

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE NOV 2

KCC

API NO. 15- 175-21331-00 ORIGINAL ORIGINAL
County Seward
NW-NE Sec. 11 Twp. 35S Rge. 31W E

Operator: License # 30606
Name: Murfin Drilling Co., Inc.
Address: 250 N. Water, Suite 300
City/State/Zip Wichita, KS 67202

Purchaser: NCRA

Operator Contact Person: Larry M. Jack

Phone () 267-3241

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: Paul Godowic

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

8/20/93 9/7/93 10/08/93

Spud Date Date Reached TD Completion Date

4620 Feet from SWK(circle one) Line of Section
1980 Feet from E/W(circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Louderback Well # 1-11

Field Name Unknown

Producing Formation Chesterr

Elevation: Ground 2672 KB 2681

Total Depth 6521 PBTB 6466

Amount of Surface Pipe Set and Cemented at 1447 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content 3000 ppm Fluid volume 2500 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name License No.

Quarter Sec. Twp. 35S Rge. 31W E/W

County FROM CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature By: Larry M. Jack
Title Larry M. Jack, Prod Mgr. Date 11/2/93

Subscribed and sworn to before me this 3 day of November 19 93.

Notary Public Kerran Redington
Kerran Redington
Date Commission Expires 2/6/94

KERRAN REDINGTON
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2/6/94

RECEIVED
STATE CORPORATION COMMISSION
K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
NOV 03 1993
DISTRIBUTION
KCC SWD/Rep
KGS Plug
Wichita, Kansas
NEPA
Other
(Specify)

CONFIDENTIAL

SIDE TWO

Operator Name: Murfin Drilling Co., Inc.

Lease Name Louderback

Well # 1-11

Sec. 11 Twp. 35S Rge. 31W

East
 West

County Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run:
Drill stem test attached. **MICRO
DUAL INDUCTION
CEMENT BOND**

Log Formation (Top), Depth and Datum Sample
Name Top Datum
Geological report attached.

KCC
9/2

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/2	8 5/8	24#	1447	Lite Class A	500 250	5%cc, 1/2#/sx Flocele
Production	7 7/8	4 1/2	10.5#	6512	50/50 Poz	275	10% salt, 6#/sx gypsonite, 3/4% FI28

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
	4	6218-24		750 gal. 7 1/2% HCL. Frac w/15000 gal. Phix Oil & 18000# 20/40 sand.

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8	6288		

Date of First, Resumed Production, SWD or Inj.	Producing Method
10/9/93	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	7.5				

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval: as above

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

NOV 2

Drill-Stem Test Data

API # 15-175-21330 CONFIDENTIAL

Well Name LOUDERBACK #1-11 Test No. 1 Date 8/26/93
Company MURFIN DRILLING CO INC Zone TORONTO
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2681
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN RIG #21 Est. Ft. of Pay
Location: Sec. 11 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested 4467-4490 Drill Pipe Size 4.5" XH
Anchor Length 23 Wt. Pipe I.D. - 2.7 Ft. Run
Top Packer Depth 4462 Drill Collar - 2.25 Ft. Run 461
Bottom Packer Depth 4467 Mud Wt. 9 lb/Gal.
Total Depth 4490 Viscosity 50 Filtrate 11.2

Tool Open @ 7:00 PM Initial Blow SURFACE BLOW - BUILT TO 2"
NO BLOW BACK
Final Blow 1" BLOW - BUILT TO 5"
NO BLOW BACK

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of DRILLING MUD
Rec. Feet of
Rec. Feet of
Rec. Feet of
Rec. Feet of

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DEC 22 1994

FROM CONFIDENTIAL

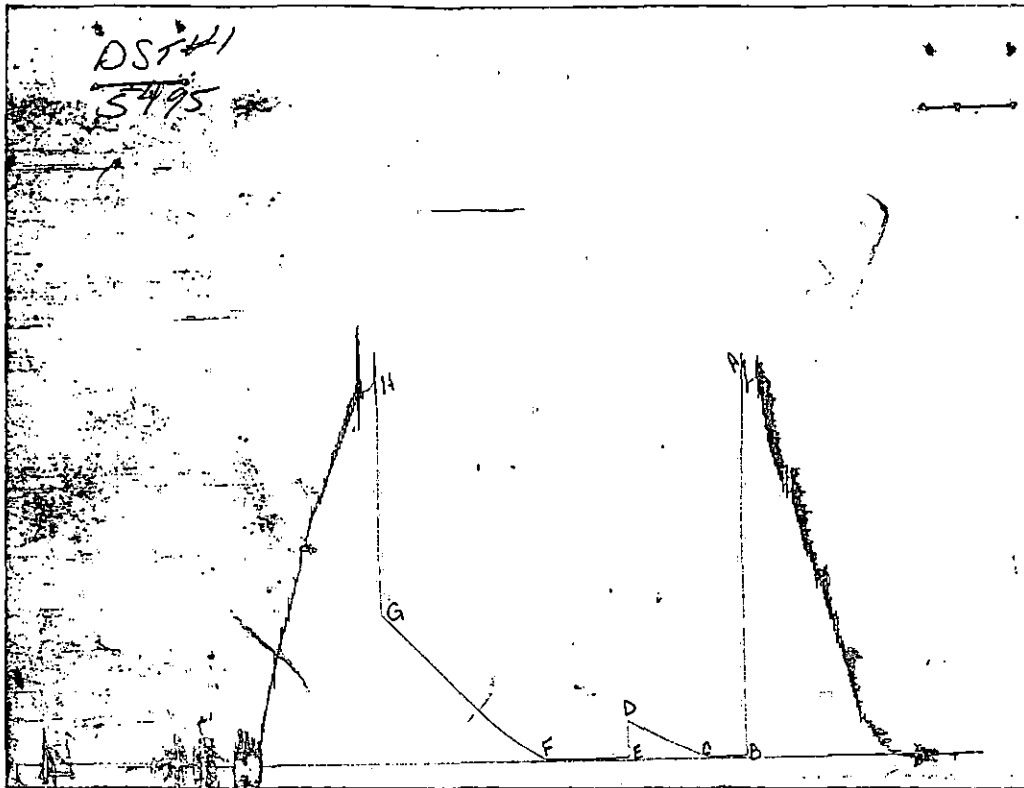
BHT 108 °F Gravity °API @ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2155.9 PSI AK1 Recorder No. 5495 Range 4200
(B) First Initial Flow Pressure 39.6 PSI @ (depth) 4470 w / Clock No. 25813
(C) First Final Flow Pressure 41.6 PSI AK1 Recorder No. 11038 Range 5075
(D) Initial Shut-in Pressure 220.4 PSI @ (depth) 4487 w / Clock No. 25814
(E) Second Initial Flow Pressure 41.6 PSI AK1 Recorder No. Range
(F) Second Final Flow Pressure 41.6 PSI @ (depth) w / Clock No.
(G) Final Shut-in Pressure 847.9 PSI Initial Opening 30 Final Flow
(H) Final Hydrostatic Mud 2103.6 PSI Initial Shut-in 60 Final Shut-in

