

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Crawford Oil & Gas Inc.

DATE 04-02-000

WELL NAME: Cole #1

Comanche Co.

KB 1886.00 ft

TICKET NO: 12782

DST #1

LOCATION : Sec.09 Twp.34s Rg.18w Ks

GR 1875.00 ft

FORMATION: Pawnee

INTERVAL : 5133.00 To 5155.00 ft

TD 5155.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 2210 to 2240 hr
SI 45 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 2240 to 2325 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 2325 to 0025 hr
FS 90 Depth(ft)	5152.0	5152.0	5138.0	0.0	0.0	FS Fr. 0025 to 0155 hr

	Field	1	2	3	4	
A. Init Hydro	2492.0	2553.0	2506.0	0.0	0.0	T STARTED 1934 hr
B. First Flow	57.0	66.0	20.0	0.0	0.0	T ON BOTM 2205 hr
B1. Final Flow	69.0	70.0	59.0	0.0	0.0	T OPEN 2210 hr
C. In Shut-in	1982.0	2000.0	1948.0	0.0	0.0	T PULLED 0159 hr
D. Init Flow	62.0	65.0	23.0	0.0	0.0	T OUT 0420 hr
E. Final Flow	75.0	86.0	75.0	0.0	0.0	
F. Fl Shut-in	1975.0	1989.0	1938.0	0.0	0.0	
G. Final Hydro	2459.0	2534.0	2476.0	0.0	0.0	
Inside/Outside	0	0	I	T		

TOOL DATA-----	
Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	72000.00 lbs
Initial Str Wt	66000.00 lbs
Unseated Str Wt	66000.00 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	5135.00 ft

RECOVERY

Tot Fluid 105.00 ft of 0.00 ft in DC and 105.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 45.00 ft of Gas Cut Mud 5%gas 95%mud
 60.00 ft of Muddy Water 37%mud 63%water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw .14 ohms @ 60 degrees F.
 0.00 ft of EST.FT. of PAY-----6
 SALINITY 66000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----	
Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	45.00 S/L
W.L.	9.60 in3
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:

Strong blow -bottom of bucket in 75sec
 Gas to surface in 18 minutes
 (see gas volume report)

Initial shutin:

No blow

Final Flow:

Strong blow - see gas volume report

Final Flow:

Weak blow (1/2")

SAMPLES: Gas sample

SENT TO: Caraway/Liberal

RECEIVED
 STATE CORPORATION COMMISSION

JUL 24 2000

CONSERVATION DIVISION
 Wichita, Kansas

Test Successful: Y

Amt. of fill	1.00 ft
Btm. H. Temp.	117.00 F
Hole Condition	good
% Porosity	12.00
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 #	5
Unit #	
Pump T.	LCM 5 #/bl

GAS RECOVERY

COMPANY: Crawford Oil & Gas Inc.

DATE: 04-02-000

WELL NAME: Cole #1

Comanche Co.

KB Elev: 1886.00 ft

TICKET #12782

DST #1

WELL LOCATION: Sec.09 Twp.34s Rg.18w Ks

GR Elev: 1875.00 ft

FORMATION: Pawnee

INTERVAL Fr.: 5133.00 To 5155.00 T.D.: 5155.00 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)
20	0.25	4	0	27300.0
30	0.25	8	0	33200.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.25	6	0	30300.0
20	0.25	11	0	37600.0
30	0.25	15	0	43500.0
40	0.25	17	0	46400.0
50	0.25	19	0	49400.0
60	0.25	20	0	50900.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Cole #1 Comanche Co.
 LOCATION : Sec.09 Twp.34s Rg.18w Ks
 TICKET No. 12782 D.S.T. No. 1 DATE 04-02-000
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 22
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 22
 TOTAL TOOL 44
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 44
 D.C. ABOVE TOOLS.Stands Single Total
 D.P. ABOVE TOOLS.Stands82 Single 1 Total 5135
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5179
 TOTAL DEPTH 5155
 TOTAL DRILL PIPE ABOVE K.B. 24

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 5111
 S.I. TOOL Sterling 5117
 HMV Sterling 5122
 JARS none
 SAFETY JOINT bowen 5124
 PACKER Top 5128
 PACKER Btm. 5133
 DEPTH 5133
 1 ft. 5134
 ANCHOR
 perfs
 Alpine rec. @ 5138
 16'perfs to 5150
 AK-1 rec. @ 5152
 BULLNOSE 5 ft. perforated 5155
 T.D.

