TRILOBITE TESTING L.L.C.

OPERATOR : Sam Gary Jr. & Assoc. DATE 10-18-00
WELL NAME: Nielson "25-13" KB 2011.00 ft TICKET NO: 13088 DST #1
LOCATION : 25-32S-19W Comanche co KS GR 1999.00 ft FORMATION: Mississippi
INTERVAL : 5171.00 To 5268.00 ft TD 5268.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF	0 Rec.	10242	10242	Alpine		
SI	0 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0
SF	0 Clock(hrs)	12 HR	12 HR	Elect		
FS	0 Depth(ft)	5265.0	5265.0	5173.0	0.0	0.0

TIME DATA----------

PF Fr.	to		hr
IS Fr.	to		hr
SF Fr.	to		hr
FS Fr.	to		hr

	Field	1	2	3	4
A. Init Hydro	0.0	0.0	0.0	0.0	0.0
B. First Flow	0.0	0.0	0.0	0.0	0.0
B1. Final Flow	0.0	0.0	0.0	0.0	0.0
C. In Shut-in	0.0	0.0	0.0	0.0	0.0
D. Init Flow	0.0	0.0	0.0	0.0	0.0
E. Final Flow	0.0	0.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	0.0	0.0	0.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED	0115	hr	
T ON BOTM		hr	
T OPEN		hr	
T PULLED	0230	hr	
T OUT	0400	hr	

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
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
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	2800.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	124.00 ft
D.P. Length	5043.00 ft

BLOW DESCRIPTION
Misrun "Hit bridge at 1480'. Tool would not go.

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/c:
Vis.	64.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	Poor
% Porosity	5.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

SAMPLES: None
SENT TO:

Test Successful: N

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13088 D.S.T. No. 1 DATE 10-18-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 35

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 127

D.C. ABOVE TOOLS.Stands 2 Single Total 124

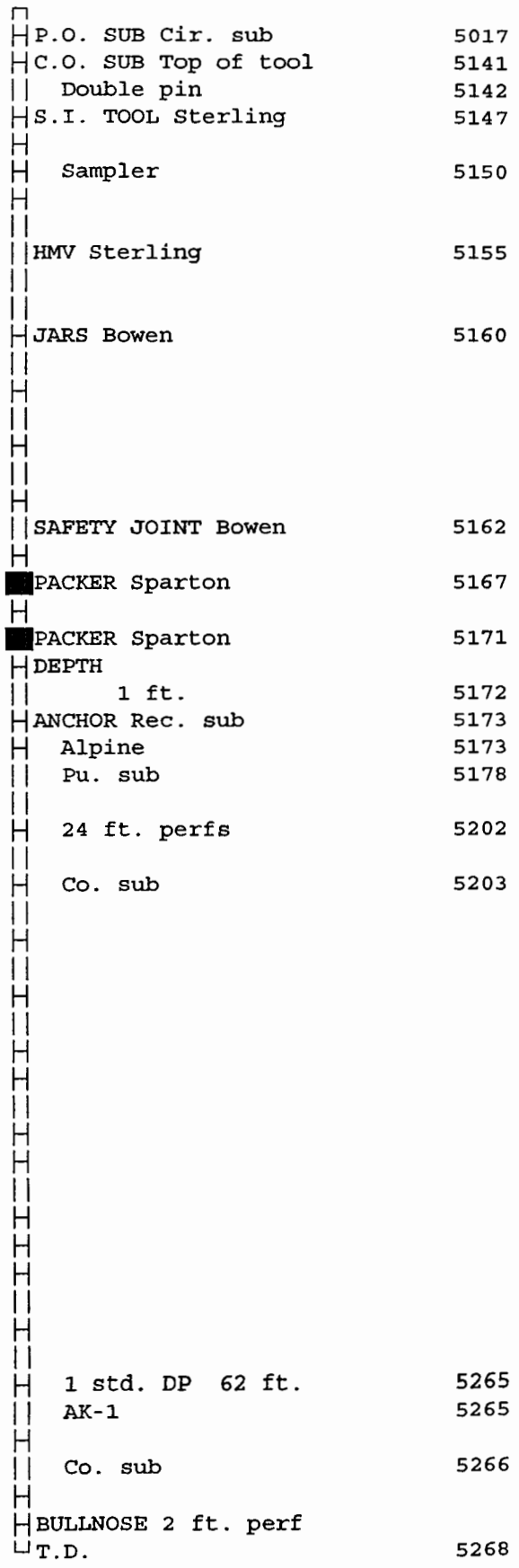
D.P. ABOVE TOOLS.Stands 82 Single Total 5043

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5294

TOTAL DEPTH 5268

TOTAL DRILL PIPE ABOVE K.B. 26

REMARKS:
Miss-run "Hit bridge at 1480'. Tool would not go.



TEST HISTORY

13088 D.S.T.#1 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	675.46
B:	0.00	662.30
Q:	0.00	662.30

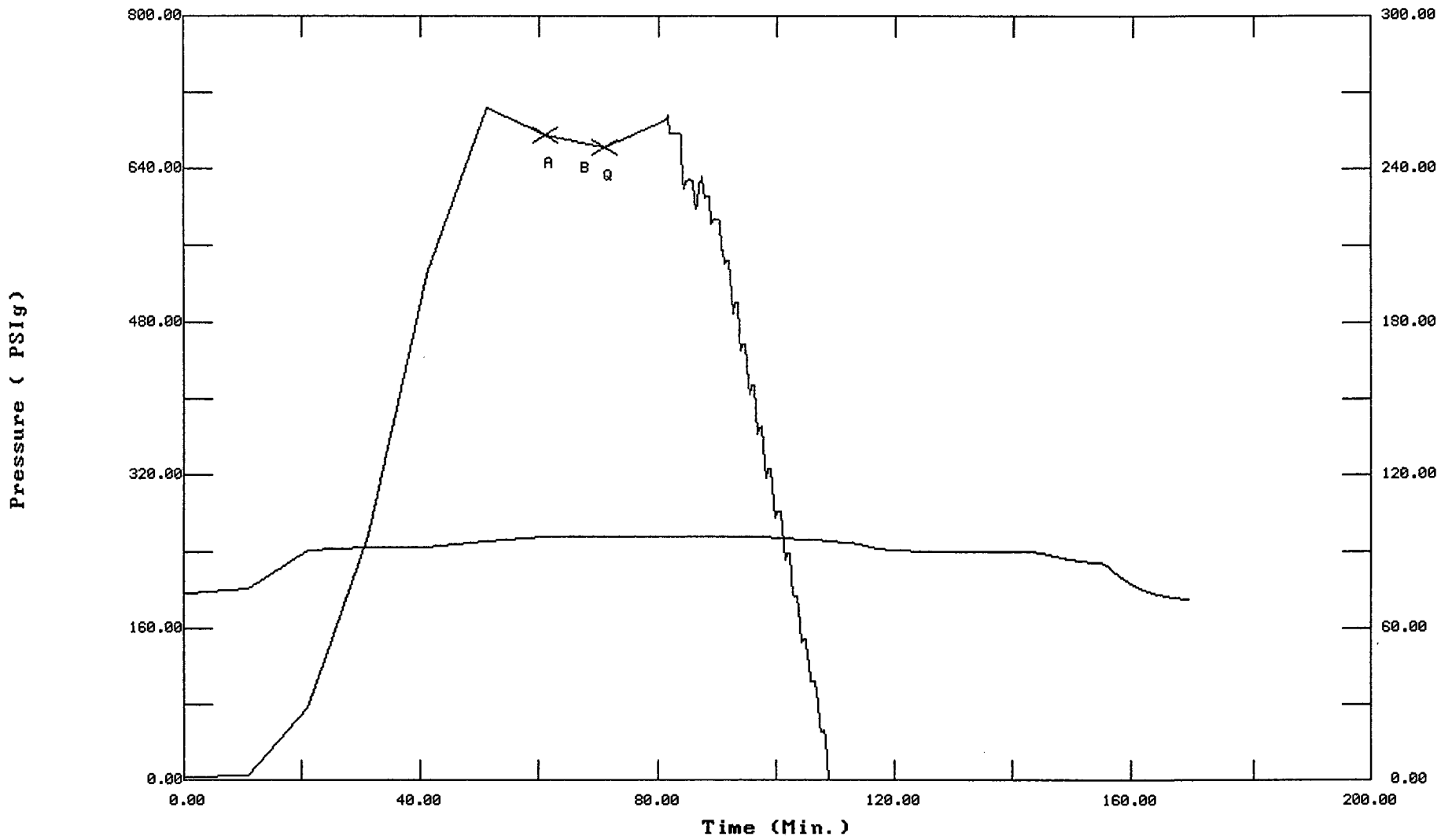
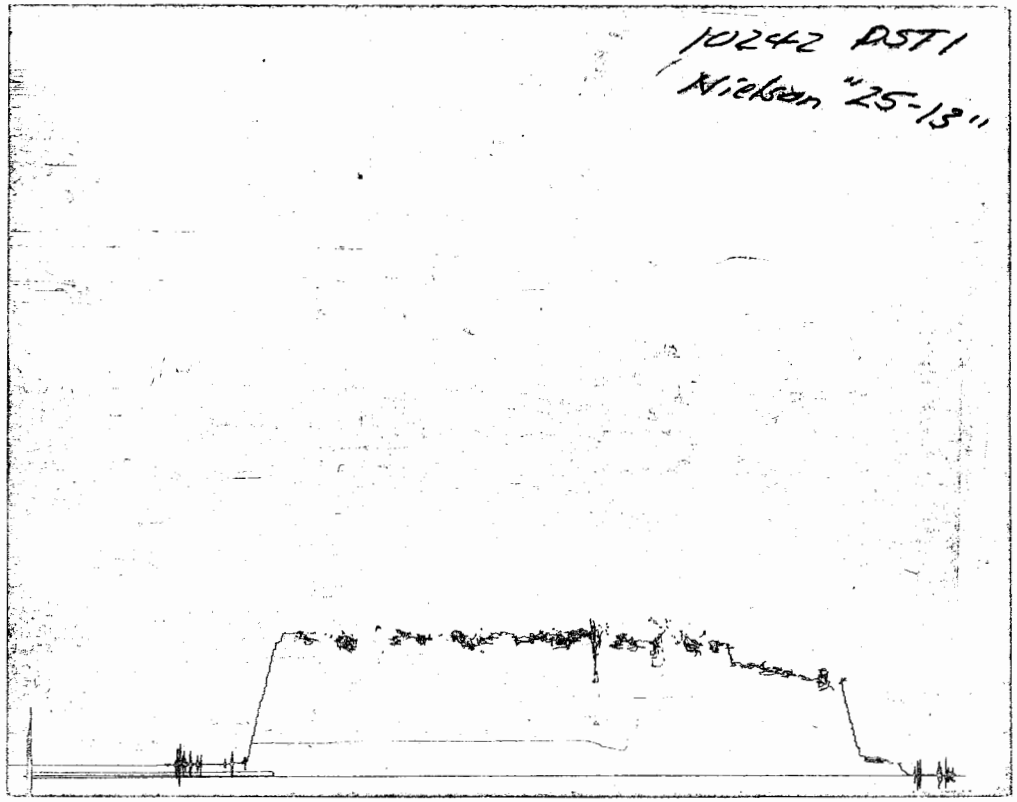


