

TRILOBITE TESTING L.L.C.

OPERATOR : Crawford Oil & Gas
 WELL NAME: Basnett #1
 LOCATION : 10-34s-18w Comanche co KS
 INTERVAL : 5289.00 To 5335.00 ft

DATE 07-16-000
 KB 1882.00 ft
 GR 1874.00 ft
 TD 5335.00 ft

TICKET NO: 12872
 DST #1
 FORMATION: Mississippi
 TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10248	10248	2342			PF Fr. 2115 to 2145 hr
SI 45	Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 2145 to 2230 hr
SF 45	Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 2230 to 2315 hr
FS 90	Depth(ft)	5332.0	5332.0	5300.0	0.0	0.0	FS Fr. 2315 to 0045 hr

	Field	1	2	3	4	
A. Init Hydro	2536.0	2528.0	2549.0	0.0	0.0	T STARTED 1500 hr
B. First Flow	139.0	188.0	304.0	0.0	0.0	T ON BOTM 2110 hr
B1. Final Flow	119.0	147.0	117.0	0.0	0.0	T OPEN 2115 hr
C. In Shut-in	1508.0	1517.0	1506.0	0.0	0.0	T PULLED 0048 hr
D. Init Flow	0.0	0.0	144.0	0.0	0.0	T OUT 0350 hr
E. Final Flow	0.0	0.0	144.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1542.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2461.0	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 108000.00 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 0.00 ft
						D.P. Length 5269.00 ft

RECOVERY

Tot Fluid 195.00 ft of 0.00 ft in DC and 195.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 105.00 ft of Drilling mud
 90.00 ft of Muddy water
 0.00 ft of 58% water 42% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw .084 ohms @ 75 degrees F.
 0.00 ft of EST.FT. of PAY-----30
 SALINITY 92000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical
 Weight 9.00 lb/c
 Vis. 50.00 S/L
 W.L. 10.20 in3
 F.C. 0.20 in
 Mud Drop N
 Amt. of fill 16.00 ft
 Btm. H. Temp. 129.00 F
 Hole Condition Poor
 % Porosity 10.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased Y 14.00 ft
 Tester Gary Pevoteaux
 Co. Rep. Jon Christensen
 Contr. Duke Drlg.
 Rig # 1
 Unit #
 Pump T. LCM 3 #/bl

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Gas to surface in 4 minutes. (see gas volume report)
 Initial Shut-In:
 No blow.
 Final Flow:
 Strong blow. (see gas volume report)
 Final Shut-In:
 No blow.

SAMPLES: Gas sample
 SENT TO:Caraway/Liberal

Test Successful: Y

GAS RECOVERY

COMPANY: Crawford Oil & Gas

DATE: 07-16-000

WELL NAME: Basnett #1

KB Elev: 1882.00 ft TICKET #12872 DST #1

WELL LOCATION: 10-34s-18w Comanche co KS

GR Elev: 1874.00 ft FORMATION: Mississippi

INTERVAL Fr.: 5289.00 To 5335.00 T.D.: 5335.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	50	0	938000.0
20	0.75	19	0	488500.0
30	0.75	12	0	387000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	45	0	373000.0
20	0.50	51	0	410000.0
30	0.50	44	0	367000.0
40	0.50	40	0	342000.0

