

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Crawford Oil & Gas Inc.
 WELL NAME: King #1
 LOCATION : 6-34s-18w Comanche co KS
 INTERVAL : 5319.00 To 5372.00 ft

DATE 04-07-000

KB 1895.00 ft TICKET NO: 12784 DST #1
 GR 1903.00 ft FORMATION: Mississippi
 TD 5372.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 1425 to 1455 hr
SI 45 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1455 to 1540 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1540 to 1640 hr
FS 90 Depth(ft)	5369.0	5369.0	5327.0	0.0	0.0	FS Fr. 1640 to 1810 hr

	Field	1	2	3	4	
A. Init Hydro	2568.0	2553.0	2574.0	0.0	0.0	T STARTED 1059 hr
B. First Flow	53.0	64.0	54.0	0.0	0.0	T ON BOTM 1420 hr
B1. Final Flow	62.0	70.0	66.0	0.0	0.0	T OPEN 1425 hr
C. In Shut-in	335.0	315.0	316.0	0.0	0.0	T PULLED 1811 hr
D. Init Flow	64.0	70.0	52.0	0.0	0.0	T OUT 2100 hr
E. Final Flow	71.0	64.0	65.0	0.0	0.0	
F. Fl Shut-in	359.0	345.0	349.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2536.0	2514.0	2540.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 47000.00 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 0.00 ft
						D.P. Length 5323.00 ft

RECOVERY

Tot Fluid 105.00 ft of 0.00 ft in DC and 105.00 ft in DP
 600.00 ft of Gas in pipe.
 105.00 ft of Drilling mud
 0.00 ft of 100% 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 EST.FT. of PAY-----20
 SALINITY 6000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket in 30 seconds.

Initial Shut-In:
 No blow.

Final Flow:
 Strong blow. Bottom of bucket in 35 seconds.

Final Shut-In:
 No blow.

SAMPLES: None
 SENT TO: Caraway/Liberal

RECEIVED
 STATE CORPORATION COMMISSION

JUN 24 2000

CONSERVATION DIVISION
 Wichita, Kansas

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 51.00 S/L
 W.L. 9.60 in3
 F.C. 0.20 in
 Mud Drop N

Amt. of fill 2.00 ft
 Btm. H. Temp. 124.00 F
 Hole Condition good
 % Porosity 11.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased N
 Tester Gary Pevoteaux
 Co. Rep. Jon Christensen
 Contr. Duke Drlg.
 Rig # 1
 Unit #
 Pump T. LCM 4 #/bl

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: King #1

LOCATION : 6-34s-18w Comanche co KS

TICKET No. 12784 D.S.T. No. 1 DATE 04-07-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 21

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY 80

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands86 Single Total 5323

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5403

TOTAL DEPTH 5372

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

Comments:

FLUID SAMPLER DATA (not run)

GAS-----		cubic ft
OIL-----		ML.
MUD-----		ML.
WATER-----		ML.
OTHER-----		
PRESSURE-----		PSI
Rw -----	ohms @	deg. F.
CHLORIDES-----		ppm.
GRAVITY-----		deg.API

P.O. SUB	
C.O. SUB @ top of tool	5292
S.I. TOOL Sterling	5298
HMV Sterling	5303
JARS bowen	5308
SAFETY JOINT bowen	5310
PACKER Top	5314
PACKER Btm.	5319
DEPTH 5319	
1 ft.	5320
ANCHOR	
4'perfs & sub to	5324
Alpine rec. @ 5327	
1 jt. pipe to	5356
11'perfs & sub to	5367
AK-1 rec. @ 5369	
BULLNOSE 5 ft. perforated T.D.	5372

TEST HISTORY

12784 DST#1 KING #1 CRAWFORD OIL & GAS

Flag Points

t(Min.) P(PSIg)

A:	0.00	2573.55
B:	0.00	53.87
C:	29.50	65.86
D:	45.00	315.64
E:	0.00	52.28
F:	58.50	64.53
G:	91.00	348.71
Q:	0.00	2540.07

