrs)	12	12	elec.			SF Fr. 1209 to 1254 hr
FS 45 Depth(ft)	4551.0	4551.0	4525.0	0.0	0.0	FS Fr. 1254 to 1339 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	2282.0	2283.0	0.0	0.0	T STARTED 0905 hr
B. First Flow	0.0	35.0	19.0	0.0	0.0	T ON BOTM 1036 hr
B1. Final Flow	0.0	43.0	32.0	0.0	0.0	T OPEN 1039 hr
C. In Shut-in	0.0	1012.0	1037.0	0.0	0.0	T PULLED 1339 hr
D. Init Flow	0.0	55.0	37.0	0.0	0.0	T OUT 1600 hr
E. Final Flow	0.0	62.0	52.0	0.0	0.0	
F. Fl Shut-in	0.0	960.0	993.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	2207.0	2223.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 62000.00 lbs
						Initial Str Wt 51000.00 lbs
						Unseated Str Wt 51000.00 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 3960.00 ft
						H.W. I.D 2.70 in
						H.W. Length 563.00 ft

RECOVERY

Tot Fluid 90.00 ft of 0.00 ft in DC and 90.00 ft in DP
 30.00 ft of slightly gassy oil cut mud 5%g 5%o 90%m
 60.00 ft of slightly oil cut mud 8%oil 92% mud
 0.00 ft of
 0.00 ft of
 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 -
 1/8" at open - built to 1-1/4" - died
 back to 3/4"

Initial Shut-in -
 No return

Final Flow -
 Weak Surface blow - built to 1/4"

Final Shut-in -
 No return

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chem
Weight	9.50 lb/c
Vis.	45.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Kris Kennedy
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Snider #1

LOCATION : 9-17s-29w Lane KS

TICKET No. 9581 D.S.T. No. 5 DATE 11-11-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 23

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 32

TOTAL TOOL 55

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 55

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands74 Single Total 4523

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4578

TOTAL DEPTH 4556

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

P.O. SUB	
C.O. SUB 1'	4502
S.I. TOOL 5'	4508
HMV 5'	4513
JARS n/a	
SAFETY JOINT 2'	4515
PACKER top	4519
PACKER bottom	4524
DEPTH 4524	
STUBB 1'	4525
ANCHOR alpine recorder	4525
26' perf	4551
T.C.	
DEPTH	
ak-1 recorder	4551
BULLNOSE 5' bullplug	4556
T.D.	4556

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9581 DST #5 Snider #1 Rheem Resources

DATE: 11/11/96

TIME: 10:08:20

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	90.00	2283.2	0.0	109.49		
***** Start Flow 1	0.00	20.0	0.0	110.29		
	1.00	19.6	-0.3	110.60		
	2.00	20.3	0.3	110.84		
	3.00	21.4	1.4	111.01		
	4.00	22.2	2.3	111.15		
	5.00	23.1	3.1	111.25		
	6.00	24.0	4.0	111.33		
	7.00	24.7	4.7	111.40		
	8.00	24.9	5.0	111.45		
	9.00	25.3	5.3	111.48		
	10.00	25.7	5.7	111.51		
	11.00	26.3	6.3	111.54		
	12.00	26.8	6.8	111.56		
	13.00	27.2	7.2	111.58		
	14.00	27.7	7.7	111.59		
	15.00	28.0	8.1	111.61		
	16.00	28.5	8.6	111.63		
	17.00	28.9	8.9	111.65		
	18.00	29.4	9.4	111.66		
	19.00	29.9	9.9	111.69		
	20.00	30.3	10.3	111.73		
	21.00	30.6	10.7	111.75		
	22.00	31.0	11.1	111.79		
	23.00	31.5	11.6	111.82		
	24.00	31.6	11.7	111.86		
	25.00	32.2	12.3	111.90		
	26.00	32.7	12.8	111.94		
	27.00	33.0	13.0	111.99		
	28.00	33.4	13.4	112.04		
	29.00	33.6	13.6	112.09		
	30.00	34.1	14.1	112.13		
	31.00	34.4	14.4	112.19		
	32.00	34.8	14.9	112.25		
	33.00	35.2	15.3	112.31		
	34.00	35.7	15.7	112.37		
	35.00	36.2	16.2	112.43		
	36.00	36.2	16.3	112.49		
	37.00	36.8	16.8	112.56		
	38.00	37.1	17.1	112.62		
	39.00	37.5	17.5	112.69		
	40.00	37.9	18.0	112.76		
	41.00	38.0	18.0	112.83		
	42.00	38.4	18.5	112.90		
	43.00	38.8	18.9	112.97		
	44.00	32.6	12.6	113.04		
***** End Flow 1	45.00	32.8	12.8	113.11		
***** Start Shutin 1	0.00	32.8	0.0	113.11	0.0000	0.001
	1.00	37.2	4.4	113.17	46.0000	0.001
	2.00	42.7	9.9	113.25	23.5000	0.002
	3.00	49.2	16.4	113.36	16.0000	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9581 DST #5 Snider #1 Rheem Resources

