

15-109-20624

29-15s-34w

WELL NAME: Tucker "C-D" #1
OPERATOR: Pickrell Drilling Co Inc
LOCATION: Sec 29 Twp 15S Rge 34W
Logan County Kansas
DATE: 05/06/96

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling Co Inc
 WELL NAME: Tucker "C-D" #1
 LOCATION : 29-15S-34W, Logan Cty KS
 INTERVAL : 4200.00 To 4232.00 ft

DATE 05/04/96
 KB 3043.00 ft TICKET NO: 9218 DST #1
 GR 3038.00 ft FORMATION: Lansing - KC "J"
 TD 4232.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	11057			PF Fr. 2140 to 2210 hr
SI 60 Range(Psi)	4475.0	4475.0	4500.0	0.0	0.0	IS Fr. 2210 to 2310 hr
SF 90 Clock(hrs)	AK-1	AK-1	AK-1			SF Fr. 2310 to 0040 hr
FS 90 Depth(ft)	4207.0	4207.0	4229.0	0.0	0.0	FS Fr. 0040 to 0210 hr

	Field	1	2	3	4	
A. Init Hydro	2109.0	2117.0	0.0	0.0	0.0	T STARTED 1950 hr
B. First Flow	155.0	153.0	0.0	0.0	0.0	T ON BOTM 2138 hr
B1. Final Flow	556.0	559.0	0.0	0.0	0.0	T OPEN 2140 hr
C. In Shut-in	1242.0	1233.0	0.0	0.0	0.0	T PULLED 0210 hr
D. Init Flow	613.0	613.0	0.0	0.0	0.0	T OUT 0435 hr
E. Final Flow	1064.0	1060.0	0.0	0.0	0.0	
F. Fl Shut-in	1220.0	1211.0	0.0	0.0	0.0	
G. Final Hydro	2087.0	2063.0	0.0	0.0	0.0	
Inside/Outside	I	I	O			

RECOVERY

Tot Fluid 2415.00 ft of 240.00 ft in DC and 2175.00 ft in DP
 120.00 ft of Mud cut water - 70% water, 30% mud
 120.00 ft of Water w/ trace mud - 95% water, 5% mud
 2175.00 ft of Salt water - 100% water

TOOL DATA-----
 Tool Wt. 0.00 lbs
 Wt Set On Packer 26000.00 lbs
 Wt Pulled Loose 71000.00 lbs
 Initial Str Wt 44000.00 lbs
 Unseated Str Wt 56000.00 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 240.00 ft
 D.P. Length 3957.00 ft

RW .165 @ 78 F

SALINITY 39950.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 Bottom of bucket in 2.5 min, strong
 blow

Initial Shutin -
 Bled blow, no return

Final Flow -
 Bottom of bucket in 3.5 min, strong
 blow

Final Shutin -
 Bled blow, no return

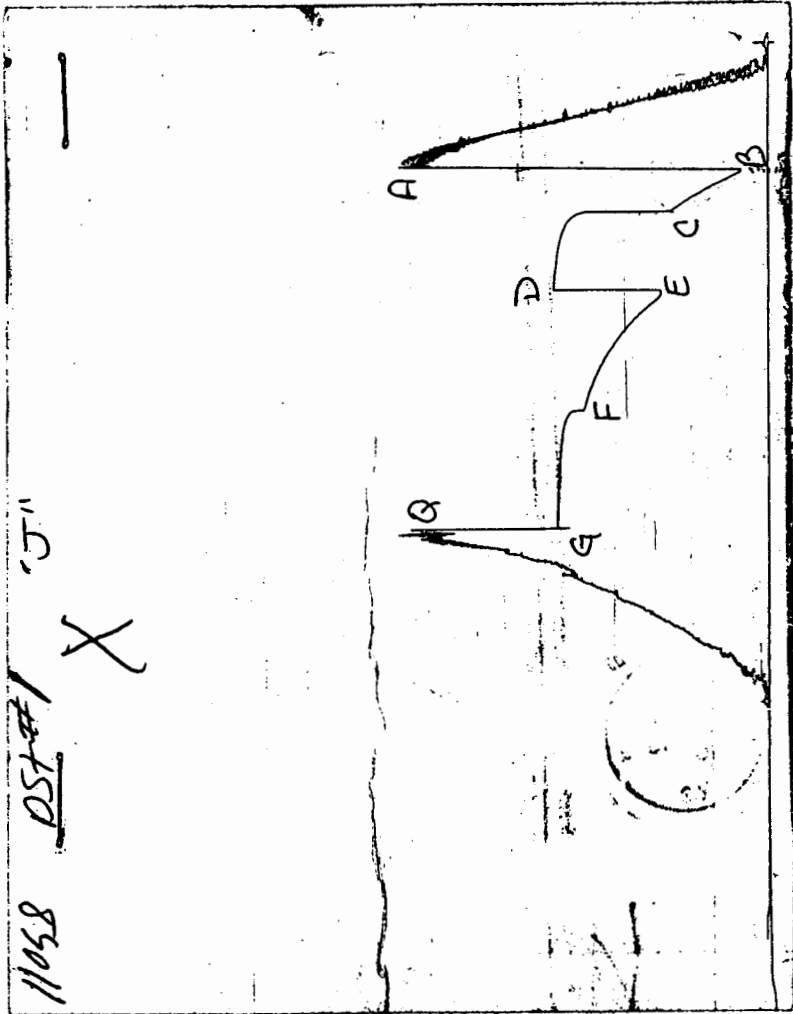
SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 43.00 S/L
 W.L. 12.80 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 121.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Shane McBride
 Co. Rep. Bill Klaver
 Contr. Pickrell
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