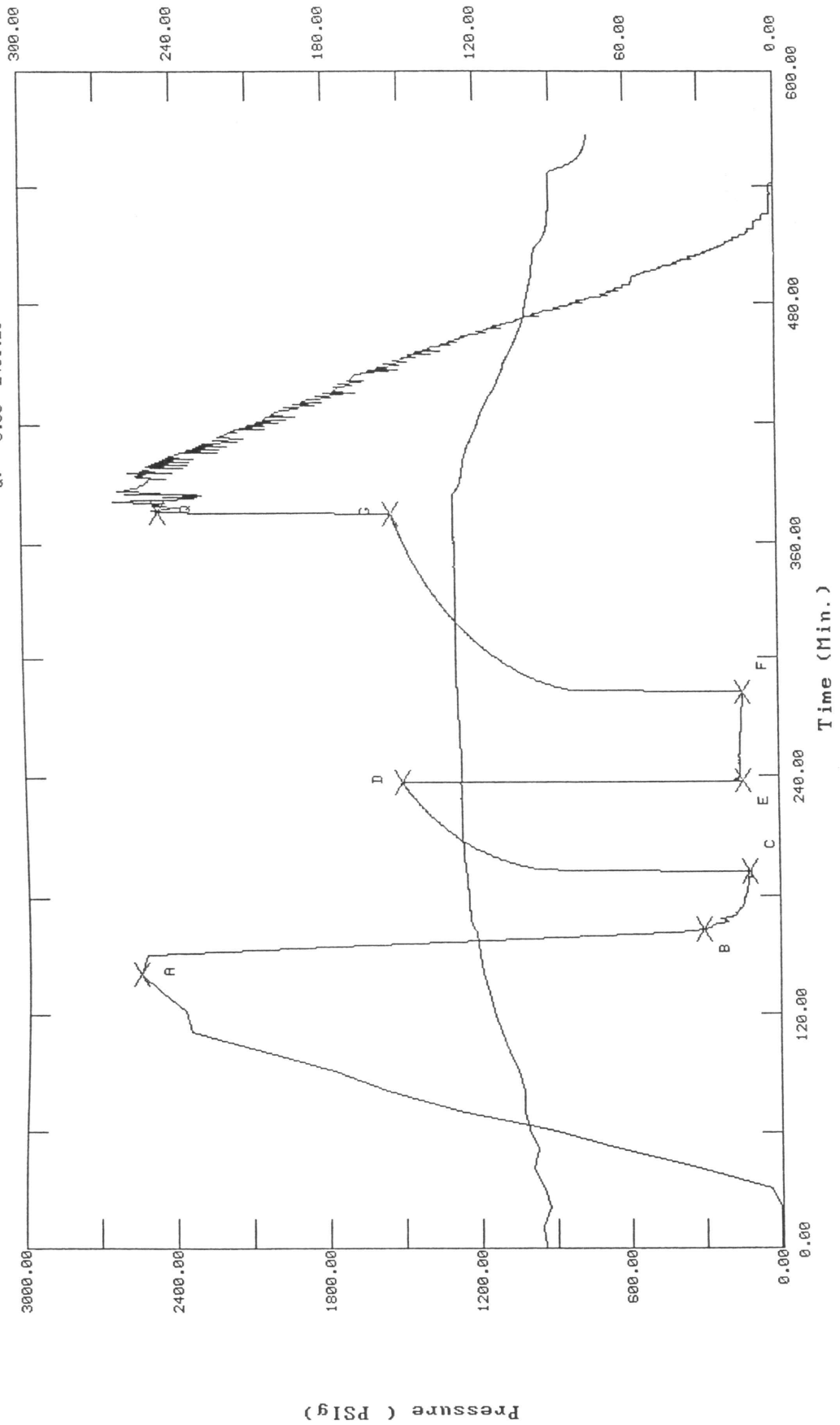
TEST HISTORY

12872 DST#1 BASNETT #1 CRAWFORD OIL & GAS

Flag Points

t(Min.) P(PSIg)

A:	0.00	2549.13
B:	0.00	304.15
C:	29.00	116.82
D:	44.50	1506.16
E:	0.00	143.59
F:	45.00	143.68
G:	92.50	1542.33
Q:	0.00	2461.26



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12872

Well Name & No.	<u>Basnett #1</u>	Test No.	<u>1</u>	Date	<u>7-16-2000</u>
Company	<u>Crawford Oil & Gas</u>	Zone Tested	<u>Miss</u>		
Address	<u>P.O. Box 51, Caldwellwater, Ks - 67029</u>		Elevation	<u>1882</u>	KB <u>1874</u> GL
Co. Rep / Geo.	<u>Jon Christensen</u>	Cont.	<u>Duke Belg. #1</u>	Est. Ft. of Pay	<u>30</u> Por. <u>10</u> %
Location: Sec.	<u>10</u>	Twp.	<u>34S</u>	Rge.	<u>18W</u> Co. <u>Comanches</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>Y</u> Evaluation (Y, N) _____

