

15-097-21413

6-28s-18w

WELL NAME: Gary Williams #6
COMPANY: T.G.T. Petroleum Corporation
LOCATION: Sec. 6 Twp. 28s Rge. 18w
Kiowa County Kansas
DATE: 11-25-96

TRILOBITE TESTING L.L.C.

OPERATOR : T.G.T. Petroleum Corp.
 WELL NAME: Gary Williams #6
 LOCATION : 6-28s-18w Kiowa KS
 INTERVAL : 4436.00 To 4450.00 ft

DATE 11-17-96
 KB 2247.00 ft TICKET NO: 8880 DST #1
 GR 2252.00 ft FORMATION: Kansas City "I"
 TD 4450.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 60	Rec.	11086	11086	10994			PF Fr. 0500 to 0600 hr
SI 60	Range(Psi)	4350.0	4350.0	4200.0	0.0	0.0	IS Fr. 0600 to 0700 hr
SF 60	Clock(hrs)	12	12	12			SF Fr. 0700 to 0800 hr
FS 60	Depth(ft)	4447.0	4447.0	4439.0	0.0	0.0	FS Fr. 0800 to 0900 hr

	Field	1	2	3	4	
A. Init Hydro	2251.0	2266.0	0.0	0.0	0.0	T STARTED 0300 hr
B. First Flow	55.0	57.0	0.0	0.0	0.0	T ON BOTM 0457 hr
B1. Final Flow	76.0	70.0	0.0	0.0	0.0	T OPEN 0500 hr
C. In Shut-in	811.0	817.0	0.0	0.0	0.0	T PULLED 0900 hr
D. Init Flow	109.0	111.0	0.0	0.0	0.0	T OUT 1030 hr
E. Final Flow	120.0	107.0	0.0	0.0	0.0	
F. Fl Shut-in	811.0	798.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2262.0	2232.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 200.00 ft of 200.00 ft in DC and 0.00 ft in DP
 80.00 ft of Slightly gas cut mud
 0.00 ft of
 60.00 ft of Water cut mud with oil specs
 0.00 ft of
 60.00 ft of Water cut mud with gas bubbles
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 65000.00 P.P.M. A.P.I. Gravity 0.00

Initial Str Wt 60000.00 lbs
 Unseated Str Wt 60000.00 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 239.01 ft
 D.P. Length 4206.00 ft
 H.W. I.D 2.70 in

MUD DATA-----

Mud Type Chem
 Weight 9.30 lb/c
 Vis. 48.00 S/L
 W.L. 0.00 in3
 F.C. 0.00 in
 Mud Drop

BLOW DESCRIPTION

Initial Flow -
 Weak blow building to 6"

Final Flow -
 Weak blow built to 5"

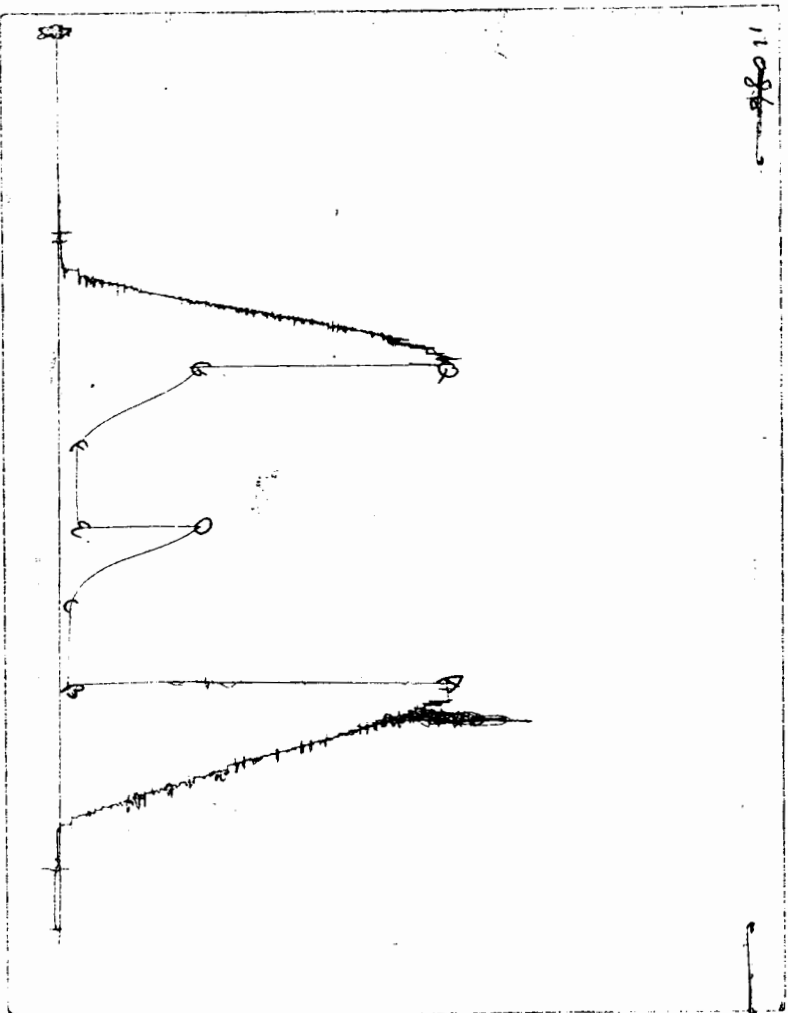
Amt. of fill 0.00 ft
 Btm. H. Temp. 1180.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00

