

Computer inventoried

WELL NAME: Dale Solomon #28-1
COMPANY: Hal C. Porter
LOCATION: 28-11s-19w
Ellis County, Kansas
DATE: 7/17/98

ORIGINAL

15-051-24990

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Hal C. Porter
 WELL NAME: Dale Solomon #28-1
 LOCATION : 28-11S-19W Ellis co KS
 INTERVAL : 3258.00 To 3310.00 ft

DATE 7-14-98
 KB 2042.00 ft
 GR 2034.00 ft
 TD 3310.00 ft

TICKET NO: 11113
 DST #1
 FORMATION: Lans/KC
 TEST TYPE: CONVENTIONAL

SCORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
30	Rec.	13339	13339	3024		PF Fr. 1825 to 1855 hr
30	Range(Psi)	4025.0	4025.0	4995.0	0.0	IS Fr. 1855 to 1925 hr
30	Clock(hrs)	12 HR	12	ALP		SF Fr. 1925 to 1955 hr
30	Depth(ft)	3305.0	3305.0	3260.0	0.0	FS Fr. 1955 to 2025 hr

	Field	1	2	3	4	
Init Hydro	1582.0	1531.0	0.0	0.0	0.0	T STARTED 1706 hr
First Flow	41.0	50.0	0.0	0.0	0.0	T ON BOTM 1823 hr
Final Flow	62.0	56.0	0.0	0.0	0.0	T OPEN 1825 hr
In Shut-in	759.0	768.0	0.0	0.0	0.0	T PULLED 2025 hr
Init Flow	76.0	74.0	0.0	0.0	0.0	T OUT 2200 hr
Final Flow	76.0	74.0	0.0	0.0	0.0	
Fl Shut-in	739.0	744.0	0.0	0.0	0.0	
Final Hydro	1552.0	1531.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

ECOVERY

ot Fluid 150.00 ft of 30.00 ft in DC and 120.00 ft in DP

50.00 ft of Watery Mud 30%wtr 70%mud

.00 ft of w/oil stain @ top

.00 ft of

.00 ft of

.00 ft of

.00 ft of

.00 ft of

.00 ft of RW .24 @ 70 deg =

ALINITY 30000.00 P.P.M. A.P.I. Gravity 0.00

LOW DESCRIPTION

nitial Flow:

Weak surface blow died in 2 mins.

inal Flow:

No return blow

TOOL DATA-----

Tool Wt.	1800.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	40000.00 lbs
Initial Str Wt	30000.00 lbs
Unseated Str Wt	30000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	3223.00 ft

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	45.00 S/L
W.L.	8.80 in3
F.C.	0.00 in

Mud Drop N

Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 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 Rod Steinbrink
 Co. Rep. Hal P./Randy K.
 Contr. Discovery
 Rig # 1
 Unit #
 Pump T.

AMPLES:

ENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

ELL NAME: Dale Solomon #28-1

LOCATION : 28-11S-19W Ellis co KS

TICKET No. 11113 D.S.T. No. 1 DATE 7-14-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 25

INTERVAL TOOL 21

OTTOM PACKERS AND ANCHOR

TOTAL TOOL 46

RILL COLLAR ANCHOR IN INTERVAL

.C. ANCHOR STND.	Stands	Single	Total
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.P. ANCHOR STND.Stands	Single 1	Total 31
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TOTAL ASSEMBLY 78

.C. ABOVE TOOLS.Stands	Single 1	Total 30
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.P. ABOVE TOOLS.Stands52 Single Total 3223

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3330

TOTAL DEPTH 3310

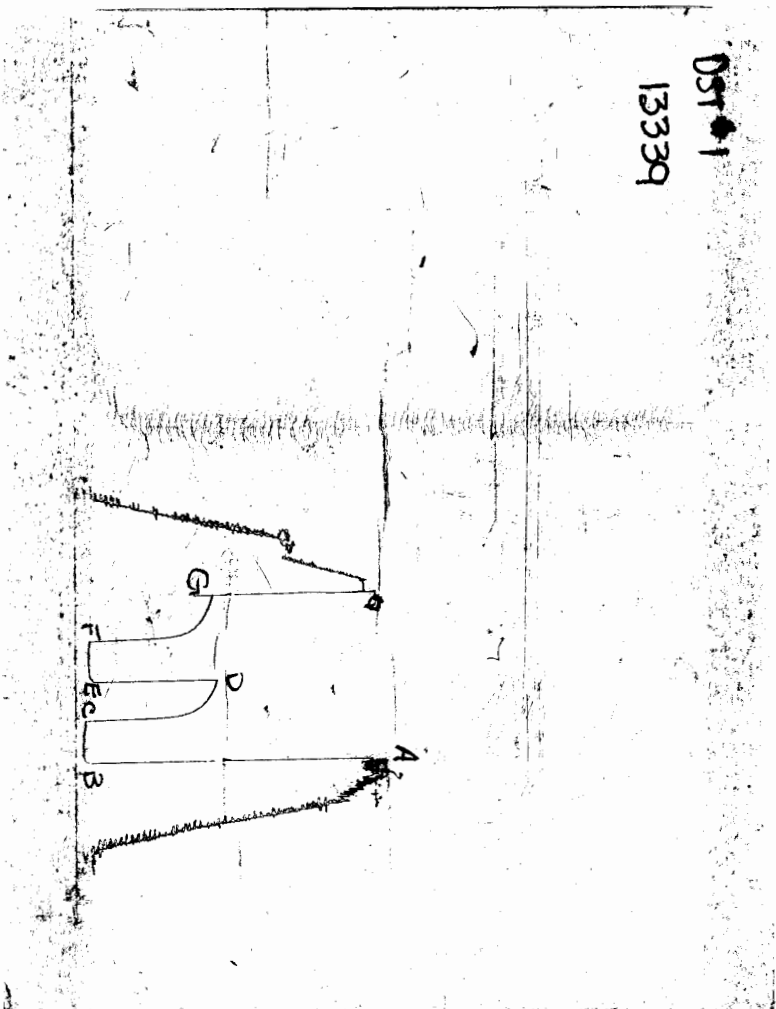
TOTAL DRILL PIPE ABOVE K.B. 20

EMARKS :

P.O. SUB 1' Above 120'	3113
C.O. SUB 1'	3233
S.I. TOOL 5'	3239
HMV 5'	3244
JARS 5'	3249
SAFETY JOINT n/a	
PACKER 4'	3253
PACKER 5'	3258
DEPTH	
STUBB 1'	3259
ANCHOR	
Alp. Rec. @	3260
13' Perf	3272
1' c/o sub	3273
31' DP	3304
1' c/o sub	3305
T.C.	
DEPTH	
AK-1 rec. @	3305
BULLNOSE 5'	
T.D.	3310

CHART PAGE

OST 1
13339



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 11113

Well Name & No. Dale Solomon #28-1 Test No. 1 Date 7.14.98
Company Hal C. Porter Zone Tested Lans/KC.
Address 10004 W. 20th St N. Wichita, KS. 67212 Elevation 2042 KB 2034 GL
Co. Rep / Geo. Hal Porter / Randy K. Cont. Discovery #1 Est. Ft. of Pay Por. %
Location: Sec. 28 Twp. 11^s Rge. 19^{sw} Co. Ellis State KS.
No. of Copies Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 3258 - 3310 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. 30,000
Anchor Length 52' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 40,000
Top Packer Depth 3253 Tool Weight 1,800
Bottom Packer Depth 3258 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 3310 Wt. Pipe Run Drill Collar Run 4" H-90 30'
Mud Wt. 9.1 LCM Vis. 45 WL 8.8 Drill Pipe Size 4 1/2" XH Ft. Run 3223' (52)
Blow Description IF: Weak surface blow died in 2 mins.

