

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

Drill-Stem Test Data

ORIGINAL

Well Name FEIERTAG #1-7 Test No. 1 Date 6/1/94
Company MURFIN DRILLING CO INC/CANYON ENERGY I Zone _____
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested 2649-2691
Anchor Length 42
Top Packer Depth 2644
Bottom Packer Depth 2649
Total Depth 2691

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 525
Mud Wt. 8.8 lb/Gal.
Viscosity 44 Filtrate 12.8

Tool Open @ 6:25 AM Initial Blow 1/2" BLOW - BUILT TO 6.5"
ISI: NO BLOW BACK

Final Blow 1/2" BLOW - BUILT TO 4"
FSI: NO BLOW BACK

Recovery - Total Feet 30

Flush Tool? NO

Rec. 30 Feet of DRILLING MUD RELEASED
Rec. _____ Feet of _____
Rec. _____ Feet of JUL 26 1995
Rec. _____ Feet of _____
Rec. _____ Feet of FROM CONFIDENTIAL CONFIDENTIAL

BHT 91 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 1260.3 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 25.1 PSI @ (depth) 2652 w / Clock No. 25813

(C) First Final Flow Pressure 25.1 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 217.1 PSI @ (depth) 2688 w / Clock No. 25814

(E) Second Initial Flow Pressure 44.6 PSI AK1 Recorder No. _____ Range _____

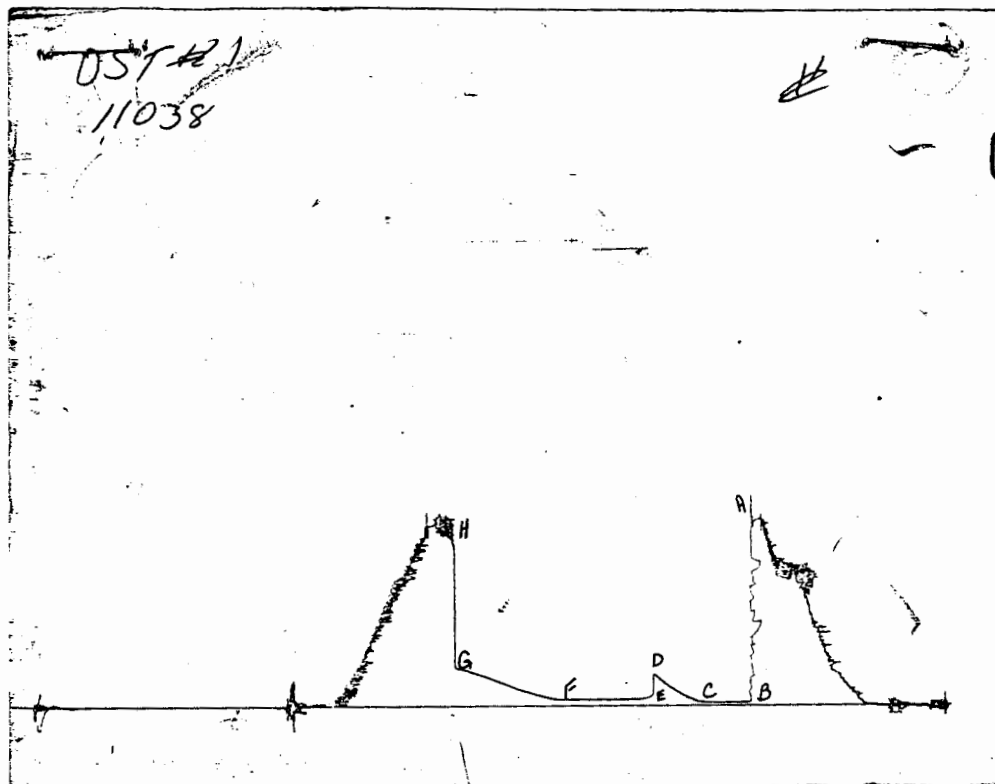
(F) Second Final Flow Pressure 44.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 266.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1242.7 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



ORIGINAL

This is an actual photograph of recorder chart #11038

RELEASED

JUL 26 1995

FIELD
READING

OFFICE
READING

FROM CONFIDENTIAL

(A) INITIAL HYDROSTATIC MUD	1260	1260.3
(B) FIRST INITIAL FLOW PRESSURE	27	25.1
(C) FIRST FINAL FLOW PRESSURE	27	25.1
(D) INITIAL CLOSED-IN PRESSURE	217	217.1
(E) SECOND INITIAL FLOW PRESSURE	41	44.6
(F) SECOND FINAL FLOW PRESSURE	41	44.6
(G) FINAL CLOSED-IN PRESSURE	257	266.4
(H) FINAL HYDROSTATIC MUD	1222	1242.7

RCC

JUN 23

CONFIDENTIAL

RECEIVED

JUN 24 1994

CONSERVATION DIVISION
Topeka, Kansas

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 7012 Date: 6/1/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY INC
 Lease: FEIERTAG #1-7 Test No.: 1
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure 40
 TOTAL 4000

SAMPLER ANALYSIS

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

PIT MUD ANALYSIS

Chlorides 4500
 Resistivity ohms@ F
 Viscosity 44
 Mud Wt. 8.8
 Filtrate 12.8
 Other

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

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 JUN 2 3
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ORIGINAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7012 Date 6-1-94
Company Name MDC Canyon Energy, Inc.
Lease Feiertag #1-7 Test No. #1
County Meade KS. Sec. 7 Twp. 33 Rng. 30

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure 40 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides _____ ppm.
Resistivity _____ ohms @ _____ F
Viscosity 44
Mud Weight 8.8
Filtrate 12.8 ncc
Other JUN 2 3
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SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

RECEIVED
STATE GEOLOGICAL COMMISSION
JUN 24 1994
CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL

ORIGINAL

Well Name FEIERTAG #1-7 Test No. 2 Date 6/1/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone WINFIELD
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested 2740-2750
Anchor Length 10
Top Packer Depth 2735
Bottom Packer Depth 2740
Total Depth 2750

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 557
Mud Wt. 8.8 lb/Gal.
Viscosity 45 Filtrate 13.6

Tool Open @ 10:03 PM Initial Blow VERY WEAK SURFACE BLOW THROUGHOUT

Final Blow VERY WEAK SURFACE BLOW THROUGHOUT

Recovery - Total Feet 65 Flush Tool? NO

Rec. 65 Feet of MUDDY WATER RELEASED
Rec. _____ Feet of _____ NO
Rec. _____ Feet of JUL 2 6 1995 JUN 2 3
Rec. _____ Feet of _____ FROM CONFIDENTIAL CONFIDENTIAL

BHT 94 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.37 @ 71.4 °F Chlorides 19000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1341.1 PSI AK1 Recorder No. 22150 Range 3050

