

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER 1-2 Test No. 1 Date 1/3/95
Company MURFIN DRILLING/CANYON ENERGY INC. Zone C. GROVE
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay 10
Location: Sec. 2 Twp. 32S Rge. 31W Co. SEWARD State KS

Interval Tested 3169-3184 Drill Pipe Size 4.5" XH
Anchor Length 17 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3164 Drill Collar - 2.25 Ft. Run 521
Bottom Packer Depth 3169-3184 Mud Wt. 8.9 lb/Gal.
Total Depth 3340 Viscosity 40 Filtrate 20.4

Tool Open @ 12:30PM Initial Blow FAIR BLOW, BUILT TO 7 INCHES.

Final Blow WEAK BLOW, BUILT TO 3 INCHES.

Recovery - Total Feet 180 Flush Tool? NO

Rec. 60 Feet of MUDDY WATER. 50% WATER; 50 % MUD.
Rec. 120 Feet of SALT WATER. 100% WATER.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.183 @ 59 °F Chlorides 60,000 ppm Recovery Chlorides 6,500 ppm System

(A) Initial Hydrostatic Mud 15847.40 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 17.30 PSI @ (depth) 3172 w / Clock No. 16067

(C) First Final Flow Pressure 27.40 PSI AK1 Recorder No. 13251 Range 4550

(D) Initial Shut-in Pressure 711.80 PSI @ (depth) 3179 w / Clock No. 8698

(E) Second Initial Flow Pressure 73.80 PSI AK1 Recorder No. 1055 Range 4050

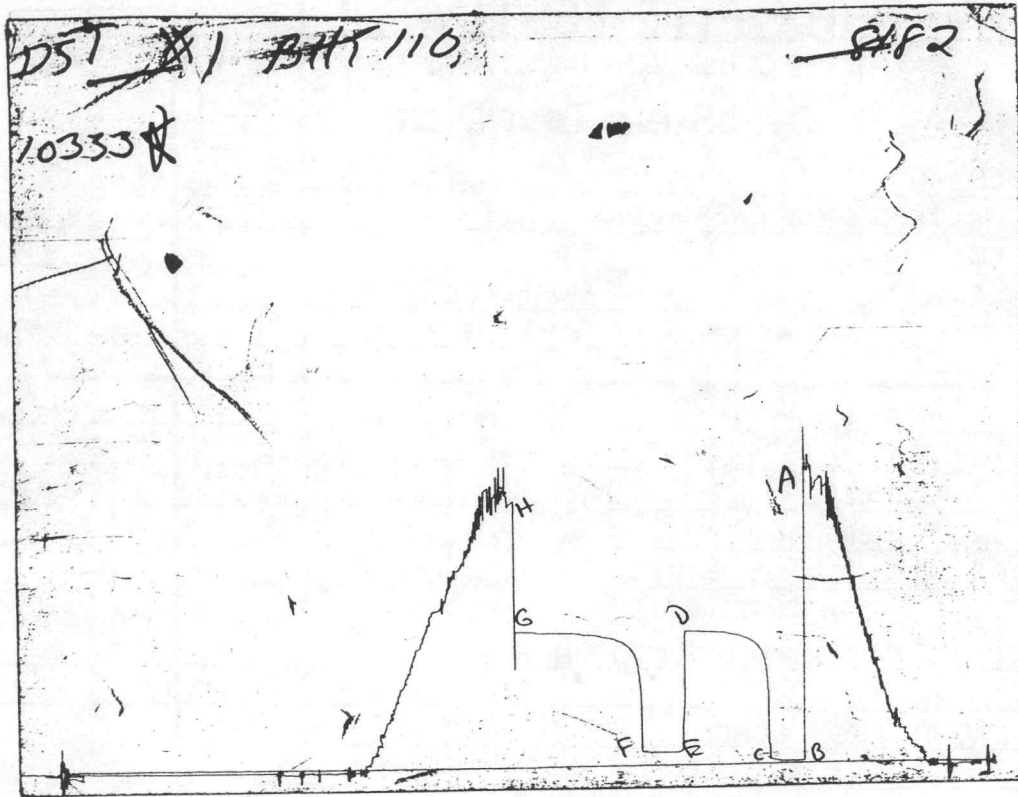
(F) Second Final Flow Pressure 80.30 PSI @ (depth) 3330 w / Clock No. 26191

(G) Final Shut-in Pressure 762.40 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1415.00 PSI Initial Shut-in 30 Final Shut-in 90

Our Representative ROBERT COLLINS

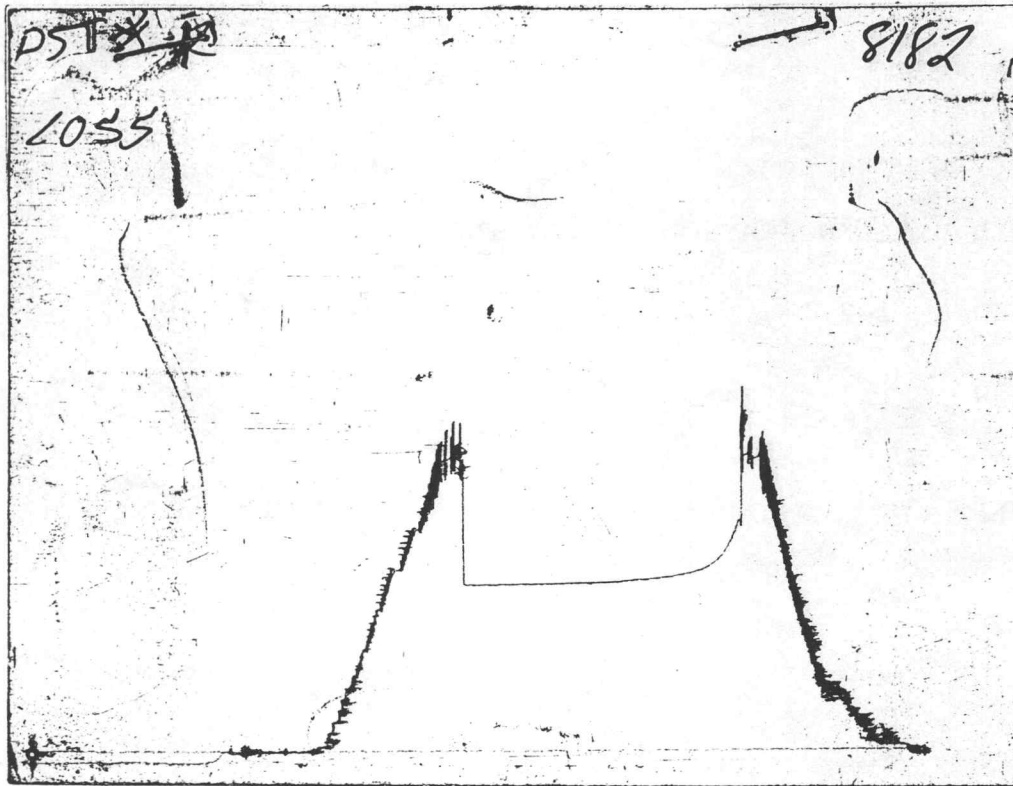
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1569	1584.4
(B) FIRST INITIAL FLOW PRESSURE	10	17.3
(C) FIRST FINAL FLOW PRESSURE	20	27.4
(D) INITIAL CLOSED-IN PRESSURE	701	711.8
(E) SECOND INITIAL FLOW PRESSURE	60	73.8
(F) SECOND FINAL FLOW PRESSURE	60	80.3
(G) FINAL CLOSED-IN PRESSURE	701	762.4
(H) FINAL HYDROSTATIC MUD	1415	1415

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER 1-2 Test No. 2 Date 1/6/95
Company MURFIN DRILLING/CANYON ENERGY INC Zone LANSING A
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay 7
Location: Sec. 2 Twp. 32S Rge. 31W Co. SEWARD State KS

Interval Tested 4384-4412 Drill Pipe Size 4.5" XH
Anchor Length 28 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4379 Drill Collar - 2.25 Ft. Run 460
Bottom Packer Depth 4384 Mud Wt. 9.2 lb/Gal.
Total Depth 4112 Viscosity 42 Filtrate 9.8

Tool Open @ 4:15AM Initial Blow VERY WEAK SURFACE BLOW, BUILDING TO 2 INCHES.

Final Blow VERY WEAK BLOW, BUILT TO 1 INCH.