Interval Tested	<u>5289 - 5335'</u>	Initial Str Wt./Lbs.	<u>48,000</u>	Unseated Str Wt./Lbs.	<u>48,000</u>
Anchor Length	<u>46'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>108,000</u>
Top Packer Depth	<u>5284'</u>	Tool Weight	<u>2100 #</u>		
Bottom Packer Depth	<u>5289'</u>	Hole Size — 7 7/8"	<input checked="" type="checkbox"/>	Rubber Size — 6 3/4"	<input checked="" type="checkbox"/>
Total Depth	<u>5335'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.0 LCM 3#</u> Vis. <u>50</u> WL <u>10.2cc.</u>	Drill Pipe Size	<u>4 1/2" x .14.</u>	Ft. Run	<u>5269'</u>
Blow Description	<u>IF: Strong blow. GTS in 4 mins. (see gas volume report) FSI: No blow.</u>				
	<u>PF: Strong blow. (see gas volume report) FSI: No blow.</u>				
Comment:	<u>16 ft. of solid fill on bitm - did approx 14' through 1st open.</u>				
Recovery — Total Feet	<u>195</u>	GIP	<u>yes</u>	Ft. in DC	<u>—</u>
				Ft. in DP	<u>195</u>
Rec. <u>105</u>	Feet Of	<u>Daily Mud</u>	%gas	%oil	%water %mud
Rec. <u>90</u>	Feet Of	<u>MW</u>	%gas	%oil	<u>58</u> %water <u>42</u> %mud
Rec. _____	Feet Of	_____	%gas	%oil	%water %mud
Rec. _____	Feet Of	_____	%gas	%oil	%water %mud
Rec. _____	Feet Of	_____	%gas	%oil	%water %mud
BHT <u>129</u>	°F Gravity	<u>N/A</u>	°API D@	<u>~</u>	°F Corrected Gravity <u>N/A</u> °API
RW <u>.084 @ 75</u>	°F Chlorides	<u>92,000</u>	ppm Recovery	Chlorides	<u>14,000</u> ppm System

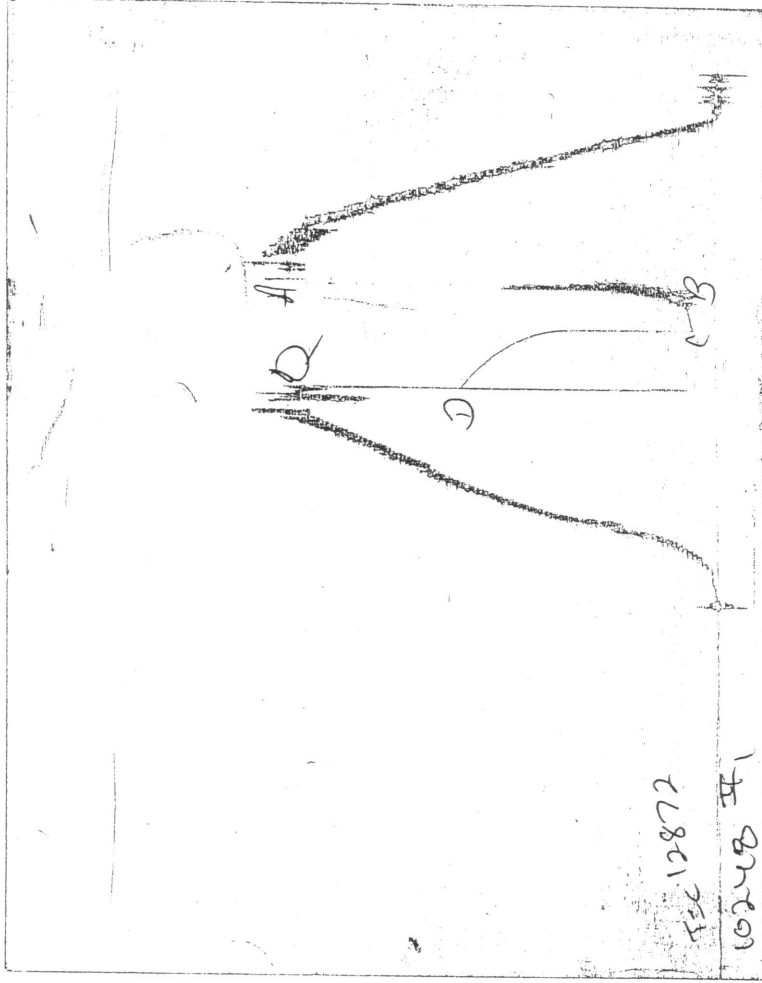
	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2536</u>	<u>2549</u>		<u>2342</u>	<u>1414</u>
(B) First Initial Flow Pressure	<u>139</u>	<u>304</u>	PSI	(depth) <u>5300'</u>	T-Started <u>1500</u>
(C) First Final Flow Pressure	<u>119</u>	<u>117</u>	PSI	Recorder No. <u>10248</u>	T-Open <u>2115</u>
(D) Initial Shut-In Pressure	<u>1508</u>	<u>1506</u>	PSI	(depth) <u>5332'</u>	T-Pulled <u>0048</u>
(E) Second Initial Flow Pressure	<u>—</u>	<u>144</u>	PSI	Recorder No. <u>—</u>	T-Out <u>0350</u>
(F) Second Final Flow Pressure	<u>—</u>	<u>144</u>	PSI	(depth) <u>—</u>	T-Off Location <u>0500</u>
(G) Final Shut-in Pressure	<u>—</u>	<u>1542</u>	PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>800</u>
(Q) Final Hydrostatic Mud	<u>—</u>	<u>2441</u>	PSI	Initial Shut-in <u>45</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
				Final Flow <u>45</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
				Final Shut-in <u>90</u>	Straddle _____
					Circ. Sub _____
					Sampler _____
					Extra Packer _____
					Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
					Mileage _____
					Other <input checked="" type="checkbox"/> <u>120</u>
					TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>1320</u> 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.