SAMPLES:
 SENT TO:

Cushion Type
 Reversed Out
 Tool Chased
 Tester Darren Amerine
 Co. Rep. Steve Davis
 Contr. Abercrombie
 Rig # 5
 Unit #
 Pump T.

Test Successful: Y

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

No 8880

Test Ticket

Well Name & No. Gary Williams #6 Test No. #1 Date 11/17/96
 Company T.G.T. Pet. Corp. Zone Tested K.C. #1-T
 Address 155 N Market Suite 820 Wichita Ks Elevation 2247 KB 2252 GL
 Co. Rep / Geo. Steve Davis Cont. Abercrombie #5 Est. Ft. of Pay Por. %
 Location: Sec. 6 Twp. 285 Rge. 18W Co. Kiowa State Ks
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4436 - 4450' Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 80,000
 Anchor Length 14' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 8,000
 Top Packer Depth N/A Hole Size — 7-7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4436 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 4450 Drill Collar — 2.25 Ft. Run 298.01'
 Mud Wt. 9.3 LCM N/A Vis. 48 WL Drill Pipe Size 4 1/2" XH Ft. Run 4206'
 Blow Description F.F. Weak blow. Building to 6" in Diesel bucket
F.F. Weak blow. Built to 5" in Diesel bucket

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP
Rec. <u>80'</u> Feet Of <u>56.6M</u>	<u>200'</u>	<u> </u>	<u> </u>
Rec. <u>60'</u> Feet Of <u>WCN1 with oil specs</u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u>60'</u> Feet Of <u>WCN1 Gas bubbles</u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>

BHT 118 °F Gravity 1.9 °API D@ °F Corrected Gravity °API
 RW @ 38' °F Chlorides 65,000 ppm Recovery Chlorides 25,000 ppm System
 (A) Initial Hydrostatic Mud 2251 PSI Recorder No. 11086 T-Started 03:00 AM
 (B) First Initial Flow Pressure 55 PSI @ (depth) 4447 T-Open 05:00 AM
 (C) First Final Flow Pressure 76 PSI Recorder No. 10994 T-Pulled 09:00
 (D) Initial Shut-in Pressure 811 PSI @ (depth) 4439 T-Out 10:30
 (E) Second Initial Flow Pressure 109 PSI Recorder No.
 (F) Second Final Flow Pressure 120 PSI @ (depth)
 (G) Final Shut-in Pressure 811 PSI Initial Opening 60 Test
 (H) Final Hydrostatic Mud 2262 PSI Initial Shut-in 60 Jars
AK11086 Final Flow 60 Safety Joint
 Final Shut-in 60 Straddle
 Circ. Sub
 Sampler
 Extra Packer
 Elect. Rec.
 Other

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 [Signature]
 Our Representative Darren Linneman
 TOTAL PRICE \$ 650

5

TRILOBITE TESTING L.L.C.