(B) First Initial Flow Pressure 37.1 PSI @ (depth) 2742 w / Clock No. 25109

(C) First Final Flow Pressure 31.8 PSI AK1 Recorder No. 24174 Range 3925

(D) Initial Shut-in Pressure 534.3 PSI @ (depth) 2747 w / Clock No. 23839

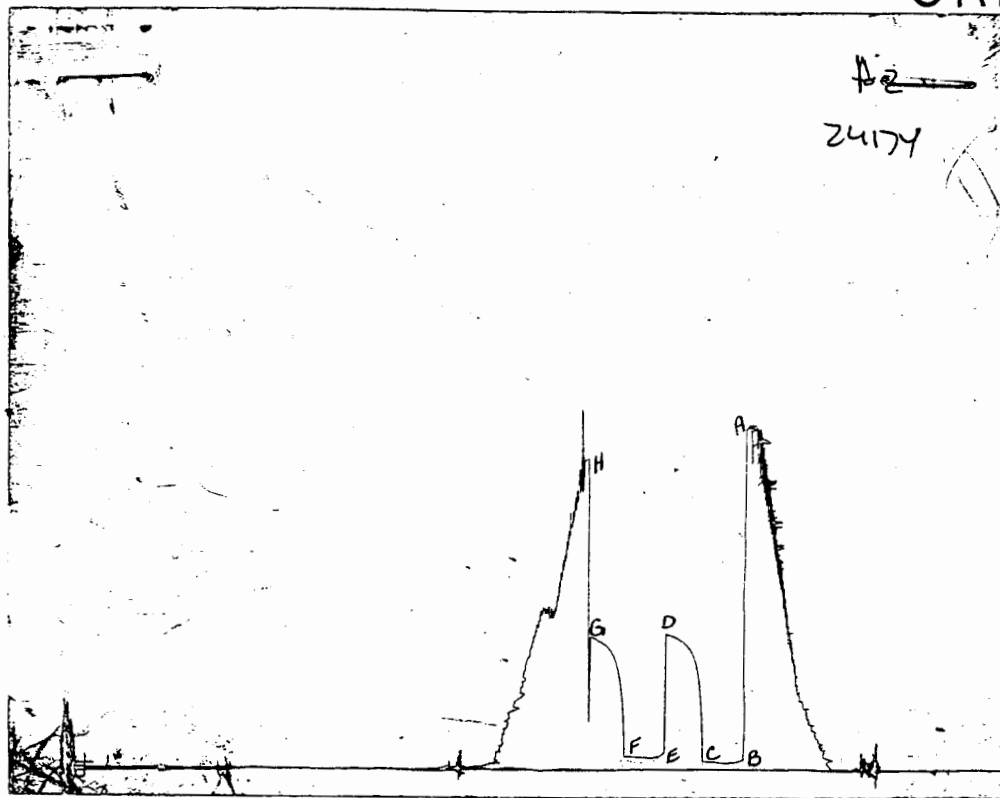
(E) Second Initial Flow Pressure 66.7 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 50.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 522.1 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1226.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON



This is an actual photograph of recorder chart #24174

KCC

JUN 23

OFFICE CONFIDENTIAL
READING

FIELD
READING

(A) INITIAL HYDROSTATIC MUD	1349	1341.1
(B) FIRST INITIAL FLOW PRESSURE	23	37.1
(C) FIRST FINAL FLOW PRESSURE	30	31.8
(D) INITIAL CLOSED-IN PRESSURE	530	534.3
(E) SECOND INITIAL FLOW PRESSURE	37	66.7
(F) SECOND FINAL FLOW PRESSURE	37	50.3
(G) FINAL CLOSED-IN PRESSURE	522	522.1
(H) FINAL HYDROSTATIC MUD	1228	1226.4

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6599 Date: 6/1/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: FEIERTAG #1-7 Test No.: 2
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas
 Oil
 Mud 1800
 Water 2200
 Other
 Pressure 60
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 4000
 Resistivity ohms@ F
 Viscosity 45
 Mud Wt. 8.8
 Filtrate 13.6
 Other

KCC

JUN 2 3

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SAMPLER ANALYSIS

Resistivity 0.19 ohms@ 70 F
 Chlorides 38000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.37 ohms@ 71.4 F
 Chlorides 19000 ppm

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 6599 Date 6-1-94
Company Name Murphy Drilling / Canyon Energy
Lease Feierberg Test No. 2
County Meade Sec. 7 Twp. 33s Rng. 30w

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 1800 ML
Water 2200 ML
Other _____ ML
Pressure 60 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 4000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 45
Mud Weight 8.8
Filtrate 13.6
Other not

JUN 23

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SAMPLER ANALYSIS

Resistivity .19 ohms @ 70 F
Chlorides 38,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .37 ohms @ 71.4 F
Chlorides 19,000 ppm.

Test Ticket

ORIGINAL
CONFIDENTIAL No 6599

Well Name & No. 1-7 Feiertag Test No. 2 Date 6-1-94
 Company Murphy Drilling Co, Inc / Canyon Energy Zone Tested Winkfield
 Address 250 N Water #100 Wichita KS 67202 Elevation 2754
 Co. Rep./Geo. Paul Grodowicz Cont. Murphy #21 Est. Ft. of Pay _____
 Location: Sec. 7 Twp. 33s Rge. 30w Co Meade State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2740-2750 Drill Pipe Size 4 1/2 XH
 Anchor Length 10 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 2735 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 2740 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2750 Drill Collar — 2.25 Ft. Run 557
 Mud Wt. 8.8 lb/gal. Viscosity 45 Filtrate 13.6
 Tool Open @ 10:03 PM Initial Blow 1/2 weak surface blow throughout nil

Final Blow 1/2 weak surface blow throughout JUN 23
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Recovery — Total Feet 65 Feet of Gas In Pipe _____ Flush Tool? _____
 Rec. 65 Feet Of MW %gas %oil 70 %water 30 %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 94 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 37 @ 71.4 °F Chlorides 15,000 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud 1349 PSI Ak1 Recorder No. 22150 Range 3050
 (B) First Initial Flow Pressure 23 PSI @ (depth) 274.2 w/Clock No. 25109
 (C) First Final Flow Pressure 30 PSI AK1 Recorder No. 24174 Range 3925
 (D) Initial Shut-In Pressure 530 PSI @ (depth) 274.2 w/Clock No. 23839
 (E) Second Initial Flow Pressure 37 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 37 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 522 PSI Initial Opening 30 Test 600.00
 (H) Final Hydrostatic Mud 1228 PSI Initial Shut-In 30 Jars X 200.00

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

Final Flow 30 Safety Joint X 50.00
 Final Shut-In 30

Approved By Paul Grodowicz
 Our Representative Paul Simpson

Straddle _____
 Circ. Sub _____
 Sampler X 200.00
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 1050.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL
ORIGINAL

Weil Name FEIERTAG #1-7 Test No. 3 Date 6/3/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone COUNCIL GROV
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested	<u>3230-3257</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>27</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3225</u>	Drill Collar - 2.25 Ft. Run	<u>556</u>
Bottom Packer Depth	<u>3230</u>	Mud Wt.	<u>8.8</u> lb/Gal.
Total Depth	<u>3257</u>	Viscosity	<u>52</u>
		Filtrate	<u>14.8</u>

Tool Open @ 3:30AM Initial Blow FAIR BLOW BUILT TO BOTTOM IN 20 MINUTES
ISI: BLEED OFF BLOW FOR 10 MINUTES - NO BLOW BACK
Final Blow VERY WEAK BLOW BUILT TO BOTTOM IN 28 MINUTES
FSI: BLEED OFF BLOW NO BLOW BACK

Recovery - Total Feet 660 Flush Tool? NO

Rec. <u>60</u>	Feet of	<u>MUDDY WATER 60%WATER/40%MUD</u>
Rec. <u>600</u>	Feet of	<u>SALT WATER</u>
Rec. _____	Feet of	<u>RELEASED</u>
Rec. _____	Feet of	<u>JUL 2 6 1995</u>
Rec. _____	Feet of	<u>JUN 2 3</u>

FROM CONFIDENTIAL

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BHT 100 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.108 @ 64 °F Chlorides 170000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1551.8 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 79.1 PSI @ (depth) 3233 w / Clock No. 26191