Recovery - Total Feet 60 Flush Tool? NO

Rec. 1 Feet of CLEAN GASSY OIL. 5% GAS; 95% OIL.
Rec. 60 Feet of MUDDY WATER. 40% WATER; 60% MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW .435 @ 45 °F Chlorides 38,000 ppm Recovery Chlorides 6,500 ppm System

(A) Initial Hydrostatic Mud 2234.8 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 22.4 PSI @ (depth) 4387 w / Clock No. _____

(C) First Final Flow Pressure 20.3 PSI AK1 Recorder No. 13251 Range 4550

(D) Initial Shut-in Pressure 1225.4 PSI @ (depth) 4409 w / Clock No. _____

(E) Second Initial Flow Pressure 43.7 PSI AK1 Recorder No. _____ Range _____

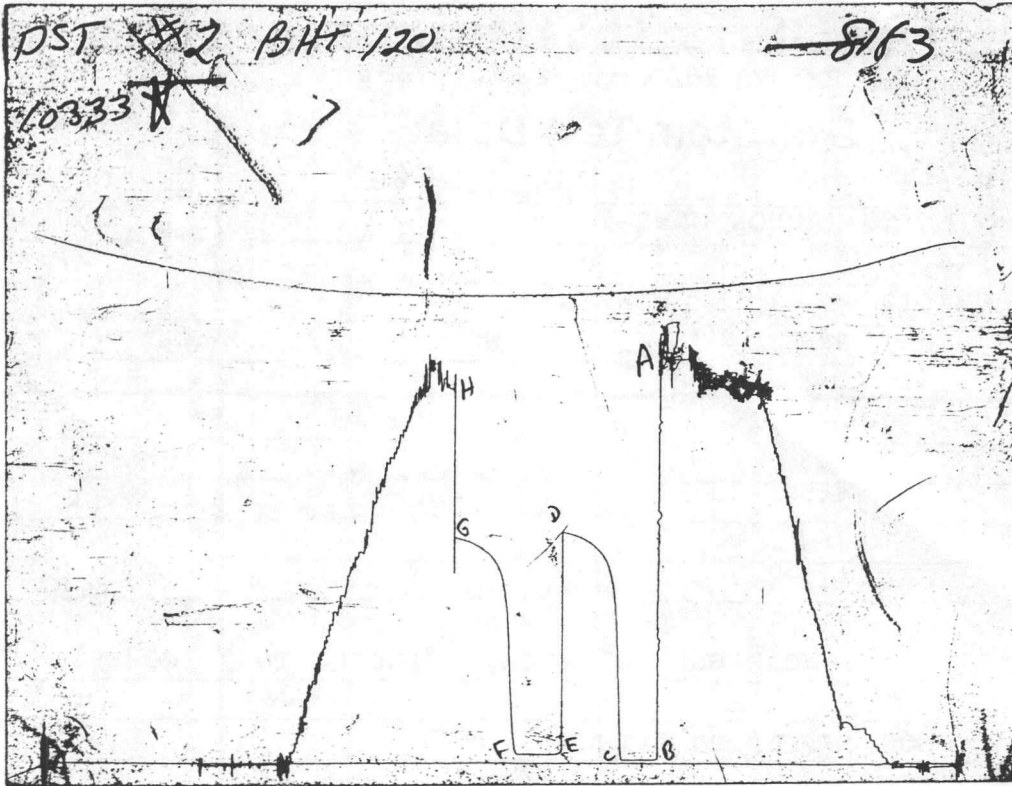
(F) Second Final Flow Pressure 53.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1194.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2204.5 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2240	2234.8
(B) FIRST INITIAL FLOW PRESSURE	20	22.4
(C) FIRST FINAL FLOW PRESSURE	20	20.3
(D) INITIAL CLOSED-IN PRESSURE	1221	1225.4
(E) SECOND INITIAL FLOW PRESSURE	470	43.7
(F) SECOND FINAL FLOW PRESSURE	40	53.9
(G) FINAL CLOSED-IN PRESSURE	1170	1194.7
(H) FINAL HYDROSTATIC MUD	2083	2204.5

FLUID SAMPLER DATA

Ticket No.: 8182 Date: 1/6/95
Company: MURFIN DRILLING/CANYON ENERGY INC
Lease: LANGHOFER 1-2 Test No.: 2
County: SEWARD Sec.: 2 Twp.: 32S Rng.: 31W

SAMPLER RECOVERY

Gas		ML
Oil		ML
Mud	3000	ML
Water	1000	ML
Other		ML
Pressure	250	PSI
TOTAL	4000	ML

PIT MUD ANALYSIS

Chlorides	6,500	
Resistivity	ohms@	F
Viscosity	42	
Mud Wt.	9.2	
Filtrate	9.8	
Other		

SAMPLER ANALYSIS

Resistivity	0.435	ohms@	45	F
Chlorides	38,000		ppm.	
Gravity			corrected @60F	

PIPE RECOVERY

TOP

Resistivity	ohms@	F
Chlorides		ppm

MIDDLE

Resistivity	ohms@	F
Chlorides		ppm

BOTTOM

Resistivity	ohms@	F
Chlorides		ppm

TRILOBITE TESTING L.L.C.

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Test Ticket

No 8183

Well Name & No. <u>Langhoffer # 1-2</u>	Test No. <u>2</u>	Date <u>1-6-95</u>
Company <u>MPC a Canyon</u>	Zone Tested <u>Lansing A</u>	
Address <u>W-24-1/4 K5</u>	Elevation <u>2787 KB</u>	
Co. Rep./Geo. <u>Chuck Schmalz cont. Martin 21</u>	Est. Ft. of Day <u>7</u>	
Location: Sec. <u>2</u> Twp. <u>32 S</u> Rge. <u>31 W</u> Co. <u>Seward</u> State _____		
No. of Copies _____ Distribution Sheet <u>A</u> Yes _____ No _____ Turnkey _____ Yes <u>X</u> No _____ Evaluation _____		

Interval Tested <u>4384-4412</u>	Drill Pipe Size <u>4-1/2" H</u>
Anchor Length <u>28</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4379</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4384</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4112</u>	Drill Collar — 2.25 Ft. Run <u>460" H</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>42</u> Filtrate <u>9.8</u>
Tool Open @ <u>4:15 AM</u> Initial Blow <u>Vary weak surface blow build to 20 in</u>	
Final Blow <u>Vary weak blow build to 1 in</u>	

Recovery — Total Feet <u>60</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. <u>1</u> Feet Of <u>C6 oil</u>	<u>5</u> % gas <u>95</u> % oil	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. <u>60</u> Feet Of <u>MUD</u>	% gas _____ % oil _____	<u>40</u> % water <u>60</u> % mud
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

BHT <u>120</u> °F Gravity _____ °API @ _____ °F Corrected Gravity <u>6560</u> °API	
RW <u>.435 @ 45</u> °F Chlorides <u>38,000</u> ppm Recovery Chlorides <u>5700</u> ppm System	
(A) Initial Hydrostatic Mud <u>2240</u> PSI AK1 Recorder No. <u>10333</u> Range <u>4050</u>	
(B) First Initial Flow Pressure <u>20</u> PSI @ (depth) <u>4387</u> w/Clock No. _____	
(C) First Final Flow Pressure <u>20</u> PSI AK1 Recorder No. <u>13251</u> Range <u>4550</u>	
(D) Initial Shut-In Pressure <u>1221</u> PSI @ (depth) <u>4409</u> w/Clock No. _____	
(E) Second Initial Flow Pressure <u>40</u> PSI AK1 Recorder No. _____ Range _____	
(F) Second Final Flow Pressure <u>40</u> PSI @ (depth) _____ w/Clock No. _____	
(G) Final Shut-In Pressure <u>1170</u> PSI Initial Opening <u>30</u> Test <u>600</u>	
(H) Final Hydrostatic Mud <u>2083</u> PSI Initial Shut-In <u>45</u> Jars <u>X</u> <u>200</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 <u>Chuck Schmalz</u>	Final Flow <u>30</u> Safety Joint <u>X</u> <u>50</u>
Our Representative <u>R. Callahan</u>	Final Shut-In <u>45</u> Straddle _____
	Circ. Sub <u>FATC</u>
	Sampler <u>X</u> <u>200</u>
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>1050</u>

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER #1-2 Test No. 3 Date 1/7/95
Company MURFIN DRILLING/CANYON ENERGY INC Zone SWOPE
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay _____
Location: Sec. 2 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>4852-4885</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>33</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4847</u>	Drill Collar - 2.25 Ft. Run	<u>460</u>
Bottom Packer Depth	<u>4852</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4885</u>	Viscosity	<u>40</u> Filtrate <u>8.6</u>

Tool Open @ 2:00AM Initial Blow FAIR BLOW, BOTTOM IN 8 MINUTES. INITIAL SHUT IN: NO BLOW BACK.
Final Blow WEAK BLOW BUILD TO BOTTOM IN 18 MINUTES. FINIAL SHUT IN: NO BLOW BACK.