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20002017 Analyzed: 04/06/00

Sample From: Cole #1 DST 1

Pressure:

Producer: Crawford Oil & Gas

Temperature:

Date: Location: 9-34-18

Time:

County: Comanche

Sampler:

State: Kansas

Source:

Formation: Pawnee

	Mole %	GPM
Helium	He: 0.103	0.000
Hydrogen	H2: 0.006	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.694	0.000
Carbon Dioxide	CO2: 0.046	0.000
Methane	C1: 88.539	0.000
Ethane	C2: 3.533	0.945
Propane	C3: 2.252	0.621
Iso Butane	iC4: 0.251	0.082
Normal Butane	nC4: 0.923	0.291
Iso Pentane	iC5: 0.233	0.085
Normal Pentane	nC5: 0.330	0.120
Hexanes Plus	C6+: 1.090	0.476

TOTAL: 100.000 2.619

Z Fact: 0.9973

SP.GR.: 0.6630

BTU (SAT): 1116.1 @ 14.73 psia

BTU (DRY): 1135.8 @ 14.73 psia

OCTANE RATING: 122.6

COMMENTS:

0.000

TEST HISTORY

12782 DST#1 COLES #1 CRAWFORD OIL & GAS

Flag Points

t(Min.) P(PSig)

A:	0.00	2506.16
B:	0.00	20.22
C:	30.50	58.74
D:	45.50	1948.29
E:	0.00	22.90
F:	59.00	74.94
G:	93.00	1938.43
Q:	0.00	2476.37