(C) First Final Flow Pressure 143.3 PSI AK1 Recorder No. 10323 Range 4050

(D) Initial Shut-in Pressure 733.8 PSI @ (depth) 3254 w / Clock No. 14389

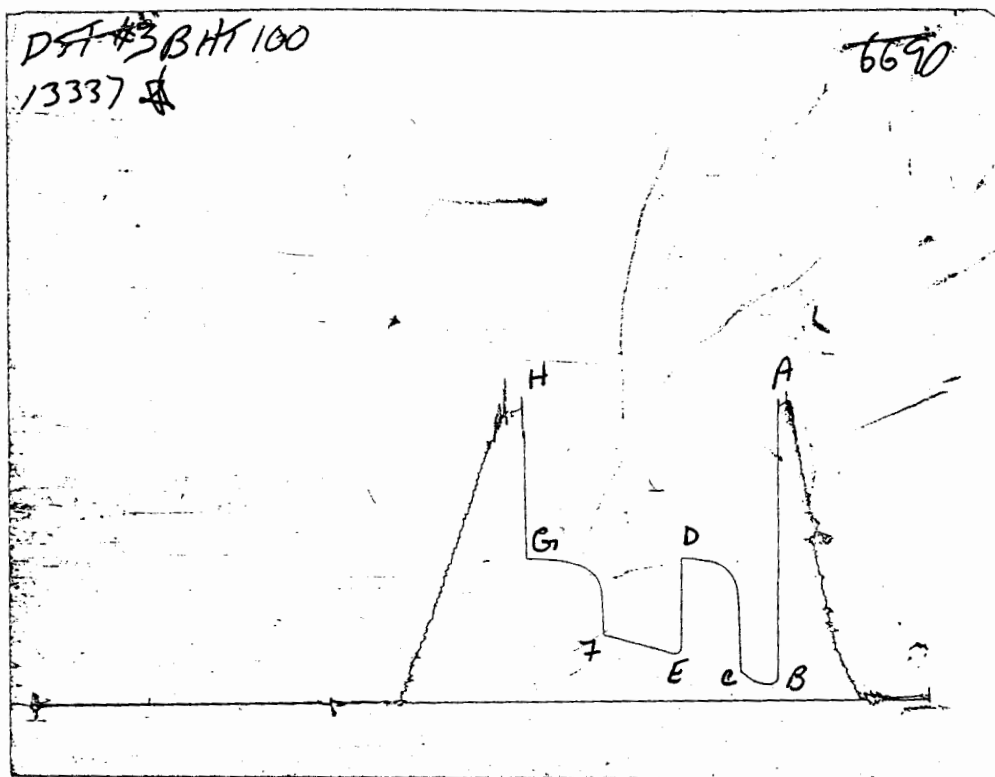
(E) Second Initial Flow Pressure 239.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 338.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 736.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1518.7 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROBERT COLLINS



ORIGINAL

This is an actual photograph of recorder chart

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JUN 23

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1533	1551.8
(B) FIRST INITIAL FLOW PRESSURE	69	79.1
(C) FIRST FINAL FLOW PRESSURE	148	143.3
(D) INITIAL CLOSED-IN PRESSURE	729	733.8
(E) SECOND INITIAL FLOW PRESSURE	237	239.1
(F) SECOND FINAL FLOW PRESSURE	345	338.9
(G) FINAL CLOSED-IN PRESSURE	729	736.7
(H) FINAL HYDROSTATIC MUD	1513	1518.7

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6690 Date: 6/3/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: FEIERTAG #1-7 Test No.: 3
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas
 Oil
 Mud
 Water 4000
 Other
 Pressure 300
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 6000
 Resistivity ohms@ F
 Viscosity 52
 Mud Wt. 8.8
 Filtrate 14.8
 Other

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SAMPLER ANALYSIS

Resistivity 0.108 ohms@ 64 F
 Chlorides 170000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity 0.138 ohms@ 63 F
 Chlorides 80000 ppm

MIDDLE

Resistivity 0.1 ohms@ 64 F
 Chlorides 150000 ppm

BOTTOM

Resistivity 0.108 ohms@ 64 F
 Chlorides 170000 ppm

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TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 6690 Date 6-3-94
Company Name Martin
Lease Feiertag #1-7 Test No. 3
County Meads KS Sec. 7 Twp. 33 Rng. 30

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure 300 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 6.000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 52
Mud Weight 8.8
Filtrate 14.8 hcl
Other _____
JUN 23
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SAMPLER ANALYSIS

Resistivity 108 ohms @ 64 F
Chlorides 170,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 138 ohms @ 63 F
Chlorides 86,000 ppm.

MIDDLE
Resistivity 100 ohms @ 64 F
Chlorides 150,000 ppm.

BOTTOM
Resistivity 108 ohms @ 64 F
Chlorides 170,000 ppm.

RELEASED

JUL 26 1995

FROM CONFIDENTIAL

ORIGINAL

No 6690

Test Ticket

Well Name & No. Feiertag #1-7 Test No. 3 Date 6-3-97
 Company Martin Drilling Company Energy Zone Tested Council Grove
 Address 250 N. Water Route 300 Wichita KS 67202 Elevation 2754 KB
 Co. Rep./Geo Paul Gadowik Cont. Martin Est. Ft. of Pay _____
 Location: Sec. 7 Twp. 33 Rge. 30 Co. Meade State KS
 No. of Copies _____ Distribution Sheet _____ Yes ☒ No Turnkey _____ Yes ☒ No _____ Evaluation _____

Interval Tested 3230-3257 Drill Pipe Size 4 1/2 in
 Anchor Length 27 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3225 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3230 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3257 Drill Collar — 2.25 Ft. Run 556 in
 Mud Wt. 8.8 lb/gal. Viscosity 52 Filtrate 14.8

Tool Open @ 3:30 AM Initial Blow Fair blow build bottom in 20 min
FSN bleed off blow for 10 min no blow back
 Final Blow Very weak blow build to bottom in 28 min
FSI bleed off blow no blow back
 JUN 2 3
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Recovery — Total Feet 660 Feet of Gas in Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>60</u>	<u>Muddy with</u>			<u>60</u>	<u>40</u>
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____
<u>600</u>	<u>salt water</u>	%gas _____	%oil _____	<u>100</u>	%mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____

BHT 100 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 108 @ 64 °F Chlorides 170,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 1533 PSI AK1 Recorder No. 15337 Range 3975
 (B) First Initial Flow Pressure 69 PSI @ (depth) 3233 w/Clock No. 26191
 (C) First Final Flow Pressure 148 PSI AK1 Recorder No. 10333 Range 4050
 (D) Initial Shut-in Pressure 729 PSI @ (depth) 3254 w/Clock No. 14389
 (E) Second Initial Flow Pressure 237 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 345 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 729 PSI Initial Opening 30 Test ☒ 600
 (H) Final Hydrostatic Mud 1513 PSI Initial Shut-in 45 Jars ☒ 200

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Approved By Paul F. Gadowik
 Our Representative R. Calks

Final Flow 60 Safety Joint ☒ 50
 Final Shut-in 60 Straddle _____
 Circ. Sub ☒ 200
 Sampler ☒ 200
 Extra Packer _____
 Other _____

TRILOBITE TESTING, L.L.C.

CONFIDENTIAL

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name FEIERTAG #1-7 Test No. 4 Date 6/7/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone SWOPE
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested	<u>4925-4995</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>70</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4920</u>	Drill Collar - 2.25 Ft. Run	<u>556</u>
Bottom Packer Depth	<u>4925</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>4995</u>	Viscosity	<u>50</u>
		Filtrate	<u>10</u>

Tool Open @ 10:25PM Initial Blow FAIR BLOW BOTTOM OF BUCKET IN 7 MINUTES

Final Blow WEAK BLOW BUILT TO BOTTOM OF BUCKET IN 25 MINUTES
NO BLOW BACK

Recovery - Total Feet 435 Flush Tool? NO

Rec. <u>135</u>	Feet of <u>DRILLING MUD</u>
Rec. <u>120</u>	Feet of <u>HEAVY GAS CUT EMULSION 60%GAS/40%EMULSION</u>
Rec. <u>180</u>	Feet of <u>SALT WATER</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

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BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.115 @ 66 °F Chlorides 95000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2464.4 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 64.2 PSI @ (depth) 4928 w / Clock No. 26191