Approved By Jon Christensen

Our Representative Jon Christensen

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Crawford Oil & Gas, Inc. DATE 7-19-00
 WELL NAME: Basnett #1 KB 1882.00 ft TICKET NO: 13798 DST #2
 LOCATION : 10-34s-18w Comanche co KS GR 1874.00 ft FORMATION: Viola
 INTERVAL : 5945.00 To 5975.00 ft TD 5975.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11085	11085	3027			PF Fr. 0203 to 0233 hr
SI 45	Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 0233 to 0318 hr
SF 60	Clock(hrs)	12hr	12	elec			SF Fr. 0318 to 0418 hr
FS 90	Depth(ft)	5972.0	5972.0	5947.0	0.0	0.0	FS Fr. 0418 to 0548 hr

	Field	1	2	3	4	
A. Init Hydro	2997.0	3042.0	2924.0	0.0	0.0	T STARTED 2221 hr
B. First Flow	55.0	54.0	12.0	0.0	0.0	T ON BOTM 0200 hr
B1. Final Flow	44.0	33.0	14.0	0.0	0.0	T OPEN 0203 hr
C. In Shut-in	615.0	602.0	490.0	0.0	0.0	T PULLED 0548 hr
D. Init Flow	55.0	48.0	12.0	0.0	0.0	T OUT 0829 hr
E. Final Flow	44.0	41.0	16.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1845.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2877.0	0.0	0.0	Tool Wt. 2700.00 lbs
Inside/Outside	o	o	i			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 51000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5925.00 ft

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
 120.00 ft of Gas in pipe
 5.00 ft of 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
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak building to a fair blow 1/2" to 4" throughout
 Final Flow:
 Strong blow throughout
 Final Shut-In:
 No blow

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c:
 Vis. 60.00 S/L
 W.L. 8.00 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 135.00 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 Ray Schwager
 Co. Rep. Jon Christensen
 Contr. Duke Drlg.
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Basnett #1	H	P.O. SUB	5797
	H	C.O. SUB	5917
LOCATION : 10-34s-18w Comanche co KS	H	S.I. TOOL	5922
TICKET No. 13798 D.S.T. No. 2 DATE 7-19-00	H		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 27	H		
INTERVAL TOOL	H	HMV	5927
BOTTOM PACKERS AND ANCHOR 30	H	JARS	5932
TOTAL TOOL 57	H		
DRILL COLLAR ANCHOR IN INTERVAL	H		
D.C. ANCHOR STND.Stands Single Total	H	SAFETY JOINT	5937
D.P. ANCHOR STND.Stands Single Total	H	PACKER	5940
TOTAL ASSEMBLY	H	PACKER	5945
D.C. ABOVE TOOLS.Stands Single Total	H	DEPTH	5946
D.P. ABOVE TOOLS.Stands95 Single Total 5925	H	ANCHOR 5'perf	5951
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5982	H	5' "	5956
	H	5' "	5961
	H	5' "	5966
TOTAL DEPTH 5975	H	Alpine@5947	
TOTAL DRILL PIPE ABOVE K.B. 7	H	Ak-1 @5972	
REMARKS:	H		
	H		
	H		
	H		
	H		
	H		
	H		
	H		
	H	1'perf	5967
	H	5' "	5972
	H		
	H	BULLNOSE 3'bullplug	5975
	H	T.D.	5975