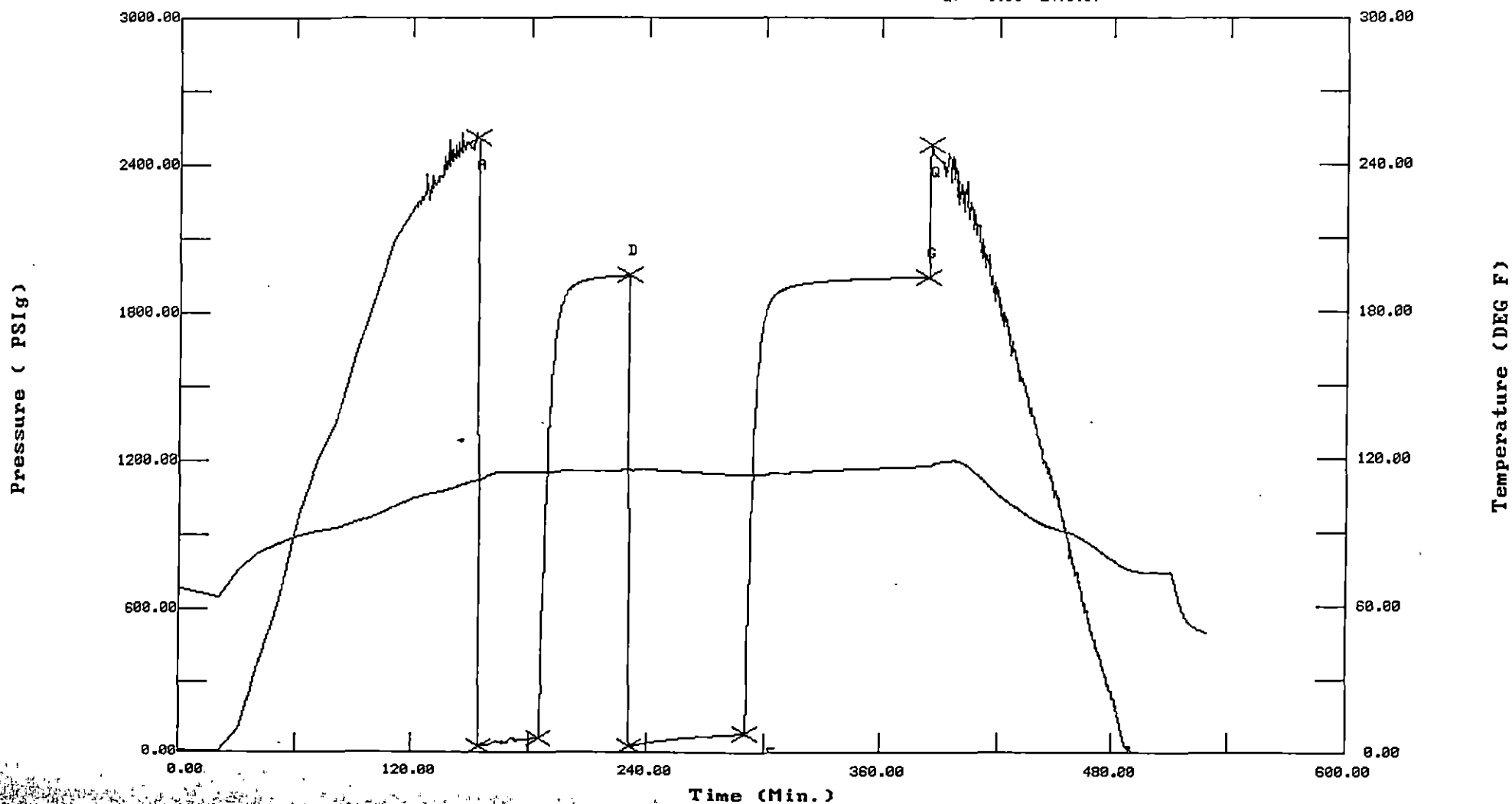
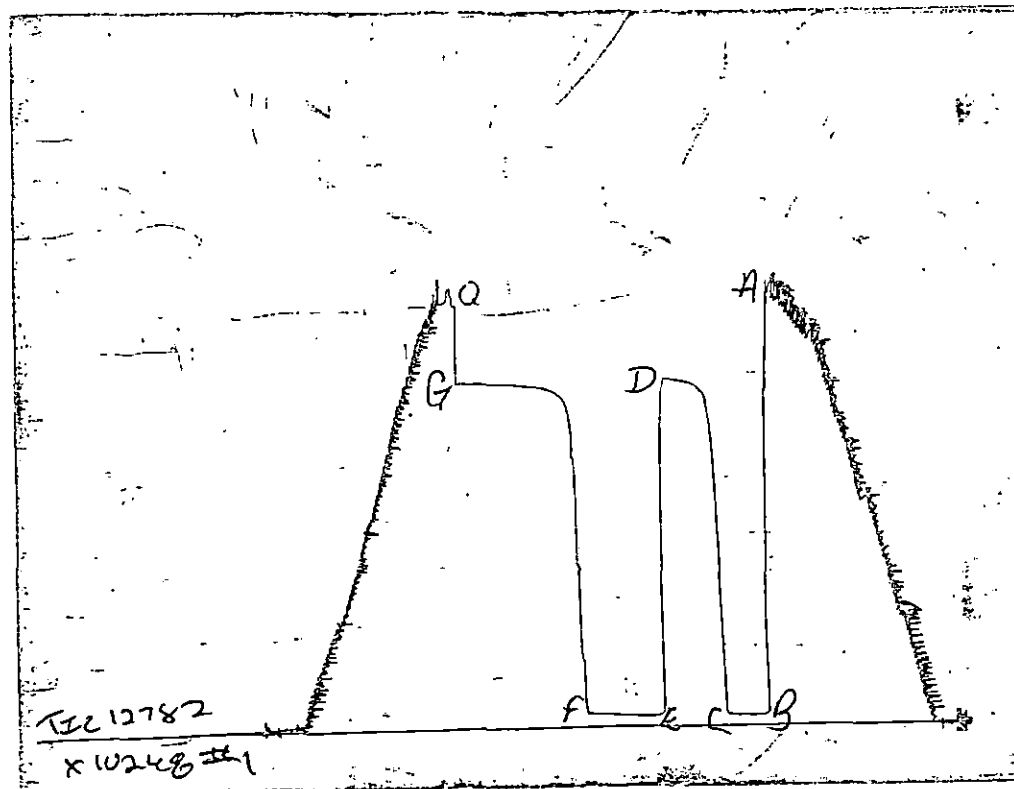


CHART PAGE



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

**RILOBITE
TESTING L.L.C.**

GAS VOLUME REPORT

Crawford Oil & Gas
OPERATOR

Coles #

WELL NAME AND NO.