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STATE CORPORATION COMMISSION
WICHITA, KANSAS
NOV 05 1993
SERVATION DIVISION
Wichita, Kansas

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2144	2155.9
(B) FIRST INITIAL FLOW PRESSURE	41	39.6
(C) FIRST FINAL FLOW PRESSURE	41	41.6
(D) INITIAL CLOSED-IN PRESSURE	217	220.4
(E) SECOND INITIAL FLOW PRESSURE	41	41.6
(F) SECOND FINAL FLOW PRESSURE	41	41.6
(G) FINAL CLOSED-IN PRESSURE	843	847.9
(H) FINAL HYDROSTATIC MUD	2093	2103.6

FLUID SAMPLER DATA

KCC

NOV . 2

ORIGINAL

CONFIDENTIAL

Ticket No.: 6072 Date: 8/26/93
 Company: MURFIN DRILLING CO INC
 Lease: LOUDERBACK #1-11 Test No.: 1
 County: SEWARD Sec.: 11 Twp.: 35S Rng.: 31W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure 450
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 4000
 Resistivity ohms@ F
 Viscosity 50
 Mud Wt. 9
 Filtrate 11.2
 Other

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SAMPLER ANALYSIS

Resistivity 1.4 ohms@ 80 F
 Chlorides 4500 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

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TRILOBITE TESTING, L.L.C. ORIGINAL

NOV 2

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

Drill-Stem Test Data

API #15-175-2133

Well Name LOUDERBACK #1-11 Test No. 2 Date 8/27/93
 Company MURFIN DRILLING CO INC Zone LANSING
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2681
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN RIG #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested 4594-4610 Drill Pipe Size 4.5" XH
 Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4589 Drill Collar - 2.25 Ft. Run 461
 Bottom Packer Depth 4594 Mud Wt. _____ 9 lb/Gal.
 Total Depth 4610 Viscosity 44 Filtrate 11.2

Tool Open @ 5:15 PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 7 MINUTES
 ISI: BLED OFF BLOW - NO BLOW BACK
 Final Blow FAIR BLOW - BUILT TO 8"
 FSI: BLED OFF BLOW - NO BLOW BACK

Recovery - Total Feet 240 Flush Tool? NO

Rec. 180 Feet of GAS IN PIPE
 Rec. 67 Feet of SLTLY OIL & GAS CUT MUD-5% GAS/ 2% OIL / 93% MUD
 Rec. 173 Feet of SALT WATER
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

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DEC 2 1994

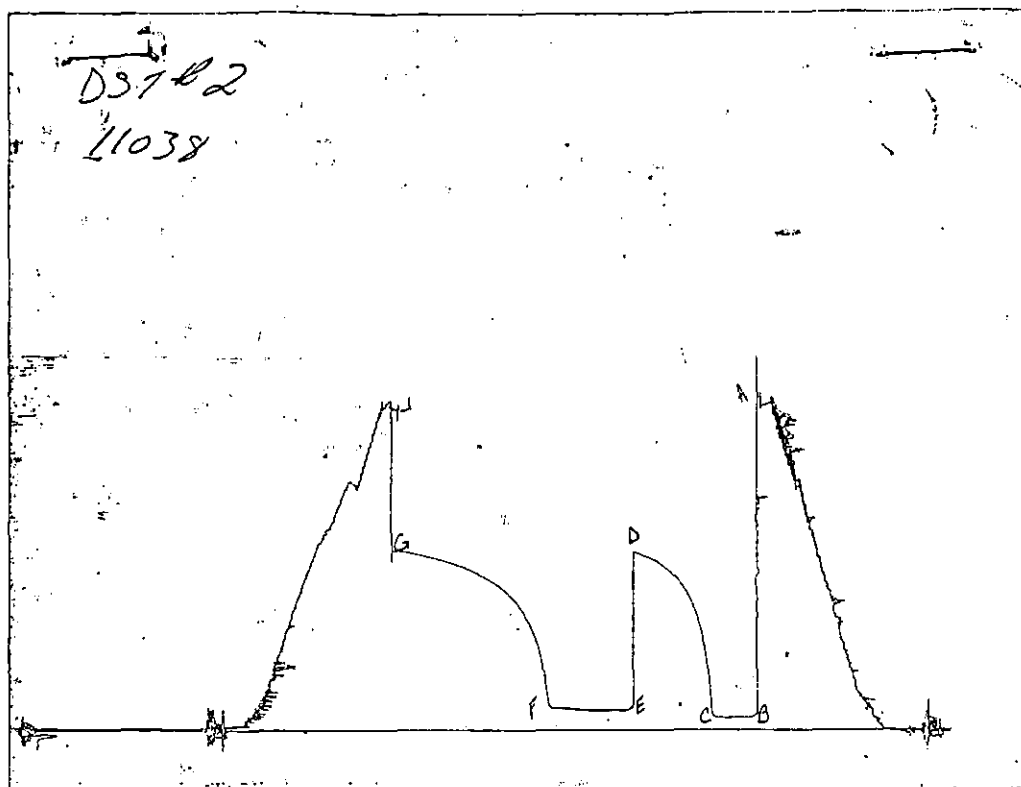
FROM CONFIDENTIAL

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.071 @ 73 °F Chlorides 120000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2199.3 PSI AK1 Recorder No. 5495 Range 4200
 (B) First Initial Flow Pressure 85.4 PSI @ (depth) 4597 w / Clock No. 25813
 (C) First Final Flow Pressure 85.4 PSI AK1 Recorder No. 11038 Range 5075
 (D) Initial Shut-in Pressure 1214.6 PSI @ (depth) 4607 w / Clock No. 25814
 (E) Second Initial Flow Pressure 126.9 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 141.2 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 1223.7 PSI Initial Opening 30 Final Flow 60
 (H) Final Hydrostatic Mud 2160.9 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2182	2199.3
(B) FIRST INITIAL FLOW PRESSURE	82	85.4
(C) FIRST FINAL FLOW PRESSURE	82	85.4
(D) INITIAL CLOSED-IN PRESSURE	1209	1214.6
(E) SECOND INITIAL FLOW PRESSURE	122	126.9
(F) SECOND FINAL FLOW PRESSURE	136	141.2
(G) FINAL CLOSED-IN PRESSURE	1222	1223.7
(H) FINAL HYDROSTATIC MUD	2157	2160.9