(C) First Final Flow Pressure 96.8 PSI AK1 Recorder No. 10333 Range 4050

(D) Initial Shut-in Pressure 1292.4 PSI @ (depth) 4992 w / Clock No. 14389

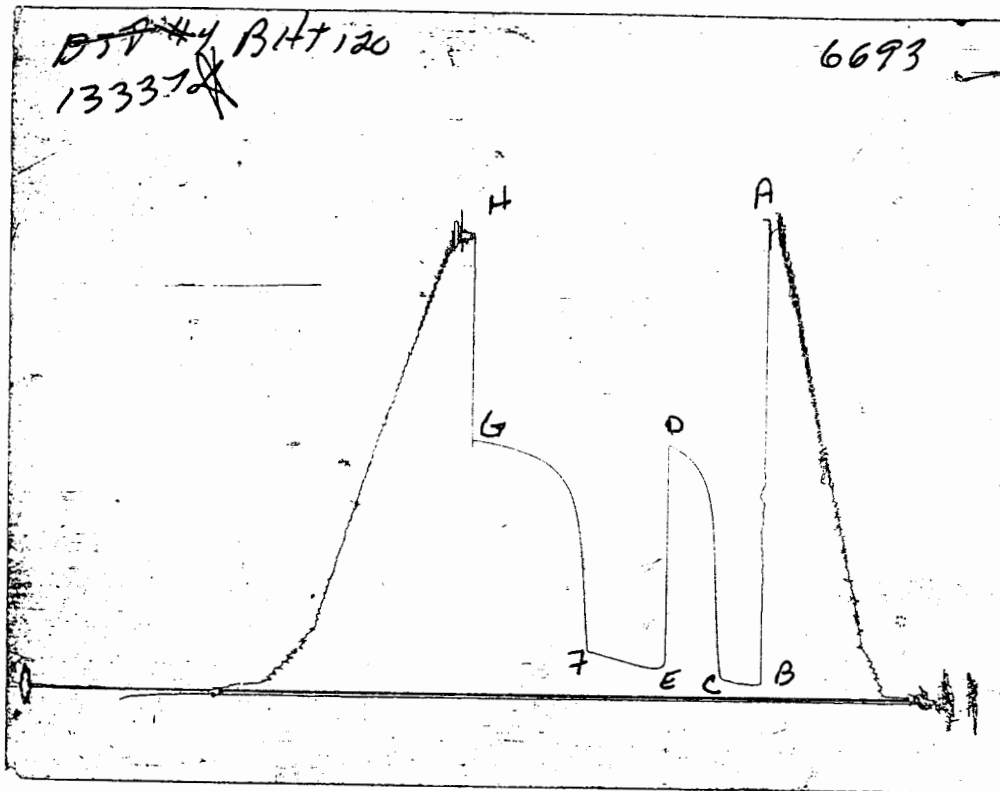
(E) Second Initial Flow Pressure 145.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 229.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1302.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2365.6 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative ROBERT COLLINS



This is an actual photograph of recorder chart

RELEASED

JUL 26 1995

FROM CONFIDENTIAL

FIELD
READING

OFFICE
READING

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JUN 23

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(A) INITIAL HYDROSTATIC MUD	2496	2464.4
(B) FIRST INITIAL FLOW PRESSURE	59	64.2
(C) FIRST FINAL FLOW PRESSURE	98	96.8
(D) INITIAL CLOSED-IN PRESSURE	1274	1292.4
(E) SECOND INITIAL FLOW PRESSURE	128	145.3
(F) SECOND FINAL FLOW PRESSURE	227	229.2
(G) FINAL CLOSED-IN PRESSURE	1294	1302.4
(H) FINAL HYDROSTATIC MUD	2367	2365.6

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6693 Date: 6/7/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: FEIERTAG #1-7 Test No.: 4
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas 2000
 Oil
 Mud
 Water 2000
 Other
 Pressure 500
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3000
 Resistivity ohms@ F
 Viscosity 50
 Mud Wt. 9.3
 Filtrate 10
 Other

KCC
 JUN 23
 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 0.115 ohms@ 66 F
 Chlorides 95000 ppm

1658
1662

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 6693 Date 6-7-99
Company Name MDE
Lease Geierterg 1-7 Test No. 4
County Meade KS Sec. 7 Twp. 33 Rng. 30

SAMPLER RECOVERY

Gas 2000 4CEG ML
Oil _____ ML
Mud _____ ML
Water 2000 ML
Other _____ ML
Pressure 500 PSI
Total 4060 ML

PIT MUD ANALYSIS

Chlorides 3000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 50
Mud Weight 9.3 NUL
Filtrate 10.0 JUN 23
Other _____ CONFIDENTIAL

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 115 ohms @ 66 F
Chlorides 95.000 ppm.

RELEASED

JUL 26 1995

FROM CONFIDENTIAL

Test Ticket

ORIGINAL

CONFIDENTIAL

No

6693

Well Name & No. Feierstag 1-7 Test No. 4 Date 6-7-94
 Company Murphy Zone Tested SLIP
 Address _____ Elevation 2754 KB
 Co. Rep./Geo. _____ Cont. Murphy 21 Est. Ft. of Pay 11
 Location: Sec. 7 Twp. 33 Rge. 30 Co. Meade State KS
 No. of Copies _____ Distribution Sheet _____ Yes X No _____ Turnkey _____ Yes X No _____ Evaluation _____

Interval Tested 4925-4995 Drill Pipe Size 4 1/2 NH
 Anchor Length 70 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 4920 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4925 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4995 Drill Collar — 2.25 Ft. Run 556 NH
 Mud Wt. 9.3 lb/gal. Viscosity 50 Filtrate 10.0
 Tool Open @ 10:25 PM Initial Blow Full blow bottom of bucket in 7 min

Final Blow Weak blow bucket to bottom in 25 min
no blow back NUL

Recovery — Total Feet 435 Feet of Gas In Pipe _____ JUN 23 Flush Tool? AD

Rec.	Feet Of	% gas	% oil	% water	% mud
<u>135</u>	<u>DR 15 mud</u>				
<u>120</u>	<u>Heavy gas cut Emulsion</u>	<u>60%</u>			
<u>180</u>	<u>Emulsion</u>	<u>40%</u>			
<u>180</u>	<u>salt water</u>			<u>100%</u>	

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 11.5 @ 66 °F Chlorides 95.000 ppm Recovery Chlorides 3.000 ppm System

(A) Initial Hydrostatic Mud 2496 PSI AK1 Recorder No. 10337 Range 9975
 (B) First Initial Flow Pressure 59 PSI @ (depth) 4925 w/Clock No. 26191
 (C) First Final Flow Pressure 98 PSI AK1 Recorder No. 10333 Range 4050
 (D) Initial Shut-In Pressure 1274 PSI @ (depth) 4992 w/Clock No. 14389
 (E) Second Initial Flow Pressure 128 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 227 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1294 PSI Initial Opening 30 Test X 600
 (H) Final Hydrostatic Mud 2367 PSI Initial Shut-In 45 Jars X 200

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Approved By Paul F. Linder
 Our Representative R. Calhoun

Final Flow 60 Safety Joint X 50
 Final Shut-In 90 Straddle _____
 Circ. Sub X 200
 Sampler X 200
 Extra Packer _____
 Other _____

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

CONFIDENTIAL
ORIGINAL

Well Name FEIERTAG #1-7 Test No. 5 Date 6/8/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone LOWER KC
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 19
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested	<u>5005-5031</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>26</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>556</u>
Top Packer Depth	<u>5000</u>	Drill Collar - 2.25 Ft. Run	<u>9.1</u>
Bottom Packer Depth	<u>5005</u>	Mud Wt.	<u>62</u> lb/Gal.
Total Depth	<u>5031</u>	Viscosity	<u>9.6</u>

Tool Open @ 5:35PM Initial Blow FAIR BLOW BUILT TO BOTTOM IN 12 MINUTES

Final Blow WEAK BLOW BOTTOM OF BUCKET IN 20 MINUTES
NO BLOW BACK

Recovery - Total Feet 960 Flush Tool? NO

Rec. <u>60</u>	Feet of	<u>MUDDY WATER 60%WATER/40%MUD</u>
Rec. <u>900</u>	Feet of	<u>SALT WATER</u>
Rec. _____	Feet of	<u>NUL</u>
Rec. _____	Feet of	<u>JUN 23</u>
Rec. _____	Feet of	

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.1 @ 70 °F Chlorides 130000 ppm Recovery Chlorides 45000 ppm System

(A) Initial Hydrostatic Mud 2481.2 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 74.1 PSI @ (depth) 5008 w / Clock No. 26191