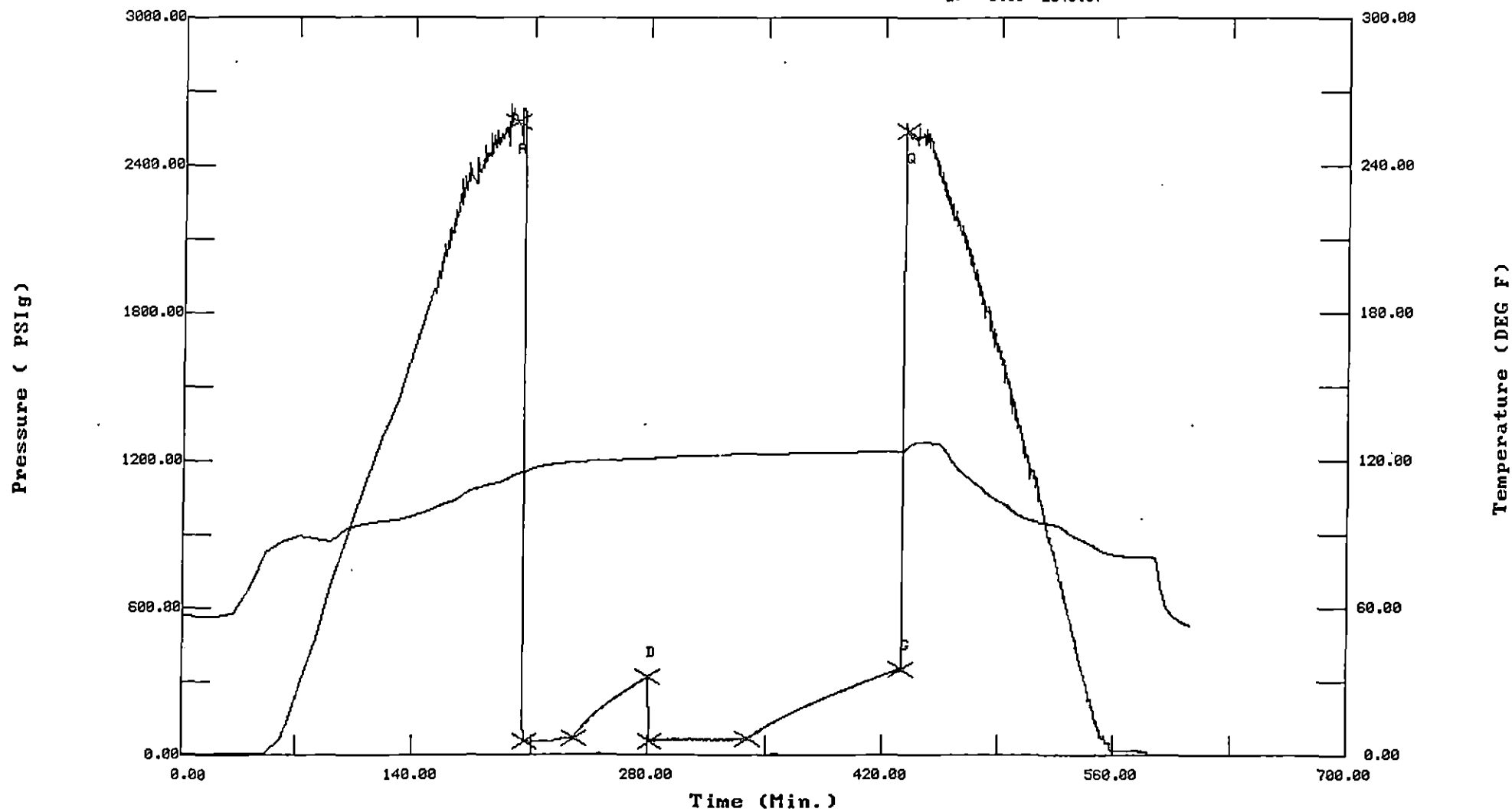
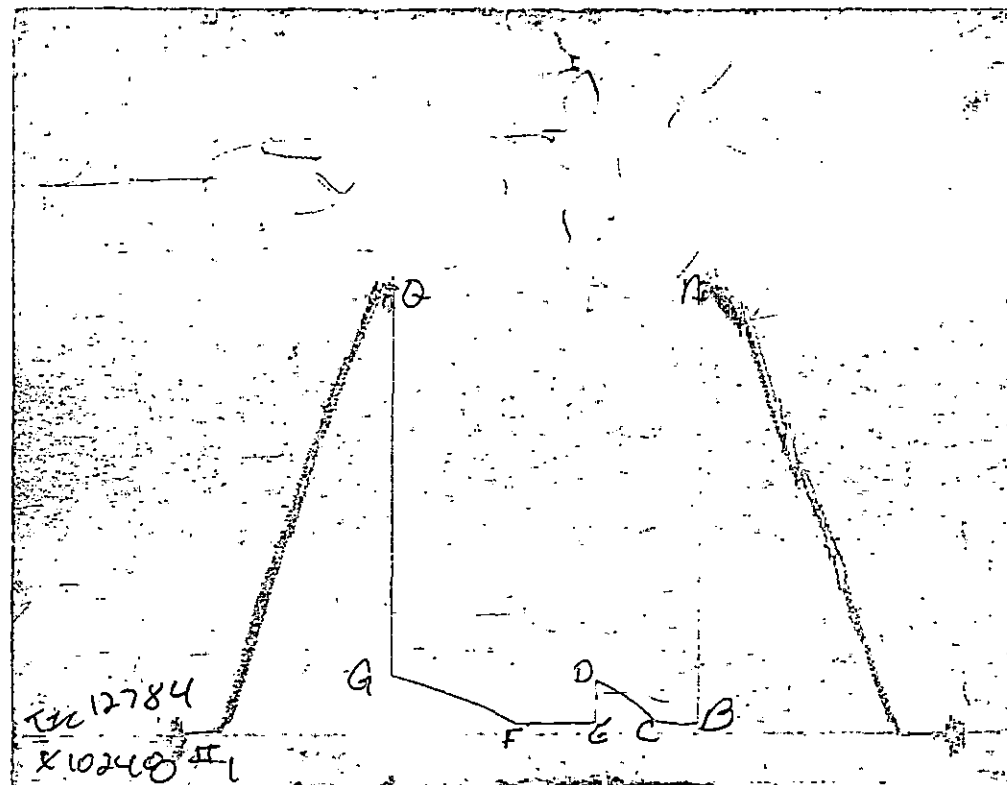