Recovery - Total Feet 960 Flush Tool? NO

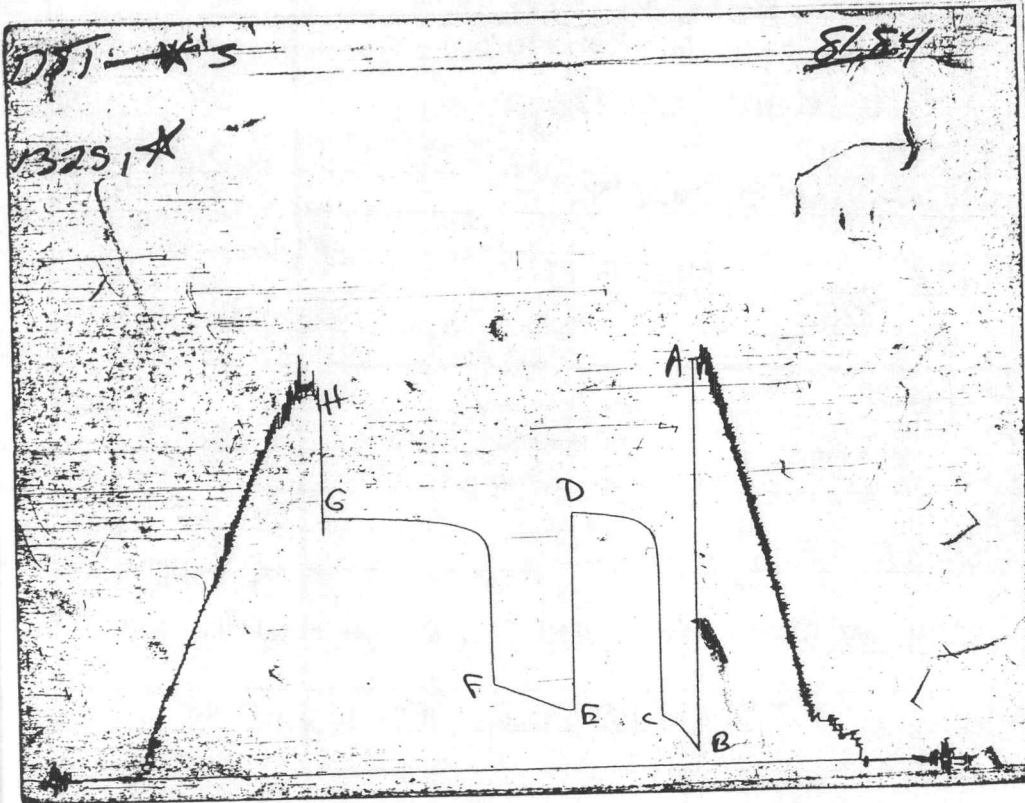
Rec. 120 Feet of MUDDY WATER. 50% WATER; 50% MUD.
Rec. 840 Feet of SALT WATER. 100% WATER.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 082 @ 70 °F Chlorides 160,000 ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud	<u>2407.21</u> PSI	AK1 Recorder No.	<u>10333</u>	Range	<u>4050</u>
(B) First Initial Flow Pressure	<u>92.10</u> PSI	@ (depth)	<u>4855</u>	w / Clock No.	<u>16067</u>
(C) First Final Flow Pressure	<u>3.00</u> PSI	AK1 Recorder No.	<u>13251</u>	Range	<u>4550</u>
(D) Initial Shut-in Pressure	<u>1520.40</u> PSI	@ (depth)	<u>4882</u>	w / Clock No.	<u>8698</u>
(E) Second Initial Flow Pressure	<u>349.10</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>512.40</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>1516.90</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>2245.50</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>120</u>

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2395	2407.21
(B) FIRST INITIAL FLOW PRESSURE	80	92.10
(C) FIRST FINAL FLOW PRESSURE	276	3.00
(D) INITIAL CLOSED-IN PRESSURE	1488	1520.40
(E) SECOND INITIAL FLOW PRESSURE	345	349.10
(F) SECOND FINAL FLOW PRESSURE	495	512.40
(G) FINAL CLOSED-IN PRESSURE	1488	1516.90
(H) FINAL HYDROSTATIC MUD	2384	2245.50

FLUID SAMPLER DATA

Ticket No.: 8184

Date: 1/7/95

Company: MURFIN DRILLING/CANYON ENERGY INC

Lease: LANGHOFER #1-2

Test No.: 3

County: SEWARD

Sec.: 2

Twp.: 32S

Rng.: 32W

SAMPLER RECOVERY

Gas ML

Oil ML

Mud ML

Water 4000 ML

Other ML

Pressure 200 PSI

TOTAL 4000 ML

PIT MUD ANALYSIS

Chlorides 5000

Resistivit ohms@ F

Viscosity 40

Mud Wt. 9.2

Filtrate 8.6

Other

SAMPLER ANALYSIS

Resistivity 0.082 ohms@ 70 F

Chlorides 160,000 ppm.

Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivit 0.199 ohms@ 40 F

Chlorides 88,000 ppm.

MIDDLE

Resistivit 0.117 ohms@ 48 F

Chlorides 145,000 ppm.

BOTTOM

Resistivit 0.082 ohms@ 70 F

Chlorides 160,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8184

Well Name & No. <u>Langhofer #1-2</u>	Test No. <u>3</u>	Date <u>1-7-95</u>			
Company <u>MDC a Conyer</u>	Zone Tested <u>Swope P</u>				
Address <u>Wichita KS</u>	Elevation <u>2787 KB</u>				
Co. Rep./Geo. <u>Chuck S</u>	Cont. <u>Marion 21</u>	Est. Ft. of Pay _____			
Location: Sec. <u>2</u>	Twp. <u>32S</u>	Rge. <u>31W</u>	Co. <u>Seward</u>	State <u>KS</u>	
No. of Copies _____	Distribution Sheet _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Evaluation _____

Interval Tested <u>4852-4885</u>	Drill Pipe Size <u>4-1/2 x H</u>
Anchor Length <u>33</u>	Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth <u>4847</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4852</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4885</u>	Drill Collar — 2.25 Ft. Run <u>460 x H</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>40</u> Filtrate <u>8.6</u>

Tool Open @ 2 AM Initial Blow fair blow bottom in 8 min
FSE - no blow back

Final Blow weak blow build to bottom in 18 min
FSE no blow back

Recovery — Total Feet <u>960</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. <u>120</u> Feet Of <u>MW</u>	%gas _____ %oil _____	<u>50%</u> water <u>50%</u> mud
Rec. _____ Feet Of _____	%gas _____ %oil _____	_____ water _____ mud
Rec. <u>840</u> Feet Of <u>salt water</u>	%gas _____ %oil _____	<u>100%</u> water _____ mud
Rec. _____ Feet Of _____	%gas _____ %oil _____	_____ water _____ mud
Rec. _____ Feet Of _____	%gas _____ %oil _____	_____ water _____ mud

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .082 @ 70 °F Chlorides 160,000 ppm Recovery Chlorides 5,600 ppm System

(A) Initial Hydrostatic Mud <u>2395</u> PSI	AK1 Recorder No. <u>10333</u>	Range <u>4050</u>
(B) First Initial Flow Pressure <u>80</u> PSI	@ (depth) <u>4855</u>	w/Clock No. <u>16067</u>
(C) First Final Flow Pressure <u>276</u> PSI	AK1 Recorder No. <u>13251</u>	Range <u>4550</u>
(D) Initial Shut-In Pressure <u>1488</u> PSI	@ (depth) <u>4882</u>	w/Clock No. <u>8698</u>
(E) Second Initial Flow Pressure <u>345</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>495</u> PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>1488</u> PSI	Initial Opening <u>30</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>2384</u> PSI	Initial Shut-In <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>

Final Flow 60 Safety Joint 50

Final Shut-In 120 Straddle _____

Circ. Sub 2 1/2

Sampler 200

Extra Packer _____

Other _____

Approved By Charles A. [Signature]

Our Representative R. Callup

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER #1-2 Test No. 4 Date 1/9/95
Company MURFIN DRILLING/CANYON ENERGY INC Zone MARMATON
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay 5
Location: Sec. 2 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5023-5066 Drill Pipe Size 4.5" XH
Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5018 Drill Collar - 2.25 Ft. Run 460
Bottom Packer Depth 5023 Mud Wt. 9.1 lb/Gal.
Total Depth 5066 Viscosity 46 Filtrate 7.8

Tool Open @ 9:45AM Initial Blow VERY WEAK SURFACE BLOW BUILD TO 2 INCHES.