FF: No return blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	
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>150'</u>	Feet Of <u>Watery Mud</u>	%gas <u> </u>	%oil <u> </u>	30 %water <u>70</u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u>w/ oil stain @ Top</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 112° °F Gravity °API D@ °F Corrected Gravity °API
RW .24 @ 70° °F Chlorides 30,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud	<u>1582</u>	PSI	Recorder No. <u>33024</u>	T-Started <u>1706</u>
(B) First Initial Flow Pressure	<u>41</u>	PSI	(depth) <u>3260</u>	T-Open <u>1825</u>
(C) First Final Flow Pressure	<u>62</u>	PSI	Recorder No. <u>13339</u>	T-Pulled <u>2025</u>
(D) Initial Shut-in Pressure	<u>759</u>	PSI	(depth) <u>3305</u>	T-Out <u>2200</u>
(E) Second Initial Flow Pressure	<u>716</u>	PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>716</u>	PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure	<u>739</u>	PSI	Initial Opening <u>30</u>	Test <u> </u>
(H) Final Hydrostatic Mud	<u>1552</u>	PSI	Initial Shut-in <u>30</u>	Jars <u>X</u>

Mech Alp Elec

Final Flow 30 Safety Joint
Final Shut-in 30 Straddle
on loc. 1615 Circ. Sub X N/C
off loc. 1615 Sampler

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 Rod Steinbrink

Our Representative Rod Steinbrink

Extra Packer
Elect. Rec. X N/C
Other
TOTAL PRICE \$

TRILOBITE TESTING L.L.C.

PERATOR : Hal C.Porter	DATE 7-15-98
ELL NAME: Dale Solomon #28-1	KB 2042.00 ft TICKET NO: 11114 DST #2
LOCATION : 28-11S-19W Ellis co KS	GR 2034.00 ft FORMATION: Lans/KC D -F
INTERVAL : 3317.00 To 3350.00 ft	TD 3350.00 ft TEST TYPE: CONVENTIONAL

ECORDER DATA

Mins			Field	1	2	3	4	TIME DATA-----
F	30	Rec.	13339		3024			PF Fr. 0745 to 0815 hr
I	45	Range(Psi)	4025.0	0.0	4995.0	0.0	0.0	IS Fr. 0815 to 0900 hr
F	45	Clock(hrs)	12 HR		ALP			SF Fr. 0900 to 0945 hr
S	60	Depth(ft)	3345.0	0.0	3320.0	0.0	0.0	FS Fr. 0945 to 1045 hr

	Field	1	2	3	4			
. Init Hydro	1642.0	0.0	1629.0	0.0	0.0	T STARTED	0635	hr
. First Flow	41.0	0.0	16.0	0.0	0.0	T ON BOTM	0743	hr
1. Final Flow	41.0	0.0	50.0	0.0	0.0	T OPEN	0745	hr
. In Shut-in	909.0	0.0	928.0	0.0	0.0	T PULLED	1045	hr
. Init Flow	62.0	0.0	52.0	0.0	0.0	T OUT	1200	hr
. Final Flow	83.0	0.0	90.0	0.0	0.0			
. Fl Shut-in	899.0	0.0	927.0	0.0	0.0	TOOL DATA-----		
. Final Hydro	1602.0	0.0	1594.0	0.0	0.0	Tool Wt.		18
nside/Outside	O		I			Wt Set On Packer		300

ECOVERY

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ot Fluid 145.00 ft of 30.00 ft in DC and 115.00 ft in DP
45.00 ft of Muddy Water 85%water 15%mud
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of RW .22 @ 60 deg =
ALINITY 40000.00 P.P.M. A.P.I. Gravity 0.00

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LOW DESCRIPTION

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initial Flow:
    Weak surface blow increased to 2"
initial Shut-in:
    No blow
Final Flow:
    Surface return in 10 mins stayed
    steady throughout
Final Shut-in:
    No blow

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SAMPLES :

SENT TO:

Test Successful: Y

MUD DATA-

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	47.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	

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	Rod Steinbrink	
Co. Rep.	Hal P./Randy K.	
Contr.	Discovery	
Rig #	1	
Unit #		
Pump T.		

P.O. SUB 1' Above 120'	3177
C.O. SUB 1'	3297
S.I. TOOL 5'	3303
HMV 5'	3308
JARS n/a	
SAFETY JOINT n/a	
PACKER 4'	3312
PACKER 5'	3317
DEPTH	
STUBB 1'	3318
ANCHOR	
Alp Rec. @	3320
27' Perf	3345
T.C.	
DEPTH	
AK-1 Rec. @	3345
BULLNOSE 5'	
T.D.	3350

REMARKS :