FLUID SAMPLER DATA

ORIGINAL KCC

NOV 2

CONFIDENTIAL

Ticket No.: 6073 Date: 8/27/93
 Company: MURFIN DRILLING CO INC
 Lease: LOUDERBACK #1-11 Test No.: 2
 County: SEWARD Sec.: 11 Twp.: 35S Rng.: 31W

SAMPLER RECOVERY

Gas 1.2 CU FT
 Oil
 Mud
 Water 3800
 Other
 Pressure 400
 TOTAL 3800

PIT MUD ANALYSIS

Chlorides 4000
 Resistivity ohms@ F
 Viscosity 44
 Mud Wt. 9
 Filtrate 11.2
 Other

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FROM CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity 0.071 ohms@ 73 F
 Chlorides 120000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity 0.07 ohms@ 73 F
 Chlorides 120000 ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.071 ohms@
 Chlorides 120000

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CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

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ORIGINAL

Drill-Stem Test Data

API # 15-175-21331

CONFIDENTIAL

Well Name LOUDERBACK #1-11 Test No. 3 Date 8/30/93
 Company MURFIN DRILLING CO INC Zone MARMATON
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2681
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN RIG #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested	<u>5308-5343</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>35</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5303</u>	Drill Collar - 2.25 Ft. Run	<u>461</u>
Bottom Packer Depth	<u>5308</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>5343</u>	Viscosity	<u>44</u> Filtrate <u>12</u>

Tool Open @ 11:30 AM ^{Initial Blow} SURFACE BLOW - DIED IN 6 MINUTES
 Final Blow NO BLOW

Recovery - Total Feet 10 Flush Tool? NO

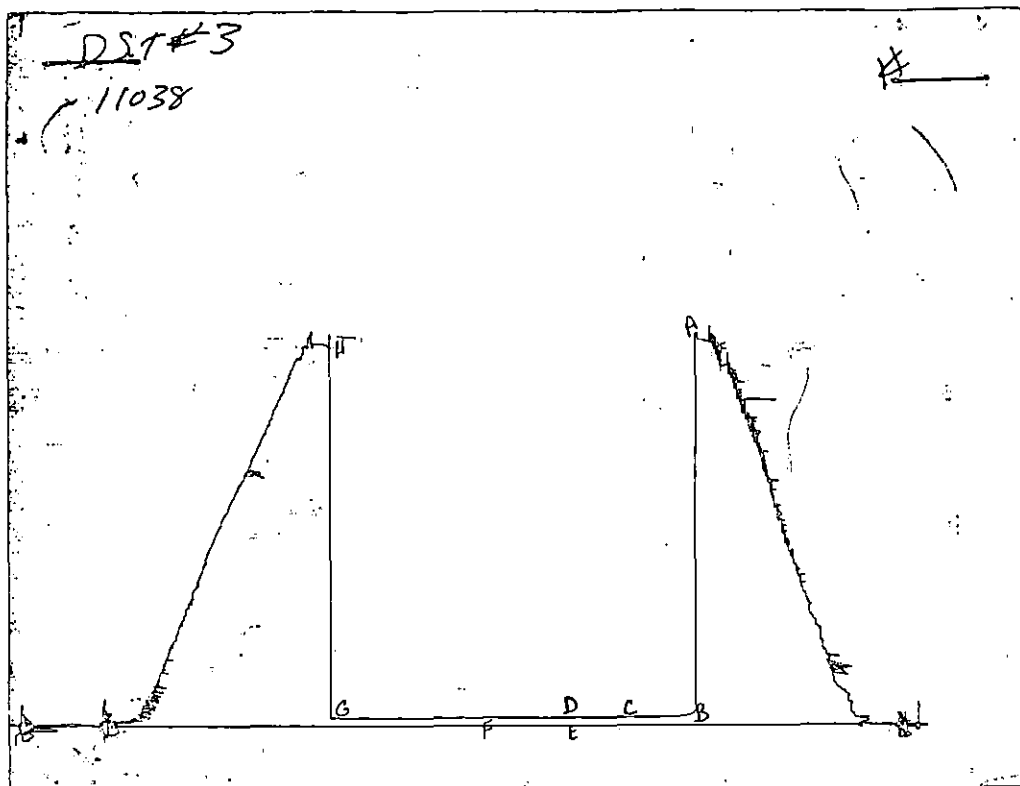
Rec. 10 Feet of DRILLING MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2588.7 PSI AK1 Recorder No. 5495 Range 4200
 (B) First Initial Flow Pressure 75.4 PSI @ (depth) 5311 w / Clock No. 25813
 (C) First Final Flow Pressure 75.4 PSI AK1 Recorder No. 11038 Range 5075
 (D) Initial Shut-in Pressure 75.4 PSI @ (depth) 5340 w / Clock No. 25814
 (E) Second Initial Flow Pressure 61.6 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 61.6 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 75.4 PSI Initial Opening 30 Final Flow 60
 (H) Final Hydrostatic Mud 2560.3 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2580	2588.7
(B) FIRST INITIAL FLOW PRESSURE	55	75.4
(C) FIRST FINAL FLOW PRESSURE	55	75.4
(D) INITIAL CLOSED-IN PRESSURE	55	75.4
(E) SECOND INITIAL FLOW PRESSURE	41	61.6
(F) SECOND FINAL FLOW PRESSURE	41	61.6
(G) FINAL CLOSED-IN PRESSURE	55	75.4
(H) FINAL HYDROSTATIC MUD	2542	2560.3

FLUID SAMPLER DATA

KCC

NOV 2

CONFIDENTIAL

ORIGINAL

Ticket No.: 6074 Date: 8/30/93

Company: MURFIN DRILLING CO INC

Lease: LOUDERBACK #1-11 Test No.: 3

County: SEWARD Sec.: 11 Twp.: 35S Rng.: 31W

SAMPLER RECOVERY

Gas

Oil

Mud 4000

Water

Other

Pressure 10

TOTAL 4000

PIT MUD ANALYSIS

Chlorides 4000

Resistivity ohms@ F

Viscosity 44

Mud Wt. 9.3

Filtrate 12

Other

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SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIPE RECOVERY FROM CONFIDENTIAL

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

NOV 2

Drill-Stem Test Data

CONFIDENTIAL
API# 15-175-21331

Well Name LOUDERBACK #1-11 Test No. 4 Date 9/2/93
Company MURFIN DRILLING CO INC Zone CHESTER
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2681
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN RIG #21 Est. Ft. of Pay _____
Location: Sec. 11 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested 5987-6034 Drill Pipe Size 4.5" XH
Anchor Length 47 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5982 Drill Collar - 2.25 Ft. Run 434
Bottom Packer Depth 5987 Mud Wt. 9.2 lb/Gal.
Total Depth 6034 Viscosity 57 Filtrate 8.8