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

№ 13088

Test Ticket

Well Name & No. Nielson "25-13" Test No. 1 Date 10-18-00

Company Sam Gary Jr. & Assc. Zone Tested Miss.

Address Denver Colo. 80202-4838 Elevation 2011 KB 1999 GL

Co. Rep / Geo. Craig Padgett Cont. Duke Rig 5 Est. Ft. of Pay 8 Por. 5 %

Location: Sec. 25 Twp. 32S Rge. 19W Co. Comanche State KS.

No. of Copies Reg Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 5171-5268 Initial Str Wt./Lbs. — Unseated Str Wt./Lbs. —

Anchor Length 97' Tool=30' Wt. Set Lbs. — Wt. Pulled Loose/Lbs. —

Top Packer Depth 5166 Tool Weight 2,800

Bottom Packer Depth 5171 Hole Size — 7 7/8" Rubber Size — 6 3/4"

Total Depth 5268 Wt. Pipe Run — Drill Collar Run 2 124

Mud Wt. 9.1 LCM 3# Vis. 64 WL 9.6 Drill Pipe Size 4½ XH 82 Ft. Run 5043 26 jts

Blow Description

Miss-Run "Hit bridge at 1480'. Tool would not go.

Recovery — Total Feet 0	GIP —	Ft. in DC 0	Ft. in DP 0		
Rec. 0	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

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

RW — @ — °F Chlorides — ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud			PSI	Recorder No. 3017 "01:06"	T-On Location 8:40 P.M.
(B) First Initial Flow Pressure			PSI	(depth) 5173	T-Started 1:15 A.M.
(C) First Final Flow Pressure			PSI	Recorder No. 10242	T-Open —
(D) Initial Shut-In Pressure			PSI	(depth) 5265	T-Pulled 2:30 A.M.
(E) Second Initial Flow Pressure			PSI	Recorder No. —	T-Out
(F) Second Final Flow Pressure			PSI	(depth) —	T-Off Location
(G) Final Shut-in Pressure			PSI	Initial Opening —	Test 165 Miss-Run
(Q) Final Hydrostatic Mud			PSI	Initial Shut-in —	Jars 200
				Final Flow —	Safety Joint 50
				Final Shut-in —	Straddle
					Circ. Sub
					Sampler NC
					Extra Packer
					Elec. Rec. 150
					Mileage 65 65
					Other
					1115
					9-00

Approved By Craig Padgett

TRILOBITE TESTING L.L.C.

OPERATOR : Sam Gary Jr. & Assoc. DATE 10-19-00
WELL NAME: Nielson "25-13" KB 2011.00 ft TICKET NO: 13089 DST #2
LOCATION : 25-32S-19W Comanche co KS GR 1999.00 ft FORMATION: Mississippi
INTERVAL : 5171.00 To 5268.00 ft TD 5268.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	15	Rec.	10242	10242	Alpine		
SI	90	Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0
SF	75	Clock(hrs)	12 HR	12 HR	Elect		
FS	240	Depth(ft)	5265.0	5265.0	5173.0	0.0	0.0

TIME DATA----------
PF Fr. 1350 to 1405 hr
IS Fr. 1405 to 1535 hr
SF Fr. 1535 to 1650 hr
FS Fr. 1650 to 2050 hr

	Field	1	2	3	4
A. Init Hydro	2635.0	0.0	2509.0	0.0	0.0
B. First Flow	275.0	0.0	199.0	0.0	0.0
B1. Final Flow	245.0	0.0	129.0	0.0	0.0
C. In Shut-in	1905.0	0.0	1843.0	0.0	0.0
D. Init Flow	221.0	0.0	139.0	0.0	0.0
E. Final Flow	205.0	0.0	98.0	0.0	0.0
F. Fl Shut-in	1803.0	0.0	1775.0	0.0	0.0
G. Final Hydro	2601.0	0.0	2459.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 1200 hr
T ON BOTM 0147 hr
T OPEN 0150 hr
T PULLED 2050 hr
T OUT 0015 hr

RECOVERY
Tot Fluid 100.00 ft of 100.00 ft in DC and 0.00 ft in DP
5065.00 ft of Gas in pipe
100.00 ft of Slightly gas cut mud
0.00 ft of 4% gas 96% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 6800.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	2800.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	21000.00 lbs
Initial Str Wt	68000.00 lbs
Unseated Str Wt	69000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	184.00 ft
D.P. Length	4981.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong bottom of bucket in 30 seconds
Gas to surface in 5 minutes. Gauged
331,000 in 15 minutes.
Initial shut-In:
No blow back.
Final Flow:
Gauged 370,000 decreasing &
stabilizing @ 288,000 in final 25
minutes of flow.
Final Shut-In:
No blow back.
Hit bridge at 1480'. Gas burned.
Had specks of oil in test tool.
SAMPLES: One
SENT TO:Caraway

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	60.00 S/L
W.L.	9.80 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	Poor
% Porosity	5.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Sam Gary Jr. & Assoc. DATE: 10-19-00
WELL NAME: Nielson "25-13" KB Elev: 2011.00 ft TICKET #13089 DST #2
WELL LOCATION: 25-32S-19W Comanche co KS GR Elev: 1999.00 ft FORMATION: Mississippi
INTERVAL Fr.: 5171.00 To 5268.00 T.D.: 5268.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orfice

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	13	0	303000.0
15	0.75	15	0	331000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	18	0	370000.0
10	0.75	18	0	370000.0
20	0.75	16	0	344000.0
25	0.75	15	0	331000.0
30	0.75	14	0	317000.0
35	0.75	14	0	317000.0
40	0.75	13	0	303000.0
45	0.75	13	0	303000.0
50	0.75	12	0	288000.0
55	0.75	12	0	288000.0
60	0.75	12	0	288000.0
65	0.75	12	0	288000.0
70	0.75	12	0	288000.0
75	0.75	12	0	288000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13089 D.S.T. No. 2 DATE 10-19-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 35