TEST HISTORY

11114 DST #2 Dale Solomon #28-1 Hal C. Porter

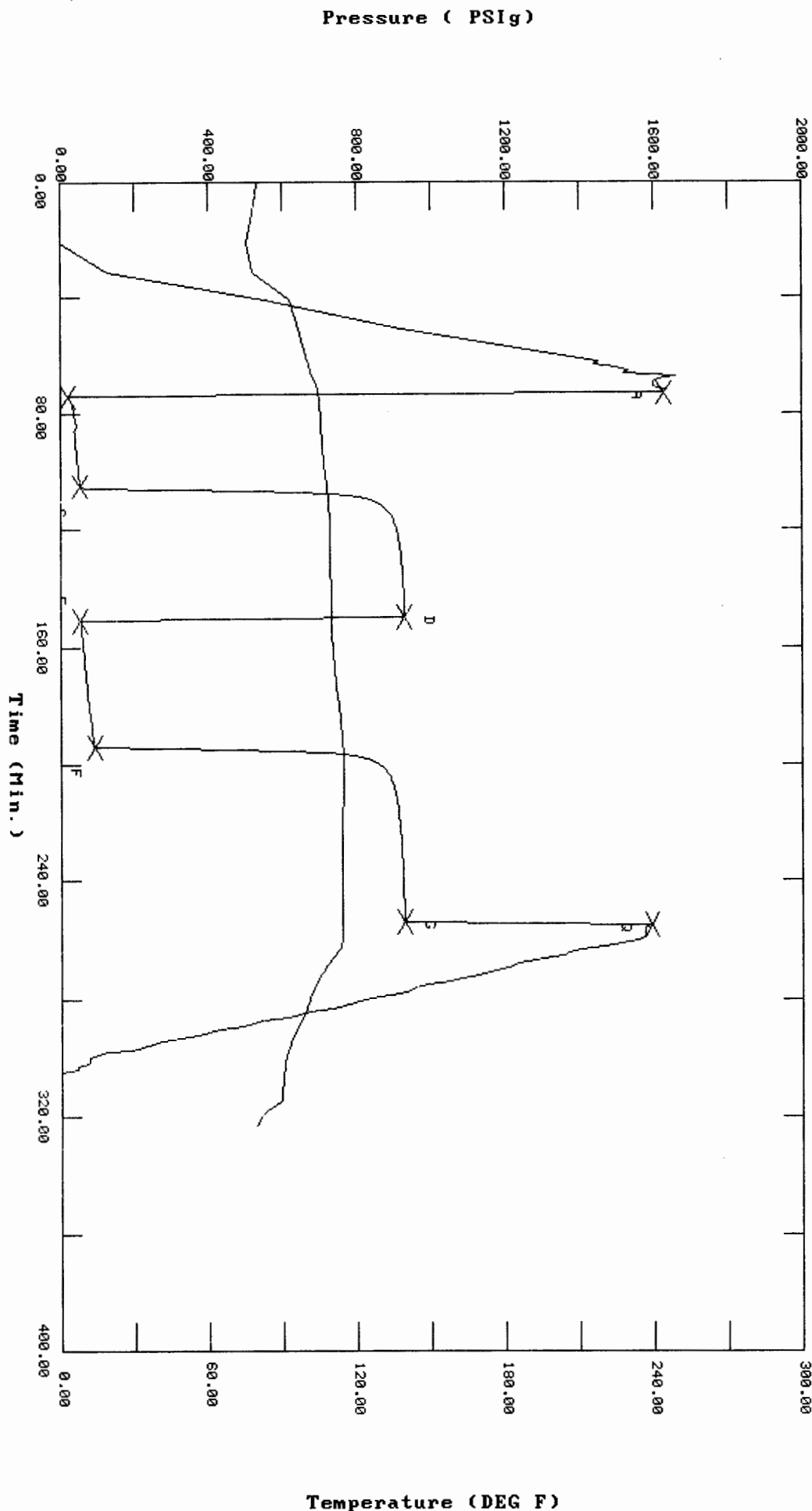
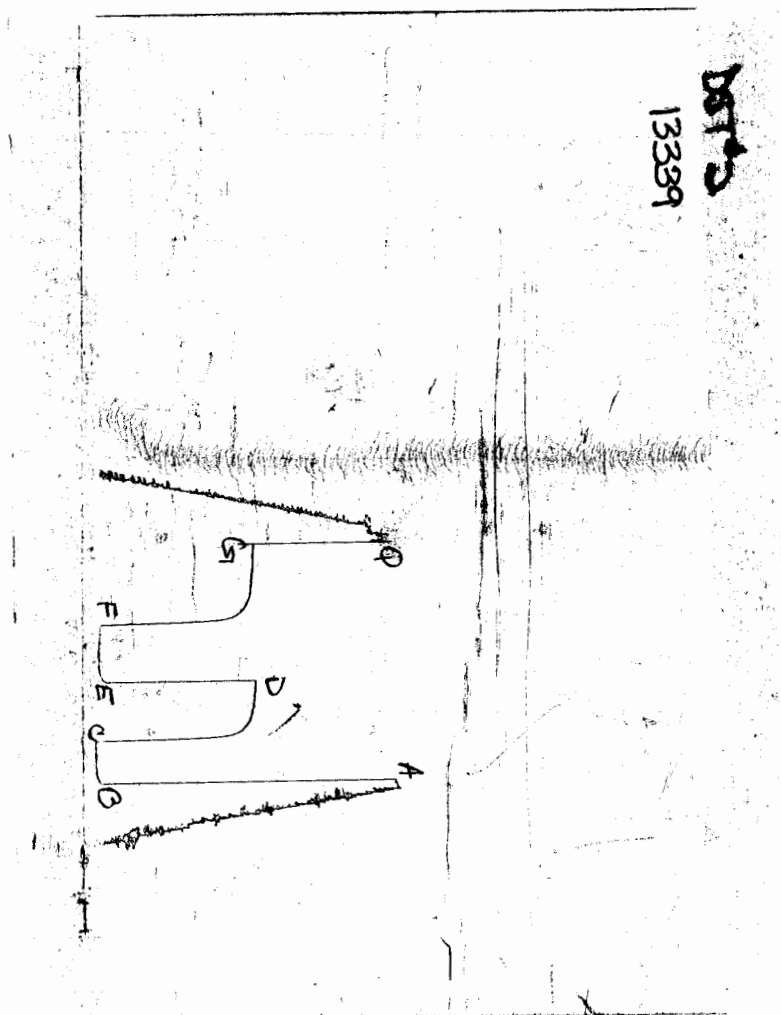


CHART PAGE

DET 2
13339



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11114 DST #2 Dale Solomon #28-1 Hal C.Porter

DATE: 07/15/98 TIME: 06:36:07

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	73.00	1629.2	0.0	104.26		
***** Start Flow 1	0.00	16.8	0.0	104.50		
	1.00	22.0	5.2	104.68		
	2.00	25.5	8.7	104.80		
	3.00	29.7	12.9	104.92		
	4.00	30.2	13.4	105.04		
	5.00	32.9	16.1	105.14		
	6.00	35.1	18.3	105.22		
	7.00	33.0	16.3	105.31		
	8.00	39.7	22.9	105.39		
	9.00	40.4	23.6	105.48		
	10.00	40.6	23.8	105.57		
	11.00	36.5	19.7	105.64		
	12.00	36.2	19.4	105.72		
	13.00	36.5	19.7	105.79		
	14.00	36.9	20.1	105.87		
	15.00	37.5	20.7	105.94		
	16.00	38.3	21.5	106.00		
	17.00	39.2	22.4	106.08		
	18.00	39.9	23.1	106.16		
	19.00	40.7	23.9	106.25		
	20.00	41.6	24.8	106.35		
	21.00	42.3	25.5	106.44		
	22.00	43.1	26.3	106.53		
	23.00	44.1	27.3	106.63		
	24.00	44.9	28.1	106.74		
	25.00	45.7	28.9	106.86		
	26.00	46.4	29.7	107.01		
	27.00	47.2	30.4	107.16		
	28.00	47.9	31.1	107.30		
	29.00	48.6	31.8	107.45		
	30.00	49.3	32.5	107.61		
***** End Flow 1	31.00	50.1	33.3	107.75		
***** Start Shutin 1	0.00	50.1	0.0	107.75	0.0000	0.003
	1.00	66.9	16.8	107.89	32.0000	0.004
	2.00	523.4	473.3	108.02	16.5000	0.274
	3.00	736.0	686.0	108.16	11.3333	0.542
	4.00	805.6	755.5	108.30	8.7500	0.649
	5.00	837.4	787.4	108.43	7.2000	0.701
	6.00	856.2	806.1	108.54	6.1667	0.733
	7.00	868.6	818.5	108.64	5.4286	0.755
	8.00	877.6	827.5	108.72	4.8750	0.770
	9.00	884.5	834.4	108.78	4.4444	0.782
	10.00	889.9	839.8	108.84	4.1000	0.792
	11.00	894.4	844.3	108.88	3.8182	0.800
	12.00	898.1	848.0	108.92	3.5833	0.807
	13.00	901.2	851.2	108.95	3.3846	0.812
	14.00	904.1	854.0	108.98	3.2143	0.817
	15.00	906.3	856.2	109.01	3.0667	0.821
	16.00	908.4	858.3	109.04	2.9375	0.825
	17.00	910.3	860.2	109.06	2.8235	0.829