Final Blow STRONG BLOW BUILD TO BOTTOM IN 13 MINUTES. FINAL SHUT IN:
NO BLOW BACK.

Recovery - Total Feet 30 Flush Tool? NO

Rec. 675 Feet of GAS IN PIPE.
Rec. 30 Feet of MUDDY WATER & GAS CUT EMULSION.
Rec. _____ Feet of 10% GAS; 5% WATER; 60% MUD. 25% EMULSION.
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud 2447.40 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 27.40 PSI @ (depth) 5026 w / Clock No. 16067

(C) First Final Flow Pressure 27.40 PSI AK1 Recorder No. 13251 Range 4550

(D) Initial Shut-in Pressure 697.50 PSI @ (depth) 5063 w / Clock No. 8698

(E) Second Initial Flow Pressure 34.60 PSI AK1 Recorder No. _____ Range _____

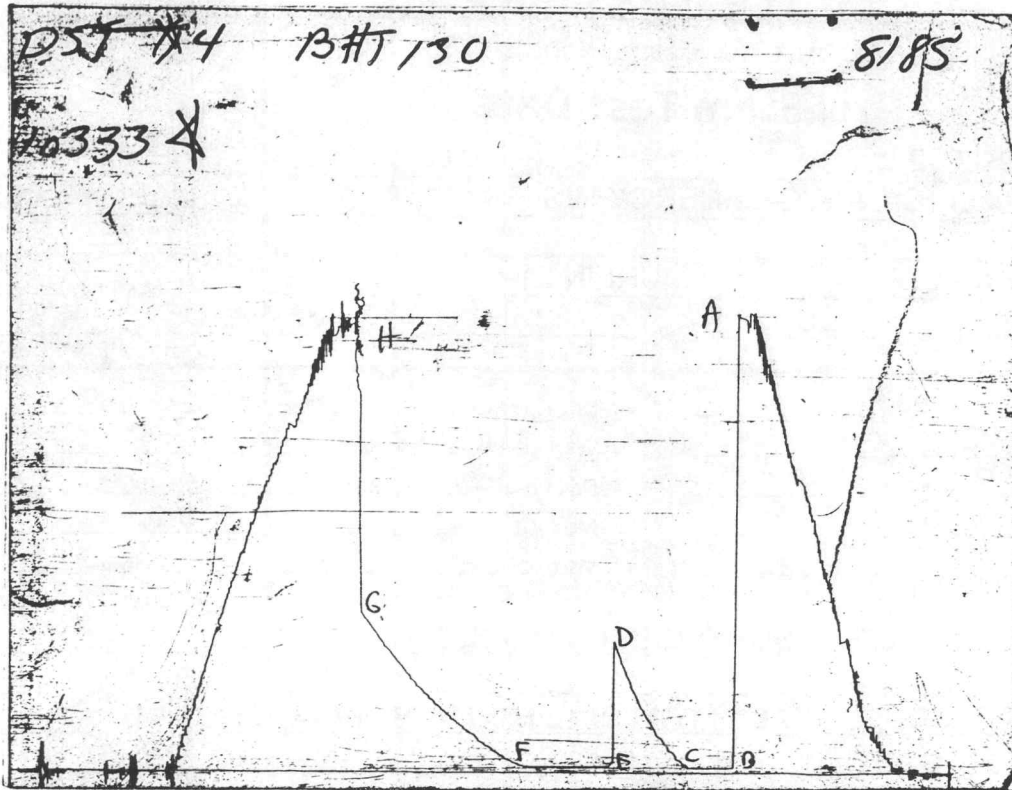
(F) Second Final Flow Pressure 34.60 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 848.60 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2380.60 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2427	2447.40
(B) FIRST INITIAL FLOW PRESSURE	30	27.40
(C) FIRST FINAL FLOW PRESSURE	30	27.40
(D) INITIAL CLOSED-IN PRESSURE	701	697.50
(E) SECOND INITIAL FLOW PRESSURE	40	34.60
(F) SECOND FINAL FLOW PRESSURE	40	34.60
(G) FINAL CLOSED-IN PRESSURE	843	848.60
(H) FINAL HYDROSTATIC MUD	2386	2380.60

FLUID SAMPLER DATA

Ticket No.: 8185

Date: 1/9/95

Company: MURFIN DRILLING/CANYON ENERGY INC

Lease: LANGHOFER #1-2

Test No.: 4

County: SEWARD

Sec.: 2

Twp.: 32S

Rng.: 32W

SAMPLER RECOVERY

Gas 4000 3.6 CF ML

Oil TRACE ML

Mud TRACE ML

Water TRACE ML

Other ML

Pressure 750 PSI

TOTAL 4000 ML

PIT MUD ANALYSIS

Chlorides 5000

Resistivit ohms@ F

Viscosity 46

Mud Wt. 9.1

Filtrate 7.8

Other

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivit ohms@ F

Chlorides ppm.

MIDDLE

Resistivit ohms@ F

Chlorides ppm.

BOTTOM

Resistivit ohms@ F

Chlorides ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8185

Well Name & No. Langhofer #1-2 Test No. 4 Date 1-9-95
 Company MPC & Canyon Zone Tested Marathon
 Address Wichita Ks Elevation 2787 KB
 Co. Rep./Geo. Chuck S Cont. Martin #1 Est. Ft. of Pay 5
 Location: Sec. 2 Twp. 32S Rge. 31W Co. Seward State Ks
 No. of Copies _____ Distribution Sheet _____ Yes X No Turnkey _____ Yes X No _____ Evaluation _____

Interval Tested 5023-5066 Drill Pipe Size 4-1/2 TH
 Anchor Length 43 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5018 Hole Size — 77/8" _____ Rubber Size — 63/4" _____
 Bottom Packer Depth 5023 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5066 Drill Collar — 2.25 Ft. Run 460 TH
 Mud Wt. 9.1+ lb/gal. Viscosity 46 Filtrate 7.8
 Tool Open @ 29:45 AM Initial Blow Vary weak surface blow build to 2 in

Final Blow Strong blow build to bottom in 13 min
FSI - no blow back

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>30</u>	<u>675</u>	<u>no</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>30</u> Feet Of <u>MWD GCEM</u>	<u>10% gas</u> %oil <u>5</u> %water _____ %mud _____	
Rec. _____ Feet Of <u>EA 25%</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud 2427 PSI Ak1 Recorder No. 10333 Range 4050
 (B) First Initial Flow Pressure 30 PSI @ (depth) 5026 w/Clock No. 16067
 (C) First Final Flow Pressure 30 PSI AK1 Recorder No. 13251 Range 4550
 (D) Initial Shut-In Pressure 701 PSI @ (depth) 5063 w/Clock No. 8698
 (E) Second Initial Flow Pressure 40 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 40 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 843 PSI Initial Opening 30 Test 700
 (H) Final Hydrostatic Mud 2386 PSI Initial Shut-In 60 Jars X 200

Final Flow 60 Safety Joint X 50
 Final Shut-In 120 Straddle _____
 Circ. Sub X 200
 Sampler X 200
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 1150

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 OF 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.

Tested By Chris Schmalz
 Representative [Signature]

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER #1-2 Test No. 5 Date 1/11/95
Company MURFIN DRILLING/CANYON ENERGY INC Zone MORROW
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay 5
Location: Sec. 2 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5482-5512 Drill Pipe Size 4.5" XH
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5477 Drill Collar - 2.25 Ft. Run 460
Bottom Packer Depth 5482 Mud Wt. 9.0 lb/Gal.
Total Depth 5512 Viscosity 40 Filtrate 9.4

Tool Open @ 2:15PM Initial Blow WEAK SURFACE BLOW BUILD TO 4-1/2 INCH.

Final Blow WEAK SURFACE BLOW BUILD TO 3 INCHES.