OPERATOR : T.G.T. Petroleum Corp. DATE 11-18-96
 WELL NAME: Gary Williams #6 KB 2282.00 ft TICKET NO: 8881 DST #2
 LOCATION : 6-28s-18w Kiowa KS GR 2242.00 ft FORMATION: Kansas City "J"
 INTERVAL : 4455.00 To 4485.00 ft TD 4485.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	0	Rec.					PF Fr.	to	hr
SI	0	Range (Psi)	0.0	0.0	0.0	0.0	IS Fr.	to	hr
SF	0	Clock (hrs)					SF Fr.	to	hr
FS	0	Depth(ft)	0.0	0.0	0.0	0.0	FS Fr.	to	hr

	Field	1	2	3	4		
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED	2400 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM	hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN	hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED	0330 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT	0515 hr
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		

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

TOOL DATA-----
 Tool Wt. 0.00 lbs
 Wt Set On Packer 0.00 lbs
 Wt Pulled Loose 0.00 lbs
 Initial Str Wt 0.00 lbs
 Unseated Str Wt 100000.00 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 239.00 ft
 D.P. Length 0.00 ft
 H.W. I.D 2.70 in

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

BLOW DESCRIPTION
 Hit bridge going in hole.

Wouldn't go to bottom.

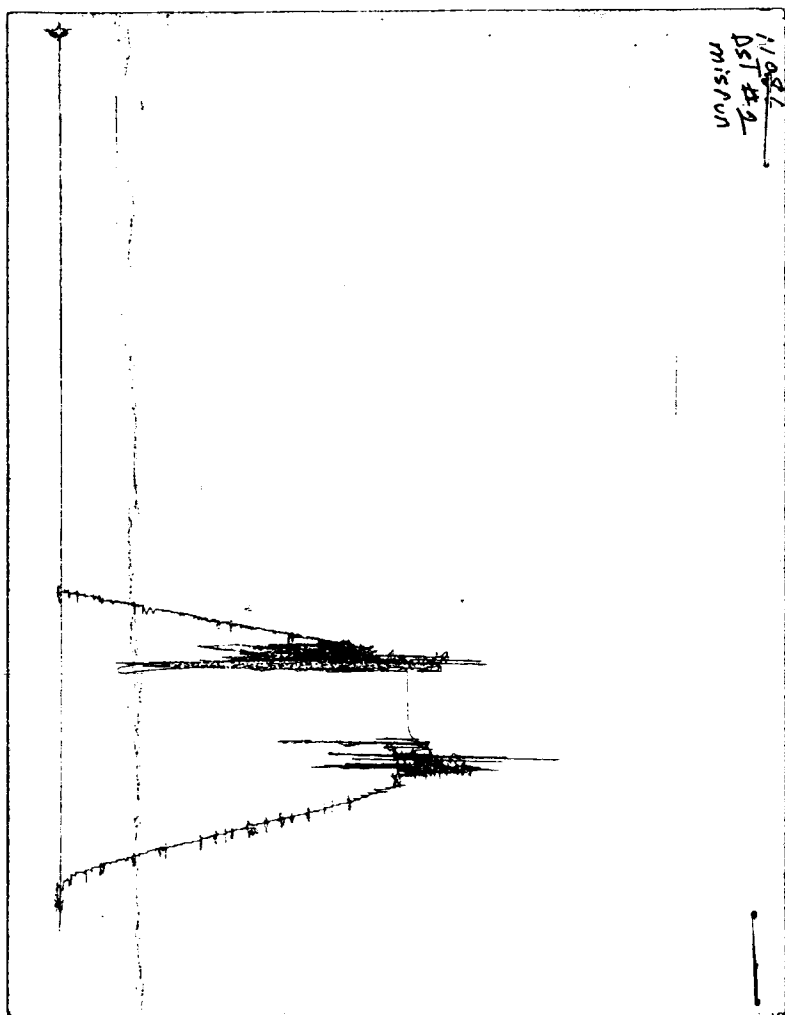
Misrun

MUD DATA-----
 Mud Type Chem
 Weight 9.50 lb/ci
 Vis. 49.00 S/L
 W.L. 0.00 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 0.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Darren Amerine
 Co. Rep. Steve Davis
 Contr. Abercrombie
 Rig # 5
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: N

