

15-025-21196

TRILOBITE TESTING L.L.C.

14-34s-21w

OPERATOR : Zinke & Trumbo, Inc.

DATE 12-7-99

WELL NAME: Bouziden #1-14

KB 1784.00 ft

TICKET NO: 12676

DST #1

LOCATION : 14-34s-21w Clark co Ks

GR 1773.00 ft

FORMATION: Morrow

INTERVAL : 5347.00 To 5436.00 ft

TD 5436.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13754	13754	2350			PF Fr. 1130 to 1200 hr
SI 60	Range (Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1200 to 1300 hr
SF 30	Clock (hrs)	12	12	elect			SF Fr. 1300 to 1330 hr
FS 60	Depth (ft)	5414.0	5414.0	5351.0	0.0	0.0	FS Fr. 1330 to 1430 hr

	Field	1	2	3	4	
A. Init Hydro	2715.0	2709.0	2657.0	0.0	0.0	T STARTED 0836 hr
B. First Flow	68.0	85.0	42.0	0.0	0.0	T ON BOTM 1126 hr
B1. Final Flow	68.0	62.0	43.0	0.0	0.0	T OPEN 1130 hr
C. In Shut-in	147.0	148.0	148.0	0.0	0.0	T PULLED 1430 hr
D. Init Flow	68.0	74.0	50.0	0.0	0.0	T OUT 1700 hr
E. Final Flow	78.0	87.0	63.0	0.0	0.0	

	Field	1	2	3	4	TOOL DATA-----
F. Fl Shut-in	108.0	109.0	104.0	0.0	0.0	Tool Wt. 1500.00 lbs
G. Final Hydro	2644.0	2652.0	2639.0	0.0	0.0	Wt Set On Packer 30000.00 lbs
Inside/Outside	0	0	I			Wt Pulled Loose 120000.00 lbs

RECOVERY

Tot Fluid	55.00 ft of	55.00 ft in DC and	0.00 ft in DP
55.00	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		

Unseated Str Wt	102000.00 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	536.00 ft
D.P. Length	4860.00 ft

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

BLOW DESCRIPTION

Initial Flow:
Weak building to 2" weak blow

Final Flow:
Weak building to 3" steady weak blow

MUD DATA-----	
Mud Type	Chemical
Weight	9.20 lb/c
Vis.	48.00 S/L
W.L.	10.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 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	Dan Bangle
Co. Rep.	Jeff Zoller
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Bouziden #1-14

LOCATION : 14-34s-21w Clark co Ks

TICKET No. 12676 D.S.T. No. 1 DATE 12-7-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 27

TOTAL TOOL 58

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 120

D.C. ABOVE TOOLS.Stands9 Single Total 536

D.P. ABOVE TOOLS.Stands78 Single Total 4860

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5454

TOTAL DEPTH 5436

TOTAL DRILL PIPE ABOVE K.B. 18

REMARKS:

SAMPLER

Gas 0

Oil 0

Mud 4000 ML

Water 0

Pressure 200#

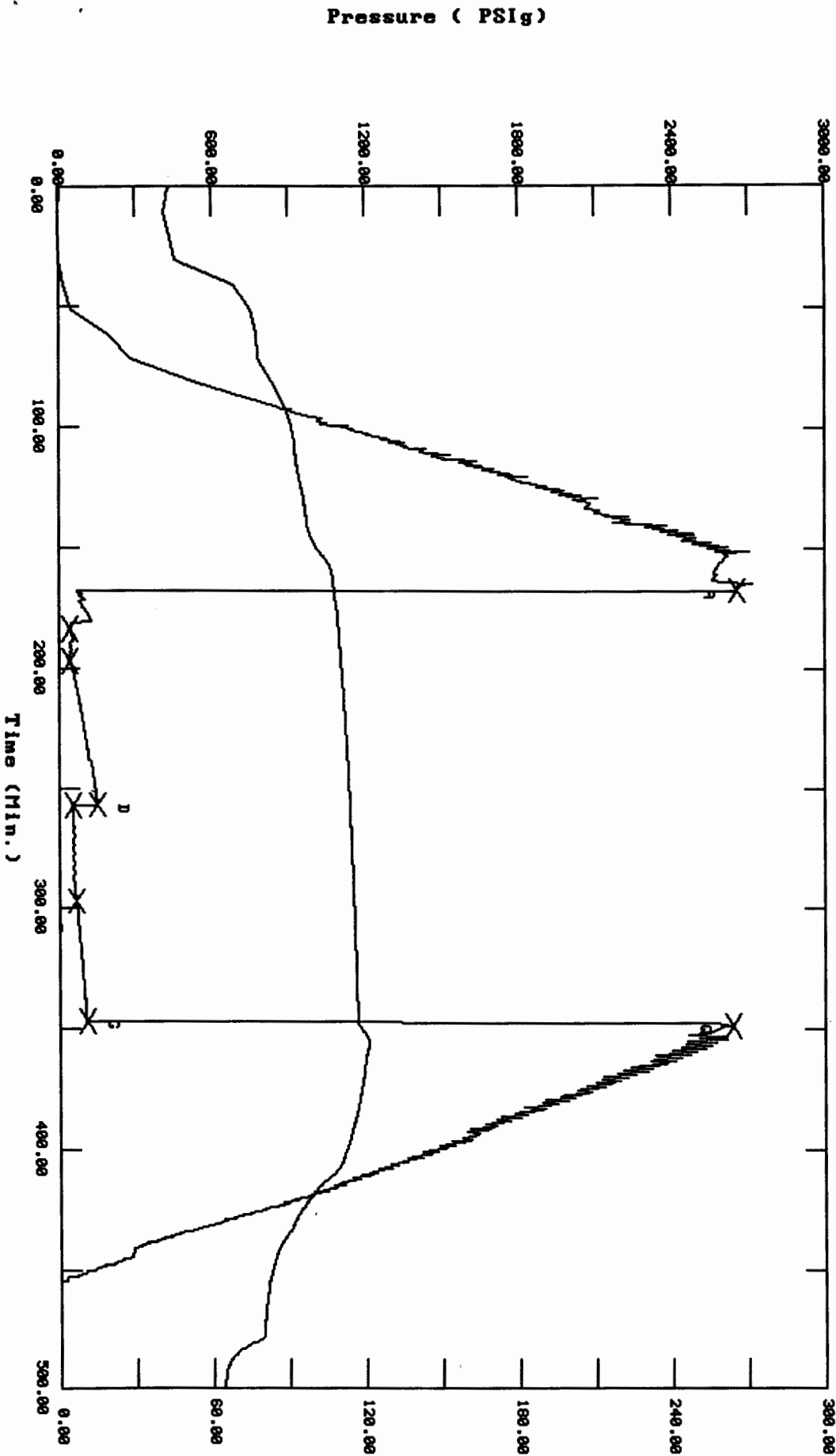
Total 4000 ML
plugging on Initial Flow

P.O. SUB	5196
C.O. SUB	5316
S.I. TOOL	5322
Sampler	5325
HMV	5330
JARS	5335
SAFETY JOINT	5338
PACKER	5342
PACKER	5347
DEPTH 5347	
STUBB 1'	5348
ANCHOR 1' Perfs	5349
1' co sub	5350
Alpine @	5351
1 std dp 62'	5412
1' co sub	5413
AK-1 @	5414
5' Perfs	5418
T.C. DEPTH	
5' Perfs	5423
5' Perfs	5428
3' Perfs	5431
BULLNOSE 5'	5436
T.D.	5436

TEST HISTORY
 12676 DST# 1 Bouziden #1-14 Zinke&Trumbo

Flag Points:

Time (Min.)	PK	PSig
01	0.00	2857.40
B1	0.00	41.96
C1	13.50	42.54
D1	60.00	149.39
E1	0.00	50.10
F1	39.50	63.52
G1	50.00	103.01
D1	0.00	2639.44