DATE: 11/11/96 TIME: 10:08:20

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
4.00	56.7	23.9	113.47	12.2500	0.003
5.00	65.8	33.0	113.58	10.0000	0.004
6.00	76.6	43.8	113.68	8.5000	0.006
7.00	90.0	57.2	113.80	7.4286	0.008
8.00	107.1	74.3	113.91	6.6250	0.011
9.00	129.5	96.7	114.01	6.0000	0.017
10.00	159.2	126.4	114.11	5.5000	0.025
11.00	199.7	166.9	114.21	5.0909	0.040
12.00	255.6	222.8	114.32	4.7500	0.065
13.00	330.2	297.4	114.41	4.4615	0.109
14.00	420.9	388.1	114.51	4.2143	0.177
15.00	516.7	483.9	114.61	4.0000	0.267
16.00	604.6	571.8	114.71	3.8125	0.366
17.00	677.8	645.0	114.81	3.6471	0.459
18.00	735.5	702.7	114.91	3.5000	0.541
19.00	780.9	748.0	115.00	3.3684	0.610
20.00	816.7	783.9	115.09	3.2500	0.667
21.00	845.6	812.8	115.19	3.1429	0.715
22.00	869.3	836.5	115.26	3.0455	0.756
23.00	889.0	856.2	115.36	2.9565	0.790
24.00	905.8	873.0	115.44	2.8750	0.821
25.00	920.3	887.5	115.51	2.8000	0.847
26.00	932.9	900.1	115.60	2.7308	0.870
27.00	944.3	911.5	115.67	2.6667	0.892
28.00	954.1	921.3	115.74	2.6071	0.910
29.00	963.1	930.3	115.81	2.5517	0.927
30.00	971.0	938.2	115.89	2.5000	0.943
31.00	978.4	945.6	115.96	2.4516	0.957
32.00	985.1	952.3	116.02	2.4062	0.970
33.00	991.3	958.5	116.09	2.3636	0.983
34.00	997.1	964.2	116.15	2.3235	0.994
35.00	1002.3	969.5	116.23	2.2857	1.005
36.00	1007.2	974.4	116.28	2.2500	1.014
37.00	1011.8	979.0	116.34	2.2162	1.024
38.00	1016.2	983.4	116.41	2.1842	1.033
39.00	1020.2	987.4	116.46	2.1538	1.041
40.00	1024.0	991.2	116.52	2.1250	1.049
41.00	1027.6	994.8	116.58	2.0976	1.056
42.00	1031.0	998.2	116.64	2.0714	1.063
43.00	1034.4	1001.6	116.70	2.0465	1.070
44.00	1037.5	1004.7	116.76	2.0227	1.076
***** End Shut-in 1					
***** Start Flow 2					
0.00	37.0	0.0	116.81		
1.00	37.4	0.4	116.87		
2.00	38.7	1.7	116.94		
3.00	38.7	1.7	117.02		
4.00	39.7	2.7	117.11		
5.00	39.3	2.3	117.20		
6.00	40.8	3.8	117.29		
7.00	41.3	4.3	117.37		
8.00	40.9	3.9	117.45		
9.00	41.5	4.4	117.53		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9581 DST #5 Snider #1 Rheem Resources