(C) First Final Flow Pressure 272.7 PSI AK1 Recorder No. 10333 Range 4050

(D) Initial Shut-in Pressure 1515.6 PSI @ (depth) 5028 w / Clock No. 14389

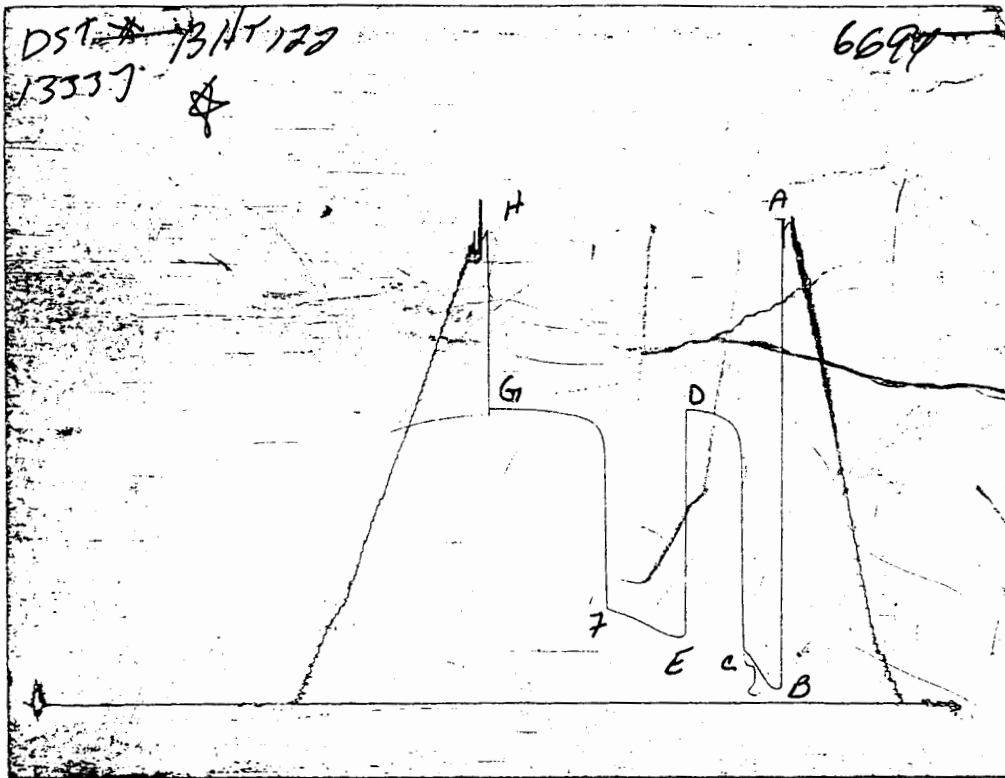
(E) Second Initial Flow Pressure 341.9 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 491.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1523.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2436.7 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative ROBERT COLLINS



This is an actual photograph of recorder chart

KCC

JUN 23

CONFIDENTIAL

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2417	2481.2
(B) FIRST INITIAL FLOW PRESSURE	59	74.1
(C) FIRST FINAL FLOW PRESSURE	256	272.7
(D) INITIAL CLOSED-IN PRESSURE	1503	1515.6
(E) SECOND INITIAL FLOW PRESSURE	336	341.9
(F) SECOND FINAL FLOW PRESSURE	474	491.1
(G) FINAL CLOSED-IN PRESSURE	1503	1523.4
(H) FINAL HYDROSTATIC MUD	2407	2436.7

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6694 Date: 6/8/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: FEIERTAG #1-7 Test No.: 5
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas
 Oil
 Mud
 Water 4000
 Other
 Pressure
 TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.1 ohms@ 70 F
 Chlorides 130000 ppm.
 Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 45000
 Resistivity ohms@ F
 Viscosity 62
 Mud Wt. 9.1
 Filtrate 9.6
 Other
 KCL
 JUN 23
 CONFIDENTIAL

PIPE RECOVERY

TOP

Resistivity 0.141 ohms@ 74 F
 Chlorides 80000 ppm

MIDDLE

Resistivity 0.09 ohms@ 72 F
 Chlorides 140000 ppm

BOTTOM

Resistivity 0.1 ohms@ 70 F
 Chlorides 130000 ppm

1662
TRILOBITE TESTING L.L.C.

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ORIGINAL

FLUID SAMPLER DATA

Ticket No. 6694 Date 6-8-99
Company Name MDC
Lease Feiertag 1-7 Test No. 5
County Meade KS Sec. 7 Twp. 33 Rng. 30

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure _____ PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 45,00 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 62
Mud Weight 9.1 NC
Filtrate 9.6 JUN 23
Other CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity .100 ohms @ 70 F
Chlorides 130,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .141 ohms @ 74 F
Chlorides 80,000 ppm.
MIDDLE
Resistivity .090 ohms @ 72 F
Chlorides 140,000 ppm.
BOTTOM
Resistivity .100 ohms @ 70 F
Chlorides 130,000 ppm.

ORIGINAL

Test Ticket

CONFIDENTIAL No 6694

Well Name & No. Ferretas 1-27 Test No. 5 Date 6-8-94
 Company MDC Zone Tested Lower K.C.B.
 Address _____ Elevation 2754 KB
 Co. Rep./Geo Paul Godwin Cont. Marvin 21 Est. Ft. of Pay 19
 Location: Sec. 7 Twp. 35 Rge. 30 Co. Meade State KS
 No. of Copies _____ Distribution Sheet _____ Yes X No Turnkey _____ Yes X No Evaluation _____

Interval Tested 5005-5031 Drill Pipe Size 4 1/2 x 1/4
 Anchor Length 26 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 5000 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 5005 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5031 Drill Collar — 2.25 Ft. Run 556 XA
 Mud Wt. 9.1 lb/gal. Viscosity 62 Filtrate 9.6
 Tool Open @ 5:35 PM Initial Blow Fair blow back to bottom in 12 min. run

Final Blow Weak blow bottom in 20 min JUN 23
no blow back CONFIDENTIAL

Recovery — Total Feet 960 Feet of Gas In Pipe _____ Flush Tool? no
 Rec. 60 Feet Of M/LWR %gas %oil 60 %water 40 %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. 900 Feet Of salt LWR %gas %oil 100 %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1100 @ 70 °F Chlorides 130.000 ppm Recovery Chlorides 45.000 ppm System

(A) Initial Hydrostatic Mud 2417 PSI AK1 Recorder No. 13337 Range 3975
 (B) First Initial Flow Pressure 59 PSI @ (depth) 5008 w/Clock No. 26191
 (C) First Final Flow Pressure 256 PSI AK1 Recorder No. 40337 Range 4050
 (D) Initial Shut-In Pressure 1503 PSI @ (depth) 5008 w/Clock No. 14389
 (E) Second Initial Flow Pressure 336 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 474 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1503 PSI Initial Opening 30 Test X 700
 (H) Final Hydrostatic Mud 2407 PSI Initial Shut-In 45 Jars X 200

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 60 Safety Joint X 50
 Final Shut-In 90 Straddle _____
 Circ. Sub 2 1/2
 Sampler X 200
 Extra Packer _____
 Other _____

Approved By Paul F. Godwin
 Our Representative R. Callis

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL

ORIGINAL

Well Name FEIERTAG #1-7 Test No. 6 Date 6/11/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone ATOKA
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 5
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested 5590-5613
Anchor Length 23
Top Packer Depth 5585
Bottom Packer Depth 5590
Total Depth 5613

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 556
Mud Wt. 9.2 lb/Gal.
Viscosity 50 Filtrate 9.6

Tool Open @ _____ Initial Blow VERY WEAK SURFACE BLOW BUILT TO 1"

Final Blow NO BLOW

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

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JUN 23

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BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2740.7 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 55.3 PSI @ (depth) 5593 w / Clock No. 26191