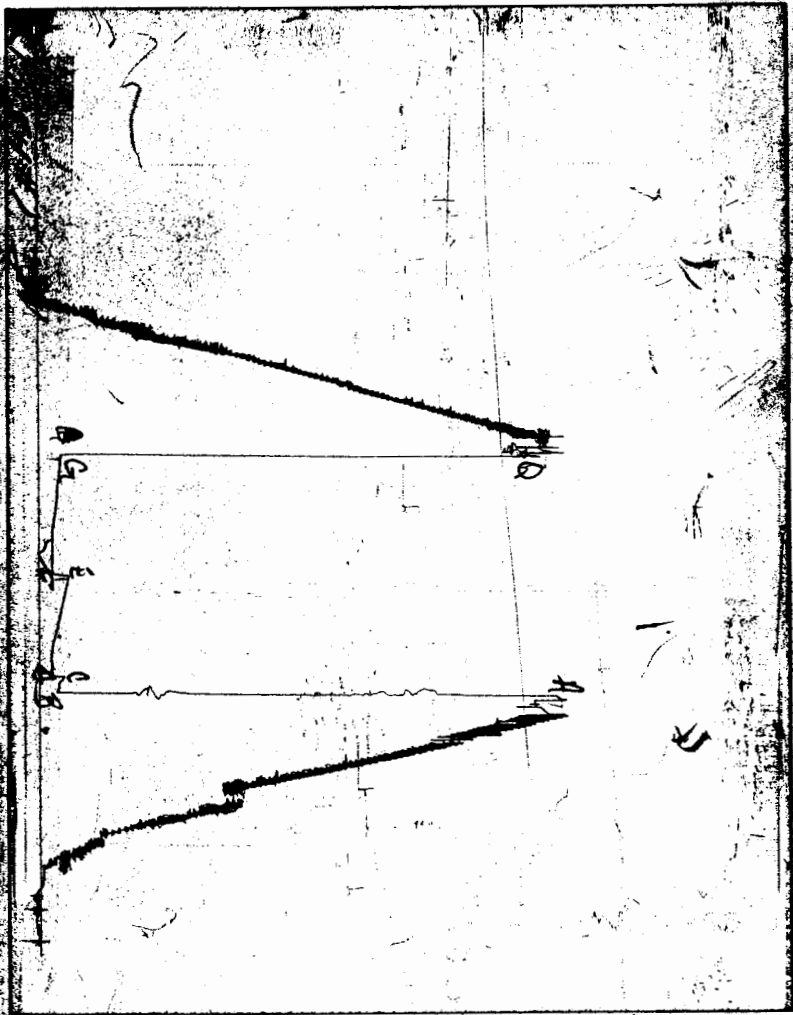


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

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. 12 676 Date 12-7-99
Company Name Zinke & Trumbo
Lease Bouziden #1-14 Test No. 1
County Clark Sec. 14 Twp. 34 Rng. 21

SAMPLER RECOVERY

Gas 0 ML
Oil 0 ML
Mud 4000 ML
Water 0 ML
Other 0 ML
Pressure 200 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 4600 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 48
Mud Weight 9.2
Filtrate 10.2
Other 4# LCM

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12676

Well Name & No. <u>Bauziden # 1-14</u>	Test No. <u>1</u>	Date <u>12-7-99</u>
Company <u>Zinke + Trumbo, Inc</u>	Zone Tested <u>Morrew</u>	
Address <u>1002 E. 33rd St. Ste 100, Tulsa, OK 74105</u>	Elevation <u>1784</u>	KB <u>177.3</u> GL
Co. Rep / Geo. <u>Jeff Zoller</u>	Cont. <u>Duke #5</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>14</u>	Twp. <u>34</u>	Rge. <u>21</u> Co. <u>Clock</u> State <u>Ks</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested <u>5347 - 5436</u>	Initial Str Wt/Lbs <u>100,000</u>	Unseated Str Wt/Lbs <u>100,000</u>
Anchor Length <u>89</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>120,000</u>
Top Packer Depth <u>5342</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>5347</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>5436</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>536</u>
Mud Wt. <u>9.2</u> LCM <u>4#</u> Vis. <u>48</u> WL <u>10.2</u>	Drill Pipe Size <u>4.5xH</u>	Ft. Run <u>4860</u>
Blow Description <u>F.F. weak-building TO 2" weak blow-</u>		

F.F. weak-building TO 3" steady weak blow.