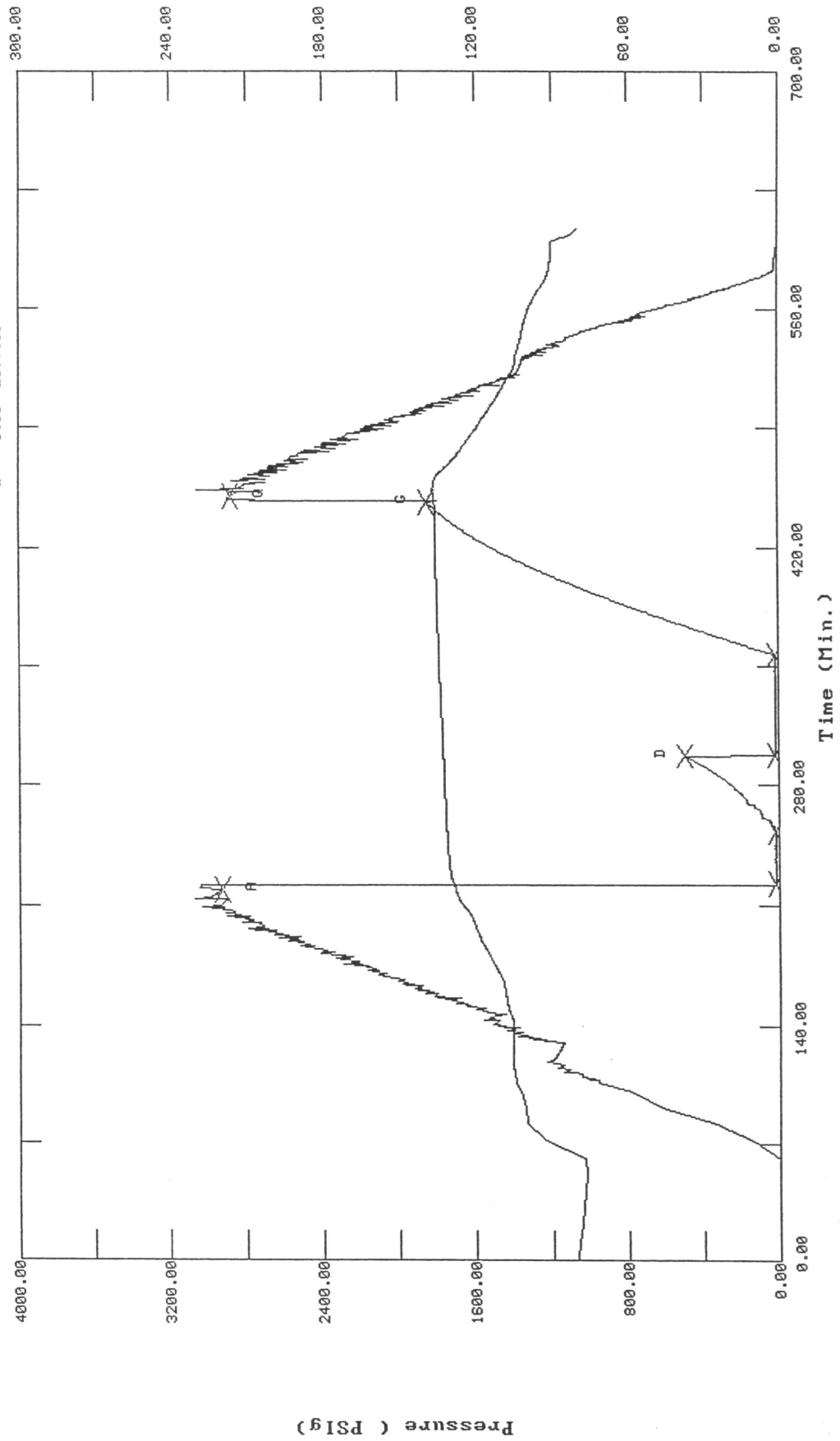
TEST HISTORY

13798 DST#2 Basnett#1 Crawford Oil & Gas, Inc.

Flag Points

t (Min.) P (PSig)