(C) First Final Flow Pressure 55.3 PSI AK1 Recorder No. 10333 Range 4050

(D) Initial Shut-in Pressure 1605.5 PSI @ (depth) 5610 w / Clock No. 14389

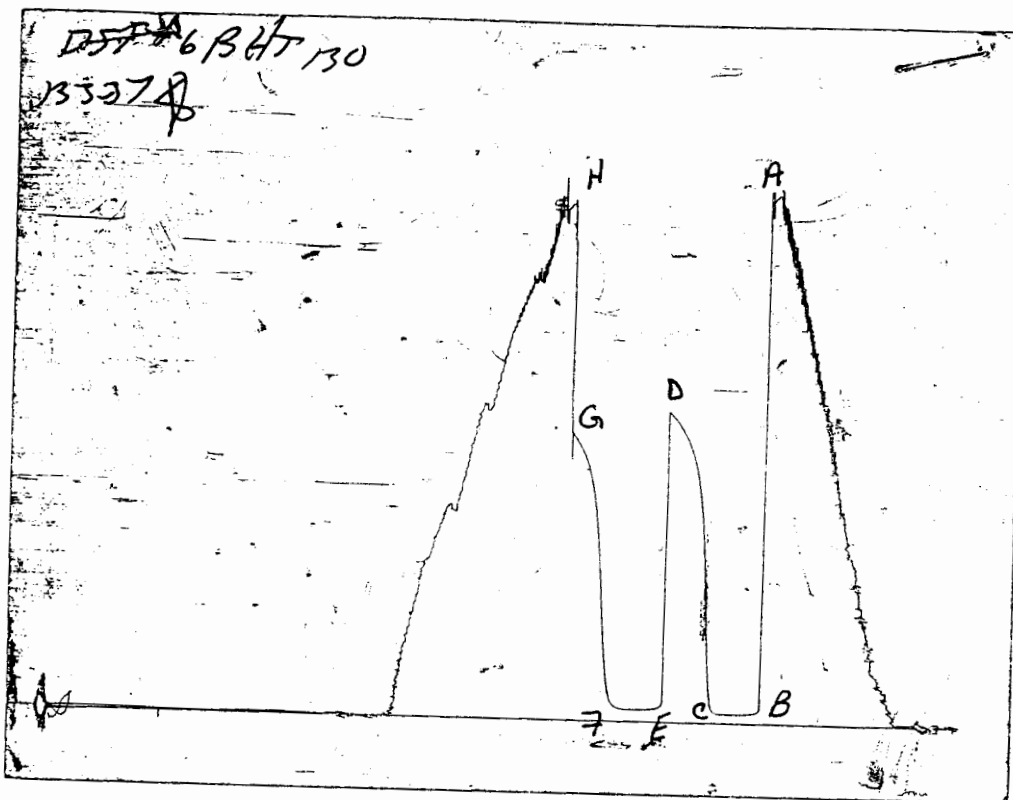
(E) Second Initial Flow Pressure 82.0 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 82.0 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1493.0 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2682.0 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROBERT COLLINS



This is an actual photograph of recorder chart

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JUN 23

RELEASED

JUL 26 1995

FIELD
READING

OFFICE
READING

CONFIDENTIAL

FROM CONFIDENTIAL

(A) INITIAL HYDROSTATIC MUD	2682	2740.7
(B) FIRST INITIAL FLOW PRESSURE	49	55.3
(C) FIRST FINAL FLOW PRESSURE	49	55.3
(D) INITIAL CLOSED-IN PRESSURE	1601	1605.5
(E) SECOND INITIAL FLOW PRESSURE	59	82
(F) SECOND FINAL FLOW PRESSURE	59	82
(G) FINAL CLOSED-IN PRESSURE	1444	1493
(H) FINAL HYDROSTATIC MUD	2652	2682

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6695 Date: 6/11/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: FEIERTAG #1-7 Test No.: 6
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure
 TOTAL 4000

SAMPLER ANALYSIS

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

PIT MUD ANALYSIS

Chlorides 3500
 Resistivity ohms@ F
 Viscosity 50
 Mud Wt. 9.2
 Filtrate 9.6
 Other

NO
 JUN 23
 CONFIDENTIAL

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.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 6695 Date 6-11-94
Company Name MDC
Lease Geertag 1-7 Test No. 6
County Meade KS Sec. 7 Twp. 33 Rng. 30

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure — PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 3500 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 50
Mud Weight 9.2
Filtrate 9.6 NCC
Other _____
JUN 23
CONFIDENTIAL

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

RELEASED

JUL 26 1995

FROM CONFIDENTIAL

CONFIDENTIAL Test Ticket

ORIGINAL

No 6695

Well Name & No. Feiertag 1-7 Test No. 6 Date 6-11-94
 Company MDC Zone Tested ATOKA
 Address Wichita ks 67202 Elevation 2754 KB
 Co. Rep./Geo Paul Gadowic Cont Murphy 21 Est. Ft. of Pay 5
 Location: Sec. 7 Twp. 33 Rge. 30 Co. meade State KS
 No. of Copies _____ Distribution Sheet _____ Yes X No Turnkey _____ Yes X No _____ Evaluation _____

Interval Tested 5590-5613 Drill Pipe Size 4 1/2 x 11
 Anchor Length 2.3 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5585 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5590 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5613 Drill Collar — 2.25 Ft. Run 556 VA
 Mud Wt. 9.2 lb/gal. Viscosity 50 Filtrate 9.6
 Tool Open @ _____ Initial Blow Very weak surface blow build for lift
 Final Blow NO blow JUN 23

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Recovery — Total Feet 60 Feet of Gas In Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>60</u>	<u>DRIS Mud</u>				<u>100</u>

 BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3500 ppm System
 (A) Initial Hydrostatic Mud 2682 PSI AK1 Recorder No. 13337 Range 3975
 (B) First Initial Flow Pressure 49 PSI @ (depth) 5593 w/Clock No. 26191
 (C) First Final Flow Pressure 49 PSI AK1 Recorder No. 10333 Range 4050
 (D) Initial Shut-In Pressure 1601 PSI @ (depth) 5610 w/Clock No. 14389
 (E) Second Initial Flow Pressure 59 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 59 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1444 PSI Initial Opening 30 Test X 700
 (H) Final Hydrostatic Mud 2652 PSI Initial Shut-In 45 Jars X 200

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Approved By Paul F. LopezOur Representative R. Collier

Safety Joint X 50
 Straddle _____
 Circ. Sub True
 Sampler X 200
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 1150

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL

ORIGINAL

Well Name FEIERTAG #1-7 Test No. 7 Date 6/12/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone MORROW
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 9
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested 5606-5643
Anchor Length 37
Top Packer Depth 5601
Bottom Packer Depth 5606
Total Depth 5643

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 556
Mud Wt. 9.2 lb/Gal.
Viscosity 50 Filtrate 9.6

Tool Open @ _____ Initial Blow WEAK SURFACE BLOW BUILT TO 2 1/2"

Final Blow 1/2" BLOW THROUGHOUT

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of JUN 23
Rec. _____ Feet of _____
Rec. _____ Feet of CONFIDENTIAL

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2727.0 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 37.5 PSI @ (depth) 5609 w / Clock No. 26191

(C) First Final Flow Pressure 37.5 PSI AK1 Recorder No. 10333 Range 4050

(D) Initial Shut-in Pressure 58.3 PSI @ (depth) 5640 w / Clock No. 14389

(E) Second Initial Flow Pressure 39.5 PSI AK1 Recorder No. _____ Range _____

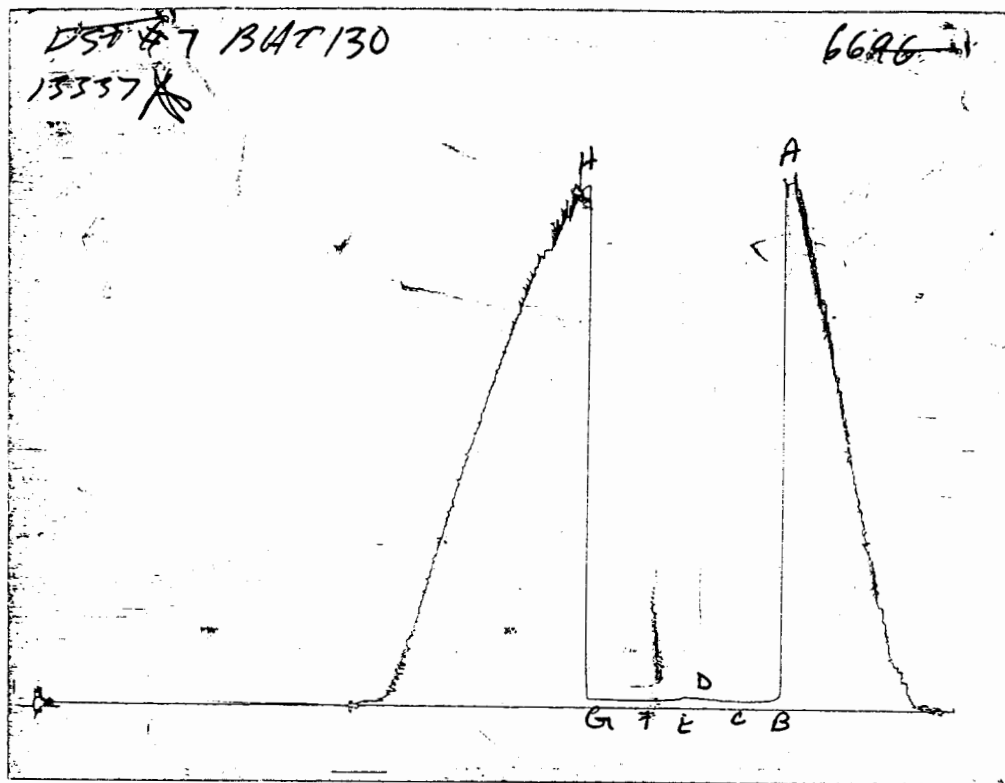
(F) Second Final Flow Pressure 39.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 39.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2681.0 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROBERT COLLINS