DATE: 11/11/96 TIME: 10:08:20

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	10.00	42.0	5.0	117.60		
	11.00	42.0	5.0	117.67		
	12.00	42.5	5.5	117.74		
	13.00	43.0	6.0	117.81		
	14.00	43.4	6.4	117.87		
	15.00	43.6	6.6	117.93		
	16.00	44.0	7.0	118.00		
	17.00	44.2	7.2	118.05		
	18.00	44.5	7.5	118.12		
	19.00	45.0	8.0	118.17		
	20.00	45.6	8.6	118.23		
	21.00	45.5	8.5	118.28		
	22.00	46.2	9.1	118.34		
	23.00	46.1	9.1	118.39		
	24.00	46.8	9.8	118.45		
	25.00	47.1	10.1	118.51		
	26.00	47.4	10.4	118.56		
	27.00	48.0	11.0	118.61		
	28.00	47.9	10.9	118.66		
	29.00	48.8	11.7	118.71		
	30.00	48.4	11.4	118.76		
	31.00	49.3	12.3	118.82		
	32.00	49.2	12.2	118.87		
	33.00	49.9	12.9	118.93		
	34.00	49.7	12.7	118.98		
	35.00	50.3	13.3	119.03		
	36.00	50.4	13.4	119.08		
	37.00	50.9	13.9	119.13		
	38.00	50.9	13.9	119.18		
	39.00	51.4	14.4	119.23		
	40.00	51.5	14.5	119.29		
	41.00	51.9	14.9	119.33		
	42.00	52.3	15.3	119.38		
	43.00	52.1	15.1	119.43		
***** End Flow 2	44.00	52.9	15.9	119.49		
***** Start Shutin 2	0.00	52.9	0.0	119.49	0.0000	0.003
	1.00	58.1	5.1	119.53	90.0000	0.003
	2.00	64.9	11.9	119.59	45.5000	0.004
	3.00	72.7	19.7	119.64	30.6667	0.005
	4.00	81.7	28.7	119.70	23.2500	0.007
	5.00	92.1	39.2	119.73	18.8000	0.008
	6.00	104.6	51.7	119.80	15.8333	0.011
	7.00	119.8	66.8	119.86	13.7143	0.014
	8.00	138.2	85.3	119.91	12.1250	0.019
	9.00	161.0	108.1	119.96	10.8889	0.026
	10.00	189.6	136.6	120.01	9.9000	0.036
	11.00	225.9	173.0	120.06	9.0909	0.051
	12.00	272.1	219.1	120.13	8.4167	0.074
	13.00	329.1	276.1	120.19	7.8462	0.108
	14.00	395.9	342.9	120.25	7.3571	0.157
	15.00	468.5	415.5	120.31	6.9333	0.219

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9581 DST #5 Snider #1 Rheem Resources