Tool Open @ 3:20 PM Initial Blow STRONG BLOW-BOTTOM OF BUCKET IN 1.5 MINUTES
ISI: BLD OFF BLOW - NO BLOW BACK
Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 15 SECONDS
FSI: NO BLOW BACK

Recovery - Total Feet 30 Flush Tool? NO

RELEASED

Rec. 3238 Feet of GAS IN PIPE
Rec. 30 Feet of SLTLY GAS CUT MUD-2% GAS/ 98% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

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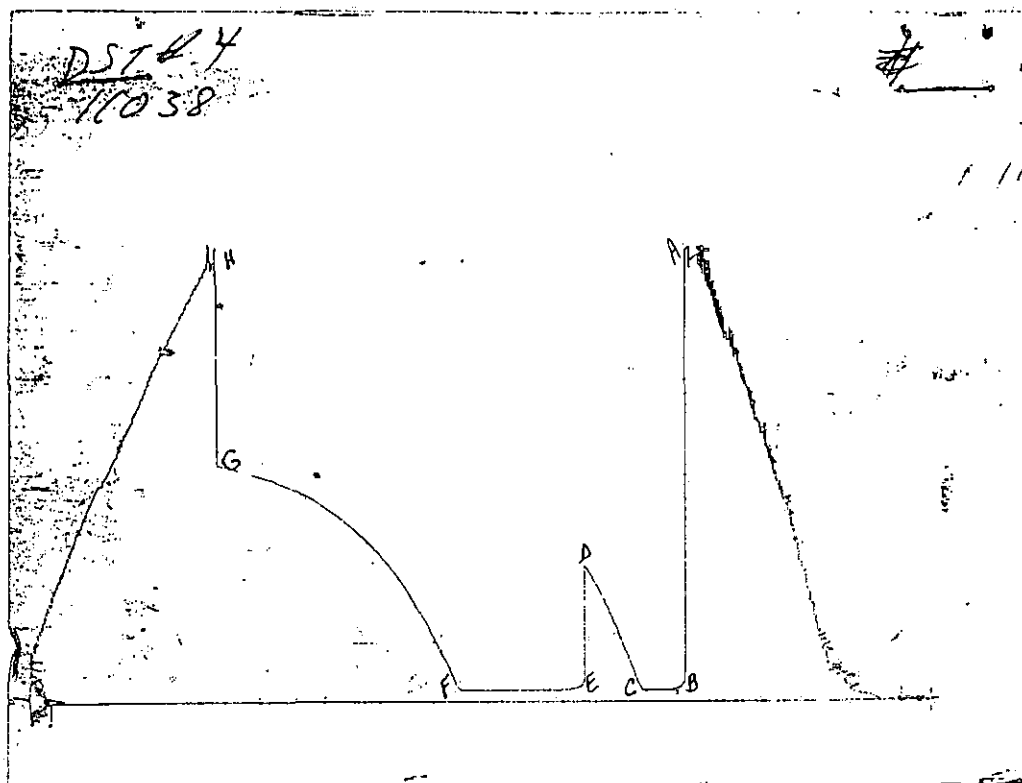
FROM CONFIDENTIAL

BHT 126 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2996.3 PSI AK1 Recorder No. 5495 Range 4200
(B) First Initial Flow Pressure 98.3 PSI @ (depth) 5991 w / Clock No. 25813
(C) First Final Flow Pressure 62.0 PSI AK1 Recorder No. 11038 Range 5075
(D) Initial Shut-in Pressure 913.7 PSI @ (depth) 6031 w / Clock No. 25814
(E) Second Initial Flow Pressure 103.0 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 76.9 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1643.0 PSI Initial Opening 30 Final Flow 90
(H) Final Hydrostatic Mud 2947.8 PSI Initial Shut-in 45 Final Shut-in 180

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2992	2996.3
(B) FIRST INITIAL FLOW PRESSURE	82	98.3
(C) FIRST FINAL FLOW PRESSURE	82	62
(D) INITIAL CLOSED-IN PRESSURE	932	913.7
(E) SECOND INITIAL FLOW PRESSURE	95	103
(F) SECOND FINAL FLOW PRESSURE	82	76.9
(G) FINAL CLOSED-IN PRESSURE	1587	1643
(H) FINAL HYDROSTATIC MUD	2941	2947.8

FLUID SAMPLER DATA

ORIGINAL KCC

NOV 2

CONFIDENTIAL

Ticket No.: 6075

Date: 9/2/93

Company: MURFIN DRILLING CO INC

Lease: LOUDERBACK #1-11

Test No.: 4

County: SEWARD

Sec.: 11

Twp.: 35S

Rng.: 31W

SAMPLER RECOVERY

Gas 28.4 CU F

Oil

Mud 800

Water

Other

Pressure 1250

TOTAL 800

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 3500

Resistivity ohms@ F

Viscosity 57

Mud Wt. 9.2

Filtrate 8.8

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides

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STATE CORPORATION COMMISSION
F

NOV 0 3 1993

ppm
CONSERVATION DIVISION
Wichita, Kansas

LOUDERBACK #1-11 DST #4
INITIAL SHUTIN

30 INITIAL FLOW TIME SLOPE 3703.7 PSI/CYCLE
P* 1749.91 PSI

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
7.2	150.6	0.713	150.6	5
13.5	330.3	0.508	179.7	3
19.3	460.2	0.407	129.9	3
25.6	595.8	0.337	135.6	2
32.9	726.3	0.281	130.5	2
X 37.6	813.9	0.255	87.6	2
X 44	913.7	0.226	99.8	2

LOUDERBACK #1-11 DST #4
FINAL SHUTIN

120 TOTAL FLOW TIME SLOPE 627.9 PSI/CYCLE
P* 1781.1 PSI

Log <>

Pws (psi)	Horn T	PRESSURE	Horn T
7.9	1.209	168.6	16
13	1.010	126.1	10
19.3	0.858	121.7	7
25.8	0.752	108.1	6
31.7	0.680	89.2	5
37.9	0.620	95.1	4
44.4	0.569	105.7	4
49.8	0.533	69.6	3
56.6	0.494	76.4	3
62	0.468	64.8	3
69	0.438	72.1	3
75.2	0.414	62.9	3
81.5	0.393	48.4	2
88.1	0.373	48.1	2
94.3	0.357	45.4	2
100	0.342	39.1	2
106.6	0.328	36.0	2
113.4	0.313	40.7	2
118.5	0.304	33.5	2
126.4	0.290	23.7	2
131.6	0.281	29.0	2
137.9	0.272	20.0	2
144.7	0.262	23.1	2
150.9	0.254	20.0	2
157.4	0.246	22.8	2
162.5	0.240	23.1	2
168.4	0.234	16.5	2
X 174.7	0.227	9.0	2
X 182.5	0.219	4.3	2