DST NO.

Initial Open

Final Open

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12782

Well Name & No.	Coles #1	Test No.	1	Date	4-2-2000
Company	Crawford Oil & Gas Inc.	Zone Tested	Pawnee		
Address	P.O. Box 51, Coldwater Ks. 67029	Elevation	1846	KB	1875 GL
Co. Rep / Geo.	Jon Christensen	Cont.	Duke Dwyer #5	Est. Ft. of Pay	6 Por. %
Location: Sec.	9	Twp.	34 ^s	Rge.	18 ^w
				Co.	Comanche State
					Ks.
No. of Copies	5	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	yes
				Evaluation (Y, N)	

Interval Tested 5133 - 5155' Initial Str Wt./Lbs. 66,000 Unseated Str Wt./Lbs. 66,000
Anchor Length 22' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 72,000
Top Packer Depth 5128' Tool Weight 2,100-lb
Bottom Packer Depth 5133' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
Total Depth 5155' Wt. Pipe Run None Drill Collar Run None
Mud Wt. 9.2 LCM 5# Vis. 45 WL 9.6 cc. Drill Pipe Size 4 1/2" x H. Ft. Run 5135'
Blow Description IF: Strong blow. B.O.B. in 75 secs. GTS in 18 mins.
(see gas volume report) FSI: No blow.
FF: Strong blow. (see gas volume report) FSI: Weak blow (1/2")

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>105</u>	<u>yes</u>	<u>—</u>	<u>105</u>
Rec. <u>45</u> Feet Of <u>GCM</u>	<u>5</u> %gas	<u>—</u> %oil	<u>95</u> %water %mud
Rec. <u>60</u> Feet Of <u>MW</u>	<u>—</u> %gas	<u>63</u> %oil	<u>37</u> %water %mud
Rec. <u>—</u> Feet Of <u>—</u>	<u>—</u> %gas	<u>—</u> %oil	<u>—</u> %water %mud
Rec. <u>—</u> Feet Of <u>—</u>	<u>—</u> %gas	<u>—</u> %oil	<u>—</u> %water %mud
Rec. <u>—</u> Feet Of <u>—</u>	<u>—</u> %gas	<u>—</u> %oil	<u>—</u> %water %mud

BHT 117 °F Gravity N/A °API D@ — °F Corrected Gravity N/A °API
RW 144 @ 60 °F Chlorides 46,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2492</u>	<u>2506</u>	PSI	Recorder No. <u>2342</u>	T-On Location <u>1720</u>
(B) First Initial Flow Pressure	<u>57</u>	<u>20</u>	PSI	(depth) <u>5138'</u>	T-Started <u>1934</u>
(C) First Final Flow Pressure	<u>69</u>	<u>59</u>	PSI	Recorder No. <u>10248</u>	T-Open <u>2210</u>
(D) Initial Shut-In Pressure	<u>1982</u>	<u>1948</u>	PSI	(depth) <u>5152'</u>	T-Pulled <u>0159</u>
(E) Second Initial Flow Pressure	<u>62</u>	<u>23</u>	PSI	Recorder No. <u>—</u>	T-Out <u>0420</u>
(F) Second Final Flow Pressure	<u>75</u>	<u>25</u>	PSI	(depth) <u>—</u>	T-Off Location <u>0515</u>
(G) Final Shut-in Pressure	<u>1975</u>	<u>1938</u>	PSI	Initial Opening <u>30</u>	Test <u>✓ 800°</u>
(Q) Final Hydrostatic Mud	<u>2459</u>	<u>2476</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>—</u>
				Final Flow <u>60</u>	Safety Joint <u>✓ 50°</u>
				Final Shut-in <u>40</u>	Straddle <u>—</u>
				<u>4</u>	Circ. Sub <u>—</u>
				<u>1</u>	Sampler <u>—</u>

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 Conny Ruesten

Extra Packer —
Elec. Rec. ✓ 150°
Mileage —
Other —
TOTAL PRICE \$ ✓ 1000.00

TRILOBITE TESTING L.L.C.