Recovery — Total Feet <u>55</u>	GIP <u> </u>	Ft. in DC <u>35</u>	Ft. in DP <u> </u>
Rec. <u>55</u> Feet Of <u>D.M.</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 <u>117</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>	ppm Recovery <u> </u>	Chlorides <u>4600</u>	ppm System <u> </u>

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2715</u>	<u>2657</u>		<u>2350</u>	<u>06:15</u>
(B) First Initial Flow Pressure	<u>68</u>	<u>42</u>		(depth) <u>5351</u>	T-Started <u>08:36</u>
(C) First Final Flow Pressure	<u>68</u>	<u>43</u>		Recorder No. <u>13754</u>	T-Open <u>11:30</u>
(D) Initial Shut-In Pressure	<u>147</u>	<u>148</u>		(depth) <u>5414</u>	T-Pulled <u>14:30</u>
(E) Second Initial Flow Pressure	<u>68</u>	<u>50</u>		Recorder No. <u> </u>	T-Out <u>17:00</u>
(F) Second Final Flow Pressure	<u>78</u>	<u>63</u>		(depth) <u> </u>	T-Off Location <u>17:30</u>
(G) Final Shut-in Pressure	<u>108</u>	<u>104</u>		Initial Opening <u>30</u>	Test <u>800</u>
(Q) Final Hydrostatic Mud	<u>2644</u>	<u>2639</u>		Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
				Final Flow <u>30</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
				Final Shut-in <u>60</u>	Straddle <u> </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 Dan Bangle

Circ. Sub <u> </u>
Sampler <input checked="" type="checkbox"/> <u>200</u>
Extra Packer <u> </u>
Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
Mileage <u> </u>
Other <u> </u>
TOTAL PRICE \$ <u>1400</u>

TRILOBITE TESTING L.L.C.

OPERATOR : Zinke & Trumbo, Inc.

DATE 12-8-99

WELL NAME: Bouziden #1-14

KB 1784.00 ft

TICKET NO: 12677

DST #2

LOCATION : 14-34s-21w Clark co Ks

GR 1773.00 ft

FORMATION: Lower Morrow

INTERVAL : 5468.00 To 5483.00 ft

TD 5483.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2350			PF Fr. 0521 to 0551 hr
SI 60 Range (Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0551 to 0651 hr
SF 60 Clock (hrs)	12	12	elect			SF Fr. 0651 to 0751 hr
FS 120 Depth (ft)	5480.0	5480.0	5471.0	0.0	0.0	FS Fr. 0751 to 0951 hr

	Field	1	2	3	4	
A. Init Hydro	2806.0	2818.0	2747.0	0.0	0.0	T STARTED 0248 hr
B. First Flow	29.0	30.0	34.0	0.0	0.0	T ON BOTM 0516 hr
B1. Final Flow	29.0	21.0	30.0	0.0	0.0	T OPEN 0521 hr
C. In Shut-in	1986.0	1995.0	2025.0	0.0	0.0	T PULLED 0951 hr
D. Init Flow	19.0	19.0	24.0	0.0	0.0	T OUT 1230 hr
E. Final Flow	19.0	15.0	26.0	0.0	0.0	
F. Fl Shut-in	1986.0	1993.0	2035.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2725.0	2717.0	2705.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 125000.00 lbs
						Initial Str Wt 102000.00 lbs
						Unseated Str Wt 102000.00 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 536.00 ft
						D.P. Length 4923.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
 5.00 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-building to fair blow-bottom of bucket in 8 minutes.

Initial Shut-In:

Bled off blow-no blow back

Final Flow:

Strong-bottom of bucket in 2 minutes
 Gas to surface in 15 minutes.