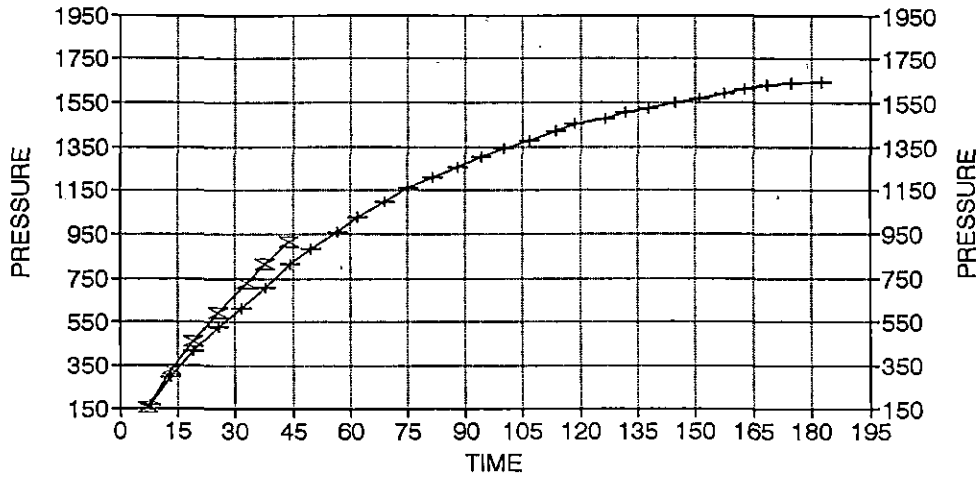
ORIGINAL

KCC

NOV 2

CONFIDENTIAL

LOUDERBACK #1-11 / DST #4 DELTA T DELTA P



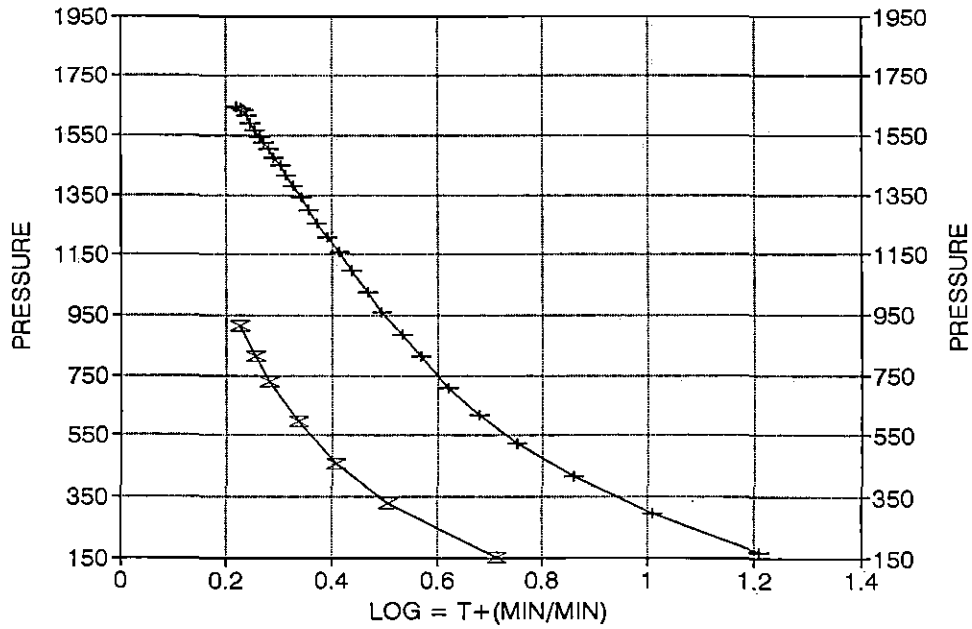
—x— INITIAL —+— FINAL

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HORNER PLOT

FROM CONFIDENTIAL



ORIGINAL

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CONFIDENTIAL

Drill-Stem Test Data

API #15-175-21331

Well Name LOUDERBACK #1-11 Test No. 5 Date 9/3/93
 Company MURFIN DRILLING CO INC Zone CHESTER
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2681
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN RIG #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested	<u>6034-6112</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>78</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>6029</u>	Drill Collar - 2.25 Ft. Run	<u>406</u>
Bottom Packer Depth	<u>6034</u>	Mud Wt.	<u>9</u> lb/Gal.
Total Depth	<u>6112</u>	Viscosity	<u>50</u> Filtrate <u>10.4</u>

Tool Open @ 8:55 PM Initial Blow 1/4" BLOW - DIED IN 8 MINUTES

Final Blow 1/4" BLOW - DIED IN 14 MINUTES

Recovery - Total Feet 20 Flush Tool? NO

RELEASED

Rec. 20 Feet of DRILLING MUD

DEC 22 1994

Rec. _____ Feet of _____

Rec. _____ Feet of _____

FROM CONFIDENTIAL

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3800 ppm System

(A) Initial Hydrostatic Mud 3022.6 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 83.8 PSI @ (depth) 6037 w / Clock No. 25813

(C) First Final Flow Pressure 83.8 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 94.4 PSI @ (depth) 6109 w / Clock No. 25814