Recovery - Total Feet 30 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE.
Rec. 30 Feet of SLIGHT GAS CUT MUD 10% GAS; 90% MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 132 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4,500 ppm System

(A) Initial Hydrostatic Mud 2704.50 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 41.40 PSI @ (depth) 5485 w / Clock No. 16067

(C) First Final Flow Pressure 35.70 PSI AK1 Recorder No. 13251 Range 4550

(D) Initial Shut-in Pressure 156.70 PSI @ (depth) 5509 w / Clock No. 8698

(E) Second Initial Flow Pressure 47.20 PSI AK1 Recorder No. _____ Range _____

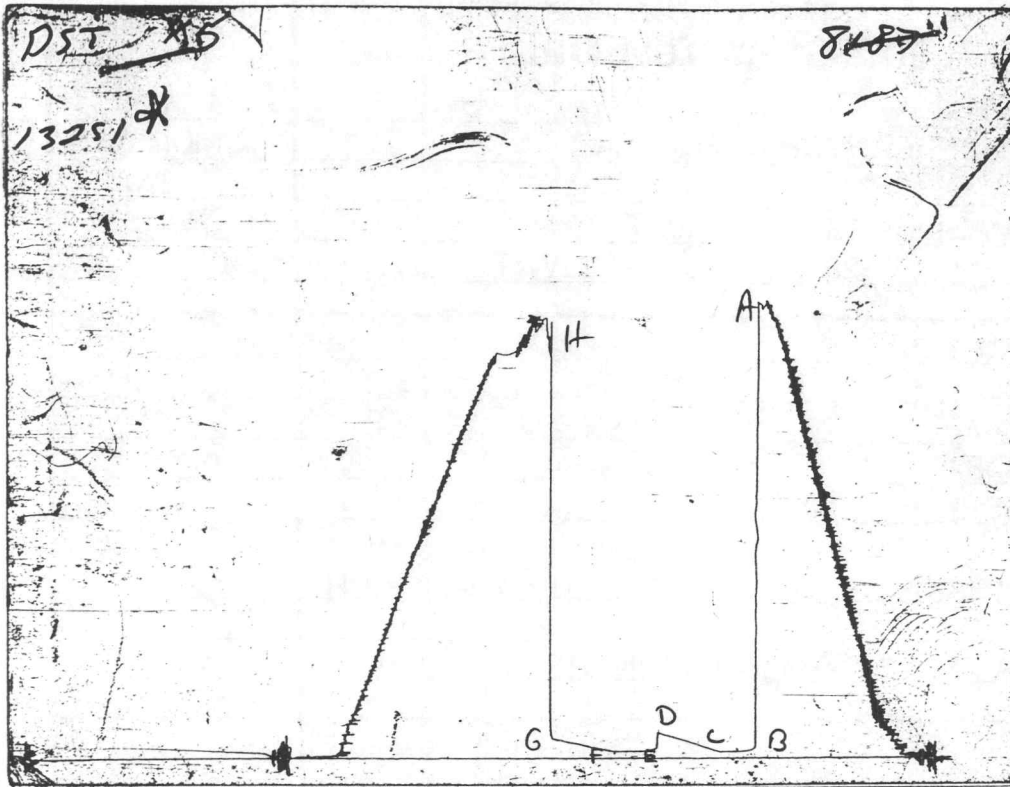
(F) Second Final Flow Pressure 41.40 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 122.10 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2584.10 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2702	2704.50
(B) FIRST INITIAL FLOW PRESSURE	57	41.40
(C) FIRST FINAL FLOW PRESSURE	57	35.70
(D) INITIAL CLOSED-IN PRESSURE	161	156.70
(E) SECOND INITIAL FLOW PRESSURE	57	47.20
(F) SECOND FINAL FLOW PRESSURE	57	41.40
(G) FINAL CLOSED-IN PRESSURE	115	122.10
(H) FINAL HYDROSTATIC MUD	2611	2584.10

FLUID SAMPLER DATA

Ticket No.: 8187 Date: 1/11/95
Company: MURFIN DRILLING/CANYON ENERGY INC
Lease: LANGHOFER #1-2 Test No.: 5
County: SEWARD Sec.: 2 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas .01 CF ML
Oil ML
Mud 3900 ML
Water ML
Other ML
Pressure 50 PSI
TOTAL 4000 ML

SAMPLER ANALYSIS

Resistivity ohms@ F
Chlorides ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 4500
Resistivit ohms@ F
Viscosity 40
Mud Wt. 9.0
Filtrate 9.4
Other

PIPE RECOVERY

TOP

Resistivit ohms@ F
Chlorides ppm.

MIDDLE

Resistivit ohms@ F
Chlorides ppm.

BOTTOM

Resistivit ohms@ F
Chlorides ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8187

Well Name & No. <u>Langhofer 1-2</u>	Test No. <u>5</u>	Date <u>1-11-95</u>
Company <u>MDC a Canyon</u>	Zone Tested <u>Morrow</u>	
Address <u>Wichita KS</u>	Elevation <u>2787 KB</u>	
Co. Rep./Geo. <u>Chuck Schmatte</u>	Cont. <u>Mar Pin 21</u>	Est. Ft. of Pay <u>5</u>
Location: Sec. <u>2</u>	Twp. <u>325</u>	Rge. <u>31W</u> Co. <u>Seward</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Turnkey _____ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Evaluation _____

Interval Tested <u>5482-5512</u>	Drill Pipe Size <u>4 1/2 x H</u>
Anchor Length <u>30</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5477</u>	Hole Size — 7 1/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5482</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5512</u>	Drill Collar — 2.25 Ft. Run <u>460 x H</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>40</u> Filtrate <u>9.4</u>
Tool Open @ <u>2:15 PM</u>	Initial Blow <u>Weak surface blow build to 4 1/2 in</u>
Final Blow <u>Weak surface blow build to 3 in</u>	

Recovery — Total Feet <u>30</u>	Feet of Gas In Pipe <u>90</u>	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>30</u> Feet Of <u>51; gas CM</u>	<u>10</u> %gas _____ %oil _____ %water <u>90</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>132</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery Chlorides <u>4500</u> ppm	System _____
(A) Initial Hydrostatic Mud <u>2702</u>	PSI	AK1 Recorder No. <u>10333</u>	Range <u>4050</u>
(B) First Initial Flow Pressure <u>57</u>	PSI	@ (depth) <u>5485</u>	w/Clock No. <u>16067</u>
(C) First Final Flow Pressure <u>57</u>	PSI	AK1 Recorder No. <u>13251</u>	Range <u>4550</u>
(D) Initial Shut-In Pressure <u>161</u>	PSI	@ (depth) <u>5509</u>	w/Clock No. <u>8698</u>
(E) Second Initial Flow Pressure <u>57</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>57</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>115</u>	PSI	Initial Opening <u>30</u>	Test <u>700</u>
(H) Final Hydrostatic Mud <u>2611</u>	PSI	Initial Shut-In <u>45</u>	Jars <input checked="" type="checkbox"/> <u>200</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.

Final Flow <u>30</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
Final Shut-In <u>45</u>	Straddle _____
	Circ. Sub <input checked="" type="checkbox"/> <u>AK</u>
	Sampler <input checked="" type="checkbox"/> <u>200</u>
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>1150</u>

Approved By Chuck Schmatte
Our Representative R. Collins

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER #1-2 Test No. 6 Date 1/12/95
Company MURFIN DRILLING/CANYON ENERGY INC Zone MORROW
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay 5
Location: Sec. 2 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5499-5540 Drill Pipe Size 4.5" XH
Anchor Length 41 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5494 Drill Collar - 2.25 Ft. Run 460
Bottom Packer Depth 5499 Mud Wt. 9.2 lb/Gal.
Total Depth 5540 Viscosity 52 Filtrate 8.2

Tool Open @ 7:35AM Initial Blow STRONG BLOW BOTTOM IN 30 SECONDS. INITIAL SHUT IN:
NO BLOW BACK.
Final Blow STRONG BLOW BOTTOM AS TOOL OPENED. FINAL SHUT IN:
NO BLOW BACK.