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

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Tucker "C-D" #1	P.O. SUB	
	C.O. SUB 1'	4180
LOCATION : 29-15S-34W, Logan Cty KS	S.I. TOOL 5'	4186
TICKET No. 9218 D.S.T. No. 1 DATE 05/04/96		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 20	HMV 5'	4191
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 32	JARS NA	
TOTAL TOOL		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT NA	
D.P. ANCHOR STND.Stands Single Total	PACKER top	4195
TOTAL ASSEMBLY	PACKER bottom	4200
D.C. ABOVE TOOLS.Stands Single Total 240	DEPTH 4200	
D.P. ABOVE TOOLS.Stands Single Total 3957	STUBB 4201	
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4249	ANCHOR	
	perfs	
TOTAL DEPTH		
TOTAL DRILL PIPE ABOVE K.B. 17	AK-1 recorder	4207
REMARKS:		
	perfs	
	T.C.	
	DEPTH	
	AK-1 recorder	4229
	BULLNOSE	
	T.D.	4232

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9218

Well Name & No. Tucker "C-D" #1 Test No. 1 Date 5-4-96
 Company Pickrell Drilling Co. Inc. Zone Tested LANS-KC "5"
 Address 110 N Market, Suite 205 Wichita, KS 67202 Elevation 3043+KB 3038+GL
 Co. Rep / Geo. Bill Klauer Cont. Pickrell #1 Est. Ft. of Pay Por. %
 Location: Sec. 29 Twp. 15 Rge. 34 Co. Logan State Ks
 No. of Copies Norm. Distribution Sheet (Y, N) Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4200' - 4232' Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 56,000
 Anchor Length 32' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 71,000
 Top Packer Depth 4195' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4200' Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 4232' Drill Collar — 2.25 Ft. Run 240'
 Mud Wt. 9.1+ LCM None Vis. 43 WL 12.8 Drill Pipe Size 4 1/2 X H Ft. Run 3957'

Blow Description B.O.B. in 2 1/2 min. (Strong Blow)

I.S.I. Bleed Blow - No return

F.F. B.O.B. in 3 1/2 min. (Strong Blow)

F.S.I. Bleed Blow - No return

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP
<u>2415'</u>	<u>240'</u>	<u> </u>	<u>2175'</u>
Rec. <u>120'</u> Feet Of <u>mud cut water</u>	%gas	%oil	<u>70%</u> water <u>30%</u> mud
Rec. <u>120'</u> Feet Of <u>water trace mud</u>	%gas	%oil	<u>95%</u> water <u>5%</u> mud
Rec. <u>2175'</u> Feet Of <u>salt water</u>	%gas	%oil	<u>100%</u> water <u> </u> mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	<u> </u> water <u> </u> mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	<u> </u> water <u> </u> mud

BHT 121° °F Gravity °API D@ °F Corrected Gravity °API

RW .165 @ 78 °F Chlorides 39,950 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 2109 PSI Recorder No. 11058 T-Started 19:50 P.M.

(B) First Initial Flow Pressure 155 PSI @ (depth) 4207' T-Open 21:40 P.M.

(C) First Final Flow Pressure 556 PSI Recorder No. 11057 T-Pulled 2:10 A.M.

(D) Initial Shut-in Pressure 1242 PSI @ (depth) 4229' T-Out 4:35 A.M.