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11114 DST #2 Dale Solomon #28-1 Hal C.Porter

DATE: 07/15/98 TIME: 06:36:07

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	912.0	861.9	109.09	2.7222	0.832
	19.00	913.6	863.5	109.11	2.6316	0.835
	20.00	914.8	864.7	109.14	2.5500	0.837
	21.00	915.7	865.6	109.15	2.4762	0.838
	22.00	916.7	866.6	109.18	2.4091	0.840
	23.00	917.7	867.6	109.20	2.3478	0.842
	24.00	918.6	868.5	109.22	2.2917	0.844
	25.00	919.4	869.3	109.24	2.2400	0.845
	26.00	920.3	870.2	109.27	2.1923	0.847
	27.00	921.1	871.0	109.29	2.1481	0.848
	28.00	921.7	871.6	109.32	2.1071	0.850
	29.00	922.3	872.2	109.33	2.0690	0.851
	30.00	922.9	872.8	109.36	2.0333	0.852
	31.00	923.5	873.4	109.38	2.0000	0.853
	32.00	924.0	873.9	109.40	1.9688	0.854
	33.00	924.5	874.4	109.42	1.9394	0.855
	34.00	925.0	874.9	109.45	1.9118	0.856
	35.00	925.4	875.3	109.47	1.8857	0.856
	36.00	925.8	875.7	109.48	1.8611	0.857
	37.00	926.2	876.1	109.51	1.8378	0.858
	38.00	926.5	876.5	109.54	1.8158	0.858
	39.00	926.9	876.8	109.55	1.7949	0.859
	40.00	927.2	877.1	109.58	1.7750	0.860
	41.00	927.3	877.3	109.60	1.7561	0.860
	42.00	927.6	877.5	109.62	1.7381	0.860
	43.00	927.9	877.8	109.65	1.7209	0.861
	44.00	928.2	878.1	109.67	1.7045	0.862
***** End Shut-in 1	45.00	928.4	878.3	109.68	1.6889	0.862
***** Start Flow 2	0.00	52.3	0.0	109.74		
	1.00	52.9	0.5	109.74		
	2.00	53.6	1.3	109.73		
	3.00	54.4	2.1	109.74		
	4.00	55.2	2.9	109.78		
	5.00	56.0	3.7	109.83		
	6.00	56.8	4.5	109.90		
	7.00	57.7	5.3	109.98		
	8.00	58.6	6.3	110.08		
	9.00	59.3	7.0	110.18		
	10.00	60.1	7.8	110.28		
	11.00	60.8	8.5	110.40		
	12.00	61.5	9.2	110.50		
	13.00	62.3	10	110.59		
	14.00	63.0	10.7	110.69		
	15.00	63.7	11.4	110.79		
	16.00	64.4	12.1	110.86		
	17.00	65.1	12.8	110.96		
	18.00	65.8	13.5	111.05		
	19.00	66.6	14.3	111.15		
	20.00	67.3	15.0	111.25		
	21.00	68.1	15.7	111.38		
	22.00	68.8	16.5	111.50		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11114 DST #2 Dale Solomon #28-1 Hal C.Porter

DATE: 07/15/98 TIME: 06:36:07

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	23.00	69.5	17.2	111.62		
	24.00	70.2	17.9	111.79		
	25.00	71.0	18.6	111.97		
	26.00	71.6	19.3	112.17		
	27.00	72.4	20.1	112.34		
	28.00	73.5	21.1	112.50		
	29.00	74.3	21.9	112.65		
	30.00	75.0	22.7	112.80		
	31.00	75.7	23.4	112.94		
	32.00	78.9	26.6	113.05		
	33.00	79.6	27.3	113.17		
	34.00	80.3	28.0	113.28		
	35.00	81.0	28.7	113.38		
	36.00	81.7	29.4	113.49		
	37.00	82.4	30.1	113.59		
	38.00	83.1	30.8	113.68		
	39.00	83.9	31.5	113.79		
	40.00	84.5	32.2	113.90		
	41.00	85.2	32.9	113.99		
	42.00	85.9	33.6	114.08		
***** End Flow 2	43.00	90.1	37.8	114.18		
***** Start Shutin 2	0.00	90.1	0.0	114.18	0.0000	0.008
	1.00	470.9	380.8	114.26	75.0000	0.222
	2.00	724.0	633.9	114.34	38.0000	0.524
	3.00	796.8	706.7	114.41	25.6667	0.635
	4.00	828.9	738.7	114.46	19.5000	0.687
	5.00	847.4	757.3	114.49	15.8000	0.718
	6.00	859.9	769.8	114.50	13.3333	0.739
	7.00	868.9	778.8	114.49	11.5714	0.755
	8.00	875.7	785.6	114.48	10.2500	0.767
	9.00	881.2	791.1	114.46	9.2222	0.777
	10.00	885.8	795.7	114.42	8.4000	0.785
	11.00	889.6	799.5	114.40	7.7273	0.791
	12.00	892.8	802.7	114.37	7.1667	0.797
	13.00	895.7	805.6	114.34	6.6923	0.802
	14.00	898.1	808.0	114.33	6.2857	0.807
	15.00	900.3	810.2	114.31	5.9333	0.811
	16.00	902.3	812.2	114.29	5.6250	0.814
	17.00	904.0	813.9	114.27	5.3529	0.817
	18.00	905.6	815.5	114.25	5.1111	0.820
	19.00	907.1	817.0	114.24	4.8947	0.823
	20.00	908.4	818.3	114.22	4.7000	0.825
	21.00	909.7	819.6	114.21	4.5238	0.827
	22.00	910.8	820.7	114.20	4.3636	0.830
	23.00	911.8	821.7	114.19	4.2174	0.831
	24.00	912.6	822.5	114.17	4.0833	0.833
	25.00	913.5	823.4	114.16	3.9600	0.835
	26.00	914.4	824.3	114.15	3.8462	0.836
	27.00	915.2	825.1	114.14	3.7407	0.838
	28.00	915.9	825.8	114.14	3.6429	0.839
	29.00	916.6	826.5	114.10	3.5517	0.840

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11114 DST #2 Dale Solomon #28-1 Hal C.Porter