Recovery - Total Feet 260 Flush Tool? NO

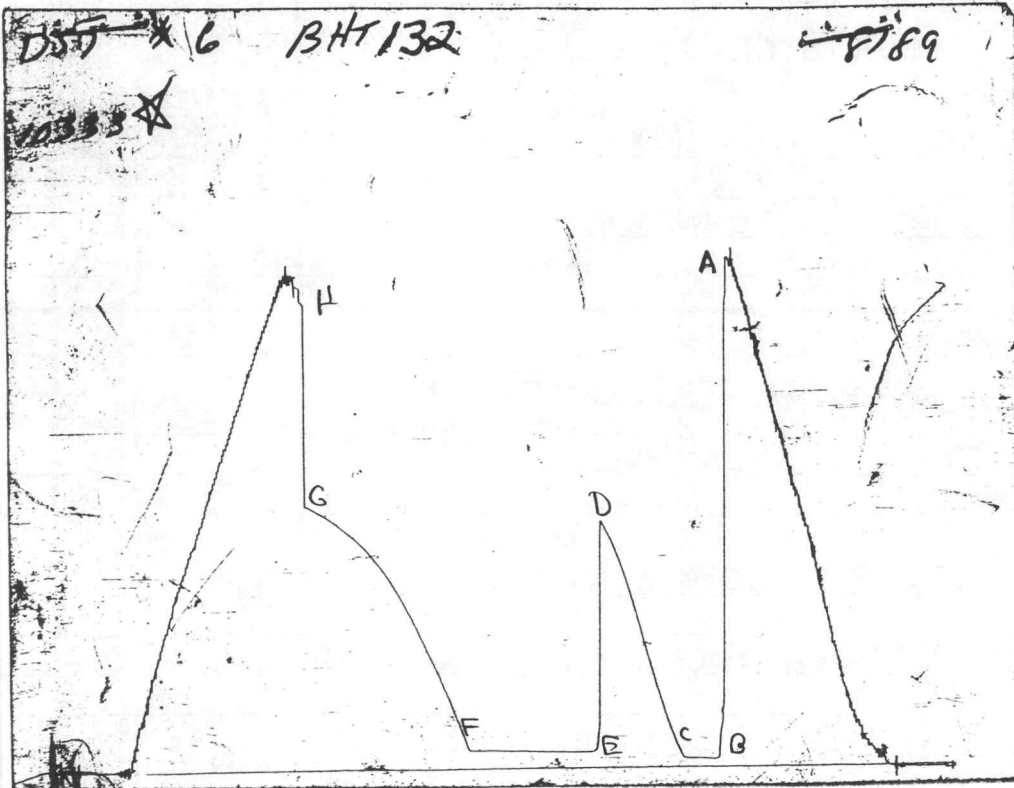
Rec. 1200 Feet of GAS IN PIPE.
Rec. 60 Feet of SLIGHT OIL GAS CUT WATERY MUD.
Rec. _____ Feet of 20% GAS; 5% OIL; 15% WATER; 60% MUD.
Rec. 200 Feet of GAS CUT WATERY MUD. 35% GAS; 30% WTR; 35% MUD.
Rec. _____ Feet of WITH SCUM OIL.

BHT 132 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.332 @ 55 °F Chlorides 35,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud 2696.90 PSI AK1 Recorder No. 10333 Range 4050
(B) First Initial Flow Pressure 47.80 PSI @ (depth) 5503 w / Clock No. 8698
(C) First Final Flow Pressure 52.80 PSI AK1 Recorder No. 13251 Range 4550
(D) Initial Shut-in Pressure 1305.30 PSI @ (depth) 5537 w / Clock No. 16067
(E) Second Initial Flow Pressure 87.40 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 100.60 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1393.40 PSI Initial Opening 30 Final Flow 90
(H) Final Hydrostatic Mud 2553.10 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2702	2696.90
(B) FIRST INITIAL FLOW PRESSURE	50	47.80
(C) FIRST FINAL FLOW PRESSURE	60	52.80
(D) INITIAL CLOSED-IN PRESSURE	1293	1305.30
(E) SECOND INITIAL FLOW PRESSURE	81	87.40
(F) SECOND FINAL FLOW PRESSURE	91	100.60
(G) FINAL CLOSED-IN PRESSURE	1385	1393.40
(H) FINAL HYDROSTATIC MUD	2600	2553.10

FLUID SAMPLER DATA

Ticket No.: 8189 Date: 1/12/95
Company: MURFIN DRILLING/CANYON ENERGY INC
Lease: LANGHOFER #1-2 Test No.: 6
County: SEWARD Sec.: 2 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas 6.6 CF 3000 ML
Oil TRACE ML
Mud 500 ML
Water 500 ML
Other ML
Pressure 1200 PSI
TOTAL 4000 ML

SAMPLER ANALYSIS

Resistivity 0.332 ohms@ 55 F
Chlorides 35,000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 4000
Resistivit ohms@ F
Viscosity 52
Mud Wt. 9.2
Filtrate 8.2
Other

PIPE RECOVERY

TOP

Resistivit ohms@ F
Chlorides ppm.

MIDDLE

Resistivit 0.304 ohms@ 54 F
Chlorides 28,000 ppm.

BOTTOM

Resistivit ohms@ F
Chlorides ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8189

Well Name & No. <u>Langhofer 1-2</u>	Test No. <u>6</u>	Date <u>1-12-95</u>			
Company <u>MPC & Canyon</u>	Zone Tested <u>Moraw</u>				
Address <u>Wichita Ks</u>	Elevation <u>2787</u>				
Co. Rep./Geo <u>Chuck Schmatte</u>	Cont. <u>Mar Fin 21</u>	Est. Ft. of Pay <u>5</u>			
Location: Sec. <u>2</u>	Twp. <u>325</u>	Rge. <u>3/W</u>	Co. <u>Seward</u>	State <u>Ks</u>	
No. of Copies _____	Distribution Sheet _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Evaluation _____

Interval Tested <u>5499-5510</u>	Drill Pipe Size <u>4-1/2 TH</u>
Anchor Length <u>41</u>	Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth <u>5494</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5499</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5510</u>	Drill Collar — 2.25 Ft. Run <u>460 TH</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>52</u> Filtrate <u>8.2</u>

Tool Open @ 7:35 AM Initial Blow strong blow bottom in 30 sec
ESI - no blow back

Final Blow strong blow bottom as tool opened
ESI - no blow back

Recovery — Total Feet <u>260</u>	Feet of Gas In Pipe <u>1200</u>	Flush Tool? <u>no</u>
Rec. <u>60</u> Feet Of <u>SOGCWM</u>	<u>20% gas</u> <u>5% oil</u> <u>15% water</u> <u>60% mud</u>	
Rec. _____ Feet Of _____	% gas % oil % water % mud	
Rec. <u>200</u> Feet Of <u>GCWTRM</u>	<u>35% gas</u> % oil <u>30% water</u> <u>35% mud</u>	
Rec. _____ Feet Of <u>W/SCWM oil</u>	% gas % oil % water % mud	
Rec. _____ Feet Of _____	% gas % oil % water % mud	

BHT 132 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .332 @ 55 °F Chlorides 35,000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2702 PSI AK1 Recorder No. 10337 Range 4050

(B) First Initial Flow Pressure 50 PSI @ (depth) 5503 w/Clock No. 8698

(C) First Final Flow Pressure 60 PSI AK1 Recorder No. 13251 Range 4550

(D) Initial Shut-In Pressure 1293 PSI @ (depth) 5537 w/Clock No. 16067

(E) Second Initial Flow Pressure 81 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 91 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1385 PSI Initial Opening 30 Test 700

(H) Final Hydrostatic Mud 2600 PSI Initial Shut-In 60 Jars 200

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Approved By [Signature]

Our Representative [Signature]

Final Flow 96

Final Shut-In 120

Safety Joint 50

Straddle _____

Circ. Sub 2 in

Sampler 200

Extra Packer _____

Other _____

TOTAL PRICE \$ 1150

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER 1-2 Test No. 7 Date 1/13/95
Company MURFIN DRILLING/CANYON ENERGY INC. Zone CHESTER
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay 5
Location: Sec. 2 Twp. 32S Rge. 31W Co. SEWARD State KS

Interval Tested 5715-5733 Drill Pipe Size 4.5" XH
Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5710 Drill Collar - 2.25 Ft. Run 460
Bottom Packer Depth 5715 Mud Wt. 9.2 lb/Gal.
Total Depth 5733 Viscosity 50 Filtrate 7.0

Tool Open @ _____ Initial Blow BRIDGE AT 5250. TRIP OUT WITH TOOL TO CONDITION HOLE.

Final Blow _____

Recovery - Total Feet _____ Flush Tool? NO

Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure _____ PSI @ (depth) 5718 w / Clock No. 16067