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 127

D.C. ABOVE TOOLS.Stands 3 Single Total 184

D.P. ABOVE TOOLS.Stands 80 Single Total 4981

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5292

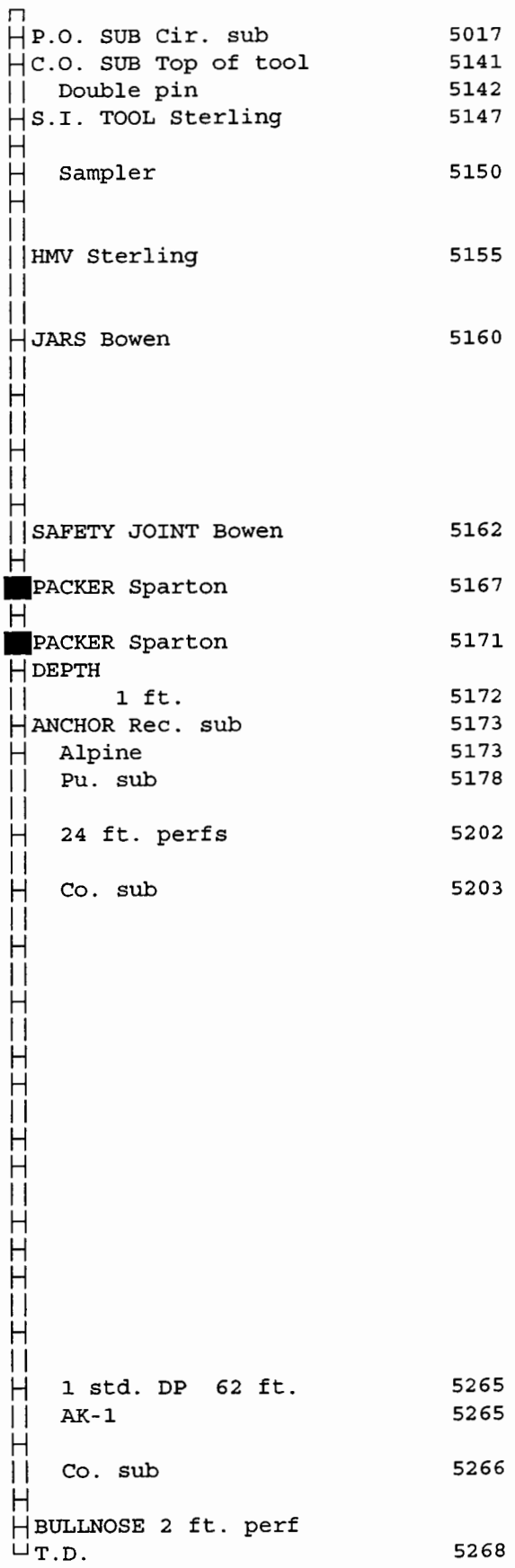
TOTAL DEPTH 5268

TOTAL DRILL PIPE ABOVE K.B. 24

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.
Total Vol. Rec. 0 ML.
Oil 0 ML.
Mud 0 ML.
Wtr. 0 ML.
Gas 18.2 CF.
Psi. 1460
Bht. 123 F.
Pit RW. 0.91 Ohms at 73 F. 6,500 PPM.
Rec RW. 1.1 Ohms at 56 F. 6,800 PPM.
Gravity -- at -- F.
Rec RW. taken from sample on top of tool.



TEST HISTORY

13089 D.S.T.#2 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2509.26
B:	0.00	199.05
C:	12.50	129.46
D:	90.00	1843.21
E:	0.00	139.45
F:	73.75	98.82
G:	240.50	1775.86
Q:	0.00	2459.05

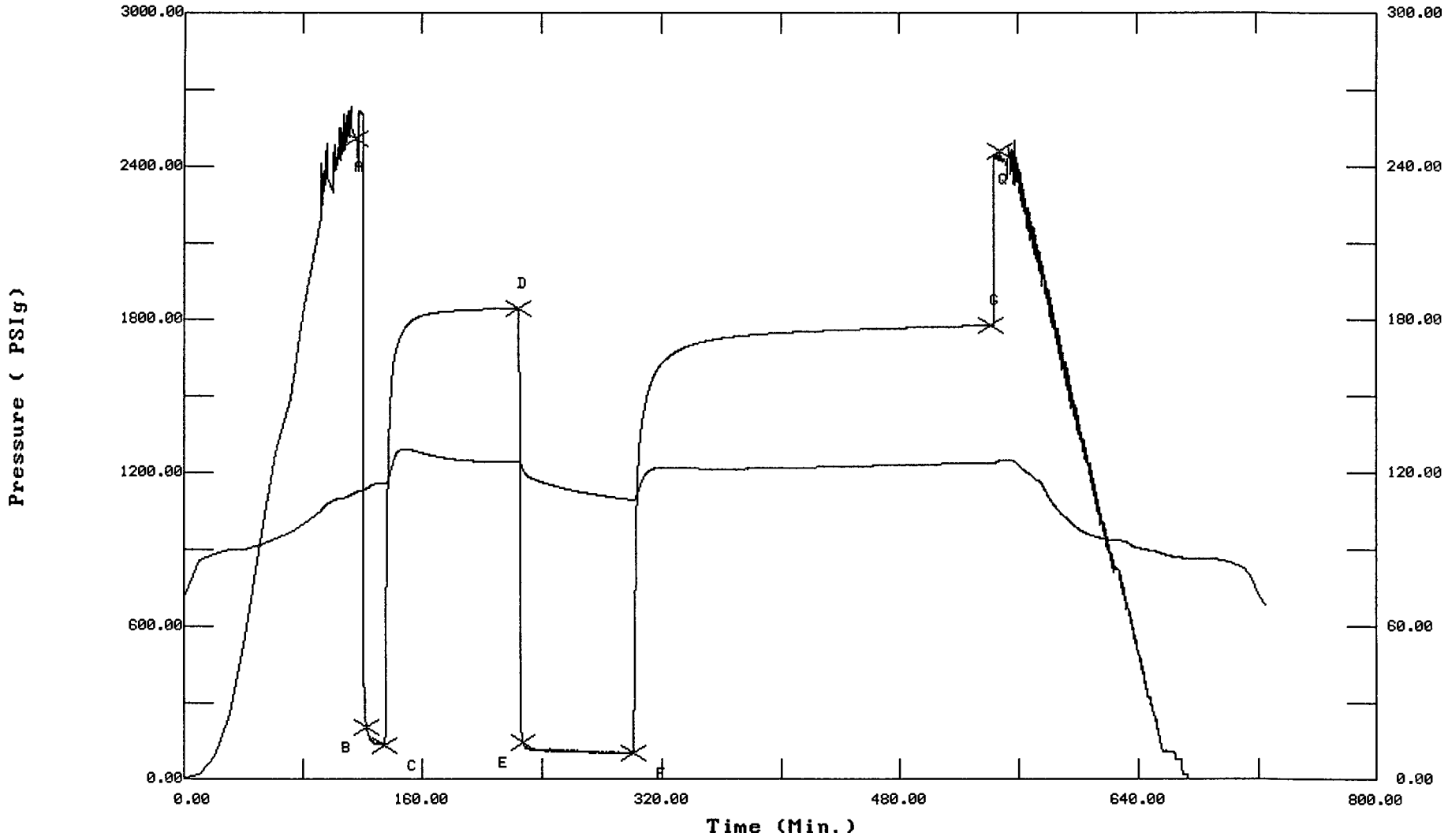
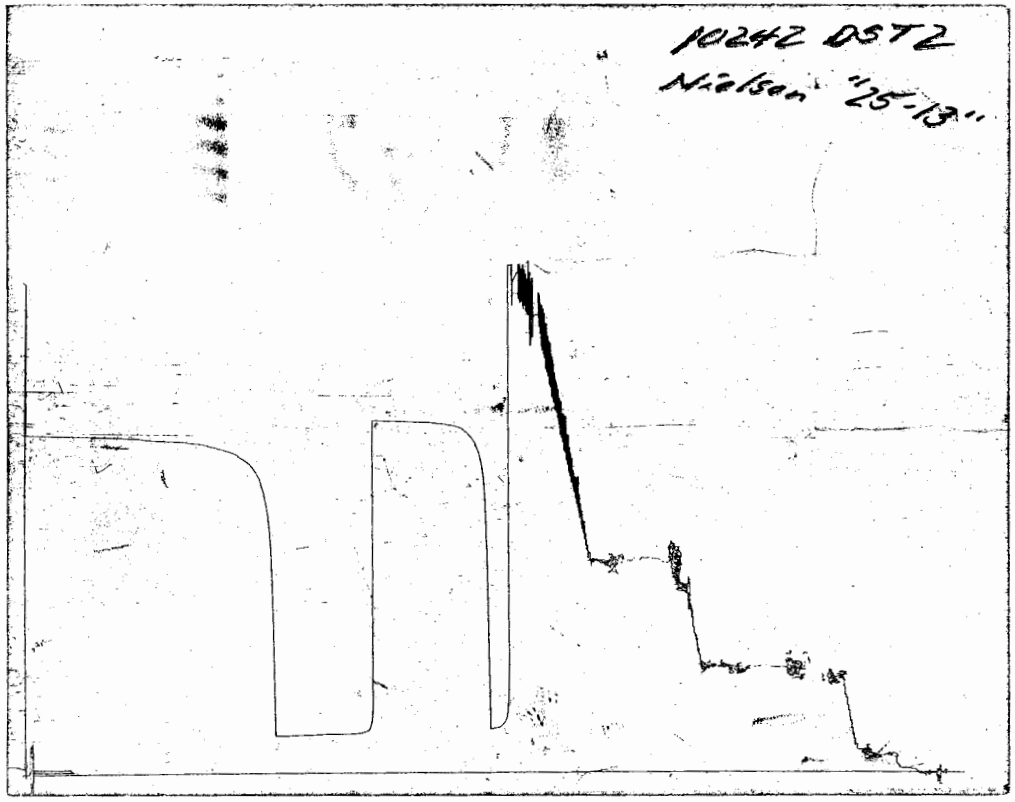
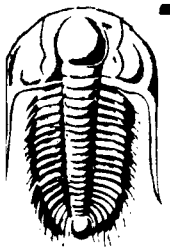