DATE: 07/15/98 TIME: 06:36:07

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	30.00	917.3	827.1	114.12	3.4667	0.841
	31.00	917.9	827.7	114.12	3.3871	0.842
	32.00	918.4	828.3	114.10	3.3125	0.844
	33.00	919.0	828.9	114.10	3.2424	0.845
	34.00	919.5	829.4	114.10	3.1765	0.845
	35.00	920.0	829.9	114.09	3.1143	0.846
	36.00	920.5	830.3	114.09	3.0556	0.847
	37.00	920.9	830.8	114.09	3.0000	0.848
	38.00	921.3	831.2	114.09	2.9474	0.849
	39.00	921.7	831.6	114.08	2.8974	0.850
	40.00	922.1	832.0	114.08	2.8500	0.850
	41.00	922.5	832.4	114.07	2.8049	0.851
	42.00	922.8	832.7	114.07	2.7619	0.852
	43.00	923.1	833.0	114.07	2.7209	0.852
	44.00	923.4	833.3	114.08	2.6818	0.853
	45.00	923.7	833.6	114.07	2.6444	0.853
	46.00	924.0	833.9	114.07	2.6087	0.854
	47.00	924.2	834.1	114.07	2.5745	0.854
	48.00	924.5	834.4	114.08	2.5417	0.855
	49.00	924.8	834.7	114.06	2.5102	0.855
	50.00	925.0	834.9	114.06	2.4800	0.856
	51.00	925.4	835.3	114.07	2.4510	0.856
	52.00	925.6	835.5	114.07	2.4231	0.857
	53.00	925.8	835.7	114.07	2.3962	0.857
	54.00	926.0	835.9	114.07	2.3704	0.857
	55.00	926.2	836.1	114.07	2.3455	0.858
	56.00	926.4	836.3	114.07	2.3214	0.858
	57.00	926.6	836.5	114.07	2.2982	0.859
	58.00	926.8	836.7	114.07	2.2759	0.859
	59.00	927.0	836.9	114.06	2.2542	0.859
***** End Shut-in 2	60.00	927.2	837.1	114.06	2.2333	0.860
***** Final Hydro.	255.00	1594.5	0.0	114.03		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11114

Well Name & No.	Dale Solomon #28-1		Test No.	2	Date	7-15-98
Company	Hal C. Porter		Zone Tested	Lans/KC D-F		
Address	10004 W. 20th St. N. Wichita, KS. 67212		Elevation	2042	KB	2034 GL
Co. Rep / Geo.	Hal P. / Randy K.		Cont.	Discovery #1	Est. Ft. of Pay	Por. %
Location: Sec.	28	Twp.	11S	Rge.	19W	Co. Ellis State KS
No. of Copies	Distribution Sheet (Y, N) N		Turnkey (Y, N)	N	Evaluation (Y, N)	

Interval Tested 3317 - 3350 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. 30,000
Anchor Length 33' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 40,000
Top Packer Depth 3312 Tool Weight 1,800
Bottom Packer Depth 3317 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 3350 Wt. Pipe Run — Drill Collar Run H-90 30'
Mud Wt. 9.1 LCM Vis. 47 WL 8.8 Drill Pipe Size 4 1/2" XH Ft. Run 3289' (53)
Blow Description IF: Weak surface blow increased to 2"
ISI: No blow
FF: Surface return in 10 mins. stayed steady throughout.
FSI: No blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>145'</u>	<u>-</u>	<u>30</u>	<u>215'</u>
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. <u>145'</u> Feet Of <u>Muddy Wtr.</u>	%gas	%oil	<u>85</u> %water <u>15</u> %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 114° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
RW .22 @ 60° °F Chlorides 40,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud	1642	1629	PSI	Recorder No.	3024	T-Started	0635
(B) First Initial Flow Pressure	41	16	PSI	(depth)	3320	T-Open	0745
(C) First Final Flow Pressure	41	50	PSI	Recorder No.	13339	T-Pulled	1045
(D) Initial Shut-in Pressure	909	928	PSI	(depth)	3345	T-Out	1200
(E) Second Initial Flow Pressure	62	52	PSI	Recorder No.	-		
(F) Second Final Flow Pressure	83	90	PSI	(depth)	-		
(G) Final Shut-in Pressure	899	927	PSI	Initial Opening	30	Test	
(H) Final Hydrostatic Mud	1602	1594	PSI	Initial Shut-in	45	Jars	

AK-1 Mech Alp Elec.

Final Flow 45 Safety Joint _____

Final Shut-in 60 Straddle _____

on loc. 0600 Circ. Sub X N/C

off loc. 1230 Sampler _____

Extra Packer _____

Elect. Rec. X

Other _____

TOTAL PRICE \$ _____

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 Rafael Kline

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

PERATOR : Hal C.Porter
 ELL NAME: Dale Solomon #28-1
 OCATION : 28-11S-19W Ellis co KS
 NTERVAL : 3549.00 To 3559.00 ft

DATE 7-16-98
 KB 2042.00 ft
 GR 2034.00 ft
 TD 3559.00 ft

TICKET NO: 11115
 FORMATION: Arbuckle
 TEST TYPE: CONVENTIONAL

DST #3

ECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
F 30 Rec.	13339	13339	3024			PF Fr. 0810 to 0840 hr
I 45 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0840 to 0925 hr
F 30 Clock(hrs)	12 HR	12	ALP			SF Fr. 0925 to 0955 hr
S 60 Depth(ft)	3555.0	3555.0	3550.0	0.0	0.0	FS Fr. 0955 to 1055 hr

	Field	1	2	3	4	
. Init Hydro	1801.0	1827.0	1791.0	0.0	0.0	T STARTED 0705 hr
. First Flow	62.0	76.0	23.0	0.0	0.0	T ON BOTM 0807 hr
1. Final Flow	93.0	108.0	118.0	0.0	0.0	T OPEN 0810 hr
. In Shut-in	1110.0	1116.0	1130.0	0.0	0.0	T PULLED 1055 hr
. Init Flow	155.0	161.0	125.0	0.0	0.0	T OUT 1245 hr
. Final Flow	187.0	196.0	201.0	0.0	0.0	
. Fl Shut-in	1100.0	1106.0	1121.0	0.0	0.0	TOOL DATA-----
. Final Hydro	1772.0	1768.0	1741.0	0.0	0.0	Tool Wt. 1800.00 lbs
nside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 40000.00 lbs
						Initial Str Wt 30000.00 lbs
						Unseated Str Wt 32000.00 lbs
						Bot Choke 0.76 in
						Hole Size 0.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3504.00 ft

ECOVERY

ot Fluid 490.00 ft of 30.00 ft in DC and 460.00 ft in DP
 90.00 ft of Slight gassy oil 10%gas 90%oil
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of

ALINITY 0.00 P.P.M. A.P.I. Gravity 20.00

LOW DESCRIPTION

nitial Flow:
 Fair to strong off bottom in 15 mins.
 nitial Shut-in:
 No blow
 inal Flow:
 Weak to Fair built to 6"
 inal Shut-in:
 No blow

AMPLES:
 ENT TO:

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	121.00 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	Rod Steinbrink
Co. Rep.	Hal P./Randy K.
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