Final Shut-In:

Bled off blow-no blow back

SAMPLES: Bottle filled

SENT TO: Caraway

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/ci
Vis.	49.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Jeff Zoller
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Zinke & Trumbo, Inc.

DATE: 12-8-99

WELL NAME: Bouziden #1-14

KB Elev: 1784.00 ft TICKET #12677 DST #2

WELL LOCATION: 14-34s-21w Clark co Ks

GR Elev: 1773.00 ft FORMATION: Lower Morrow

INTERVAL Fr.: 5468.00 To 5483.00 T.D.: 5483.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.50	0	10	19900.0
30	0.50	0	10	19900.0
40	0.50	0	10	19900.0
50	0.50	0	10	19900.0
60	0.50	0	10	19900.0

*** TOOL DIAGRAM *** CONV

WELL NAME: Bouziden #1-14

LOCATION : 14-34s-21w Clark co Ks

TICKET No. 12677 D.S.T. No. 2 DATE 12-8-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 15

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 46

D.C. ABOVE TOOLS.Stands9 Single Total 536

D.P. ABOVE TOOLS.Stands79 Single Total 4923

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5505

TOTAL DEPTH 5483

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

SAMPLER

Gas 4 cubic feet

Oil 0

Mud 2000ml

Water 0

Pressure 2000#

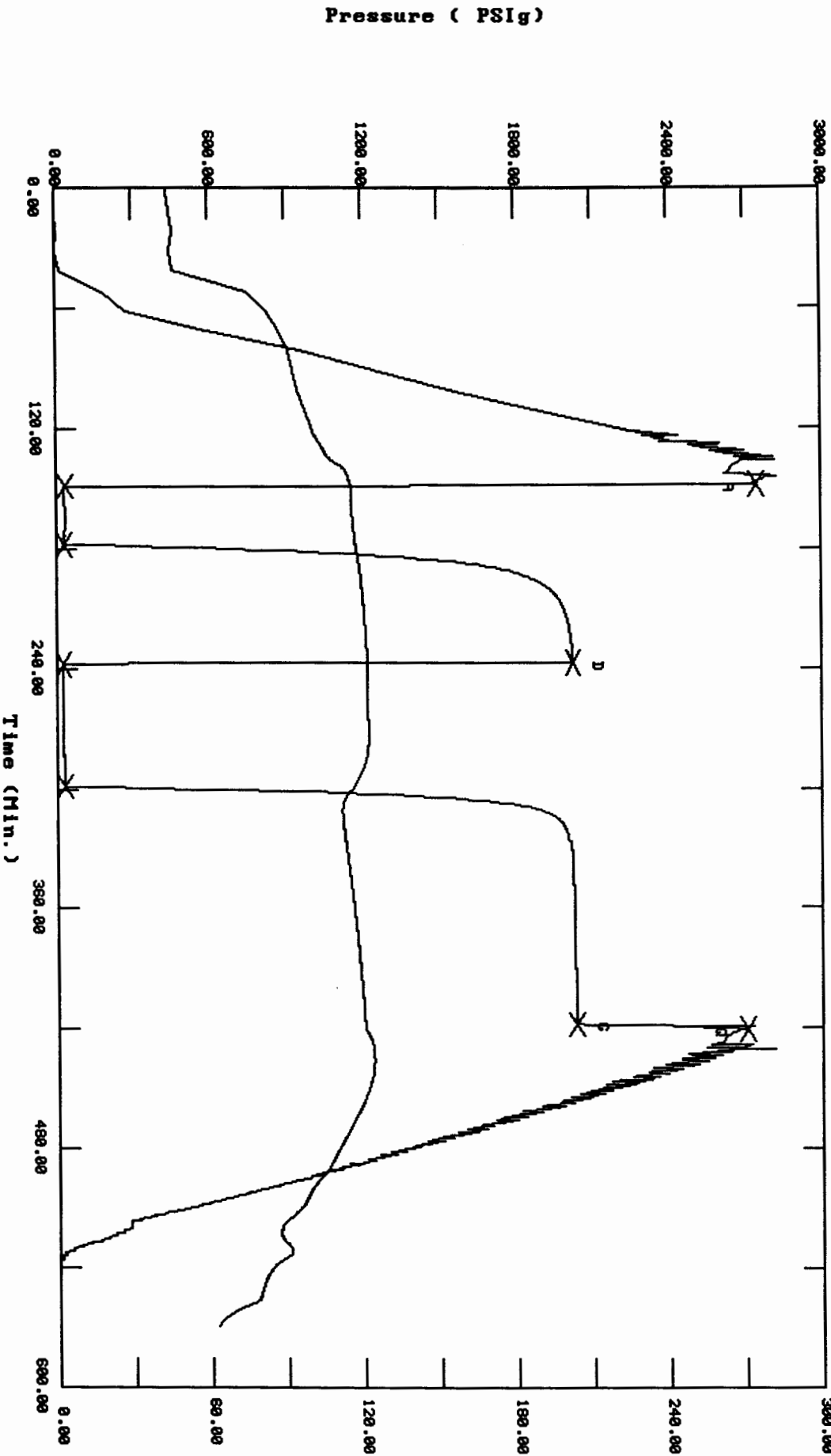
Total 4000ml

P.O. SUB	5317
C.O. SUB	5437
S.I. TOOL	5443
Sampler	5446
HMV	5451
JARS	5456
SAFETY JOINT	5459
PACKER	5463
PACKER	5468
DEPTH 5468	
STUBB 1'	5469
ANCHOR 1' Perfs	5470
Alpine @	5471
5' Perfs	5475
3' Perfs	5478
T.C.	
DEPTH	
AK-1 @	5480
BULLNOSE 5'	5483
T.D.	5483

TEST HISTORY
 TR# 12677 DST# 2 Bouziden #1-14 Zinke&Trumbo

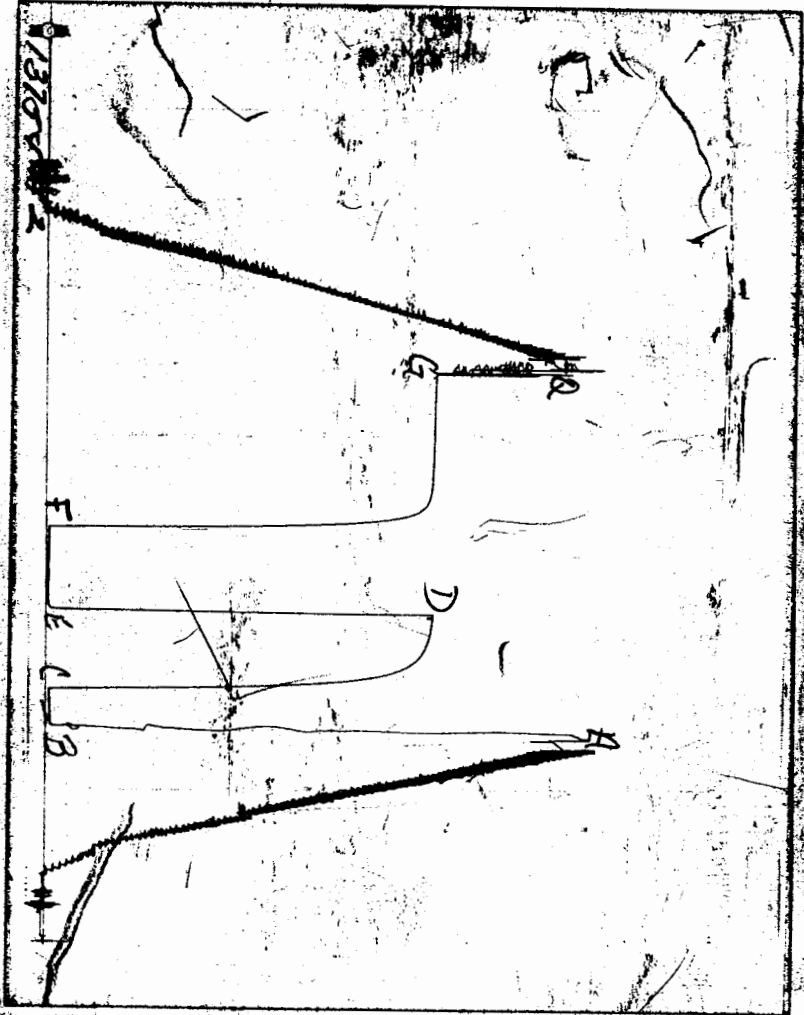
Flag Points
 (Min.) PK (PSig)