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 8881

Well Name & No. Gary Williams #6 Test No. #2 Date 11/18/96
 Company T.G.T. Pet. Corp. Zone Tested Miston
 Address 155 N Market Suite 820 Wichita, KS Elevation 2252 KB 2297 GL
 Co. Rep / Geo. Steve Davis Cont. Abercrombie #5 Est. Ft. of Pay --- Por. --- %
 Location: Sec. 6 Twp. 28S Rge. 18W Co. Howe State KS
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4455' - 4485' Initial Str Wt./Lbs. --- Unseated Str Wt./Lbs. 100,000
 Anchor Length 30' Wt. Set Lbs. --- Wt. Pulled Loose/Lbs. ---
 Top Packer Depth N/A Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Bottom Packer Depth 4453' Wt. Pipe I.D. — 2.7 Ft. Run N/A
 Total Depth 4485' Drill Collar — 2.25 Ft. Run 239' - H-90
 Mud Wt. 9.5 LCM # Vis. 48 WL --- Drill Pipe Size 4 1/2 XH Ft. Run ---
 Blow Description Hit bridge going hole. Wouldn't go to bottom.
Miston

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

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI Recorder No. 11086 T-Started 12:00 AM
 (B) First Initial Flow Pressure _____ PSI @ (depth) 4458' T-Open N/A
 (C) First Final Flow Pressure _____ PSI Recorder No. 10994 T-Pulled 3:30
 (D) Initial Shut-in Pressure _____ PSI @ (depth) 4482' T-Out 5:15
 (E) Second Initial Flow Pressure _____ PSI Recorder No. _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____
 (G) Final Shut-in Pressure _____ PSI Initial Opening _____ Test ✓
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-in _____ Jars _____

Final Flow _____ Safety Joint ✓
 Final Shut-in _____ Straddle _____
 _____ Circ. Sub _____
 _____ Sampler _____
 Extra Packer _____

Approved By _____

Our Representative Darren Plummer

Elect. Rec. _____

Other _____

TOTAL PRICE \$ 450.00

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.

TRILOBITE TESTING L.L.C.

OPERATOR : T.G.T. Petroleum Corp.
 WELL NAME: Gary Williams #6
 LOCATION : 6-28s-18w Kiowa KS
 INTERVAL : 4850.00 To 4870.00 ft

DATE 11-20-96
 KB 2252.00 ft TICKET NO: 8882 DST #3
 GR 2247.00 ft FORMATION: Kinderhook
 TD 4870.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 60	Rec.	11086	11086	10994			PF Fr. 2312 to 0012 hr
SI 60	Range(Psi)	4852.0	4852.0	4200.0	0.0	0.0	IS Fr. 0012 to 0112 hr
SF 60	Clock(hrs)	12	12	12			SF Fr. 0112 to 0212 hr
FS 60	Depth(ft)	4350.0	4350.0	4867.0	0.0	0.0	FS Fr. 0212 to 0312 hr

	Field	1	2	3	4	
A. Init Hydro	2589.0	2635.0	0.0	0.0	0.0	T STARTED 2130 hr
B. First Flow	33.0	31.0	0.0	0.0	0.0	T ON BOTM 2310 hr
B1. Final Flow	55.0	51.0	0.0	0.0	0.0	T OPEN 2312 hr
C. In Shut-in	415.0	408.0	0.0	0.0	0.0	T PULLED 0312 hr
D. Init Flow	87.0	73.0	0.0	0.0	0.0	T OUT 0455 hr
E. Final Flow	98.0	85.0	0.0	0.0	0.0	
F. Fl Shut-in	448.0	397.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2567.0	2527.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 102000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 68000.00 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 239.00 ft
						D.P. Length 4609.00 ft
						H.W. I.D 2.70 in

RECOVERY

Tot Fluid 110.00 ft of 110.00 ft in DC and 0.00 ft in DP
 110.00 ft of Water cut 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
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow -
 Weak blow. Built to 1-1/4" in bucket.
 Slowly decreased to 1/2" in bucket.