CHART PAGE



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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Sam Gary (OPERATOR) — Nielsen "25-13" (WELL NAME AND NO.) — 2 (DST NO.)

GTS 5 min. into I.F.P.

I.F.P. Min.	Ins. of Water (PSIG)	Orifice Size	MCF/D	F.F.P. Min.	Ins. of Water (PSIG)	Orifice Size	MCF/D
10	13	3/4"	303,000	5	18	3/4"	370,000
15	15	"	331,000	10	18	"	370,000
				20	16	"	344,000
				25 ~~35~~	15	"	331,000
				30 ~~40~~	14	"	317,000
				35	14	"	317,000
				40	13	"	303,000
				45	13	"	303,000
				50	12	"	288,000
				55	12	"	288,000
				60	12	"	288,000
				65	12	"	288,000
				70	12	"	288,000
				75	12	"	288,000

Remarks: Gas burned

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 13089 Date 10-19-00

Company Name Sun Gary

Lease Nielson "25-13" Test No. 2

County Comanche KS. Sec. 25 Twp. 32S. Rng. 19W

SAMPLER RECOVERY

Gas 18.2 C.F. ~~ME~~

Oil 0 ML

Mud 0 ML

Water 0 ML

Other 0 ML

Pressure 1460 PSI

Total Wt. Rec. = 0 ML

Total Vol. chamber = 4000 ML.

PIT MUD ANALYSIS

Chlorides 6,500 ppm.

Resistivity 0.91 ohms @ 73 F

Viscosity 60

Mud Weight 9.1

Filtrate 9.8

Other 3# L.C.M.

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F

Chlorides No Fluid ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity 1.1 ohms @ 56 F

Chlorides 6,800 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

№ 13089

Test Ticket

Well Name & No. Nielsen "25-13" Test No. 2 Date 10-19-00

Company Sam Gary Jr. & Ass. Zone Tested Miss.

Address Denver Colo. 80202-4838 Elevation 2011 KB 1999 GL

Co. Rep / Geo. Craig Padgett Cont. Duke Rig 5 Est. Ft. of Pay 20 Por. 5 %

Location: Sec. 25 Twp. 32S Rge. 19W Co. Comanche State Ks.

No. of Copies Reg. Distribution Sheet (Y, N) No Turnkey (Y, N) No Evaluation (Y, N) _____

Interval Tested 5121-5268

Anchor Length 97' Tool = 30'

Top Packer Depth 5166

Bottom Packer Depth 5171

Total Depth 5268

Mud Wt. 9.1 LCM 3# Vis. 60 WL 9.8

Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 69,000

Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 21,000

Tool Weight 2,800

Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Wt. Pipe Run — Drill Collar Run 184

Drill Pipe Size 4½ XH Ft. Run 4981 24 up

Blow Description Strong OBB in 30 sec. GTS in 5 min. See Flow Chart. I.F.P.
No blow-back. I.S.I.P.
See Flow Chart. F.F.P.
No blow-back. F.S.I.P.

Recovery — Total Feet 100 GIP 50.65 Ft. in DC 100 Ft. in DP 0

Rec. 100	Feet Of Slt Gas cut mud	4 %gas	%oil	%water	96 %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

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

RW 1.61 @ 56 °F Chlorides 6,800 ppm Recovery Chlorides 6,500 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud	2635	2509	PSI	Recorder No. 3017 "11:50"	T-On Location 11:20 A.M.
(B) First Initial Flow Pressure	275	199	PSI	(depth) 5173	T-Started 12:00 P.M.
(C) First Final Flow Pressure	345	129	PSI	Recorder No. 10242	T-Open 1:50 P.M.
(D) Initial Shut-In Pressure	1905	1843	PSI	(depth) 5265	T-Pulled 8:50 P.M.
(E) Second Initial Flow Pressure	221	139	PSI	Recorder No. —	T-Out 12:15 A.M.
(F) Second Final Flow Pressure	205	98	PSI	(depth) —	T-Off Location
(G) Final Shut-in Pressure	1803	1775	PSI	Initial Opening 45	Test 850
(Q) Final Hydrostatic Mud	2601	2459	PSI	Initial Shut-in 90	Jars 200
				Final Flow 75	Safety Joint 150
				Final Shut-in 240	Straddle
					Circ. Sub
					Sampler 200
					Extra Packer
					Elec. Rec. 150
					Mileage 165 6.5
					Other 90 3 Hrs.

A190/150.017

Approved By Craig Padgett

TRILOBITE TESTING L.L.C.

OPERATOR : Sam Gary Jr. & Associate DATE 10-20-00
WELL NAME: Nielson "25-13" KB 2011.00 ft TICKET NO: 13090 DST #3
LOCATION : 25-32S-19W Comanche co KS GR 1999.00 ft FORMATION: Mississippi
INTERVAL : 5298.00 To 5341.00 ft TD 5341.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	15	Rec.	10242	10242	Alpine		
SI	45	Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0
SF	30	Clock(hrs)	12 HR	12 HR	Elect		
FS	60	Depth(ft)	5338.0	5338.0	5300.0	0.0	0.0

TIME DATA----------
PF Fr. 1715 to 1730 hr
IS Fr. 1730 to 1815 hr
SF Fr. 1815 to 1845 hr
FS Fr. 1845 to 1945 hr

	Field	1	2	3	4
A. Init Hydro	2637.0	0.0	2560.0	0.0	0.0
B. First Flow	70.0	0.0	31.0	0.0	0.0
B1. Final Flow	86.0	0.0	99.0	0.0	0.0
C. In Shut-in	1839.0	0.0	1836.0	0.0	0.0
D. Init Flow	142.0	0.0	107.0	0.0	0.0
E. Final Flow	170.0	0.0	169.0	0.0	0.0
F. Fl Shut-in	1803.0	0.0	1795.0	0.0	0.0
G. Final Hydro	2556.0	0.0	2483.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 1525 hr
T ON BOTM 1712 hr
T OPEN 1715 hr
T PULLED 1945 hr
T OUT 2245 hr

RECOVERY
Tot Fluid 265.00 ft of 184.00 ft in DC and 81.00 ft in DP
80.00 ft of Heavy water cut
0.00 ft of 34% water 66% mud
185.00 ft of Water
0.00 ft of 100% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 36000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	7000.00 lbs
Initial Str Wt	67000.00 lbs
Unseated Str Wt	68000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	184.00 ft
D.P. Length	5106.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak 1/4" built to 6 1/2" in bucket in 15 minutes.
Initial Shut-In:
No blow back.
Final Flow:
Surface blow built to 9" in bucket
Final Shut-In:
No blow back.

Remarks: Est. 20 Ft. of Pay.