DATE: 11/11/96 TIME: 10:08:20

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
16.00	540.2	487.3	120.38	6.5625	0.292
17.00	605.8	552.8	120.45	6.2353	0.367
18.00	662.0	609.1	120.50	5.9444	0.438
19.00	708.8	655.9	120.57	5.6842	0.502
20.00	747.5	694.5	120.63	5.4500	0.559
21.00	779.1	726.1	120.70	5.2381	0.607
22.00	805.4	752.4	120.76	5.0455	0.649
23.00	827.4	774.4	120.82	4.8696	0.685
24.00	846.0	793.0	120.88	4.7083	0.716
25.00	861.9	809.0	120.94	4.5600	0.743
26.00	875.9	823.0	120.99	4.4231	0.767
27.00	888.3	835.3	121.04	4.2963	0.789
28.00	899.1	846.2	121.09	4.1786	0.808
29.00	908.8	855.9	121.14	4.0690	0.826
30.00	917.6	864.6	121.20	3.9667	0.842
31.00	925.6	872.7	121.24	3.8710	0.857
32.00	933.0	880.1	121.28	3.7812	0.871
33.00	939.6	886.7	121.32	3.6970	0.883
34.00	945.9	892.9	121.37	3.6176	0.895
35.00	951.6	898.7	121.42	3.5429	0.906
36.00	957.0	904.1	121.46	3.4722	0.916
37.00	962.0	909.0	121.50	3.4054	0.925
38.00	966.7	913.7	121.54	3.3421	0.934
39.00	971.1	918.2	121.58	3.2821	0.943
40.00	975.3	922.4	121.62	3.2250	0.951
41.00	979.3	926.4	121.66	3.1707	0.959
42.00	983.0	930.1	121.69	3.1190	0.966
43.00	986.6	933.7	121.73	3.0698	0.973
44.00	990.2	937.2	121.76	3.0227	0.980
45.00	993.4	940.4	121.81	2.9778	0.987

***** End Shut-in 2

***** Final Hydro. 274.00 2223.7 0.0 122.03

TEST HISTORY

9581 DST #5 Snider #1 Rheem Resources

Flag Points

t (Min.) P (PSIg)

A: 0.00 2283.25
B: 0.00 19.97
C: 45.00 32.81
D: 44.00 1037.51
E: 0.00 37.00
F: 44.00 52.95
G: 45.00 993.36
Q: 0.00 2223.66