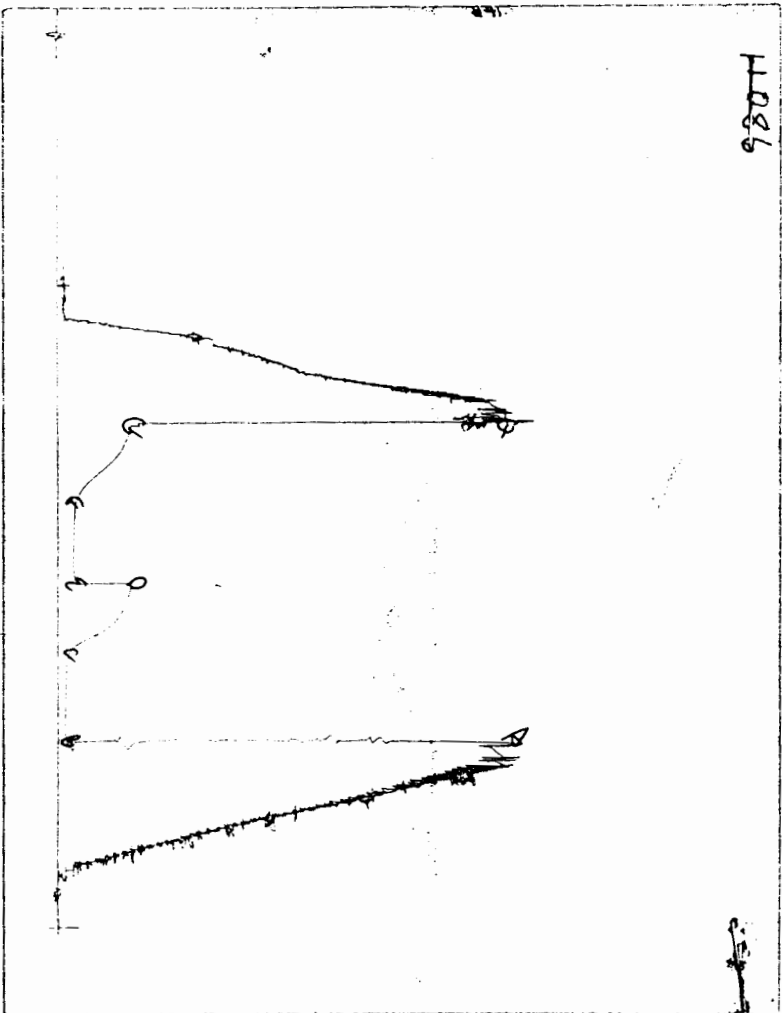
Final Flow -
 No blow

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chem
 Weight 9.60 lb/c:
 Vis. 60.00 S/L
 W.L. 12.00 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 128.00 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 Darren Amerine
 Co. Rep. Steve Davis
 Contr. Abercrombie
 Rig # 5
 Unit #
 Pump T.

Test Successful: Y

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

No 8882

Test Ticket

Well Name & No. Gary Williams #6 Test No. # 3 Date 11/20/96
Company T.G.T. Pet. Corp. 155 North Market Zone Tested Kingman
Address Suite 820 Wichita, KS 67202 Elevation 2252 KB 2247 GL
Co. Rep / Geo. Steve Davis Cont. Abercrombie #5 Est. Ft. of Pay 5' Por. %
Location: Sec. 6 Twp. 28S Rge. 18W Co. Kingman State KS
No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4850' - 4870' Initial Str Wt./Lbs. 68000 Unseated Str Wt./Lbs. 68000
Anchor Length 20' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 102,000
Top Packer Depth N/A Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth 4849' Wt. Pipe I.D. — 2.7 Ft. Run N/A
Total Depth 4870' Drill Collar — 2.25 Ft. Run 239'
Mud Wt. 9.6 LCM #/ Vis. 60 WL 12.0 Drill Pipe Size 4 1/2 XH Ft. Run 4609'
Blow Description IF: Weak blow. Built to 1 1/4 in bucket. Slowly
Decreased to 1/2" in bucket.
FF: No blow.

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>110'</u>	Feet Of <u>W.C.M</u>					<u>10</u>	<u>90</u>
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 128°F °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 36000 ppm System
(A) Initial Hydrostatic Mud 2589 PSI Recorder No. 11086 T-Started 9:30 P.m.
(B) First Initial Flow Pressure 33 PSI @ (depth) 4852' T-Open 11:12
(C) First Final Flow Pressure 55 PSI Recorder No. 10994 T-Pulled 3:12 A.m.
(D) Initial Shut-in Pressure 415 PSI @ (depth) 4867' T-Out 4:55
(E) Second Initial Flow Pressure 87 PSI Recorder No. _____
(F) Second Final Flow Pressure 98 PSI @ (depth) _____
(G) Final Shut-in Pressure 448 PSI Initial Opening 60 Test
(H) Final Hydrostatic Mud 2567 PSI Initial Shut-in 60 Jars

Final Flow 60 Safety Joint
Final Shut-in 60 Straddle _____
_____ Circ. Sub _____
_____ Sampler _____
_____ Extra Packer _____
_____ Elect. Rec. _____
_____ Other _____

Approved By [Signature]
Our Representative Daniel [Signature]

TOTAL PRICE \$ 850.00

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.