SAMPLES: None
SENT TO:

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	48.00 S/L
W.L.	9.90 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	Good
% Porosity	3.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13090 D.S.T. No. 3 DATE 10-20-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 43

TOTAL TOOL 73

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 3 Single Total 184

D.P. ABOVE TOOLS.Stands 82 Single Total 5106

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5363

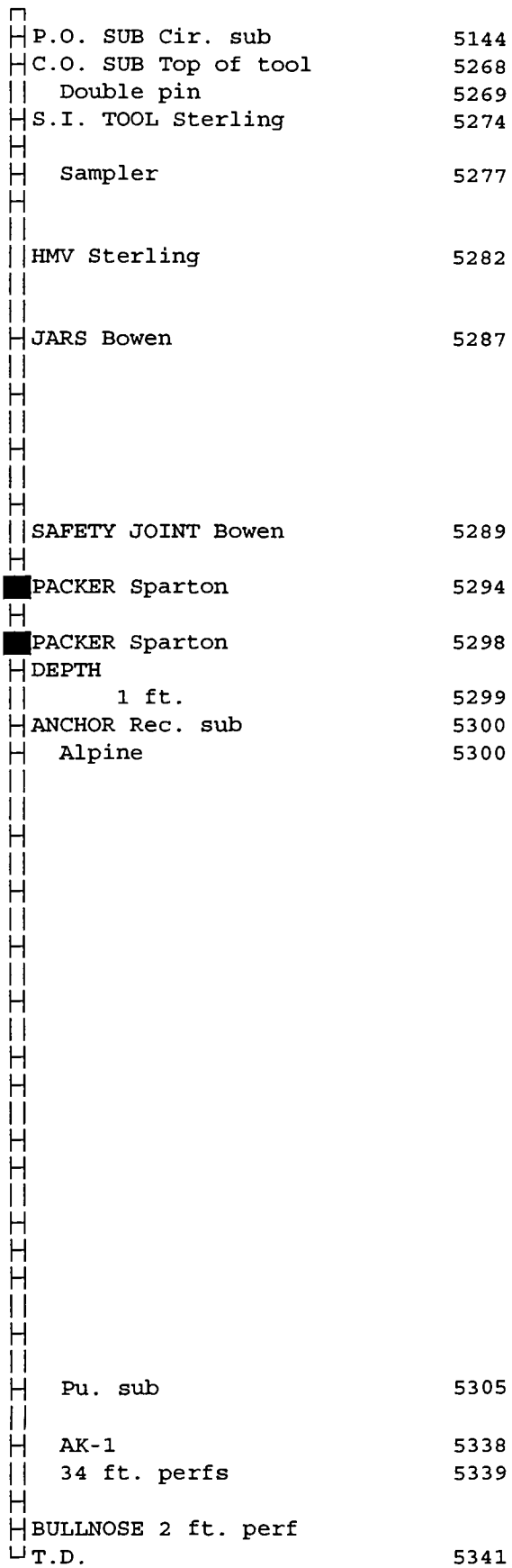
TOTAL DEPTH 5341

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.
Total Vol. Rec. 4000 ML.
Oil 0 ML.
Mud 0 ML.
Wtr. 4000 ML.
Gas 0 CF.
Psi. 220
Bht. 126 F.
Pit RW. 0.68 Ohms at 65 F. 9,800 PPM.
Rec RW. 0.25 Ohms at 56 F. 36,000 PPM.
Gravity -- at -- F.



TEST HISTORY

13090 D.S.T.#3 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2560.25
B:	0.00	31.35
C:	16.00	99.24
D:	45.25	1836.64
E:	0.00	107.17
F:	30.25	169.45
G:	60.00	1795.31
Q:	0.00	2483.26

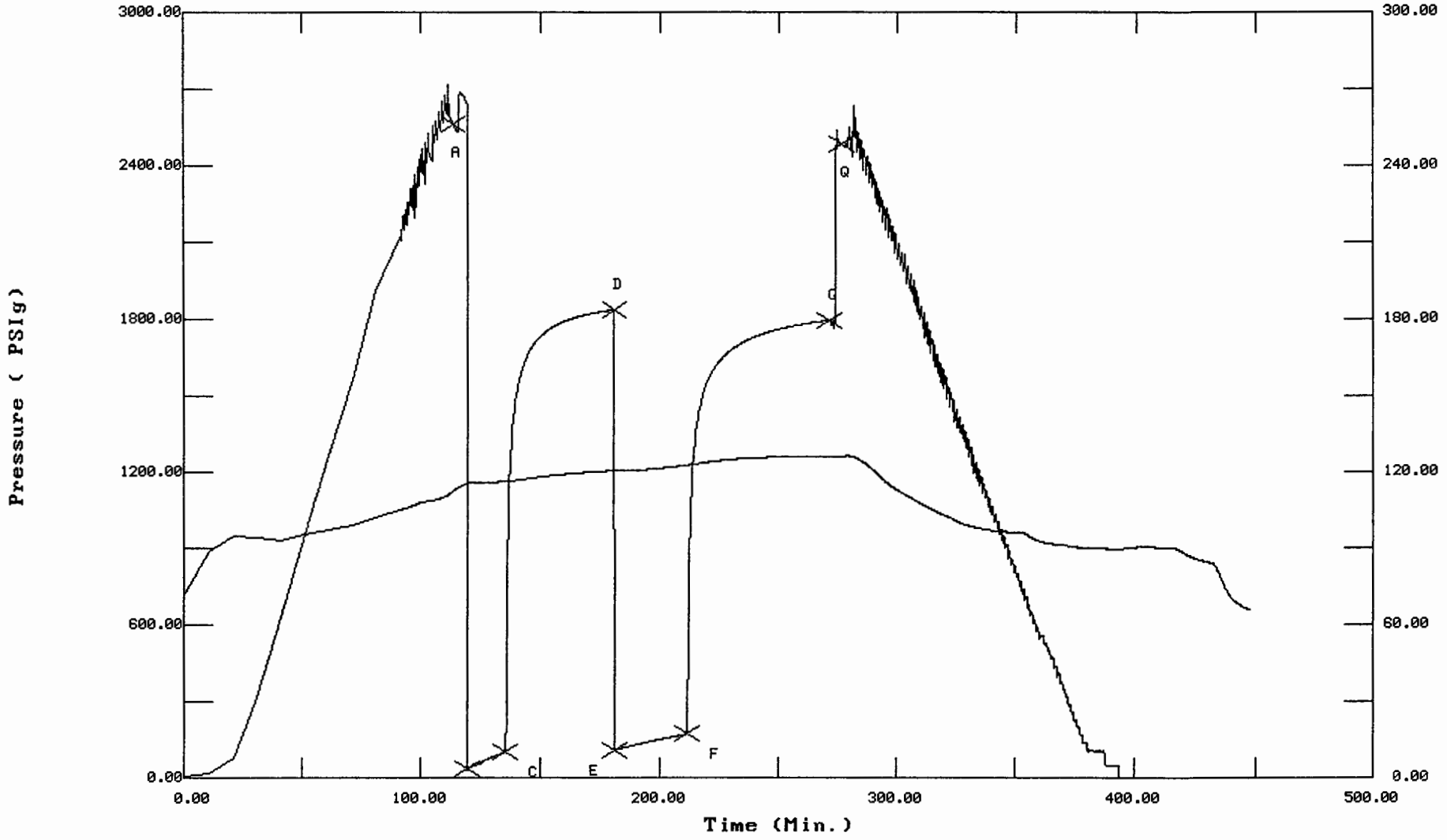
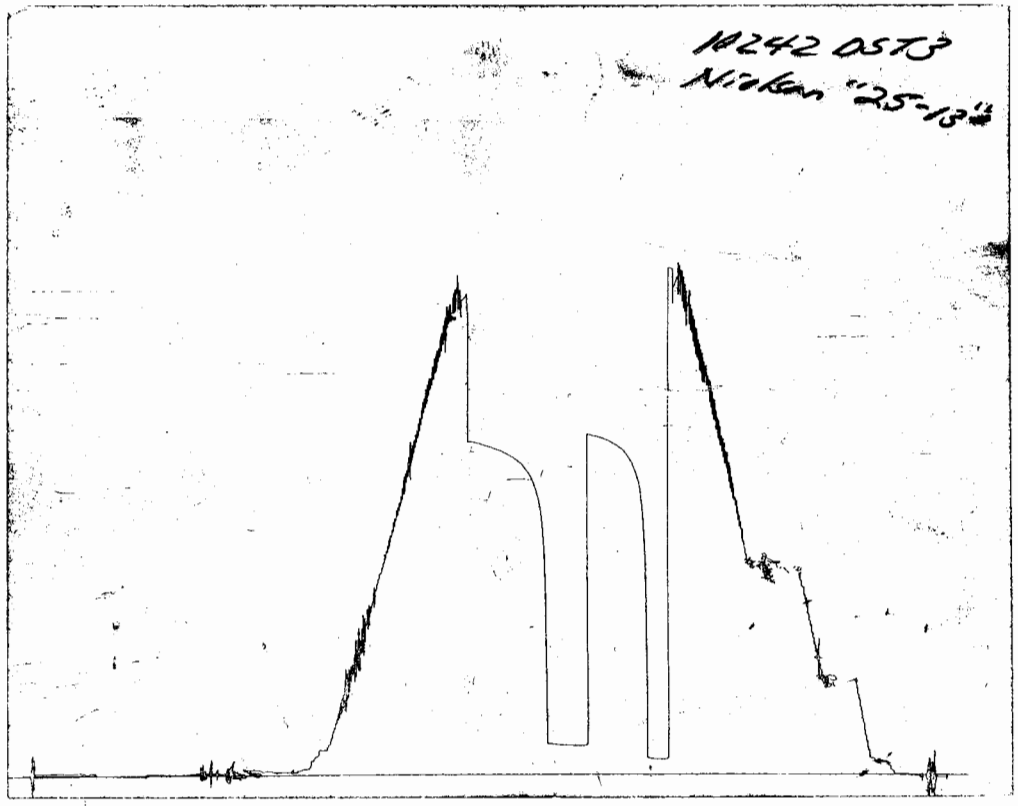