(E) Second Initial Flow Pressure 613 PSI Recorder No.

(F) Second Final Flow Pressure 1064 PSI @ (depth)

(G) Final Shut-in Pressure 1220 PSI Initial Opening 30 Test 1 600

(H) Final Hydrostatic Mud 2087 PSI Initial Shut-in 60 Jars

Final Flow 90 Safety Joint

Final Shut-in 90 Straddle

Circ. Sub 4/C

Sampler

Extra Packer

Elect. Rec.

Other

TOTAL PRICE \$ 600

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 Bill Klauer

Our Representative Janet G. ...

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling Co Inc
 WELL NAME: Tucker C-D #1
 LOCATION : 29-15S-34W, Logan Cty KS
 INTERVAL : 4465.00 To 4505.00 ft

DATE 05/06/96
 KB 3043.00 ft TICKET NO: 9219 DST #2
 GR 3038.00 ft FORMATION: Fort Scott
 TD 4505.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	11057			PF Fr. 0628 to 0658 hr
SI 60 Range(Psi)	4475.0	4475.0	4500.0	0.0	0.0	IS Fr. 0658 to 0758 hr
SF 30 Clock(hrs)	AK-1	AK-1	AK-1			SF Fr. 0758 to 0828 hr
FS 60 Depth(ft)	4473.0	4473.0	4502.0	0.0	0.0	FS Fr. 0828 to 0928 hr

	Field	1	2	3	4	
A. Init Hydro	2244.0	2242.0	0.0	0.0	0.0	T STARTED 0450 hr
B. First Flow	44.0	39.0	0.0	0.0	0.0	T ON BOTM 0626 hr
B1. Final Flow	44.0	41.0	0.0	0.0	0.0	T OPEN 0628 hr
C. In Shut-in	155.0	140.0	0.0	0.0	0.0	T PULLED 0928 hr
D. Init Flow	44.0	48.0	0.0	0.0	0.0	T OUT 1115 hr
E. Final Flow	44.0	52.0	0.0	0.0	0.0	
F. Fl Shut-in	133.0	121.0	0.0	0.0	0.0	
G. Final Hydro	2222.0	2209.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	I	I	O			Tool Wt. 0.00 lbs

RECOVERY

Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP
 60.00 ft of Drilling mud

Wt Set On Packer 27000.00 lbs
 Wt Pulled Loose 81000.00 lbs
 Initial Str Wt 48000.00 lbs
 Unseated Str Wt 48000.00 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 240.00 ft
 D.P. Length 4234.00 ft

RW .78 @ 70 F

SALINITY 8150.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 Very weak surface blow, died in 12 min