ORIGINAL



This is an actual photograph of recorder chart

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JUN 23

CONFIDENTIAL

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2682	2727
(B) FIRST INITIAL FLOW PRESSURE	39	37.5
(C) FIRST FINAL FLOW PRESSURE	39	37.5
(D) INITIAL CLOSED-IN PRESSURE	59	58.3
(E) SECOND INITIAL FLOW PRESSURE	39	39.5
(F) SECOND FINAL FLOW PRESSURE	39	39.5
(G) FINAL CLOSED-IN PRESSURE	39	39.5
(H) FINAL HYDROSTATIC MUD	2652	2681

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6696 Date: 6/12/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: FEIERTAG #1-7 Test No.: 7
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure
 TOTAL 4000

SAMPLER ANALYSIS

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

PIT MUD ANALYSIS

Chlorides 3500
 Resistivity ohms@ F
 Viscosity 50
 Mud Wt. 9.2
 Filtrate 9.6
 Other

CONFIDENTIAL

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

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JUL 2 6 1995

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 6696 Date 6-12-99
Company Name MDQ
Lease Ferretas 1-7 Test No. 7
County Meade KS Sec. 7 Twp. 33 Rng. 30

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure 0 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 3500 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 50
Mud Weight 9.2 NOL
Filtrate 9.6 JUN 23
Other _____ CONFIDENTIAL

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

CONFIDENTIAL

Test Ticket

ORIGINAL

No 6696

Well Name & No. Feiertag 1-7 Test No. 7 Date 6-12-94
 Company MOC Zone Tested Morrow
 Address Wichita ks 67202 Elevation 2754 KS
 Co. Rep./Geo. Paul Godowne Cont. Marta 21 Est. Ft. of Pay 9
 Location: Sec. 7 Twp. 33 Rge. 30 Co. Meade State KS
 No. of Copies _____ Distribution Sheet _____ Yes ✓ No _____ Turnkey _____ Yes ✓ No _____ Evaluation _____

Interval Tested 5606-5643 Drill Pipe Size 4 1/2 HH
 Anchor Length 37 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5601 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5606 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5643 Drill Collar — 2.25 Ft. Run 556 HH
 Mud Wt. 9.2 lb/gal. Viscosity 50 Filtrate 9.6
 Tool Open @ _____ Initial Blow Weak surface blow build to 2.500

Final Blow 1/2 blow through out

JUN 23

CONFIDENTIAL

Recovery — Total Feet 10 Feet of Gas in Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>10</u>	Feet Of <u>DRIS mud</u>	%gas	%oil	%water <u>100</u>	%mud
Rec. _____	Feet Of _____	%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 _____ °APIRW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3500 ppm System(A) Initial Hydrostatic Mud 2682 PSI Ak1 Recorder No. 13337 Range 3975(B) First Initial Flow Pressure 39 PSI @ (depth) 5609 w/Clock No. 26191(C) First Final Flow Pressure 39 PSI AK1 Recorder No. 10333 Range 4050(D) Initial Shut-In Pressure 59 PSI @ (depth) 5640 w/Clock No. 14389(E) Second Initial Flow Pressure 39 PSI AK1 Recorder No. _____ Range _____(F) Second Final Flow Pressure 39 PSI @ (depth) _____ w/Clock No. _____(G) Final Shut-In Pressure 39 PSI Initial Opening 30 Test ✓ 700(H) Final Hydrostatic Mud 2652 PSI Initial Shut-In 45 Jars ✓ 200

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Final Flow 30 Safety Joint ✓ 50Final Shut-In 45 Straddle _____Circ. Sub ✓ 10Sampler ✓ 200

Extra Packer _____

Other _____

TOTAL PRICE \$ 1150Approved By Paul F. GodowneOur Representative R. C. Ellis

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL
ORIGINAL

Test Ticket

No 6697

Well Name & No. <u>Feiertag 117</u>	Test No. <u>8</u>	Date <u>6-13-94</u>
Company <u>MPC</u>	Zone Tested <u>Chester</u>	
Address <u>W. White ks 67262</u>	Elevation <u>2754 KB</u>	
Co. Rep./Geo. <u>Paul Cardowic</u>	Cont <u>Mur Em 21</u>	Est. Ft. of Pay <u>8</u>
Location: Sec. <u>7</u>	Twp. <u>33</u>	Rge. <u>30</u> Co. <u>Meade</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____ Yes ☒ No ☐ Evaluation _____

Interval Tested <u>5881-5900</u>	Drill Pipe Size <u>4 1/2 NH</u>
Anchor Length <u>19</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5876</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5881</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5900</u>	Drill Collar — 2.25 Ft. Run <u>556 NH</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>8.0</u>
Tool Open @ <u>12:25 AM</u>	Initial Blow <u>Good blow bottom of bucket in 5 min</u>
	<u>no blow back</u> RCC
Final Blow <u>Weak blow build to 1 1/2 through out</u>	<u>JUN 23</u>

Recovery — Total Feet 10 Feet of Gas in Pipe _____

CONFIDENTIAL
Flush Tool? NO

Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. <u>10</u>	Feet Of <u>DRUG MUD</u>	%gas _____	%oil _____	%water <u>100</u>	%mud _____
Rec. _____	Feet Of <u>W. H. some spots</u>	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet Of <u>OF oil on top of tail</u>	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud <u>2838</u>	PSI	AK1 Recorder No. <u>13337</u>	Range <u>3975</u>
(B) First Initial Flow Pressure <u>39</u>	PSI	@ (depth) <u>5884</u>	w/Clock No. <u>26191</u>
(C) First Final Flow Pressure <u>49</u>	PSI	AK1 Recorder No. <u>10333</u>	Range <u>4050</u>
(D) Initial Shut-In Pressure <u>59</u>	PSI	@ (depth) <u>5887</u>	w/Clock No. <u>14389</u>
(E) Second Initial Flow Pressure <u>39</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>49</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>69</u>	PSI	Initial Opening <u>30</u>	Test <u>Y</u> <u>700</u>
(H) Final Hydrostatic Mud <u>2809</u>	PSI	Initial Shut-In <u>45</u>	Jars <u>X</u> <u>200</u>

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Final Flow 60 Safety Joint X 50
Final Shut-In 90 Straddle _____

Approved By Paul F. Cardowic

Our Representative R. Callis

Circ. Sub N/A
Sampler X 200
Extra Packer _____
Other _____

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL

ORIGINAL

Well Name FEIERTAG #1-7 Test No. 8 Date 6/13/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone CHESTER
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2754
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 8
Location: Sec. 7 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested	<u>5881-5900</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>19</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>556</u>
Top Packer Depth	<u>5876</u>	Drill Collar - 2.25 Ft. Run	<u>9.2</u>
Bottom Packer Depth	<u>5881</u>	Mud Wt.	<u>51</u> lb/Gal.
Total Depth	<u>5900</u>	Viscosity	<u>8.0</u>

Tool Open @ 12:25AM Initial Blow GOOD BLOW - BOTTOM OF BUCKET IN 5 MINUTES
NO BLOW BACK