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 13090 Date 10-20-00

Company Name Sam Gary

Lease Nixon "25-13" Test No. 3

County Comanche Ks. Sec. 25 Twp. 32S Rng. 19W.

SAMPLER RECOVERY

Gas 0 C.F. ~~M~~

Oil 0 ML

Mud 0 ML

Water 4000 ML

Other 0 ML

Pressure 220 PSI

Total Wet Rec. = 4000 ML
Total Wet Chamber = 4000 ML.

PIT MUD ANALYSIS

Chlorides 9,800 ppm.

Resistivity 0.68 ohms @ 65 F

Viscosity 48

Mud Weight 9.1

Filtrate 9.9

Other 2# LoCoM.

SAMPLER ANALYSIS

Resistivity 0.25 ohms @ 56 F

Chlorides 36,000 ppm.

Gravity ——— corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity ——— ohms @ ——— F

Chlorides ——— ppm.

MIDDLE
Resistivity ——— ohms @ ——— F

Chlorides ——— ppm.

BOTTOM
Resistivity ——— ohms @ ——— F

Chlorides Same ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

№ 13090

Test Ticket

Well Name & No. Nielsen "25-12" Test No. 3 Date 10-20-00

Company Sam Gary Jr. & Assc. Zone Tested Miss

Address Denver Colo. 80202-4838 Elevation 2011 KB 1999 GL

Co. Rep / Geo. Craig Padgett Cont. Duke Rig 5 Est. Ft. of Pay 20 Por. 3 %

Location: Sec. 25 Twp. 32S. Rge. 19w Co. Comanche State KS

No. of Copies Reg. Distribution Sheet (Y, N) N. Turnkey (Y, N) N. Evaluation (Y, N) _____

Interval Tested 5298-5341 Initial Str Wt./Lbs. 67,000 Unseated Str Wt./Lbs. 68,000

Anchor Length 43' Tool = 30' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 2,000

Top Packer Depth 5293 Tool Weight 2,000

Bottom Packer Depth 5298 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 5341 Wt. Pipe Run — Drill Collar Run 184

Mud Wt. 9.1 LCM 2# Vis. 48 WL 9.9 Drill Pipe Size 4½ XH Ft. Run 5106 22 up

Blow Description Weak ¼" built to 6 ½" in bucket. 15 min. I.F.P.
No blow-back. I.S.I.P.
Surface blow built to 9" in bucket. 30 min. F.F.P.
No blow-back. F.S.I.P.

Recovery — Total Feet 265 GIP 0 Ft. in DC 184 Ft. in DP 81

Rec. 80	Feet Of Heavy watery mud	%gas	%oil	34 %water	66 %mud
Rec. 185	Feet Of wtr.	%gas	%oil	100 %water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 126 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW 0.25 @ 56 °F Chlorides 36,000 ppm Recovery Chlorides 9,800 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	2637	2560	PSI	Recorder No. 3017 "15-15"	T-On Location 2:30 P.M.
(B) First Initial Flow Pressure	20	31	PSI	(depth) 5200	T-Started 3:25 P.M.
(C) First Final Flow Pressure	86	99	PSI	Recorder No. 10242	T-Open 5:15 P.M.
(D) Initial Shut-In Pressure	1839	1836	PSI	(depth) 5238	T-Pulled 7:45 P.M.
(E) Second Initial Flow Pressure	142	107	PSI	Recorder No. —	T-Out 10:45 P.M.
(F) Second Final Flow Pressure	170	169	PSI	(depth) —	T-Off Location _____
(G) Final Shut-in Pressure	1803	1795	PSI	Initial Opening 15	Test 850
(Q) Final Hydrostatic Mud	2556	2483	PSI	Initial Shut-in 45	Jars 200
				Final Flow 30	Safety Joint 50
				Final Shut-in 60	Straddle _____
				_____	Circ. Sub _____
				_____	Sampler 300
					Extra Packer _____
					Elec. Rec. 150
					Mileage 65 65
					Other _____

A2001515.017

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Approved By Craig Padgett

TRILOBITE TESTING L.L.C.

OPERATOR : Sam Gary Jr. & Assoc. DATE 10-23-00
WELL NAME: Nielson "25-13" KB 2011.00 ft TICKET NO: 13092 DST #4
LOCATION : 25-32S-19W Comanche co KS GR 1999.00 ft FORMATION: Viola
INTERVAL : 5824.00 To 5846.00 ft TD 5846.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 10	Rec.	10242	10242	3017		
SI 60	Range(Psi)	4175.0	4175.0	5000.0	0.0	0.0
SF 45	Clock(hrs)	12 HR	12 HR	Elect		
FS 120	Depth(ft)	5843.0	5843.0	5826.0	0.0	0.0

TIME DATA----------
PF Fr. 0935 to 0945 hr
IS Fr. 0945 to 1045 hr
SF Fr. 1045 to 1130 hr
FS Fr. 1130 to 1330 hr

	Field	1	2	3	4
A. Init Hydro	2817.0	0.0	2742.0	0.0	0.0
B. First Flow	520.0	0.0	506.0	0.0	0.0
B1. Final Flow	429.0	0.0	334.0	0.0	0.0
C. In Shut-in	1944.0	0.0	1936.0	0.0	0.0
D. Init Flow	233.0	0.0	185.0	0.0	0.0
E. Final Flow	511.0	0.0	496.0	0.0	0.0
F. Fl Shut-in	1689.0	0.0	1673.0	0.0	0.0
G. Final Hydro	2791.0	0.0	2722.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 0645 hr
T ON BOTM 0932 hr
T OPEN 0935 hr
T PULLED 1330 hr
T OUT 1700 hr

RECOVERY
Tot Fluid 950.00 ft of 184.00 ft in DC and 766.00 ft in DP
4867.00 ft of Gas in pipe
30.00 ft of Heavy water cut mud
0.00 ft of 38% water 62% mud
920.00 ft of Gassy water
0.00 ft of 3% gas 97% water
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	22000.00 lbs
Wt Pulled Loose	12000.00 lbs
Initial Str Wt	74000.00 lbs
Unseated Str Wt	78000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	184.00 ft
D.P. Length	5633.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong bottom of bucket immediately.
Gas to surface in 3 minutes. Gauged 461,000.
Initial Shut-In:
4" blow back.
Final Flow:
Gauged 211,000 decreasing to 40,900 in 45 minutes.
Final Shut-In:
Strong bottom of bucket blow back.