OPERATOR : Crawford Oil & Gas Inc.

DATE 04-03-000

WELL NAME: Cole #1

Comanche Co.

KB 1886.00 ft

TICKET NO: 12783

DST #2

LOCATION : Sec.09 Twp.34s Rg.18w Ks

GR 1875.00 ft

FORMATION: Miss.

INTERVAL : 5285.00 To 5330.00 ft

TD 5330.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0145 to 0215 hr
SI 45 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0215 to 0300 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0300 to 0400 hr
FS 90 Depth(ft)	5327.0	5327.0	5290.0	0.0	0.0	FS Fr. 0400 to 0530 hr

	Field	1	2	3	4	
A. Init Hydro	2591.0	2593.0	2608.0	0.0	0.0	T STARTED 2249 hr
B. First Flow	207.0	197.0	217.0	0.0	0.0	T ON BOTM 0140 hr
B1. Final Flow	137.0	148.0	130.0	0.0	0.0	T OPEN 0145 hr
C. In Shut-in	1727.0	1711.0	1723.0	0.0	0.0	T PULLED 0531 hr
D. Init Flow	207.0	195.0	237.0	0.0	0.0	T OUT 0810 hr
E. Final Flow	139.0	150.0	122.0	0.0	0.0	
F. Fl Shut-in	1793.0	1792.0	1787.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2547.0	2588.0	2575.0	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 80000.00 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 0.00 ft
						D.P. Length 5289.00 ft

RECOVERY

Tot Fluid 190.00 ft of 0.00 ft in DC and 190.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 190.00 ft of Gas Cut Mud 8%gas 92%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 Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----20
 SALINITY 6000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	53.00 S/L
W.L.	9.60 in3
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:

Strong blow - gas to surface in 2 1/2 minutes (see gas volume report)

Initial Shutin:

No blow

Final Flow:

Strong blow - see gas volume report

Final Shutin:

No blow

SAMPLES: Gas sample

SENT TO: Caraway/Liberal

Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	good
% Porosity	16.00
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 #	5
Unit #	
Pump T.	LCM 4 #/bl

Test Successful: Y

GAS RECOVERY

COMPANY: Crawford Oil & Gas Inc.

DATE: 04-03-000

WELL NAME: Cole #1 Comanche Co. KB Elev: 1886.00 ft TICKET #12783 DST #2

WELL LOCATION: Sec.09 Twp.34s Rg.18w Ks GR Elev: 1875.00 ft FORMATION: Miss.

INTERVAL Fr.: 5285.00 To 5330.00 T.D.: 5330.00 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	35	0	721200.0
20	0.75	28	0	619400.0
30	0.75	21	0	517600.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	31	0	663000.0
20	0.75	20	0	503100.0
30	0.75	16	0	445000.0
40	0.75	13	0	401300.0
50	0.75	12	0	386800.0
60	0.75	11	0	372200.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Cole #1 Comanche Co.

LOCATION : Sec.09 Twp.34s Rg.18w Ks

TICKET No. 12783 D.S.T. No. 2 DATE 04-03-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 45

TOTAL TOOL 72

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 72

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands85 Single Total 5289

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5361

TOTAL DEPTH 5330

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 5258

S.I. TOOL Sterling 5264

HMV Sterling 5269

JARS bowen 5274

SAFETY JOINT bowen 5276

PACKER Top 5280

PACKER Btm. 5285

DEPTH 5285

1 ft. 5286

ANCHOR

perfs

Alpine rec. @ 5290

39'perfs to 5325

AK-1 rec. @ 5327

BULLNOSE 5 ft. perforated 5330

T.D.

