WELL NAME:	O. Deewall #2
COMPANY:	Crawford Oil & Gas
LOCATION:	30-33s-18w
	Comanche co Kansas
DATE:	3/23/00

TRILOBITE TESTING L.L.C.

OPERATOR : Crawford Oil & Gas DATE 3-20-00
WELL NAME: O. Deewall #2 KB 1938.00 ft TICKET NO: 12130 DST #1
LOCATION : 30-33S-18W Comanche KS. GR 1931.00 ft FORMATION: Mississippian
INTERVAL : 5285.00 To 5325.00 ft TD 5325.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13339	13339	3246		
SI 45	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
SF 30	Clock(hrs)	12 HR	12 HR	ALP		
FS 90	Depth(ft)	5320.0	5320.0	5290.0	0.0	0.0

TIME DATA----------
PF Fr. 0337 to 0407 hr
IS Fr. 0407 to 0452 hr
SF Fr. 0452 to 0522 hr
FS Fr. 0522 to 0652 hr

	Field	1	2	3	4
A. Init Hydro	2622.0	2622.0	2612.0	0.0	0.0
B. First Flow	187.0	197.0	96.0	0.0	0.0
B1. Final Flow	62.0	68.0	20.0	0.0	0.0
C. In Shut-in	629.0	627.0	671.0	0.0	0.0
D. Init Flow	62.0	90.0	19.0	0.0	0.0
E. Final Flow	62.0	58.0	24.0	0.0	0.0
F. Fl Shut-in	569.0	877.0	612.0	0.0	0.0
G. Final Hydro	2573.0	2539.0	2571.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0100 hr
T ON BOTM 0334 hr
T OPEN 0337 hr
T PULLED 0652 hr
T OUT 1000 hr

RECOVERY
Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
30.00 ft of Gas & oil cut mud
0.00 ft of 10% gas 15% oil 75% mud
0.00 ft of
0.00 ft of Free oil in tool
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.	1800.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	50000.00 lbs
Unseated Str Wt	50000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	5289.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong blow off bottom immediately.
Gas to surface in 13 minutes.
Initial Shut-In:
No return blow.
Final Flow:
Strong blow gauged 45" water on 1/4"
orfice= 11.1 mcf/day
Final Shut-In:
No return blow.

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

Mud Type	Chemical
Weight	9.23 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.	115.00 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.	Jon Christensen
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

GAS RECOVERY

COMPANY: Crawford Oil & Gas DATE: 3-20-00
WELL NAME: O. Deewall #2 KB Elev: 1938.00 ft TICKET #12130 DST #1
WELL LOCATION: 30-33S-18W Comanche KS. GR Elev: 1931.00 ft FORMATION: Mississippian
INTERVAL Fr.: 5285.00 To 5325.00 T.D.: 5325.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH 2" Merla Gauge

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.75	8	0	227000.0
20	0.75	0	80	127000.0
30	0.75	0	10	44800.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.62	0	25	11300.0
25	0.25	0	45	11100.0
30	0.25	0	45	11100.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: O. Deewall #2

LOCATION : 30-33S-18W Comanche KS.

TICKET No. 12130 D.S.T. No. 1 DATE 3-20-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL 40

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL 67

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 67

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands86 Single Total 5289

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5356

TOTAL DEPTH 5325

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

P.O. SUB 1' Above 120' DP	5138
C.O. SUB 1'	5258
S.I. TOOL 5'	5264
HMV 5'	5269
JARS 5'	5274
SAFETY JOINT 2'	5276
PACKER 4'	5280
PACKER 5'	5285
DEPTH 1'	5286
ANCHOR ALP Rec. @	5290
34' Perf	5320
AK-1 Rec. @	5320
BULLNOSE 5' T.D.	5325

TEST HISTORY

12130 DST #1 O. Deewall #2 Crawford Oil & Gas

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2612.84
B:	0.00	96.82
C:	32.00	20.81
D:	44.00	671.44
E:	0.00	19.19
F:	32.00	24.50
G:	93.00	612.60
Q:	0.00	2571.78