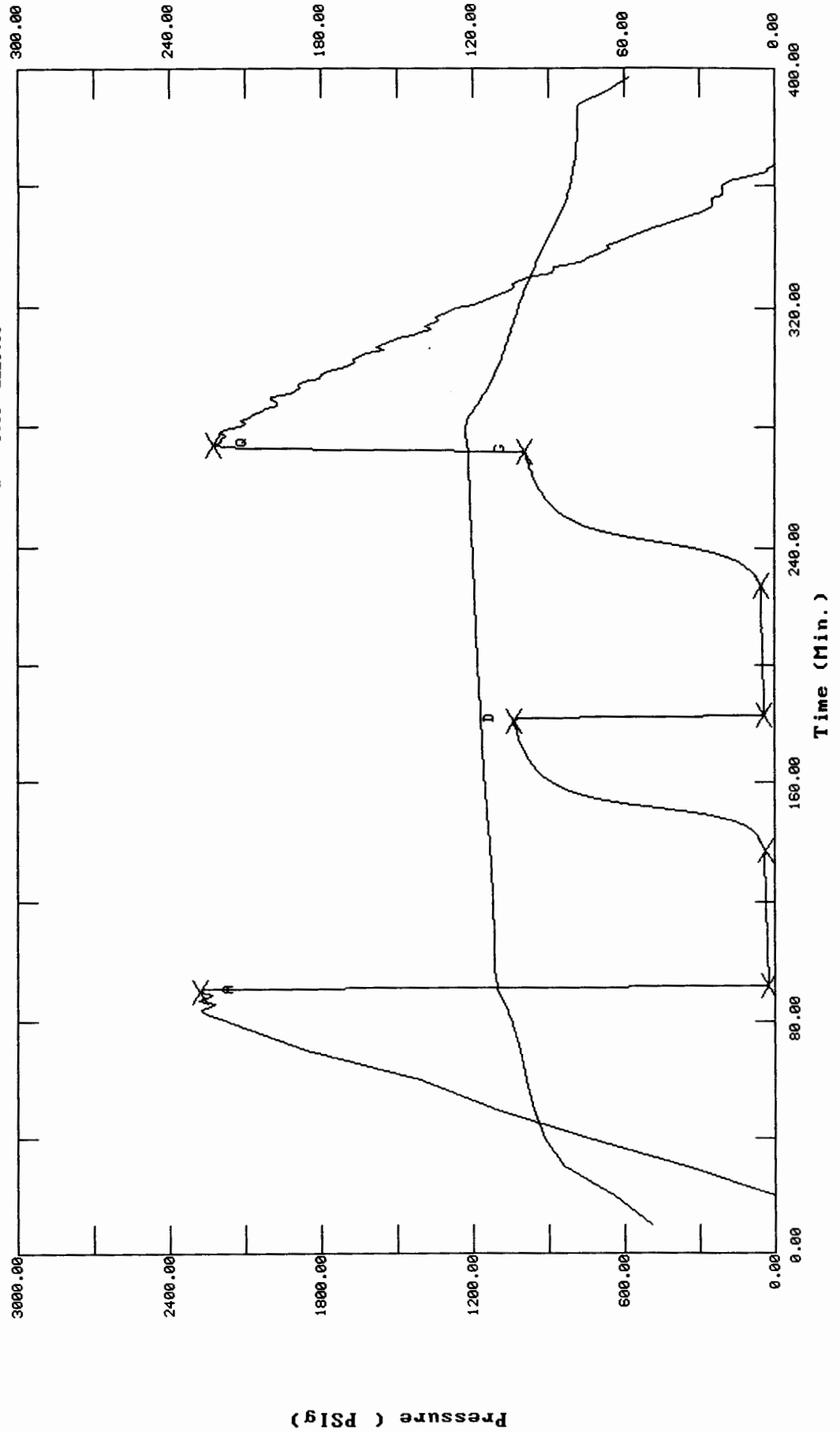
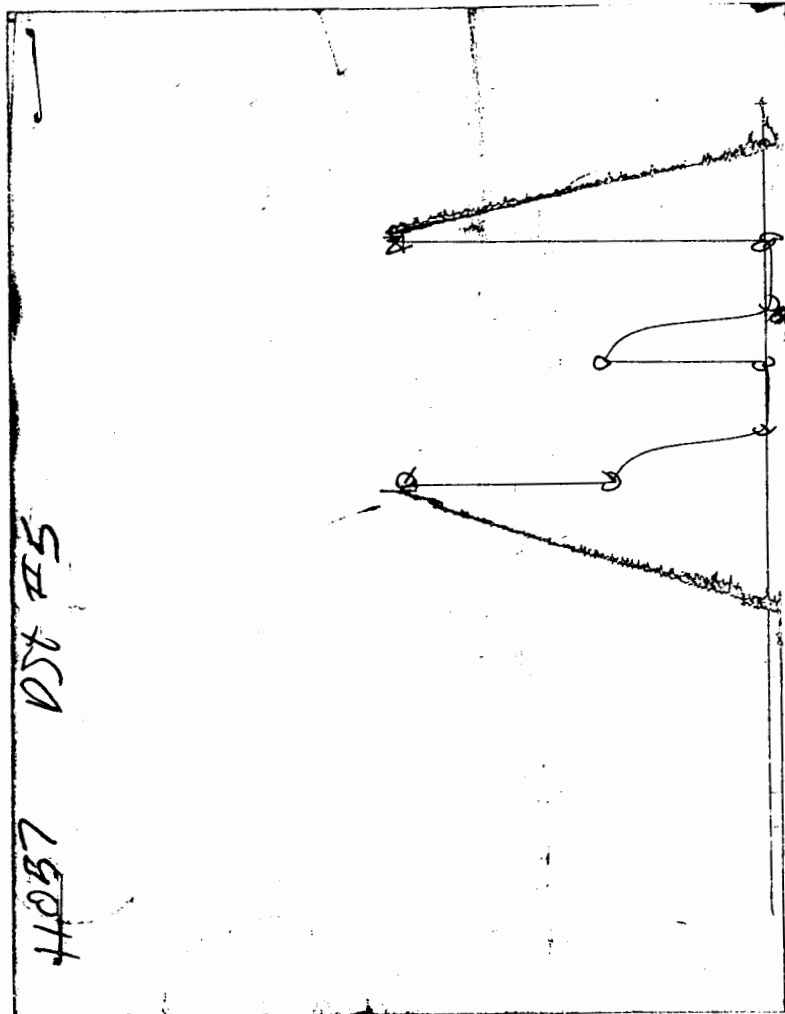