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20002018 Analyzed: 04/06/00

Sample From: Cole #1 DST 2

Pressure:

Producer: Crawford Oil & Gas

Temperature:

Date: 04/06/00 Location: 9:34:18

Time:

County: Comanche

Sampler:

State: Kansas

Source:

Formation: Miss

	Mole %	GPM
Helium	He: 0.094	0.000
Hydrogen	H2: 0.006	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.065	0.000
Carbon Dioxide	CO2: 0.169	0.000
Methane	C1: 93.025	0.000
Ethane	C2: 2.498	0.668
Propane	C3: 0.851	0.234
Iso Butane	iC4: 0.119	0.039
Normal Butane	nC4: 0.305	0.096
Iso Pentane	iC5: 0.101	0.037
Normal Pentane	nC5: 0.133	0.048
Hexanes Plus	C6+: 0.634	0.277

TOTAL: 100.000 1.399

Z Fact: 0.9977

SP.GR.: 0.6132

BTU (SAT): 1047.2 @ 14.73 psia

BTU (DRY): 1065.7 @ 14.73 psia

OCTANE RATING: 125.0

COMMENTS:

0.000

TEST HISTORY

12783 DST#2 COLE #1 CRAWFORD OIL & GAS

Flag Points
t(Min.) P(PSig)

A:	0.00	2608.38
B:	0.00	217.28
C:	31.00	130.50
D:	44.50	1722.78
E:	0.00	236.84
F:	58.50	121.85
G:	91.50	1786.65
Q:	0.00	2574.98