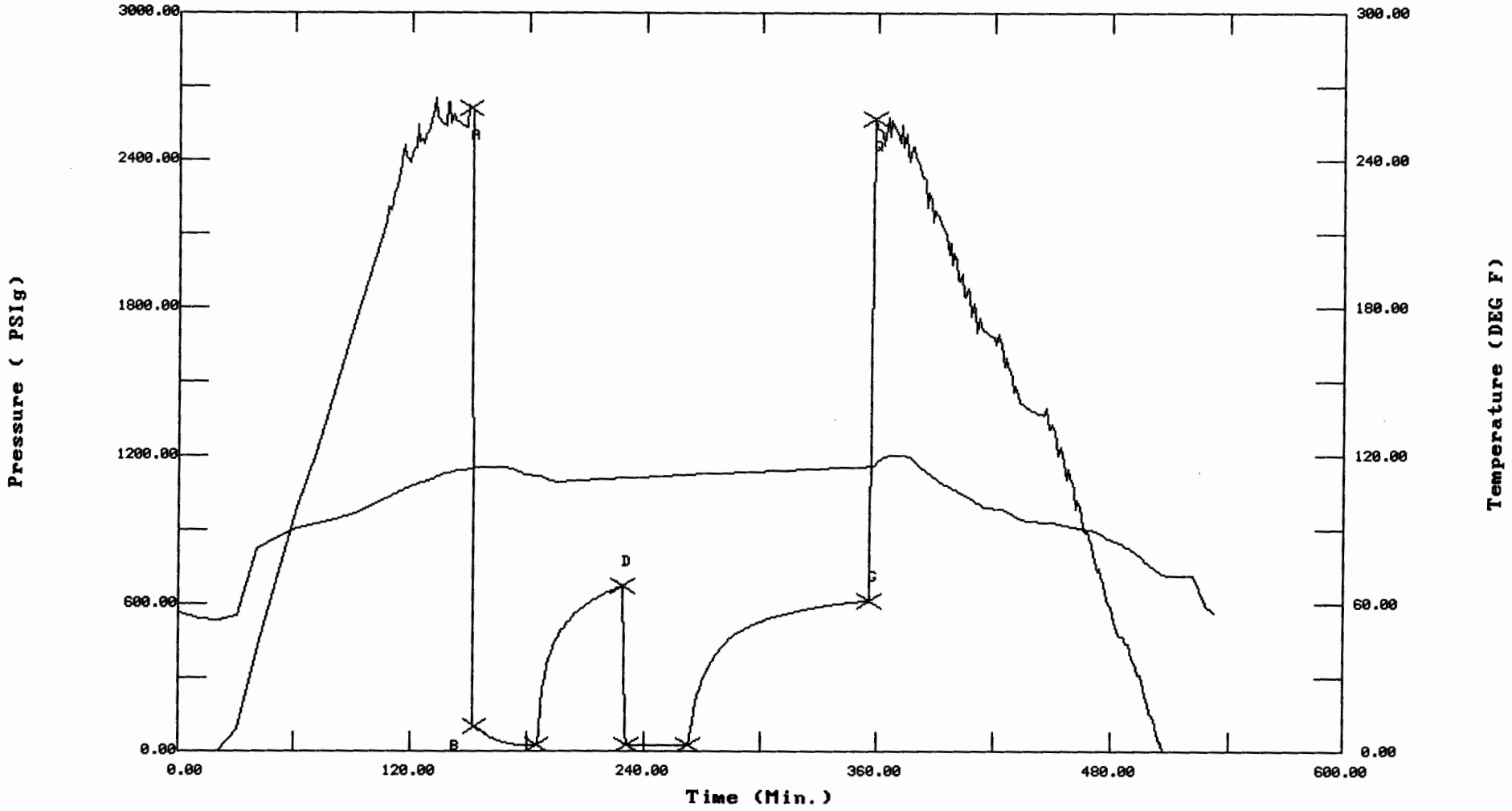
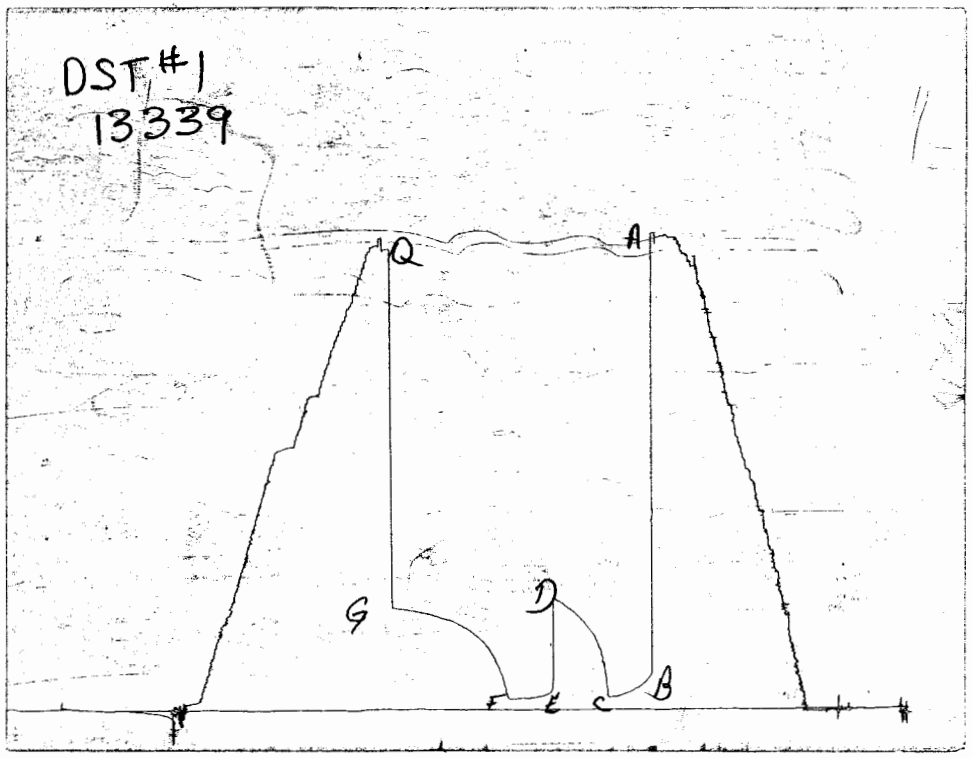