P.O. SUB 1' Above 120'	3419
C.O. SUB 1'	3529
S.I. TOOL 5'	3535
HMV 5'	3540
JARS n/a	
SAFETY JOINT n/a	
PACKER 4'	3544
PACKER 5'	3549
DEPTH	
STUBB 1'	3550
ANCHOR	
Alp. Rec. @	3550
4' Perf.	3554
T.C.	
DEPTH	
AK-1 Rec. @	3555
BULLNOSE 5'	
T.D.	3559

EMARKS :

TEST HISTORY

11115 DST #3 Dale Solomon #28-1 Hal C. Porter

Flag Points

t (Min.)	P (PSig)
A: 0.00	1791.12
B: 0.00	23.18
C: 32.00	118.10
D: 42.00	1130.28
E: 0.00	125.92
F: 35.00	201.64
G: 60.00	1121.85
H: 0.00	1741.19

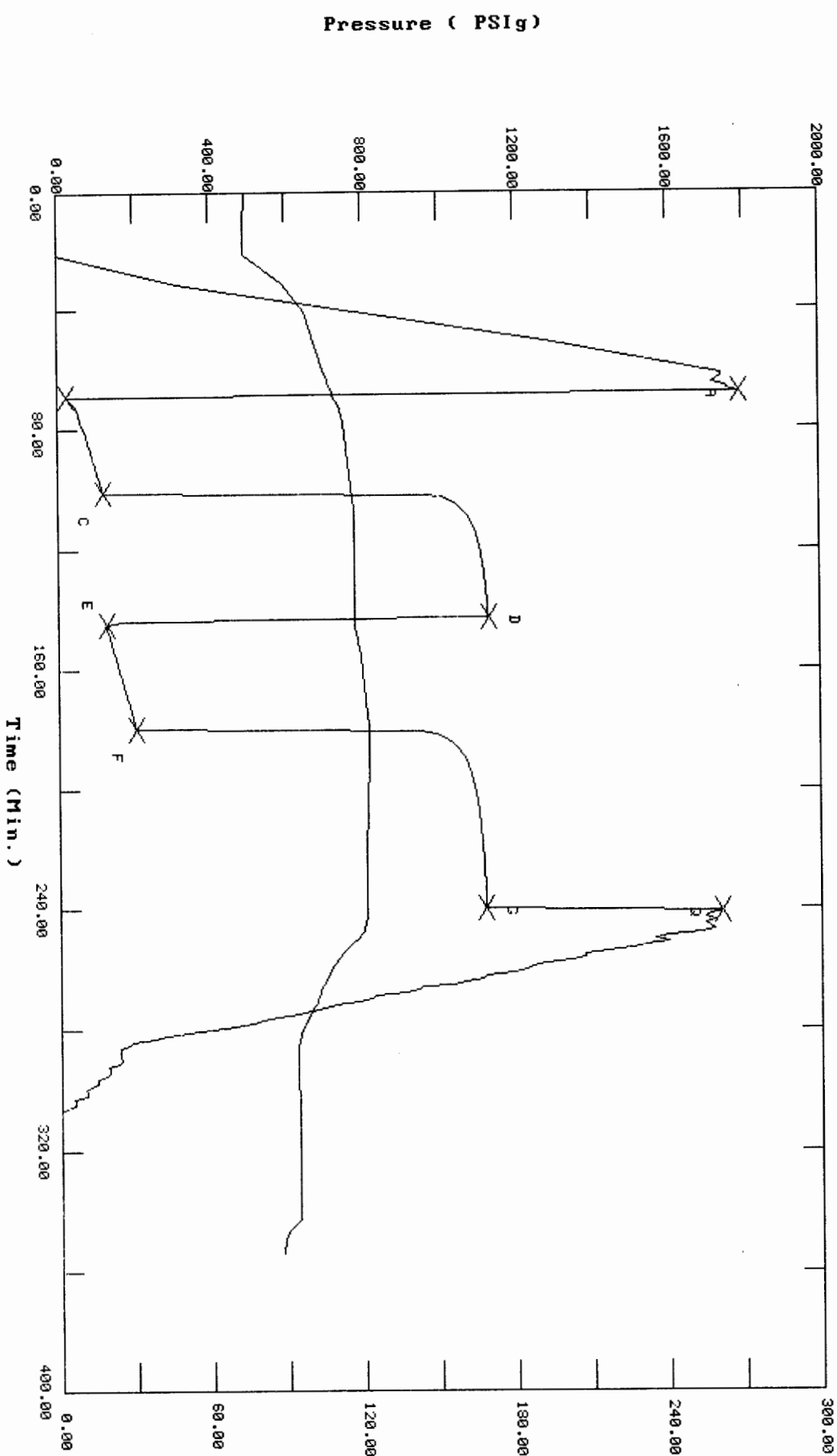
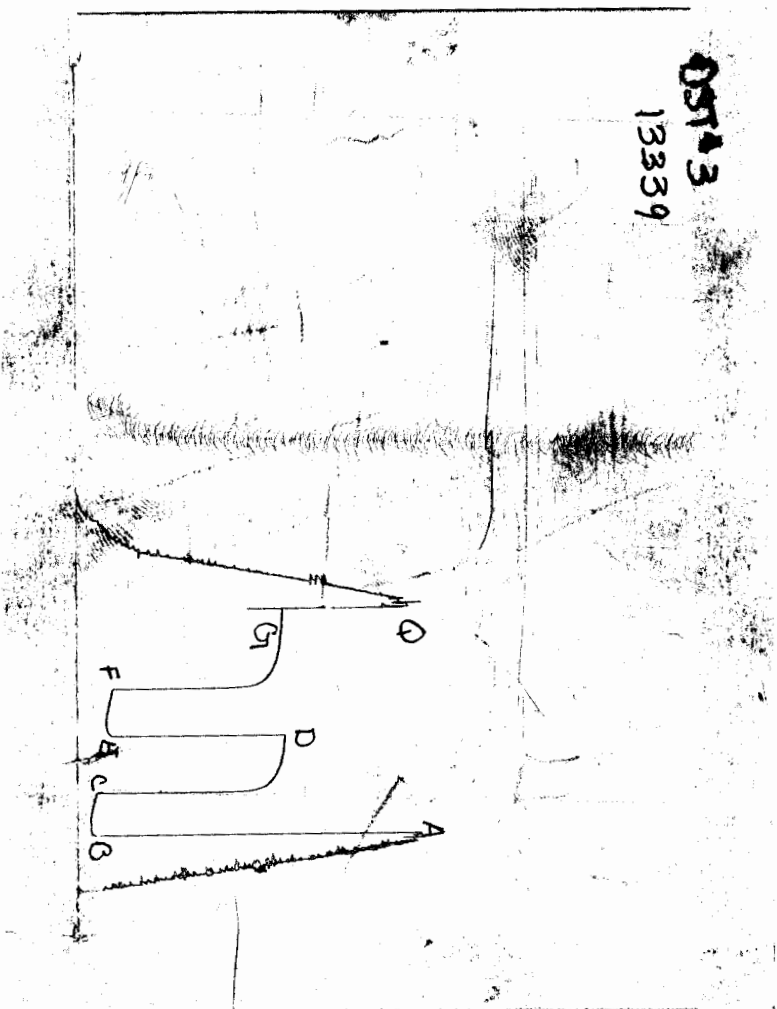