Final Blow WEAK BLOW BUILT TO 1 1/2" THROUGHOUT

Recovery - Total Feet 10 Flush Tool? NO

Rec. <u>10</u>	Feet of	<u>DRILLING MUD</u>	<u>NO</u>
Rec. _____	Feet of	<u>WITH SOME SPOTS OF OIL ON TOP OF TOOL</u>	
Rec. _____	Feet of	<u>RELEASED</u>	<u>JUN 23</u>
Rec. _____	Feet of		<u>CONFIDENTIAL</u>
Rec. _____	Feet of	<u>JUL 26 1995</u>	

BHT 132 °F Gravity FROM CONFIDENTIAL °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2955.0 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 44.5 PSI @ (depth) 5884 w / Clock No. 26191

(C) First Final Flow Pressure 44.5 PSI AK1 Recorder No. 10333 Range 4050

(D) Initial Shut-in Pressure 64.2 PSI @ (depth) 5887 w / Clock No. 14389

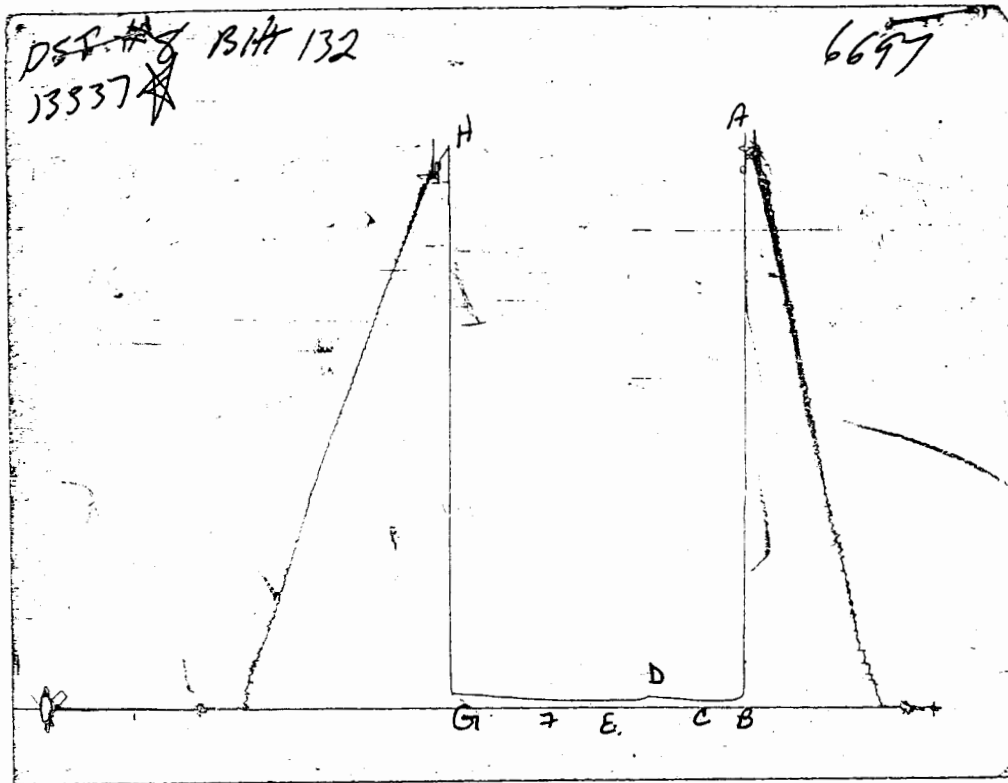
(E) Second Initial Flow Pressure 46.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 51.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 79.1 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2886.5 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative ROBERT COLLINS



This is an actual photograph of recorder chart

RCC

JUN 23

CONFIDENTIAL

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2838	2955
(B) FIRST INITIAL FLOW PRESSURE	39	44.5
(C) FIRST FINAL FLOW PRESSURE	49	44.5
(D) INITIAL CLOSED-IN PRESSURE	59	64.2
(E) SECOND INITIAL FLOW PRESSURE	39	46.5
(F) SECOND FINAL FLOW PRESSURE	49	51.4
(G) FINAL CLOSED-IN PRESSURE	69	79.1
(H) FINAL HYDROSTATIC MUD	2809	2886.5

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6697 Date: 6/13/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: FEIERTAG #1-7 Test No.: 8
 County: MEADE Sec.: 7 Twp.: 33S Rng.: 30W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure
 TOTAL 4000

SAMPLER ANALYSIS

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

RELEASED

JUL 26 1995

FROM CONFIDENTIAL

PIT MUD ANALYSIS

Chlorides 3000
 Resistivity ohms@ F
 Viscosity 51
 Mud Wt. 9.2
 Filtrate 8.0
 Other

NO
 JUN 23
 CONFIDENTIAL

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. ORIGINAL

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6697 Date 6-13-94
Company Name MDC
Lease Ferretas 1-7 Test No. 8
County Meado ks Sec. 7 Twp. 33 Rng. 30

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure — PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 3.000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 51
Mud Weight 9.2 nuc
Filtrate 8.0 JUN 23
Other CCM #3 CONFIDENTIAL

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

RELEASED
JUL 26 1995
FROM CONFIDENTIAL

Test Ticket

ORIGINAL
CONFIDENTIAL

No 6697

Well Name & No. <u>Feiertag 1-17</u>	Test No. <u>8</u>	Date <u>6-13-94</u>
Company <u>MPC</u>	Zone Tested <u>Chester</u>	
Address <u>W. White ks 67262</u>	Elevation <u>2754 KB</u>	
Co. Rep./Geo. <u>Paul Gadowie</u>	Cont. <u>Mar Em 21</u>	Est. Ft. of Pay <u>8</u>
Location: Sec. <u>7</u> Twp. <u>33</u> Rge. <u>30</u>	Co. <u>Meade</u>	State <u>ks</u>
No. of Copies _____	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
Yes ☒ No ☐	Yes ☒ No ☐	Evaluation _____

Interval Tested <u>5881-5900</u>	Drill Pipe Size <u>4-1/2 x 11</u>
Anchor Length <u>19</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5876</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>5881</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5900</u>	Drill Collar — 2.25 Ft. Run <u>556 x 11</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>8.0</u>
Tool Open @ <u>12:25 AM</u>	Initial Blow <u>Good blow bottom of bucket in 5 min</u>
<u>no blow back</u>	
Final Blow <u>Weak blow build to 1 1/2 ft through</u>	<u>agitated</u>
	<u>JUN 23</u>

Recovery — Total Feet <u>10</u>	Feet of Gas in Pipe _____	<u>2 6 1995</u>	<u>CONFIDENTIAL</u>
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Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. <u>10</u>	Feet Of <u>DRUG MUD</u>	FROM CONFIDENTIAL	% oil _____	% water <u>100</u>	% mud _____
Rec. _____	Feet Of <u>with some spots</u>	% gas _____	% oil _____	% water _____	% mud _____
Rec. _____	Feet Of <u>of oil on top of tool</u>	% gas _____	% oil _____	% water _____	% mud _____
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____

BHT <u>132</u> °F	Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
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RW _____ @ _____ °F	Chlorides _____	ppm Recovery _____	Chlorides <u>3000</u>	ppm System _____
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(A) Initial Hydrostatic Mud <u>2838</u>	PSI	AK1 Recorder No. <u>13337</u>	Range <u>3975</u>
(B) First Initial Flow Pressure <u>39</u>	PSI	@ (depth) <u>5884</u>	w/Clock No. <u>26191</u>
(C) First Final Flow Pressure <u>49</u>	PSI	AK1 Recorder No. <u>10333</u>	Range <u>4050</u>
(D) Initial Shut-in Pressure <u>59</u>	PSI	@ (depth) <u>5887</u>	w/Clock No. <u>14389</u>
(E) Second Initial Flow Pressure <u>39</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>49</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-in Pressure <u>69</u>	PSI	Initial Opening <u>30</u>	Test <u>Y</u> <u>700</u>
(H) Final Hydrostatic Mud <u>2809</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>X</u> <u>200</u>

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Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>
Final Shut-in <u>90</u>	Straddle <u>-</u>

Approved By Paul F. GadowieOur Representative R. Collier

Circ. Sub <u>2016</u>
Sampler <u>X</u> <u>200</u>
Extra Packer <u>-</u>

Other _____

TOTAL PRICE \$ 1150