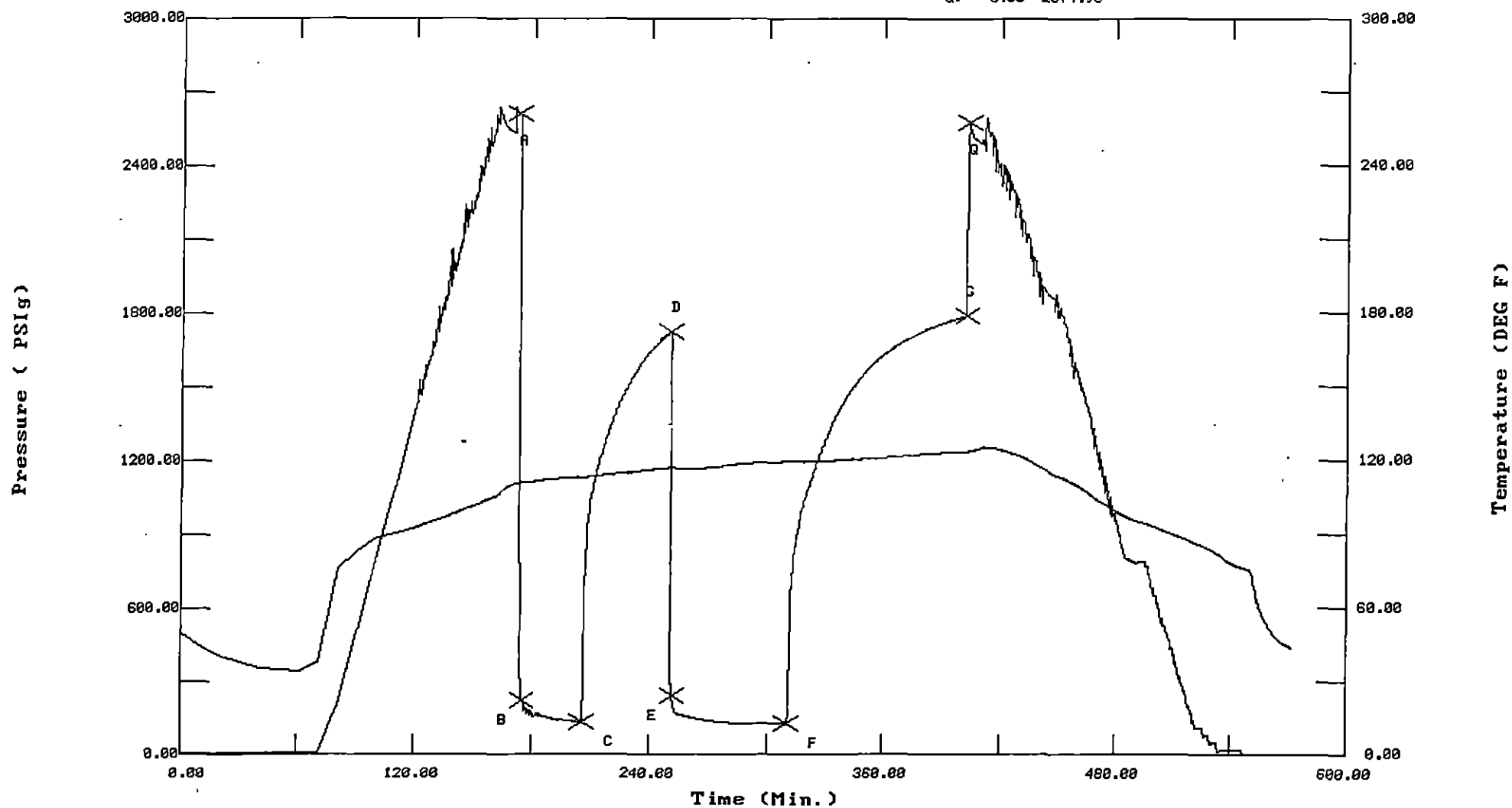
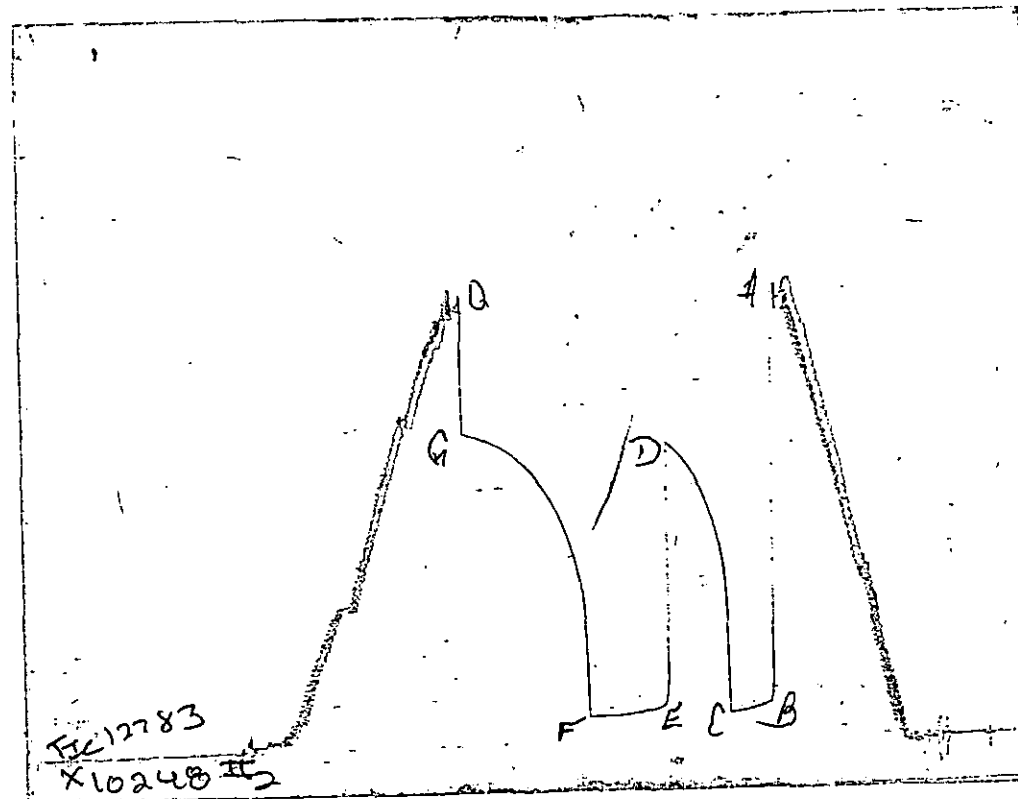


CHART PAGE



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

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

Crawford Oil & Gas
OPERATOR

Coles #1

2
DST NO.

WELL NAME AND NO.