CHART PAGE



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

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11115 DST #3 Dale Solomon #28-1 Hal C.Porter

DATE: 07/16/98 TIME: 07:05:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	68.00	1791.1	0.0	108.30		
***** Start Flow 1	0.00	23.2	0.0	108.80		
	1.00	31.0	7.9	109.26		
	2.00	36.4	13.2	109.82		
	3.00	43.6	20.4	110.36		
	4.00	46.3	23.2	110.83		
	5.00	52.0	28.8	111.27		
	6.00	54.1	31.0	111.64		
	7.00	56.0	32.8	111.95		
	8.00	57.4	34.2	112.21		
	9.00	60.3	37.1	112.45		
	10.00	62.8	39.6	112.66		
	11.00	65.4	42.2	112.85		
	12.00	70.4	47.2	113.04		
	13.00	73.2	50.0	113.21		
	14.00	75.6	52.4	113.37		
	15.00	78.0	54.8	113.52		
	16.00	80.4	57.2	113.65		
	17.00	82.9	59.7	113.79		
	18.00	85.1	62.0	113.92		
	19.00	87.5	64.3	114.06		
	20.00	89.8	66.7	114.21		
	21.00	92.3	69.1	114.35		
	22.00	94.6	71.4	114.50		
	23.00	97.0	73.8	114.63		
	24.00	99.4	76.2	114.78		
	25.00	101.8	78.6	114.94		
	26.00	104.3	81.2	115.09		
	27.00	106.7	83.5	115.23		
	28.00	109.0	85.9	115.39		
	29.00	111.3	88.1	115.52		
	30.00	113.7	90.5	115.68		
	31.00	116.3	93.1	115.84		
***** End Flow 1	32.00	118.1	94.9	115.99		
***** Start Shutin 1	0.00	118.1	0.0	115.99	0.0000	0.014
	1.00	967.6	849.5	116.15	33.0000	0.936
	2.00	1009.0	890.9	116.33	17.0000	1.018
	3.00	1029.2	911.1	116.49	11.6667	1.059
	4.00	1042.9	924.8	116.60	9.0000	1.088
	5.00	1053.3	935.2	116.68	7.4000	1.109
	6.00	1061.6	943.5	116.72	6.3333	1.127
	7.00	1068.6	950.5	116.75	5.5714	1.142
	8.00	1074.5	956.4	116.77	5.0000	1.155
	9.00	1079.7	961.6	116.77	4.5556	1.166
	10.00	1084.2	966.1	116.75	4.2000	1.175
	11.00	1088.2	970.1	116.74	3.9091	1.184
	12.00	1091.8	973.7	116.72	3.6667	1.192
	13.00	1095.0	976.9	116.72	3.4615	1.199
	14.00	1097.9	979.8	116.69	3.2857	1.205
	15.00	1100.5	982.4	116.68	3.1333	1.211
	16.00	1102.9	984.8	116.66	3.0000	1.216

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11115 DST #3 Dale Solomon #28-1 Hal C.Porter

DATE: 07/16/98 TIME: 07:05:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	1105.1	987.0	116.65	2.8824	1.221
	18.00	1107.1	989.0	116.65	2.7778	1.226
	19.00	1109.0	990.9	116.64	2.6842	1.230
	20.00	1110.7	992.6	116.63	2.6000	1.234
	21.00	1112.3	994.2	116.63	2.5238	1.237
	22.00	1113.7	995.6	116.63	2.4545	1.240
	23.00	1115.1	997.0	116.63	2.3913	1.243
	24.00	1116.4	998.3	116.63	2.3333	1.246
	25.00	1117.6	999.5	116.65	2.2800	1.249
	26.00	1118.7	1000.6	116.63	2.2308	1.251
	27.00	1119.8	1001.7	116.63	2.1852	1.254
	28.00	1120.7	1002.6	116.64	2.1429	1.256
	29.00	1121.7	1003.6	116.66	2.1034	1.258
	30.00	1122.6	1004.5	116.66	2.0667	1.260
	31.00	1123.4	1005.3	116.66	2.0323	1.262
	32.00	1124.2	1006.1	116.67	2.0000	1.264
	33.00	1124.9	1006.8	116.69	1.9697	1.265
	34.00	1125.7	1007.6	116.69	1.9412	1.267
	35.00	1126.3	1008.2	116.70	1.9143	1.269
	36.00	1127.0	1008.9	116.71	1.8889	1.270
	37.00	1127.6	1009.5	116.71	1.8649	1.271
	38.00	1128.2	1010.1	116.72	1.8421	1.273
	39.00	1128.7	1010.6	116.74	1.8205	1.274
	40.00	1129.3	1011.2	116.74	1.8000	1.275
	41.00	1129.8	1011.7	116.75	1.7805	1.276
***** End Shut-in 1	42.00	1130.3	1012.2	116.77	1.7619	1.278
***** Start Flow 2	0.00	125.9	0.0	116.84		
	1.00	126.8	0.9	116.94		
	2.00	128.5	2.6	117.12		
	3.00	130.9	5.0	117.35		
	4.00	132.7	6.8	117.60		
	5.00	134.9	9.0	117.86		
	6.00	137.4	11.5	118.13		
	7.00	139.7	13.8	118.38		
	8.00	141.9	16.0	118.62		
	9.00	144.2	18.3	118.83		
	10.00	146.5	20.6	119.03		
	11.00	149.0	23.1	119.21		
	12.00	151.2	25.3	119.37		
	13.00	153.4	27.5	119.51		
	14.00	155.8	29.9	119.64		
	15.00	158.0	32.1	119.77		
	16.00	160.3	34.4	119.90		
	17.00	162.6	36.7	120.04		
	18.00	164.8	38.9	120.17		
	19.00	167.0	41.1	120.30		
	20.00	169.3	43.4	120.44		
	21.00	171.6	45.7	120.55		
	22.00	173.7	47.8	120.67		
	23.00	175.9	50.0	120.77		
	24.00	178.0	52.1	120.88		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11115 DST #3 Dale Solomon #28-1 Hal C.Porter