(E) Second Initial Flow Pressure 68.1 PSI AK1 Recorder No. _____ Range _____

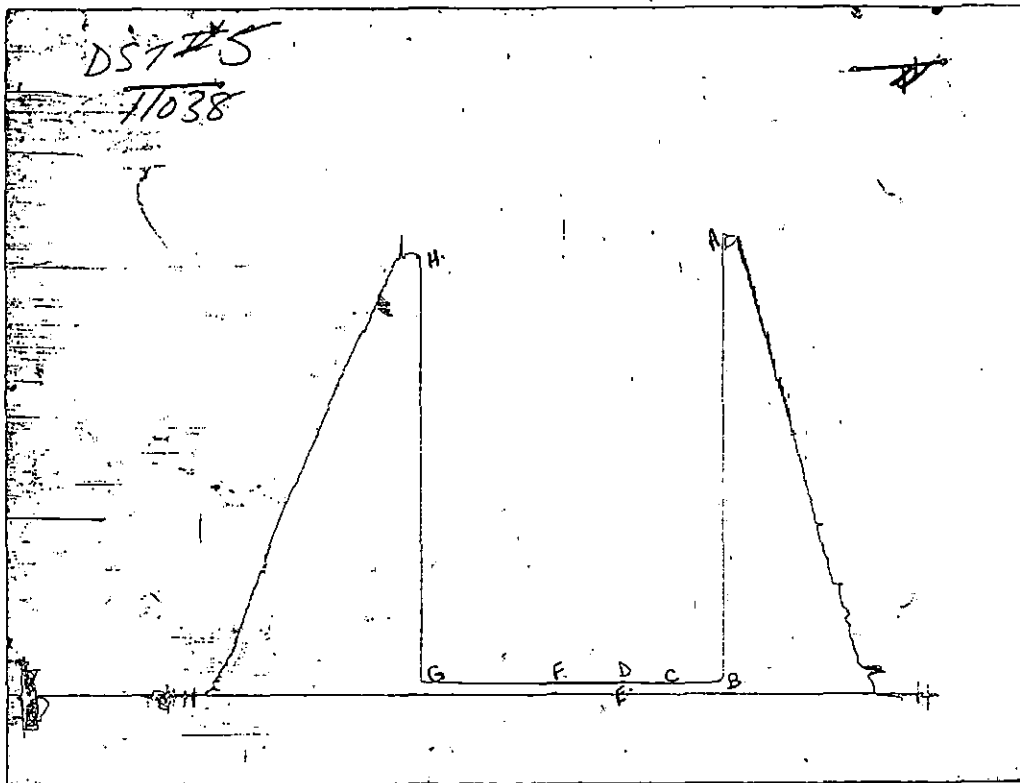
(F) Second Final Flow Pressure 83.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 94.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2947.8 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	3018	3022.6
(B) FIRST INITIAL FLOW PRESSURE	82	83.8
(C) FIRST FINAL FLOW PRESSURE	82	83.8
(D) INITIAL CLOSED-IN PRESSURE	95	94.4
(E) SECOND INITIAL FLOW PRESSURE	68	68.1
(F) SECOND FINAL FLOW PRESSURE	82	83.8
(G) FINAL CLOSED-IN PRESSURE	95	94.4
(H) FINAL HYDROSTATIC MUD	2941	2947.8

FLUID SAMPLER DATA

ORIGINAL

NOV 2
CONFIDENTIAL

Ticket No.: 6076 Date: 9/3/93
 Company: MURFIN DRILLING CO INC
 Lease: LOUDERBACK #1-11 Test No.: 5
 County: SEWARD Sec.: 11 Twp.: 35S Rng.: 31W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure 30
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3800
 Resistivity 1.4 ohms@ 78 F
 Viscosity 50
 Mud Wt. 9
 Filtrate 10.4
 Other

RELEASED

DEC 22 1994

FROM CONFIDENTIAL

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

ORIGINAL KCC

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

NOV 2

Drill-Stem Test Data

API #15-175-21331

CONFIDENTIAL

Well Name LOUDERBACK #1-11 Test No. 6 Date 9/4/93
 Company MURFIN DRILLING CO INC Zone CHESTER
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2681
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN RIG #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 35S Rge. 31W Co. SEWARD State KS

Interval Tested	<u>6205-6250</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>45</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>6200</u>	Drill Collar - 2.25 Ft. Run	<u>434</u>
Bottom Packer Depth	<u>6205</u>	Mud Wt.	<u>9.1</u> lb/Gal.
Total Depth	<u>6250</u>	Viscosity	<u>54</u> Filtrate <u>9.6</u>

Tool Open @ 1:00 AM Initial Blow 1" BLOW - BOTTOM OF BUCKET IN 28 MINUTES
 ISI: bled off blow - NO BLOW BACK
 Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 1 MINUTE
 FSI: bled off blow - WEAK BLOW - BUILT TO 1.5"

CONFIDENTIAL

Recovery - Total Feet 70 Flush Tool? NO

RELEASED

Rec. <u>1083</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>70</u>	Feet of	<u>GASSY SLIGHTLY OIL CUT MUD-64% GAS/ 4% OIL/ 23% 1994</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

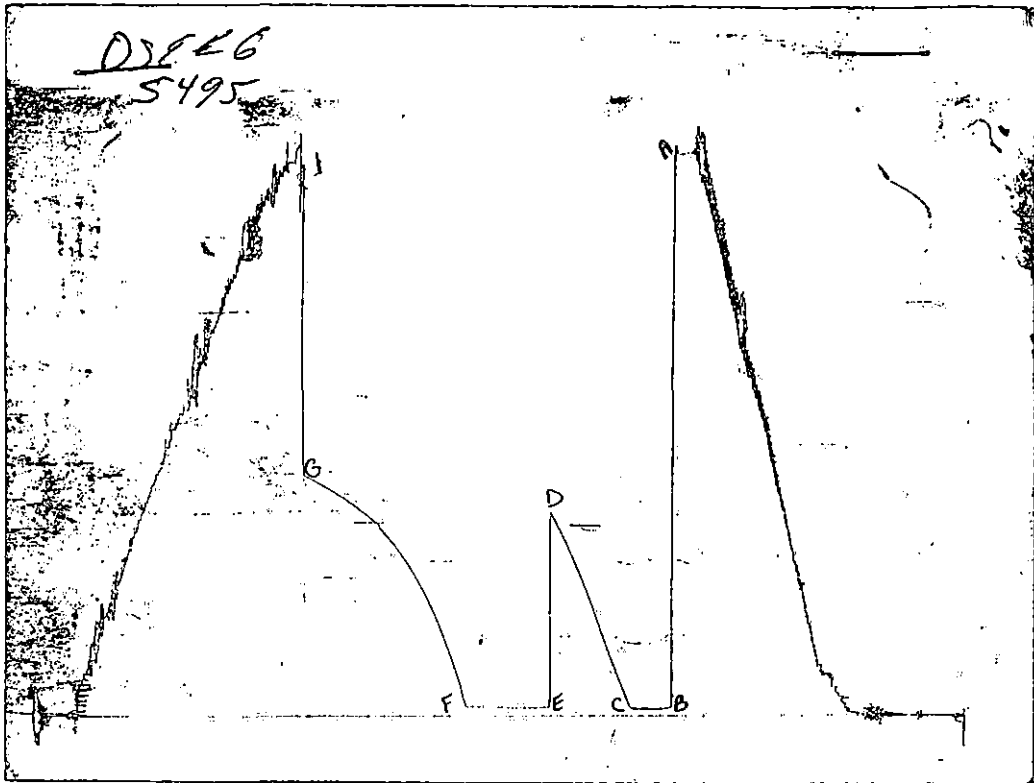
FROM CONFIDENTIAL

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 3135.9 PSI AK1 Recorder No. 5495 Range 4200
 (B) First Initial Flow Pressure 75.4 PSI @ (depth) 6208 w / Clock No. 25813
 (C) First Final Flow Pressure 75.4 PSI AK1 Recorder No. 11038 Range 5075
 (D) Initial Shut-in Pressure 1110.4 PSI @ (depth) 6247 w / Clock No. 25814
 (E) Second Initial Flow Pressure 68.6 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 68.6 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 1352.0 PSI Initial Opening 30 Final Flow 60
 (H) Final Hydrostatic Mud 3088.6 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	3107	3135.9
(B) FIRST INITIAL FLOW PRESSURE	68	75.4
(C) FIRST FINAL FLOW PRESSURE	68	75.4
(D) INITIAL CLOSED-IN PRESSURE	1058	1110.4
(E) SECOND INITIAL FLOW PRESSURE	82	68.6
(F) SECOND FINAL FLOW PRESSURE	82	68.6
(G) FINAL CLOSED-IN PRESSURE	1360	1352
(H) FINAL HYDROSTATIC MUD	3082	3088.6