CHART PAGE



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

TRILOBITE TESTING

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

GAS VOLUME REPORT

Crawford Oil & Gas	D. Deewall #2	#1
OPERATOR	WELL NAME AND NO.	DST NO.

Initial Flow				Final Flow			
Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
13	GTS			10	25" wtr	3/8"	11.3
15	8# psi	3/4"	227	25	45" wtr	1/4"	11.1
20	80" wtr	3/4"	127	30	45" wtr	1/4"	11.1
30	10" wtr	3/4"	44.8				

Remarks: Gas does burn

01 NCR

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 № 12130

Test Ticket

Bill to Duke:

Well Name & No. O. Deewall #2 Test No. 1 Date 3-20-00

Company Crawford Oil & Gas Zone Tested Mississippian

Address P.O. Box 51 Coldwater KS. 67029-0051 Elevation 1938 KB 1931 GL

Co. Rep / Geo. John Christensen Cont. Duke #1 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 30 Twp. 33S Rge. 18W Co. Comanche State KS.

No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) Y Evaluation (Y, N) ___

Interval Tested 5285-5325 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000

Anchor Length 40' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 5280 Tool Weight 1,800

Bottom Packer Depth 5285 Hole Size — 7 7/8" ___ Rubber Size — 6 3/4" ___

Total Depth 5325 Wt. Pipe Run — Drill Collar Run —

Mud Wt. 9.3 LCM 4# Vis. 47 WL 8.8 Drill Pipe Size 4½" XH Ft. Run 5289' (8

Blow Description IF: Strong blow off bttm immediately GTS @ 13 mins.
ISI: No return blow.
FF: Strong blow gauged 45" wtr on ¼" orifice = 11.1 mcf/day
FSI: No return blow.

Recovery — Total Feet 30' GIP GTS-1F-13min Ft. in DC — Ft. in DP 30'

Rec.	Feet Of		%gas	%oil	%water	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud
Rec. 30'	Feet Of	GOCM	10 %gas	15 %oil	— %water	75 %mud
Rec.	Feet Of	Free Oil in Tool	%gas	%oil	%water	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud

BHT 115° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 7200 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	2622	2612	PSI	Recorder No.	3246	T-On Location	2215
(B) First Initial Flow Pressure	187	96	PSI	(depth)	5290	T-Started	0100
(C) First Final Flow Pressure	62	20	PSI	Recorder No.	13339	T-Open	0337
(D) Initial Shut-In Pressure	629	671	PSI	(depth)	5320	T-Pulled	0652
(E) Second Initial Flow Pressure	62	19	PSI	Recorder No.		T-Out	1000
(F) Second Final Flow Pressure	62	24	PSI	(depth)		T-Off Location	1100
(G) Final Shut-in Pressure	569	612	PSI	Initial Opening	30	Test	800
(Q) Final Hydrostatic Mud	2573	2571	PSI	Initial Shut-in	45	Jars	X 200
				Final Flow	30	Safety Joint	X 50
				Final Shut-in	90	Straddle	
						Circ. Sub	X N/C
						Sampler	
						Extra Packer	
						Elec. Rec.	X 150
						Mileage	168 mi
						Other	
						TOTAL PRICE $	1200

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 Rod Steinbrink

Well Name D. Dewall #2
DST Number 1
Recorder Number 13339

A:	2600	2622
B:	.190	197
C:	.0000	68
D:	.6008	627
E:	.087	90
F:	.056	58
G:	.558	877
Q:	2.516	2579