DATE: 07/16/98 TIME: 07:05:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	180.2	54.3	120.98		
	26.00	182.4	56.5	121.09		
	27.00	184.7	58.7	121.23		
	28.00	186.7	60.8	121.37		
	29.00	188.9	63.0	121.51		
	30.00	191.1	65.1	121.66		
	31.00	193.2	67.3	121.79		
	32.00	195.5	69.6	121.92		
	33.00	197.5	71.6	122.04		
	34.00	199.6	73.7	122.16		
***** End Flow 2	35.00	201.6	75.7	122.27		
***** Start Shutin 2	0.00	201.6	0.0	122.27	0.0000	0.041
	1.00	951.1	749.5	122.35	68.0000	0.905
	2.00	991.9	790.3	122.45	34.5000	0.984
	3.00	1012.0	810.3	122.52	23.3333	1.024
	4.00	1025.6	823.9	122.57	17.7500	1.052
	5.00	1035.9	834.3	122.59	14.4000	1.073
	6.00	1044.2	842.5	122.58	12.1667	1.090
	7.00	1051.1	849.5	122.56	10.5714	1.105
	8.00	1056.9	855.3	122.53	9.3750	1.117
	9.00	1062.1	860.5	122.48	8.4444	1.128
	10.00	1066.6	864.9	122.45	7.7000	1.138
	11.00	1070.5	868.9	122.38	7.0909	1.146
	12.00	1074.1	872.5	122.34	6.5833	1.154
	13.00	1077.3	875.7	122.27	6.1538	1.161
	14.00	1080.2	878.6	122.22	5.7857	1.167
	15.00	1082.9	881.3	122.16	5.4667	1.173
	16.00	1085.2	883.6	122.11	5.1875	1.178
	17.00	1087.4	885.8	122.06	4.9412	1.182
	18.00	1089.4	887.8	122.00	4.7222	1.187
	19.00	1091.3	889.7	121.96	4.5263	1.191
	20.00	1093.1	891.5	121.91	4.3500	1.195
	21.00	1094.7	893.1	121.86	4.1905	1.198
	22.00	1096.2	894.6	121.82	4.0455	1.202
	23.00	1097.6	896.0	121.77	3.9130	1.205
	24.00	1098.9	897.3	121.73	3.7917	1.208
	25.00	1100.2	898.5	121.70	3.6800	1.210
	26.00	1101.4	899.7	121.66	3.5769	1.213
	27.00	1102.5	900.8	121.62	3.4815	1.215
	28.00	1103.5	901.9	121.58	3.3929	1.218
	29.00	1104.5	902.9	121.55	3.3103	1.220
	30.00	1105.4	903.8	121.52	3.2333	1.222
	31.00	1106.4	904.7	121.49	3.1613	1.224
	32.00	1107.2	905.6	121.46	3.0938	1.226
	33.00	1108.1	906.4	121.43	3.0303	1.228
	34.00	1108.9	907.2	121.40	2.9706	1.230
	35.00	1109.6	908.0	121.39	2.9143	1.231
	36.00	1110.3	908.7	121.36	2.8611	1.233
	37.00	1111.0	909.4	121.33	2.8108	1.234
	38.00	1111.7	910.0	121.31	2.7632	1.236
	39.00	1112.3	910.6	121.29	2.7179	1.237

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11115 DST #3 Dale Solomon #28-1 Hal C.Porter

DATE: 07/16/98 TIME: 07:05:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	40.00	1112.9	911.3	121.27	2.6750	1.239
	41.00	1113.5	911.9	121.24	2.6341	1.240
	42.00	1114.1	912.4	121.23	2.5952	1.241
	43.00	1114.6	913.0	121.22	2.5581	1.242
	44.00	1115.1	913.5	121.20	2.5227	1.244
	45.00	1115.7	914.0	121.18	2.4889	1.245
	46.00	1116.2	914.5	121.18	2.4565	1.246
	47.00	1116.7	915.0	121.16	2.4255	1.247
	48.00	1117.1	915.5	121.14	2.3958	1.248
	49.00	1117.6	915.9	121.12	2.3673	1.249
	50.00	1118.0	916.4	121.11	2.3400	1.250
	51.00	1118.4	916.8	121.10	2.3137	1.251
	52.00	1118.9	917.2	121.09	2.2885	1.252
	53.00	1119.3	917.6	121.08	2.2642	1.253
	54.00	1119.7	918.0	121.07	2.2407	1.254
	55.00	1120.0	918.4	121.05	2.2182	1.255
	56.00	1120.4	918.8	121.04	2.1964	1.255
	57.00	1120.8	919.2	121.02	2.1754	1.256
	58.00	1121.1	919.5	121.02	2.1552	1.257
	59.00	1121.5	919.9	121.01	2.1356	1.258
***** End Shut-in 2	60.00	1121.8	920.2	121.00	2.1167	1.259
***** Final Hydro.	241.00	1741.2	0.0	120.97		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11115

Well Name & No.	Dale Solomon #28-1	Test No.	3	Date	4-16-98
Company	Hal C. Porter	Zone Tested	Arbuckle		
Address	10004 W 20 th St. N Wichita, KS. 67212	Elevation	2042	KB	2034 GL
Co. Rep / Geo.	Hal Porter / Randy K.	Cont.	Discovery #1	Est. Ft. of Pay	Por. %
Location: Sec.	28	Twp.	11 ^S	Rge.	19 ^W
		Co.	Ellis	State	KS.
No. of Copies	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	N	Evaluation (Y, N)

Interval Tested	3549 - 3559	Initial Str Wt./Lbs.	30,000	Unseated Str Wt./Lbs.	32,000
Anchor Length	10'	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	40,000
Top Packer Depth	3544	Tool Weight	1,800		
Bottom Packer Depth	3549	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	3559	Wt. Pipe Run	—	Drill Collar Run	H-90 30'
Mud Wt.	9.4	LCM		Vis.	50
		WL	8.8	Drill Pipe Size	4 1/2" XH
Blow Description	IF: Fair to strong blow off btm in 15 mins.				
	ISI: No blow				
	FF: Weak to fair blow built to 6"				
	FSI: No blow				

Recovery — Total Feet	490'	GIP	30'	Ft. in DC	30'	Ft. in DP	460'
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	490'	Feet Of	SGD	10 %gas	90 %oil	— %water	— %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	121°	°F Gravity	20	°API D@	100	°F Corrected Gravity	16
RW		@		°F Chlorides		ppm Recovery	Chlorides 4,000
							ppm System
(A) Initial Hydrostatic Mud	1802	1791	PSI	Recorder No.	3024	T-Started	0705
(B) First Initial Flow Pressure	62	23	PSI	(depth)	3550	T-Open	0810
(C) First Final Flow Pressure	93	118	PSI	Recorder No.	13339	T-Pulled	1100
(D) Initial Shut-in Pressure	1110	1130	PSI	(depth)	3555	T-Out	1245
(E) Second Initial Flow Pressure	155	125	PSI	Recorder No.	—		
(F) Second Final Flow Pressure	187	201	PSI	(depth)	—		
(G) Final Shut-in Pressure	1100	1121	PSI	Initial Opening	30	Test	
(H) Final Hydrostatic Mud	1772	1741	PSI	Initial Shut-in	45	Jars	

AK-1 Mech. Alp Elec.

Final Flow 30 Safety Joint

Final Shut-in 60 Straddle

on loc 0630 Circ. Sub X N/C

off loc 1400 Sampler

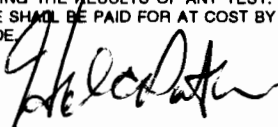
Extra Packer

Elect. Rec. X

Other

TOTAL PRICE \$

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Approved By 

Our Representative Rod Steinbrink