FLUID SAMPLER DATA

ORIGINAL

KCC

NOV 2

CONFIDENTIAL

Ticket No.: 6077 Date: 9/4/93
 Company: MURFIN DRILLING CO INC
 Lease: LOUDERBACK #1-11 Test No.: 6
 County: SEWARD Sec.: 11 Twp.: 35S Rng.: 31W

SAMPLER RECOVERY

Gas 30
 Oil TRACE
 Mud 600
 Water
 Other
 Pressure 1150
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3000
 Resistivity ohms@ F
 Viscosity 54
 Mud Wt. 9.1
 Filtrate 9.6
 Other

CONFIDENTIAL

RELEASED

DEC 2 2 1994

FROM CONFIDENTIAL

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

LOUDERBACK #1-11 DST #6

INITIAL SHUTIN

30 INITIAL FLOW TIME SLOPE 2556.5 PSI/CYCLE
P* 1526.41 PSI

		Log <>		
TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	84.9	1.041	84.9	11
6	116.0	0.778	31.1	6
9	153.8	0.637	37.8	4
12	219.7	0.544	65.9	4
15	281.1	0.477	61.4	3
18	344.8	0.426	63.7	3
21	395.0	0.385	50.2	2
24	458.1	0.352	63.1	2
27	511.7	0.325	53.6	2
30	570.3	0.301	58.6	2
33	614.4	0.281	44.1	2
36	676.4	0.263	62.0	2
39	740.7	0.248	64.3	2
42	782.9	0.234	42.2	2
45	837.9	0.222	55.0	2
48	887.6	0.211	49.7	2
51	933.3	0.201	45.7	2
54	976.4	0.192	43.1	2
57	1015.7	0.184	39.3	2
60	1058.6	0.176	42.9	2
X 63	1094.0	0.169	35.4	1
X 66	1110.4	0.163	16.4	1

LOUDERBACK #1-11 DST #6

FINAL SHUTIN

90 TOTAL FLOW TIME SLOPE 2523.8 PSI/CYCLE
P* 1942.8 PSI

		Log <>		
	Pws (psi)	Horn T	PRESSURE	Horn T
6	166.0	1.204	166.0	16
12	311.7	0.929	145.7	9
18	443.7	0.778	132.0	6
24	537.8	0.677	94.1	5
30	631.2	0.602	93.4	4
36	726.6	0.544	95.4	4
42	797.0	0.497	70.4	3
48	867.2	0.459	70.2	3
54	934.6	0.426	67.4	3
60	996.7	0.398	62.1	3
66	1043.4	0.374	46.7	2
72	1091.5	0.352	48.1	2
78	1133.1	0.333	41.6	2
84	1165.8	0.316	32.7	2
90	1187.2	0.301	21.4	2
96	1226.3	0.287	39.1	2
102	1257.7	0.275	31.4	2
108	1282.9	0.263	25.2	2
114	1306.7	0.253	23.8	2
X 120	1329.4	0.243	22.7	2
X 126	1352.0	0.234	22.6	2