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13551 Range 4550

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5730 w / Clock No. 8698

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

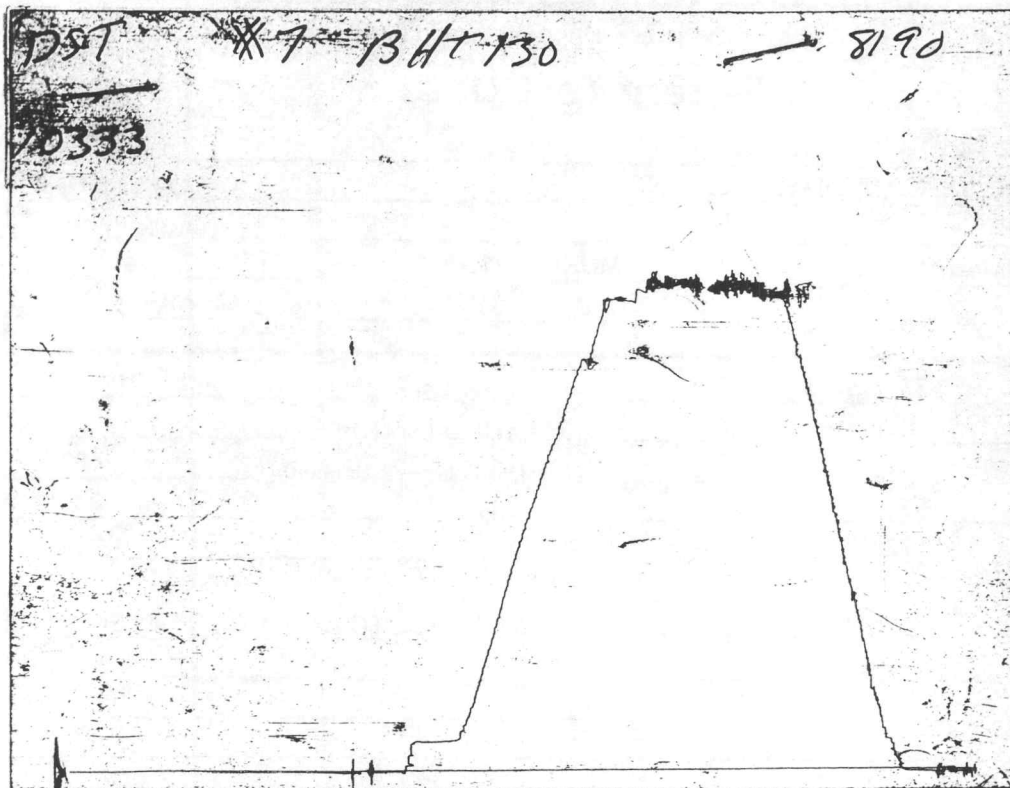
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening _____ Final Flow _____

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in _____ Final Shut-in _____

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8190

Well Name & No. <u>Langhofer 1-2</u>	Test No. <u>7</u>	Date <u>1-13-93</u>
Company <u>MDC & Conyon</u>	Zone Tested <u>Chester</u>	
Address <u>Wich. ks</u>	Elevation <u>2787</u>	
Co. Rep./Geo. <u>Chuck Schmalte cont. Martin 21</u>	Est. Ft. of Pay <u>5</u>	
Location: Sec. <u>2</u> Twp. <u>32S</u> Rge. <u>31W</u> Co. <u>Seward</u> State <u>Ks</u>		
No. of Copies _____	Distribution Sheet _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Turnkey _____
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Evaluation _____

Interval Tested <u>5715-5733</u>	Drill Pipe Size <u>4 1/2" H</u>
Anchor Length <u>18</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5710</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5715</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5733</u>	Drill Collar — 2.25 Ft. Run <u>460" H</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>50</u> Filtrate <u>7.0</u>
Tool Open @ _____ Initial Blow <u>Bridge @ 5250</u>	
<u>Trip out w/ tool to condition hole</u>	
Final Blow _____	

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____		<input checked="" type="checkbox"/>				
Rec. _____ Feet Of _____						
Rec. _____ Feet Of _____						
Rec. _____ Feet Of _____						
Rec. _____ Feet Of _____						

BHT _____ °F	Gravity _____ °API @ _____ °F	Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery Chlorides <u>3,000</u> ppm System
(A) Initial Hydrostatic Mud _____ PSI	AK1 Recorder No. <u>10333</u>	Range <u>4050</u>
(B) First Initial Flow Pressure _____ PSI	@ (depth) <u>5718</u>	w/Clock No. <u>16067</u>
(C) First Final Flow Pressure _____ PSI	AK1 Recorder No. <u>13251</u>	Range <u>4550</u>
(D) Initial Shut-In Pressure _____ PSI	@ (depth) <u>5730</u>	w/Clock No. <u>8698</u>
(E) Second Initial Flow Pressure _____ PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure _____ PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure _____ PSI	Initial Opening _____	Test <u>500</u>
(H) Final Hydrostatic Mud _____ PSI	Initial Shut-In _____	Jars <input checked="" type="checkbox"/> <u>200</u>

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Final Flow _____	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
Final Shut-In _____	Straddle _____
	Circ. Sub <u>LWC</u>
	Sampler <input checked="" type="checkbox"/> _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>750</u>

Approved By _____
Our Representative R. Colby

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LANGHOFER 1-2 Test No. 8 Date 1/14/95
Company MURFIN DRILLING/CANYON ENERGY INC. Zone CHESTER
Address WICHITA, KS Elevation 2787
Co. Rep./Geo. CHUCK SCHMALTZ Cont. MURFIN 21 Est. Ft. of Pay _____
Location: Sec. 2 Twp. 32S Rge. 31W Co. SEWARD State KS

Interval Tested 5715-5733 Drill Pipe Size 4.5" XH
Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5710 Drill Collar - 2.25 Ft. Run 460
Bottom Packer Depth 5715 Mud Wt. 9.1 lb/Gal.
Total Depth 5733 Viscosity 57 Filtrate 7.0

Tool Open @ 9:10AM Initial Blow FAIR BLOW TO WEAK BLOW AT 7-1/2 INCHES.

Final Blow VERY WEAK SURFACE BLOW, BUILT TO ONE INCH.

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of SLIGHT OIL CUT MUD. 5% OIL; 95% MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 135 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud 2788.60 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 60.70 PSI @ (depth) 5718 w / Clock No. 16067

(C) First Final Flow Pressure 54.70 PSI AK1 Recorder No. 13251 Range 4550

(D) Initial Shut-in Pressure 62.80 PSI @ (depth) 5730 w / Clock No. 8698

(E) Second Initial Flow Pressure 51.60 PSI AK1 Recorder No. _____ Range _____

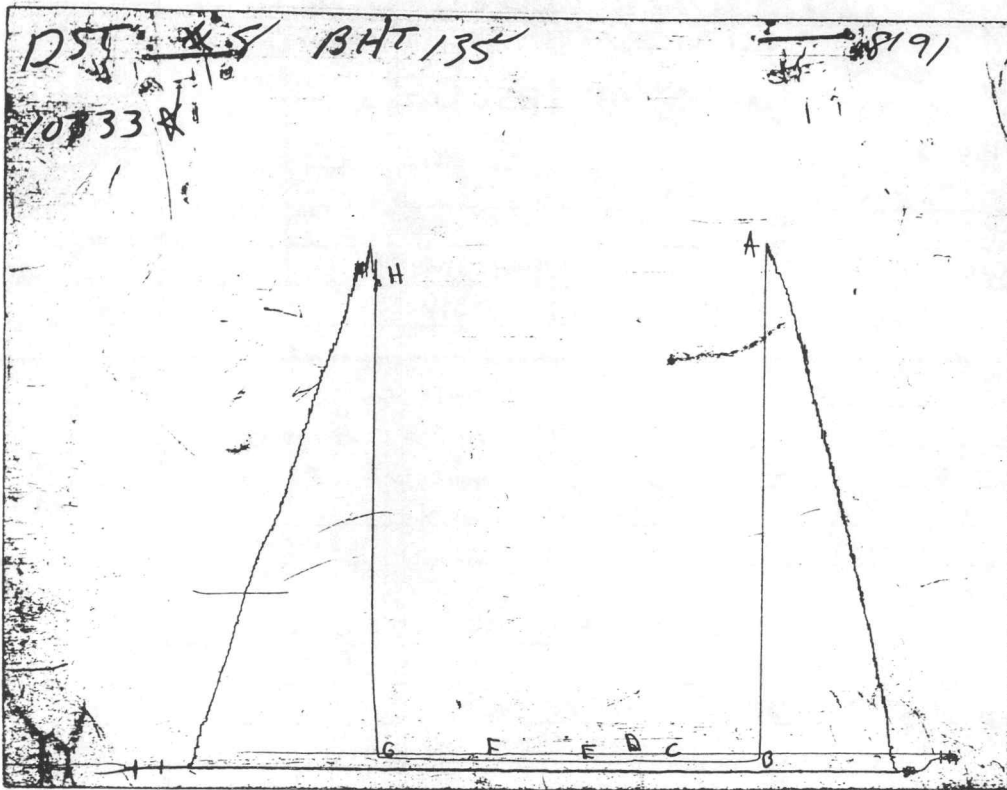
(F) Second Final Flow Pressure 59.70 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 72.90 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2682.90 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2804	2788.60
(B) FIRST INITIAL FLOW PRESSURE	60	60.70
(C) FIRST FINAL FLOW PRESSURE	50	54.70
(D) INITIAL CLOSED-IN PRESSURE	60	62.80
(E) SECOND INITIAL FLOW PRESSURE	50	51.60
(F) SECOND FINAL FLOW PRESSURE	50	59.70
(G) FINAL CLOSED-IN PRESSURE	60	72.90
(H) FINAL HYDROSTATIC MUD	2702	2682.90

FLUID SAMPLER DATA

Ticket No.: 8191

Date: 1/14/95

Company: MURFIN DRILLING/CANYON ENERGY INC.