Initial Shutin -
 No return

Final Flow -
 No blow, flushed tool, no blow

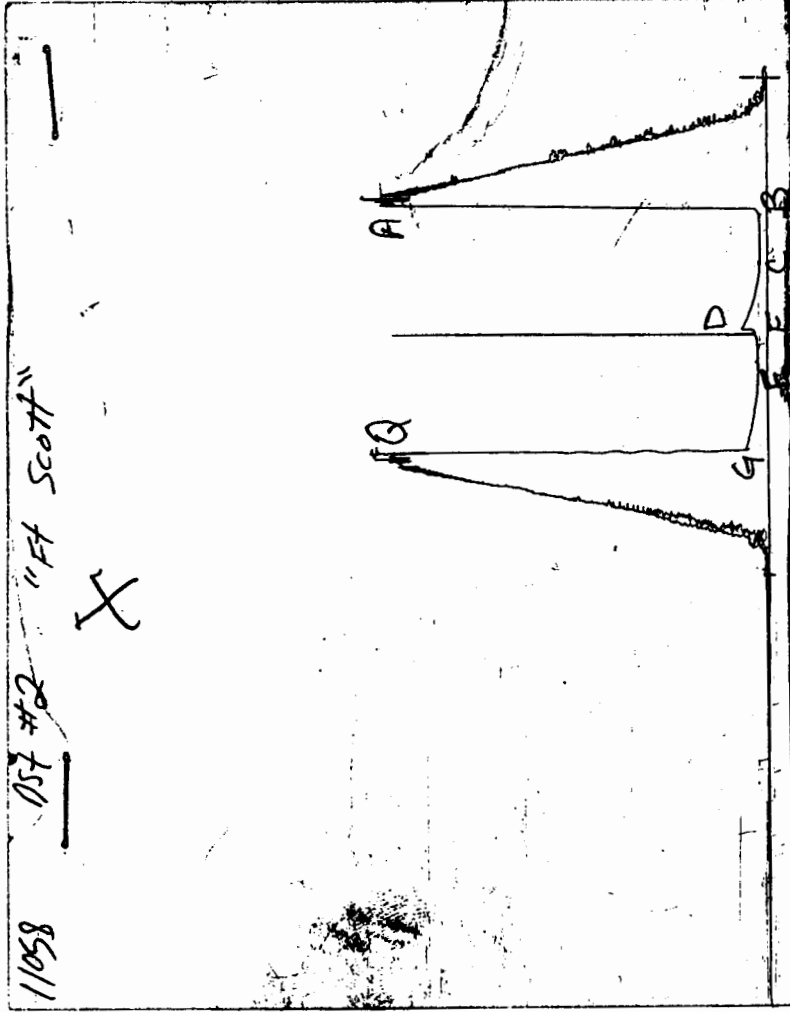
Final Shutin -
 No blow

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 54.00 S/L
 W.L. 12.00 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 112.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Shane McBride
 Co. Rep. Bill Klaver
 Contr. Pickrell
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



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

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Tucker C-D #1

LOCATION : 29-15S-34W, Logan Cty KS

TICKET No. 9219 D.S.T. No. 2 DATE 05/06/96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 40

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 60

D.C. ABOVE TOOLS.Stands Single Total 240

D.P. ABOVE TOOLS.Stands Single Total 4234

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4534

TOTAL DEPTH 4505

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:

P.O. SUB	
C.O. SUB	4445
S.I. TOOL	4451
HMV	4456
JARS NA	
SAFETY JOINT NA	
PACKER	4460
PACKER	4465
DEPTH 4465	
STUBB	4466
ANCHOR	
perfs	
AK-1 recorder	4473
perfs	
T.C. DEPTH	
AK-1 recorder	4502
BULLNOSE bull plug	
T.D.	4505

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9219

Well Name & No. Tucker C-D #1 Test No. 2 Date 5-6-96
Company Pickrell Drilling Co. Inc. Zone Tested 'FT Scott'
Address 110 N Market, Suite 205, Wichita Ks 67202 Elevation 3043' KB 3038' GL
Co. Rep / Geo. Bill Klaver Cont. Pickrell #1 Est. Ft. of Pay Por. %
Location: Sec. 29 Twp. 15 Rge. 34 Co. Logan State Ks
No. of Copies None Distribution Sheet (Y, N) Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4465' - 4505' Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 48,000
Anchor Length 40' Wt. Set Lbs. 27,000 Wt. Pulled Loose/Lbs. 81,000
Top Packer Depth 4460' Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth 4465' Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth 4505' Drill Collar — 2.25 Ft. Run 240'
Mud Wt. 9.1 LCM Vis. 54 WL 12.0 Drill Pipe Size 4 1/2 X 14 Ft. Run 4234'
Blow Description Very weak surface blow - died in 12 min.

J.S.I: No return

F.F.: No Blow - Flush tool - No Blow.

F.S.I: No Blow.

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP	%gas	%oil	%water	%mud
<u>60'</u>	<u> </u>	<u> </u>	<u>60'</u>	<u> </u>	<u> </u>	<u>100</u>	<u> </u>
Rec. <u>60'</u>	Feet Of <u>D. log mud</u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>			%gas	%oil	%water	%mud

BHT 112° °F Gravity °API D@ °F Corrected Gravity °API

RW .28 @ 70 °F Chlorides 8,150 ppm Recovery Chlorides 8,000 ppm System

- (A) Initial Hydrostatic Mud 2244 PSI Recorder No. 11058 T-Started 4:50 A.M.
(B) First Initial Flow Pressure 44 PSI @ (depth) 4473' T-Open 6:28 A.M.
(C) First Final Flow Pressure 44 PSI Recorder No. 11057 T-Pulled 9:28 A.M.
(D) Initial Shut-in Pressure 155 PSI @ (depth) 4502' T-Out 11:15 A.M.
(E) Second Initial Flow Pressure 44 PSI Recorder No.
(F) Second Final Flow Pressure 44 PSI @ (depth)
(G) Final Shut-in Pressure 133 PSI Initial Opening 30 Test X 600
(H) Final Hydrostatic Mud 2222 PSI Initial Shut-in 60 Jars
Final Flow 30 Safety Joint
Final Shut-in 60 Straddle

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Bill Klaver

Our Representative Steve [Signature]

Circ. Sub X N/C
Sampler
Extra Packer
Elect. Rec.
Other
TOTAL PRICE \$ 600