R1	0.00	2746.78
B1	0.00	33.98
C1	29.00	29.87
D1	59.50	2025.34
E1	0.00	24.33
F1	60.50	26.26
G1	119.50	2034.83
H1	0.00	2705.07



Temperature (DEG F)

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. 12677 Date 12-8-99
Company Name Zinke & Trumbo, Inc
Lease Bouziden #1-14 Test No. 2
County Clark Sec. 14 Twp. 34 Rng. 21

SAMPLER RECOVERY

Gas 4 CU FT MC
Oil 0 ML
Mud 2000 ML
Water 0 ML
Other 0 ML
Pressure 2000 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides _____ ppm.
Resistivity _____ ohms @ _____ F
Viscosity 49
Mud Weight 9.2
Filtrate 8
Other 4# LCM

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12677

Well Name & No. Bauzidea #1-14 Test No. 2 Date 12-8-99
 Company Zinke & Trumbo, Inc Zone Tested Lower Merrow
 Address _____ Elevation 1784 KB 1773 GL
 Co. Rep / Geo. Jeff Zoller Cont. Duke #5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 14 Twp. 34 Rge. 21 Co. Clark State Ks
 No. of Copies _____ Distribution Sheet (Y, N) Y Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 5468 - 5483 Initial Str Wt./Lbs. 102,000 Unseated Str Wt./Lbs. 102,000
 Anchor Length 15 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 125,000
 Top Packer Depth 5463 Tool Weight 1000
 Bottom Packer Depth 5468 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Total Depth 5483 Wt. Pipe Run _____ Drill Collar Run 536
 Mud Wt. 9.2 LCM 4# Vis. 49 WL 8 Drill Pipe Size 4.5XH Ft. Run 4923
 Blow Description I.F. Weak - building to fair blow - B.O.B. in 8 min.
ISI - Bled off blow - no blowback
E.F. Strong - B.O.B. in 2 min - GTS in 15 min
E.SI - Bled off blow - no blowback

Recovery — Total Feet 5 GIP GTS Ft. in DC 5 Ft. in DP _____
 Rec. 5 Feet Of D.M. %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 120 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4500 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2806</u>	<u>2747</u>		<u>2350</u>	<u>02:30</u>
(B) First Initial Flow Pressure	<u>29</u>	<u>34</u>		(depth) <u>5471</u>	T-Started <u>02:48</u>
(C) First Final Flow Pressure	<u>29</u>	<u>30</u>		Recorder No. <u>13754</u>	T-Open <u>05:21</u>
(D) Initial Shut-In Pressure	<u>1986</u>	<u>2025</u>		(depth) <u>5480</u>	T-Pulled <u>09:51</u>
(E) Second Initial Flow Pressure	<u>19</u>	<u>24</u>		Recorder No. _____	T-Out <u>12:30</u>
(F) Second Final Flow Pressure	<u>19</u>	<u>26</u>		(depth) _____	T-Off Location <u>13:00</u>
(G) Final Shut-in Pressure	<u>1986</u>	<u>2030</u>		Initial Opening <u>30</u>	Test <u>800</u>
(Q) Final Hydrostatic Mud	<u>2725</u>	<u>2705</u>		Initial Shut-in <u>60</u>	Jars <u>X</u> <u>200</u>
				Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>
				Final Shut-in <u>120</u>	Straddle _____

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Approved By _____
 Our Representative Wan Bangle

Circ. Sub _____
 Sampler X 200
 Extra Packer _____
 Elec. Rec. X 150
 Mileage _____
 Other ext copy 30 5 15:00
 TOTAL PRICE \$ 1400