Lease: LANGHOFER 1-2

Test No.: 8

County: SEWARD

Sec.: 2

Twp.: 32S

Rng.: 31W

SAMPLER RECOVERY

Gas		ML
Oil	50	ML
Mud	3950	ML
Water		ML
Other		ML
Pressure	50	PSI
TOTAL	4000	ML

SAMPLER ANALYSIS

Resistivity	ohms@	F
Chlorides		ppm.
Gravity		corrected @60F

PIT MUD ANALYSIS

Chlorides	3000	
Resistivit	ohms@	F
Viscosity	57	
Mud Wt.	9.1	
Filtrate	7.0	
Other		

PIPE RECOVERY

TOP

Resistivit	ohms@	F
Chlorides		ppm.

MIDDLE

Resistivit	ohms@	F
Chlorides		ppm.

BOTTOM

Resistivit	ohms@	F
Chlorides		ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8191

Well Name & No. <u>Langhofer 1-2</u>	Test No. <u>8</u>	Date <u>1-14-95</u>
Company <u>MDC & Conroy</u>	Zone Tested <u>Chester</u>	
Address <u>Wichita KS</u>	Elevation <u>2787 KB</u>	
Co. Rep./Geo. <u>Chuck Schmalte</u> cont. <u>Martin 21</u>	Est. Ft. of Pay _____	
Location: Sec. <u>2</u> Twp. <u>32S</u> Rge. <u>31W</u> Co. <u>Seward</u> State <u>KS</u>		
No. of Copies _____ Distribution Sheet _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey _____ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Evaluation _____

Interval Tested <u>5715-5733</u>	Drill Pipe Size <u>4 1/2 x H</u>
Anchor Length <u>18</u>	Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth <u>5710</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5715</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5733</u>	Drill Collar — 2.25 Ft. Run <u>460 x H</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>57</u> Filtrate <u>7.0</u>
Tool Open @ <u>9:10 am</u> Initial Blow <u>Fair blow to to weak blow @ 7 1/2</u>	
Final Blow <u>vary weak surface blow build to 1</u>	

Recovery — Total Feet <u>10</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>10</u> Feet Of <u>51: oil/cm</u>	%gas <u>5</u> %oil _____ %water _____ %mud <u>95</u>	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>135</u> °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API	
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>3,000</u> ppm System	
(A) Initial Hydrostatic Mud <u>2804</u> PSI AK1 Recorder No. <u>10333</u> Range <u>4050</u>	
(B) First Initial Flow Pressure <u>60</u> PSI @ (depth) <u>5718</u> w/Clock No. <u>16067</u>	
(C) First Final Flow Pressure <u>50</u> PSI AK1 Recorder No. <u>13251</u> Range <u>4550</u>	
(D) Initial Shut-In Pressure <u>60</u> PSI @ (depth) <u>5730</u> w/Clock No. <u>8698</u>	
(E) Second Initial Flow Pressure <u>50</u> PSI AK1 Recorder No. _____ Range _____	
(F) Second Final Flow Pressure <u>50</u> PSI @ (depth) _____ w/Clock No. _____	
(G) Final Shut-In Pressure <u>60</u> PSI Initial Opening <u>30</u> Test <u>700</u>	
(H) Final Hydrostatic Mud <u>2702</u> PSI Initial Shut-In <u>60</u> Jars <input checked="" type="checkbox"/> <u>200</u>	

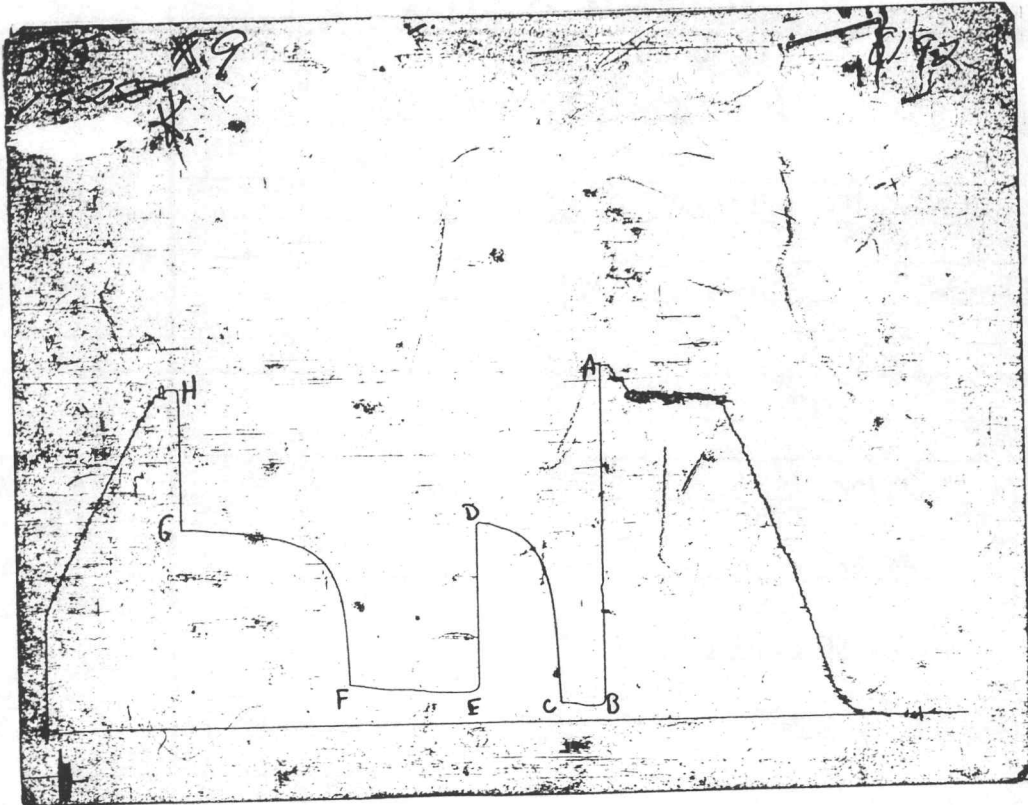
TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS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

Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
Final Shut-In <u>120</u>	Straddle <u>-</u>
	Circ. Sub <u>2 A/C</u>
	Sampler <input checked="" type="checkbox"/> <u>200</u>
	Extra Packer <u>-</u>
	Other _____

Approved By [Signature]
Our Representative [Signature]

TOTAL PRICE \$ 1150

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2864	2900.90
(B) FIRST INITIAL FLOW PRESSURE	123	130.80
(C) FIRST FINAL FLOW PRESSURE	138	163.10
(D) INITIAL CLOSED-IN PRESSURE	1593	1625.00
(E) SECOND INITIAL FLOW PRESSURE	246	261.50
(F) SECOND FINAL FLOW PRESSURE	307	343.10
(G) FINAL CLOSED-IN PRESSURE	1593	1612.50
(H) FINAL HYDROSTATIC MUD	2738	2750.00

FLUID SAMPLER DATA

Ticket No.: 8192

Date: 1/15/95

Company: MURFIN DRILLING/CANYON ENERGY INC.

Lease: LANGHOFER 1-2

Test No.: 9

County: SEWARD

Sec.: 2

Twp.: 32S

Rng.: 31W

SAMPLER RECOVERY

Gas ML

Oil ML

Mud ML

Water 4000 ML

Other ML

Pressure PSI

TOTAL 4000 ML

SAMPLER ANALYSIS

Resistivity 0.092 ohms@ 69 F

Chlorides 120,000 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 4000

Resistivit ohms@ F

Viscosity 44

Mud Wt. 9.2

Filtrate 6.6

Other

PIPE RECOVERY

TOP

Resistivit 0.145 ohms@ 57 F

Chlorides 80,000 ppm.

MIDDLE

Resistivit 0.097 ohms@ 70 F

Chlorides 100,000 ppm.

BOTTOM

Resistivit 0.092 ohms@ 69 F

Chlorides 120,000 ppm.

GAS VOLUME REPORT

MURFIN DRILLING/CANYON ENERGY INC.

LANGHOFER 1-2

DST # 9

<u>MIN</u>	<u>INS. WATER</u>	<u>ORIFICE</u>	<u>MCF/D</u>	<u>MIN</u>	<u>INS. WATER</u>	<u>ORIFICE</u>	<u>MCF/D</u>
	<u>PSIG</u>				PSIG		
				50	8	0.25	4.76
				55	14	0.25	6.33
				60	20	0.25	7.51
				70	32	0.25	9.5
				80	38	0.25	10.4
				90	40	0.25	10.6

Remarks: GAS TO SURFACE IN 45 MINUTES. GAS WILL BURN.