Gas burned

SAMPLES: One
SENT TO:Caraway

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	48.00 S/L
W.L.	9.50 in3
F.C.	0.00 in
Mud Drop Y	15.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	138.00 F
Hole Condition	Good
% Porosity	5.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Sam Gary Jr. & Assoc. DATE: 10-23-00
WELL NAME: Nielson "25-13" KB Elev: 2011.00 ft TICKET #13092 DST #4
WELL LOCATION: 25-32S-19W Comanche co KS GR Elev: 1999.00 ft FORMATION: Viola
INTERVAL Fr.: 5824.00 To 5846.00 T.D.: 5846.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orfice

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	20	0	398000.0
10	0.75	25	0	461000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	7	0	211000.0
10	0.75	4	0	156000.0
15	0.75	1	0	76000.0
20	0.50	2	0	47700.0
25	0.50	1	0	33900.0
30	0.25	2	0	12700.0
35	0.25	7	0	25000.0
40	0.25	14	0	37600.0
45	0.25	16	0	40900.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13092 D.S.T. No. 4 DATE 10-23-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 52

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 3 Single Total 184

D.P. ABOVE TOOLS.Stands 90 Single 1 Total 5633

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5869

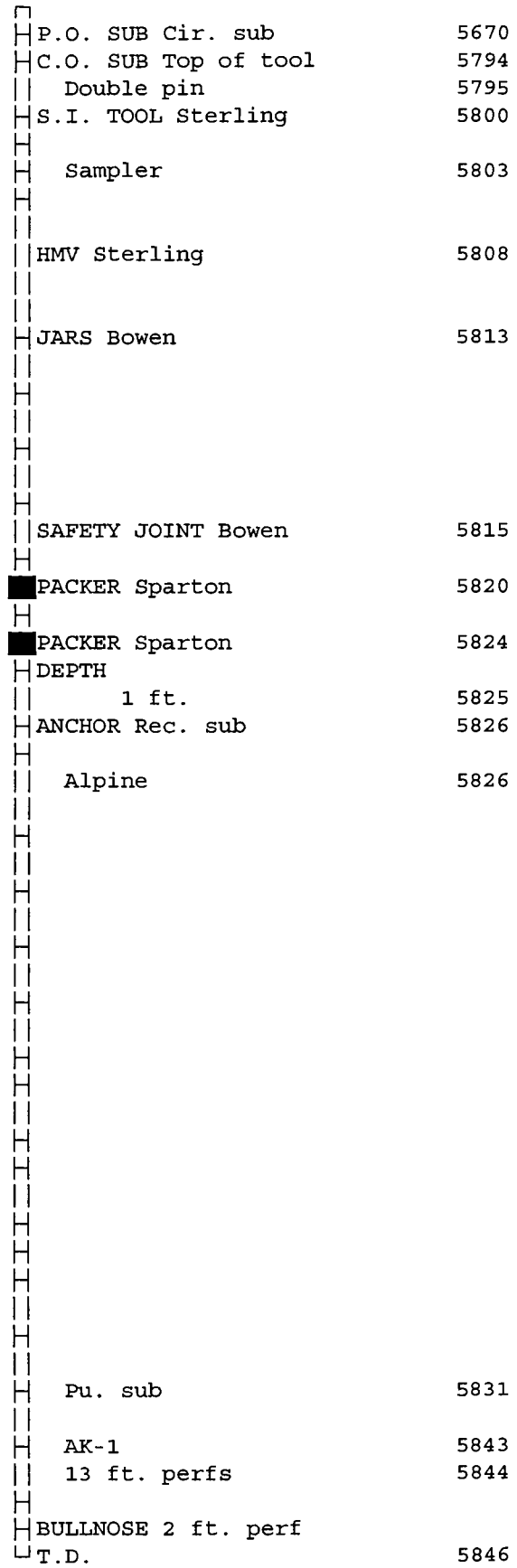
TOTAL DEPTH 5846

TOTAL DRILL PIPE ABOVE K.B. 23

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.
Total Vol. Rec. 800 ML.
Oil 0 ML.
Mud 0 ML.
Wtr. 800 ML.
Gas 14.4 CF.
Psi. 1410
Bht. 138 F.
Pit RW. 0.95 Ohms at 58 F. 7,600 PPM.
Rec RW. 0.23 Ohms at 68 F. 32,000 PPM.
Gravity -- at -- F.

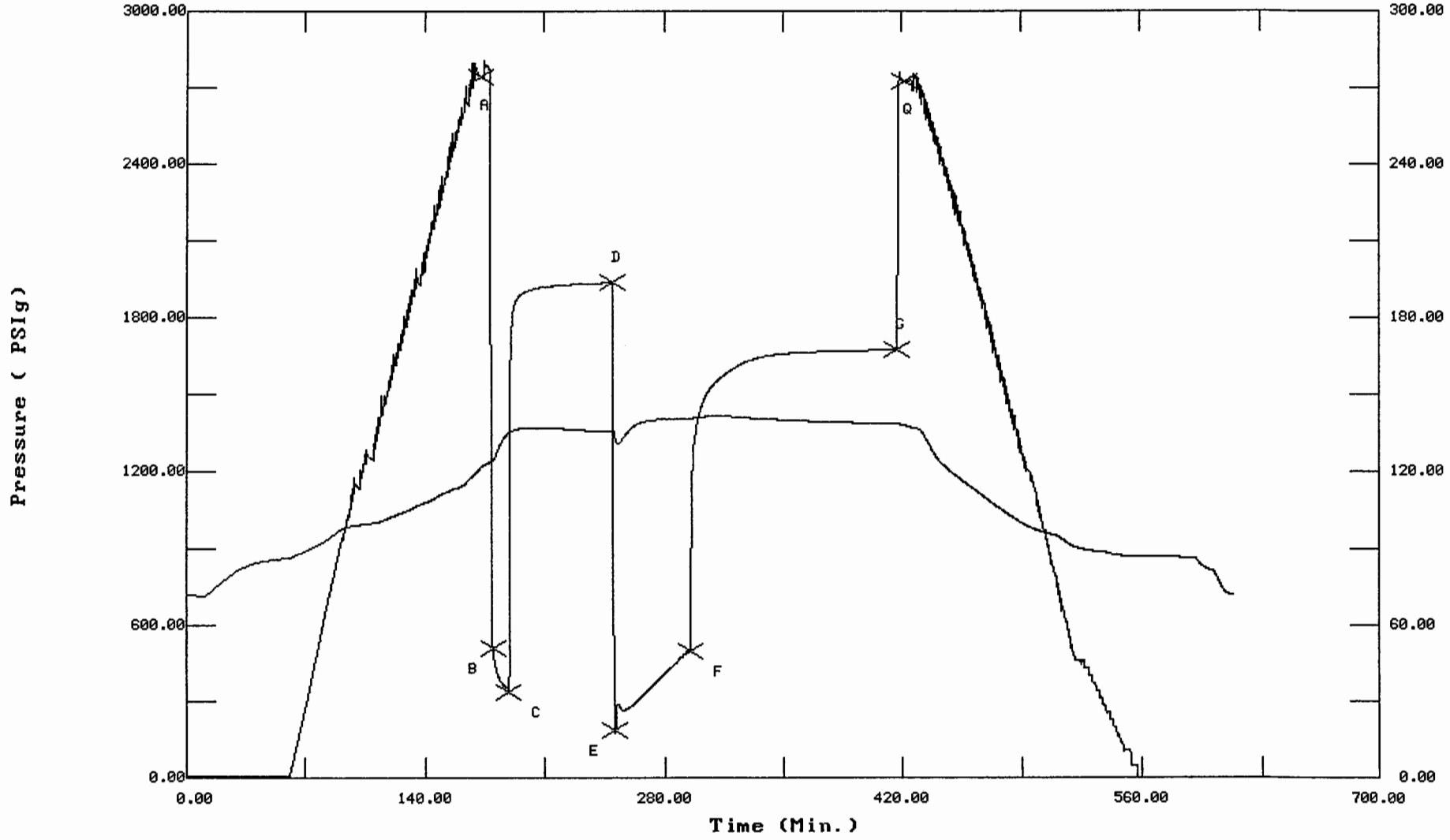


TEST HISTORY

13092 D.S.T.#4 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2742.33
B:	0.00	506.67
C:	9.50	334.78
D:	61.00	1936.28
E:	0.00	185.02
F:	44.75	496.98
G:	121.50	1673.48
Q:	0.00	2722.49