Initial Open

Final Open

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 12783

Well Name & No.	<u>Coles #1</u>	Test No.	<u>2</u>	Date	<u>4-3-2000</u>
Company	<u>Crawford Oil & Gas Inc.</u>	Zone Tested	<u>Miss</u>		
Address	<u>P.O. Box 51, Coldwater Ks. 67029</u>	Elevation	<u>1886</u>	KB	<u>1875</u> GL
Co. Rep / Geo.	<u>Tom Christensen</u>	Cont.	<u>Duke Dwyer #5</u>	Est. Ft. of Pay	<u>20</u> Por. <u> </u> %
Location: Sec.	<u>9</u>	Twp.	<u>34S</u>	Rge.	<u>18W</u> Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>yes</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5285 - 5330'</u>	Initial Str Wt./Lbs.	<u>68,000</u>	Unseated Str Wt./Lbs.	<u>68,000</u>
Anchor Length	<u>45'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>80,000</u>
Top Packer Depth	<u>5280'</u>	Tool Weight	<u>2100 lb</u>		
Bottom Packer Depth	<u>5285'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5330'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.2</u> LCM <u>4#</u> Vis. <u>53</u> WL <u>9.6cc.</u>	Drill Pipe Size	<u>4 1/2" x 4.5"</u>	Ft. Run	<u>5289'</u>
Blow Description	<u>IF: Strong blow. GTS in 2 1/2 mins - (see gas volume report) FSI: No blow.</u>				
	<u>FF: Strong blow. (see gas volume report) FSI: No blow.</u>				

Recovery — Total Feet	<u>190</u>	GIP	<u>yes</u>	Ft. in DC	<u> </u>	Ft. in DP	<u>190</u>
Rec.	<u>190</u>	Feet Of	<u>PCM</u>	8 %gas	%oil	%water	<u>92</u> %mud
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	<u>123</u>	°F Gravity	<u>N/A</u>	°API D@	<u> </u>	°F Corrected Gravity	<u>N/A</u> °API
RW	<u>N.C.</u>	@	<u> </u>	°F Chlorides	<u>6,000</u> ppm Recovery	Chlorides	<u>6,000</u> ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	<u>2591</u>	<u>2608</u>	PSI	<u>alp.</u>	Recorder No.	<u>2342</u>	T-On Location <u>2225</u>
(B) First Initial Flow Pressure	<u>207</u>	<u>217</u>	PSI	(depth)	<u>5290'</u>	T-Started	<u>2249</u>
(C) First Final Flow Pressure	<u>137</u>	<u>130</u>	PSI	Recorder No.	<u>10248</u>	T-Open	<u>6145</u>
(D) Initial Shut-in Pressure	<u>1727</u>	<u>1723</u>	PSI	(depth)	<u>5327'</u>	T-Pulled	<u>0531</u>
(E) Second Initial Flow Pressure	<u>207</u>	<u>237</u>	PSI	Recorder No.	<u> </u>	T-Out	<u>0810</u>
(F) Second Final Flow Pressure	<u>139</u>	<u>122</u>	PSI	(depth)	<u> </u>	T-Off Location	<u>0855</u>
(G) Final Shut-in Pressure	<u>1793</u>	<u>1787</u>	PSI	Initial Opening	<u>30</u>	Test	<u>✓</u> <u>800</u> °°
(Q) Final Hydrostatic Mud	<u>2547</u>	<u>2575</u>	PSI	Initial Shut-in	<u>45</u>	Jars	<u>✓</u> <u>200</u> °°
				Final Flow	<u>60</u>	Safety Joint	<u>✓</u> <u>50</u> °°
				Final Shut-in	<u>90</u>	Straddle	<u> </u>
					<u>4</u>	Circ. Sub	<u> </u>
						Sampler	<u> </u>

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 Tom Christensen

Our Representative Tom Christensen

Extra Packer
Elec. Rec. ✓ 150 °°
Mileage
Other
TOTAL PRICE \$ ✓ 1200 °°

Well Name C065
DST Number 1
Recorder Number 10248

A:	<u>2.316</u>	<u>2553</u>
B:	<u>.058</u>	<u>66</u>
C:	<u>.042</u>	<u>70</u>
D:	<u>1.813</u>	<u>2000</u>
E:	<u>.057</u>	<u>65</u>
F:	<u>.076</u>	<u>86</u>
G:	<u>1.823</u>	<u>1989</u>
Q:	<u>2.298</u>	<u>2534</u>

Well Name C063
DST Number 2
Recorder Number 10248

A:	<u>2.352</u>	<u>2593</u>
B:	<u>.174</u>	<u>197</u>
C:	<u>.130</u>	<u>148</u>
D:	<u>1.550</u>	<u>1711</u>
E:	<u>.172</u>	<u>195</u>
F:	<u>.132</u>	<u>150</u>
G:	<u>1.624</u>	<u>1792</u>
Q:	<u>2.347</u>	<u>2588</u>