A:	0.00	2924.78
B:	0.00	12.26
C:	30.50	14.18
D:	44.50	490.75
E:	0.00	12.06
F:	59.00	16.39
G:	89.50	1845.09
Q:	0.00	2877.08



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13798

Test Ticket

Well Name & No. <u>BASNETT #1</u>	Test No. <u>2</u>	Date <u>7-19-00</u>
Company <u>Crawford Oil & Gas, Inc.</u>	Zone Tested <u>VIOLA</u>	
Address <u>P.O. Box 51 Coldwater, Ks 67029-0051</u>		Elevation <u>1882</u> KB <u>1874</u> GL
Co. Rep / Geo. <u>Jon Christensen</u>	Cont. <u>Duke Dalg, rig 1</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>10</u>	Twp. <u>34^s</u>	Rge. <u>18^w</u> Co. <u>Comanche</u> State <u>Ks</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>5945-5975</u>	Initial Str Wt./Lbs. <u>50000</u>	Unseated Str Wt./Lbs. <u>51060</u>
Anchor Length <u>30</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>65000</u>
Top Packer Depth <u>5940</u>	Tool Weight <u>2700</u>	
Bottom Packer Depth <u>5945</u>	Hole Size — 7 7/8" <u>yes</u>	Rubber Size — 6 3/4" <u>yes</u>
Total Depth <u>5975</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.2</u> LCM <u>4#</u> Vis. <u>60</u> WL <u>8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>5925</u>
Blow Description <u>JIP - WEAK building TO A FAIR Blow 1/2" TO 4" Blow</u> <u>FFP - STRONG Blow throughout</u> <u>NO B'Low ON SHUT-IN</u>		

Recovery — Total Feet <u>5</u>	GIP <u>120</u>	Ft. in DC <u> </u>	Ft. in DP <u>5</u>
Rec. <u>5</u> Feet Of <u>Mud</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>135</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>8500</u>	ppm System <u> </u>

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>2997</u>	<u>2924</u>	PSI Recorder No.	<u>3027</u>	T-On Location	<u>2100</u>
(B) First Initial Flow Pressure	<u>55</u>	<u>12</u>	PSI (depth)	<u>5947</u>	T-Started	<u>2221</u>
(C) First Final Flow Pressure	<u>33</u>	<u>14</u>	PSI Recorder No.	<u>11085</u>	T-Open	<u>0203</u>
(D) Initial Shut-In Pressure	<u>615</u>	<u>490</u>	PSI (depth)	<u>5972</u>	T-Pulled	<u>0548</u>
(E) Second Initial Flow Pressure	<u>55</u>	<u>12</u>	PSI Recorder No.	<u> </u>	T-Out	<u>0829</u>
(F) Second Final Flow Pressure	<u>44</u>	<u>16</u>	PSI (depth)	<u> </u>	T-Off Location	<u>0925</u>
(G) Final Shut-in Pressure	<u> </u>	<u>1845</u>	PSI Initial Opening	<u>30</u>	Test	<input checked="" type="checkbox"/>
(Q) Final Hydrostatic Mud	<u> </u>	<u>2877</u>	PSI Initial Shut-in	<u>45</u>	Jars	<input checked="" type="checkbox"/>
			Final Flow	<u>60</u>	Safety Joint	<input checked="" type="checkbox"/>
			Final Shut-in	<u>90</u>	Straddle	<u> </u>
					Circ. Sub	<u> </u>
					Sampler	<u> </u>
					Extra Packer	<u> </u>
					Elec. Rec.	<input checked="" type="checkbox"/>
					Mileage	<u> </u>
					Other	<u> </u>
					TOTAL PRICE \$	<input checked="" type="checkbox"/>

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Approved By [Signature]
 Our Representative RAY SCHWAGER Thankyou