CHART PAGE



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 9581

Well Name & No. <u>Switzer #1</u>	Test No. <u>5</u>	Date <u>11-11-94</u>
Company <u>Rheem Resources</u>	Zone Tested <u>Johnson</u>	
Address <u>100 S. Main Suite 505, Wichita, KS 67202</u>	Elevation <u>2823'</u> KB <u>2818'</u> GL	
Co. Rep / Geo. <u>Kris Kennedy</u>	Cont. <u>Pharombie #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>9</u> Twp. <u>19</u> Rge. <u>29</u> Co. <u>Lawe</u> State <u>KS</u>		
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4524'</u>	<u>4556</u>	Initial Str Wt./Lbs. <u>51,000</u>	Unseated Str Wt./Lbs. <u>51,000</u>
Anchor Length <u>32'</u>		Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>62,000</u>
Top Packer Depth <u>4519'</u>		Tool Weight <u>4,000</u>	
Bottom Packer Depth <u>4524'</u>		Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>4556</u>		Wt. Pipe Run <u> </u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.5</u> LCM <u>#1</u> Vis. <u>45</u> WL <u>8.0</u>		Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>3960'</u>
Blow Description <u>1/8" in @ open built to 1/4" in died back to 3/4" in.</u>			

ISI: No return

FF: Weak surface blow built to 1/4" in

FSI: No return

Recovery — Total Feet <u>90'</u>	GIP <u>30'</u>	Ft. in DC <u> </u>	Ft. in DP <u>90'</u>
Rec. <u>30'</u>	Feet Of <u>slightly gassy oil cut mud</u>	5 % gas	5 % oil
Rec. <u>60'</u>	Feet Of <u>slightly oil cut mud</u>	% gas	8 % oil
Rec. <u> </u>	Feet Of <u> </u>	% gas	% oil
Rec. <u> </u>	Feet Of <u> </u>	% gas	% oil
Rec. <u> </u>	Feet Of <u> </u>	% gas	% oil

BHT °F Gravity °API D@ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud <u>2283</u> PSI	Recorder No. <u>2342</u>	T-Started <u>09:05 A.M.</u>
(B) First Initial Flow Pressure <u>19</u> PSI	(depth) <u>4525'</u>	T-Open <u>10:39 A.M.</u>
(C) First Final Flow Pressure <u>32</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>13:39 P.M.</u>
(D) Initial Shut-in Pressure <u>1037</u> PSI	(depth) <u>4551'</u>	T-Out <u>16:00 P.M.</u>
(E) Second Initial Flow Pressure <u>37</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>52</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u>993</u> PSI	Initial Opening <u>45</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud <u>2223</u> PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
<u>AK-1</u> Elec.	Final Flow <u>45</u>	Safety Joint <u>X</u> <u>50</u>
	Final Shut-in <u>45</u>	Straddle <u> </u>
		Circ. Sub <u>X</u> <u>N/C</u>
		Sampler <u> </u>
		Extra Packer <u> </u>
		Elect. Rec <u>X</u> <u>150</u>
		Other <u> </u>
		TOTAL PRICE \$ <u>800</u>

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Approved By

Our Representative

[Signature]
[Signature]