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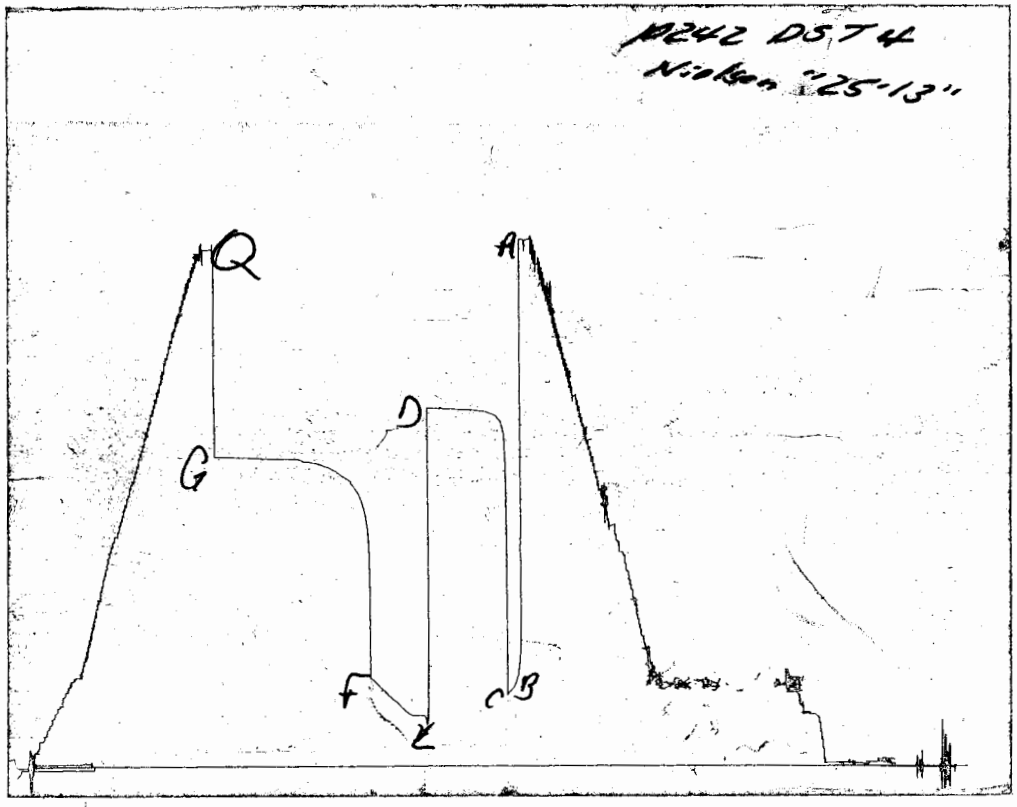

This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 13092 Date 10-23-00

Company Name Sam Gary

Lease Nielson "25-13" Test No. 4

County Comanche KS. Sec. 25 Twp. 32S. Rng. 19W

SAMPLER RECOVERY

Gas 14.4 C.F ~~MC~~

Oil 0 ML

Mud 0 ML

Water 800 ML

Other 0 ML

Pressure 1410 PSI

Total Vol. Rec. = 800 ML

Total Vol. chamber = 4000 ML.

PIT MUD ANALYSIS

Chlorides 7,600 ppm.

Resistivity 0.95 ohms @ 58 F

Viscosity 48

Mud Weight 9.0

Filtrate 9.5

Other 4# L.C.M.

SAMPLER ANALYSIS

Resistivity 0.23 ohms @ 68 F

Chlorides 32,000 ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides same ppm.

TRILOBITE TESTING L.L.C.
P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Sam Gary OPERATOR | Nielsen "25-13" WELL NAME AND NO. | 4 DST NO.

GTS 3 min. into I.F.P.

I.F.P.				F.F.P.			
Min.	Ins. of Water (PSIG)	Orifice Size	MCF/D	Min.	Ins. of Water (PSIG)	Orifice Size	MCF/D
5	20	3/4"	398,000	5	7	3/4"	211,000
10	25	"	464,000	10	4	"	156,000
				15	1	"	76,000
				20	2	1/2"	47,700
				25	1	"	33,900
				30	2	1/4	12,700
				35	7	"	25,000
				40	14	"	37,600
				45	16	"	40,900

Remarks: Gas burned.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

№ 13092

Test Ticket

Well Name & No. Nielsen "25-13" Test No. 4 Date 10-23-00

Company Sam Gary Jr. & Ass. Zone Tested Viola

Address Denver Colo. 80202-4838 Elevation 2011 KB 1999 GL

Co. Rep / Geo. Craig Padgett Cont. Duke Rig 5 Est. Ft. of Pay 17 Por. 5 %

Location: Sec. 25 Twp. 32S. Rge. 19W Co. Comanche State Ks.

No. of Copies Reg Distribution Sheet (Y, N) N. Turnkey (Y, N) N. Evaluation (Y, N) _____

Interval Tested 5824-5846 Initial Str Wt./Lbs. 74,000 Unseated Str Wt./Lbs. 28,000

Anchor Length 22' Tail=20' Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 62,000

Top Packer Depth 5819 Tool Weight 4800

Bottom Packer Depth 5824 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 5846 Wt. Pipe Run — Drill Collar Run 3 184

Mud Wt. 9.0 LCM 4# Vis. 48 WL 9.5 Drill Pipe Size 4½ XH Ft. Run 5633 23'up 90+/

Blow Description Strong OBB immed. GTS in 3 min. See Flow Chart. I.F.P.
4" blow-back I.S.I.P.
See Flow Chart F.F.P.
Strong OBB blow-back F.S.I.P.

Recovery — Total Feet 950 GIP 4867 Ft. in DC 184 Ft. in DP 7666

Rec. 30	Feet Of Heavy cut mud	%gas	%oil	38	%water	62	%mud
Rec. 920	Feet Of Gassy wtr.	3 %gas	%oil	97	%water		%mud
Rec.	Feet Of	%gas	%oil		%water		%mud
Rec.	Feet Of	%gas	%oil		%water		%mud
Rec.	Feet Of	%gas	%oil		%water		%mud

BHT 138 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW 0.23 @ 68 °F Chlorides 32,000 ppm Recovery Chlorides 7600 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud	2817	2742	PSI	Recorder No.	3017 "06:36"	T-On Location 5:00 A.M.
(B) First Initial Flow Pressure	520	506	PSI	(depth)	5826	T-Started 6:45 A.M.
(C) First Final Flow Pressure	429	334	PSI	Recorder No.	10242	T-Open 9:35 A.M.
(D) Initial Shut-In Pressure	1944	1936	PSI	(depth)	5843	T-Pulled 1:30 P.M.
(E) Second Initial Flow Pressure	233	185	PSI	Recorder No.	—	T-Out 5:00 P.M.
(F) Second Final Flow Pressure	511	496	PSI	(depth)	—	T-Off Location _____
(G) Final Shut-in Pressure	1689	1673	PSI	Initial Opening	10	Test 850
(Q) Final Hydrostatic Mud	2791	2722	PSI	Initial Shut-in	60	Jars 200
				Final Flow	45	Safety Joint 59
				Final Shut-in	120	Straddle _____
						Circ. Sub _____
						Sampler 200
						Extra Packer _____
						Elec. Rec. 150
						Mileage 165 6.5
						Other 2 Hrs.

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Approved By Craig Padgett

GEOLOGICAL REQUIREMENTS - DISTRIBUTION LIST

PROSPECT : CALVARY CREEK **WELL NAME:** NIELSON 25-13 **LOCATION:** SW SW SEC. 25 T32S - R19W

COUNTY/STATE: COMANCHE CO., KANSAS **OPERATOR:** Samuel Gary Jr. & Associates, Inc.

Company Name:	Samuel Gary Jr. & Associates	Elm Ridge Resources, Inc.	Nexus Resources			
	1670 Broadway, Ste 3300	12225 Greenville Avenue	650 South Cherry Street			
	Denver, CO 80202	Suite 950	Suite 420			
		Dallas, TX 75243	Denver, CO 80246			
Office Phone:	(303) 831-4673	(972) 889-2100	(303) 320-1983			
Fax Phone:	(303) 831-9012	(972) 889-2104	(303) 320-5780			
Contact Person:	Tom Fertal (303) 366-6198 hm	Jamie Clark (214) 369-4690 hm	Barry Curtiss-Lusher			
Alternate Contact:	Sam Gary Jr.(303) 322-2041 hm		home: (303) 399-5997			
State/Federal Rpts:	1	1	1			
Location Plat:	1	1	1			
Daily Drilling Rpts:						
Fax Daily:	1	1	1			
Mailed Weekly:						
Mud Logs Daily Fax:	1	1	1			
Final Prints:	4	1	2			
Drill Stem Test Rpts:	4	1	2			
Core Analysis Rpts:	1	1	1			
Electric Logs:						
Field Prints:	2					
Final Prints:	4	1	2			
Sepia/Mylar:	1					
Fax:	1					
LAS Diskette:	1					
Geologic Report:	1	1	1			
Final Well History:	1	1	1			
Completion Report:	1	1	1			
Fluid Analysis Rpts:	1	1	1			
Sample Cuts:	1					