CHART PAGE



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 12784

Well Name & No.	KING #1	Test No.	1	Date	4-7-2000
Company	Crawford Oil & Gas Inc.	Zone Tested	Miss.		
Address	P.O. Box 51, Caldwell, Ks. 67029	Elevation	1903	KB	1895GL
Co. Rep / Geo.	Jon Christensen	Cont.	Duke Dely #1	Est. Ft. of Pay	20 Por. %
Location: Sec.	6	Twp.	34S	Rge.	18W
		Co.	Comanche	State	Ks.
No. of Copies	5	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	yes
		Evaluation (Y, N)			

Interval Tested	5319 - 5372'	Initial Str Wt./Lbs.	47,000	Unseated Str Wt./Lbs.	48,000
Anchor Length	53'	Wt. Set Lbs.	26,000	Wt. Pulled Loose/Lbs.	60,000
Top Packer Depth	5314'	Tool Weight	2100 ^{lb}		
Bottom Packer Depth	5319'	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓
Total Depth	5372'	Wt. Pipe Run	None	Drill Collar Run	None
Mud Wt.	9.1 LCM 4 th Vis. 51 WL 9.64	Drill Pipe Size	4 1/2" x 11	Ft. Run	5323'
Blow Description	IF: Strong blow, BOB. in 30 sec.	ISI: No blow			

FF: Strong blow, BOB. in 35 sec. FSI: No blow

Recovery — Total Feet	105 Fluid GIP	600	Ft. in DC	✓	Ft. in		
Rec.	105	Feet Of	Dry Mud.	%gas	%oil	%w	
Rec.		Feet Of		%gas	%oil	%wa	
Rec.		Feet Of		%gas	%oil	%wa	
Rec.		Feet Of		%gas	%oil	%wa	
Rec.		Feet Of		%gas	%oil	%water	
BHT	124'	°F Gravity	N/A	°API D@	✓	°F Corrected Gravity	N/A
°API							
RW	N.C.	@	✓	°F Chlorides	6,000	ppm Recovery	Chlorides 4,000 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	2569	2574	PSI	Recorder No.	2342	T-On Location	0630
(B) First Initial Flow Pressure	53	54	PSI	(depth)	5327'	T-Started	1059
(C) First Final Flow Pressure	62	66	PSI	Recorder No.	10243	T-Open	1425
(D) Initial Shut-In Pressure	335	316	PSI	(depth)	5369'	T-Pulled	1811
(E) Second Initial Flow Pressure	64	52	PSI	Recorder No.	✓	T-Out	2100
(F) Second Final Flow Pressure	71	65	PSI	(depth)	✓	T-Off Location	2210
(G) Final Shut-in Pressure	359	349	PSI	Initial Opening	30	Test	✓ 800
(Q) Final Hydrostatic Mud	2536	2540	PSI	Initial Shut-in	45	Jars	✓ 200
				Final Flow	60	Safety Joint	✓ 50
				Final Shut-in	90	Straddle	
					1	Circ. Sub	
					1	Sampler	

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 [Signature]

Extra Packer _____
Elec. Rec. ✓ 150
Mileage _____
Other STAND 34 ✓ 30⁰⁰
TOTAL PRICE \$ ✓ 1230⁰⁰

Well Name King
DST Number 1
Recorder Number 10248

A: 2.316 2553

B: .056 64

C: .062 70

D: .279 315

E: .062 70

F: .056 64

G: .306 345

Q: 2.280 2514