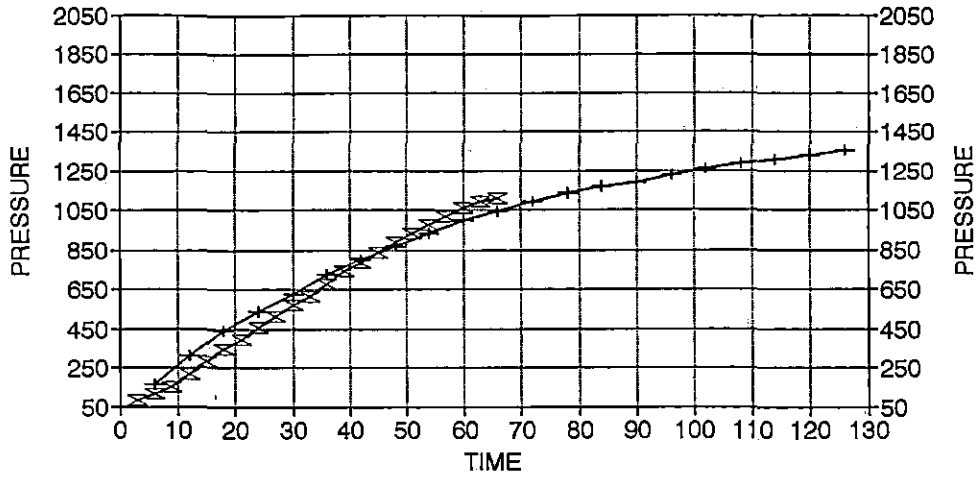
ORIGINAL

KCC

NOV 2

CONFIDENTIAL

LOUDERBACK #1-11 / DST #6 DELTA T DELTA P

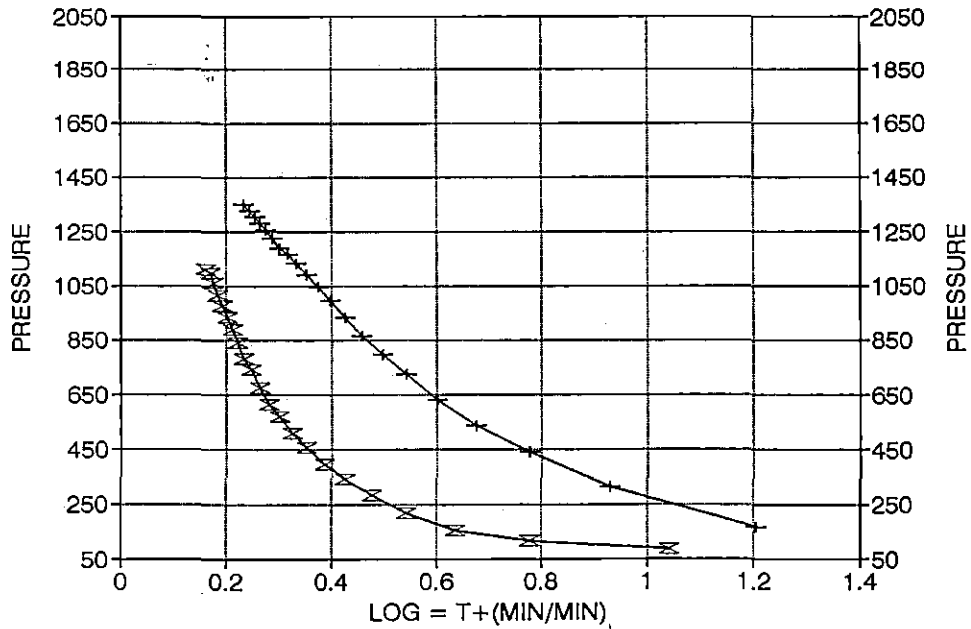


—x— INITIAL —+— FINAL

RELEASED CONFIDENTIAL

DEC 2 2 1994

HORNER PLOT FROM CONFIDENTIAL



Russell, Kansas
93-5861, Great Bend, Kansas

KCC

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

CONFIDENTIAL NOV 2

ALLIED CEMENTING CO., INC. ORIGINAL 2844

Home Office P. O. Box 31

Russell, Kansas 67665

NEW

Date	8/22/92	Sec.	11	fwp.	355	Range	3 1/4	Called Out	8:00 PM	On Location	12:30 AM	Job Start	3:15 AM	Finish	6:30 AM
Lease	Loudeback	Well No.	1-11	Location	Booster Sta. Rd 4s 4E 1s Ek	County	Seward	State	Ks						

Contractor	Murfin Drilling #21		
Type Job	CMT 8 3/8 Surface Csg		
Hole Size	12 1/4	T.D.	1450
Csg.	8 3/8 24 #	Depth	1446
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	45'	Shoe Joint	45'
Press Max.	650	Minimum	50
Meas Line		Displace	89.24
Perf.			

Owner Same
To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Murfin Drilling Company
Street 250 N. Water, Suite 300
City Wichita State Ks 67202
The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
X Doug Hafenstein

CEMENT

Amount 500 5/8 Allied Lite + 3% Cacl² 1/4 # Flo-Seal
Ordered 250 5/8 class A + 3% Cacl²

Consisting of			
Common	250	6.95	1712.5
Pos-Mix	500 ltr	4.75	2375.0
Get			
Chloride	23	25.00	575.0
Quickset			
Flo Seal	125 #	1.10	137.5
Sales-Tax			

Handling 750 1.00 750.0
Milage 48 1440.0

Total \$ 8844.69
1768.94
7075.75
Sub-Total \$
Total \$ 6990.00

Floating Equipment	
1-8 3/4 Texas Pattern Shoe	- 240.00
1-8 3/4 AFU Insert	- 258.00
3-8 3/4 Centralizers	- 183.00
1-8 3/4 Cement Basket	- 180.00
1 TH read Loc	- N/C

RELEASED EQUIPMENT

DEC 22 1994

Pumptrk	No. 265	Cementier	Max Ball
		Helper	Carl Bolding
Pumptrk	No. 256	Helper	
Bulktrk	238	Driver	Mark Brungerdt
Bulktrk	238	Driver	John Kelly

DEPTH of Job	1446'
Reference:	
ANY 15 Pump charge	430.00
Milage	33.75
1 Eq 8 3/8 Top Rubber Plug	83.00
1146' at .39	446.94
Total	993.69

Remarks: CMT 8 3/8 Surface Csg with 500sk's Allied Lite #390 Cacl² 1/4 # Flo-Seal + 150sk's Class A + 3% Cacl² Drop Plug Displace 89.24 BBL Land Plug Float Held CMT Did NOT Circulate
TOPPED WITH 100sk CLASS A + 3% Cacl²

627, Russell, Kansas
793-5861, Great Bend, Kansas

KCC Phone Plainville 913-434-2812
NOV 2 CONFIDENTIAL Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

5159 ORIGINAL

new

9-7-93

9-8-93

Date	9-8-93	Sec.	11	Fwp.	35 ^s	Range	31 ^v	Called Out	7:15 ^{PM}	On Location	1:20 ^{AM}	Job Start	10:15 ^{AM}	Finish	12:30 ^{AM}
Lease	Louder back	Well No.	1-11	Location	Liberal; 13E-15-3/4E	County	Seward	State	Kan						
Contractor	MurFin Drly Co #21					Owner	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	Production string					Charge To	MurFin Drly Co, Inc								
Hole Size	7 7/8	T.D.	65 1/2'			Street	250 N Water Suite 300								
Csg.	4 1/2	Depth	65 12'			City	Wichita	State	Kan 67202						
Tbg. Size		Depth				The above was done to satisfaction and supervision of owner agent or contractor. RELEASED									
Drill Pipe		Depth				Purchase Order No.	X Kevin Bylson DEC 22 1994								
Tool		Depth				500 gal mud sweep CEMENT FROM CONFIDENTIAL									
Cement Left in Csg.	45.59'	Shoe Joint	45.59'			Amount Ordered	275 sks 50% super, 10% salt, 6# per sk								
Press Max.		Minimum				Consisting of	3/4 of 1% FI-28 Gilsonite								
Meas Line		Displace	✓			Common	138	sk	2	6.85	945.30				
Perf.			106 BBL			Poz. Mix	137	sk	2	3.00	411.00				

EQUIPMENT

OKley	No.	Cementer	4 alt
Pumptrk	300	Helper	Terry
Pumptrk	No.	Cementer	
Pumptrk		Helper	
Bulktrk	315	Driver	Sonny
Bulktrk		Driver	

DEPTH of Job		
Reference:	Pumptruck	1,417.00
	4 1/2 Rubber Plus	33.00
	2.25 per mile	108.00
	Sub Total	
	Tax	
	Total	1,558.00

Remarks: Ran Centralizers on Jts, 1-3-5-7
-9-11-13-15
Ran 56 Jts circ 15 min
Ran 100 Jts circ 30 min
Ran to T.D. circ 45 min, mixed mud sweep, then cemented well

Handling	1.00 per sk	275.00
Mileage	4¢ per sk/mile	528.00
	48 miles	
	Sub Total	803.00
	Total	5,304.00
Floating Equipment	4 1/2	
	1- Guide shoe -	109.00
	1- AFU insert -	169.00
	8- Centralizers -	424.00
	16- 5' Rotating Scrubbers -	608.00
	Total =	1,310.00

Float Head
RECEIVED STATE CORPORATION COMMISSION
NOV 03 1993
CONSERVATION DIVISION
Wichita Kansas