

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FEIGHT A-2 Test No. 1 Date 3/29/92
Company HELMERICH & PAYNE INC Zone Tested KS CITY "B"
Address P.O. BOX 558 GARDEN CITY KS 67846 Elevation 2941 GL
Co. Rep./Geo. N/A Cont. N/A Est. Ft. of Pay _____
Location: Sec. 27 Twp. 29S Rge. 33W Co. HASKELL State KS

Interval Tested 4653-4680 Drill Pipe Size 4.5 FH
Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4648 Drill Collar - 2.25 Ft. Run 702
Bottom Packer Depth 4653
Total Depth 4680

Mud Wt. 8.9 lb / gal. Viscosity 48 Filtrate 9.6

Tool Open @ 1:45 PM Initial Blow FAIR TO GOOD - BOTTOM OF BUCKET IN 5 MINUTES

Final Blow SAME AS INITIAL

Recovery - Total Feet 150 Flush Tool? NO

Rec. 1650 Feet of GAS IN PIPE

Rec. 30 Feet of GASSY CUT MUD-5%GAS/95%MUD

Rec. 60 Feet of OIL & GAS CUT MUD-30%GAS/10%OIL/60%MUD

Rec. 60 Feet of OIL & GAS CUT MUD-40%GAS/20%OIL/40%MUD

Rec. _____ Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud 2351.2 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 43.9 PSI @ (depth) 4658 w/Clock No. 27594

(C) First Final Flow Pressure 73.4 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 710.4 PSI @ (depth) 4680 w/Clock No. 30418

(E) Second Initial Flow Pressure 82.5 PSI AK1 Recorder No. _____ Range _____

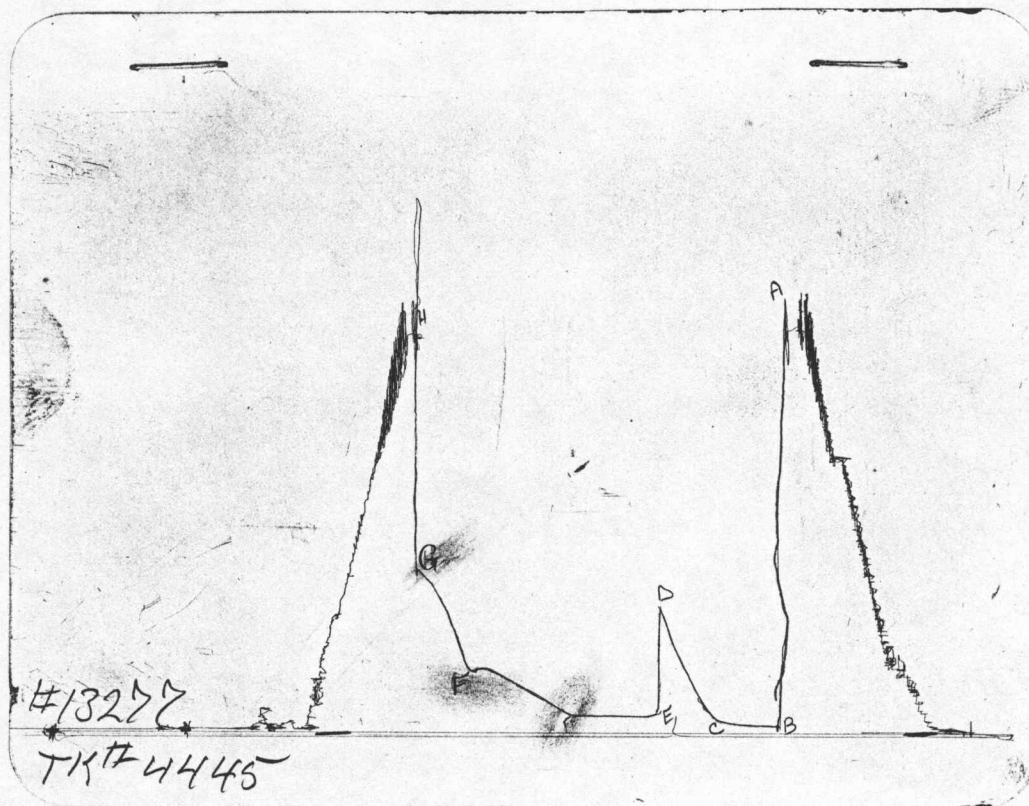
(F) Second Final Flow Pressure 96.7 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 921.3 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2344.8 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative HARRY SCHMIDT

TOTAL PRICE \$ 1000



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2349	2351.2
(B) FIRST INITIAL FLOW PRESSURE	41	43.9
(C) FIRST FINAL FLOW PRESSURE	68	73.4
(D) INITIAL CLOSED-IN PRESSURE	702	710.4
(E) SECOND INITIAL FLOW PRESSURE	82	82.5
(F) SECOND FINAL FLOW PRESSURE	95	96.7
(G) FINAL CLOSED-IN PRESSURE	919	921.3
(H) FINAL HYDROSTATIC MUD	2340	2344.8

TRILOBITE TESTING COMPANY

, L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4445 Date 3/29/92
Company Name HELMERICH & PAYNE INC
Lease FEIGHT A-2 Test No. 1
County HASKELL Sec. 27 Twp. 29S Rng. 33W

SAMPLER RECOVERY

Gas 8000 ML Chlorides _____ ppm.
Oil _____ ML Resistivity 5 ohms @ 60 F
Mud _____ ML Viscosity 48
Water _____ ML Mud Weight 8.9
Other _____ ML Filtrate 9.6
Pressure 50 PSI Other _____
Total 4000 ML _____

PIT MUD ANALYSIS

SAMPLER ANALYSIS

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

PIPE RECOVERY

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY L.L.C.

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FLUID SAMPLER DATA

Ticket No. 4445 Date 3-29-92

Company Name HELMERICH & BAYNE INC.

Lease FEIGHT A-2 Test No. ONE

County HASKELL Sec. 27 Twp. 29 Rng. 33

SAMPLER RECOVERY

Gas 2000 ML ML

Oil OIL GAS & ML

Mud MUD CUT ML

Water 1 FOAM ML

Other _____ ML

Pressure 50 PSI

Total 4000 ML

GRIND OUT

40% GAS 25% OIL

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

Gravity _____ corrected @ 60 F

NOT ENOUGH WATER TO CK

PIT MUD ANALYSIS

Chlorides 1400 ppm.

Resistivity 5.0 ohms @ 60 F

Viscosity 48

Mud Weight 8.9

Filtrate 9.6

Other _____

10% WATER 25% MUD

PIPE RECOVERY

NOT ENOUGH TO CK

TOP
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4445

Well Name & No. <u>FRIGIT A-2</u>	Test No. <u>ONE</u>	Date <u>3-29-92</u>
Company <u>HELMERICH & PAYNE INC.</u>	Zone Tested <u>KANSAS CITY IS</u>	
Address <u>P.O. 558 GARDEN CITY KS 67846</u>	Elevation <u>2941 GL</u>	
Co. Rep./Geo. _____	Cont. _____	Est. Ft. of Pay <u>7</u>
Location: Sec. <u>27</u>	Twp. <u>29</u>	Rge. <u>33</u>
	Co. <u>HASKELL</u>	State <u>155</u>
No. of Copies <u>8</u>	Distribution Sheet <u>Yes</u>	No Turnkey <u>Yes</u>
		Evaluation <u>NO</u>

Interval Tested 4653 TO 4680 Drill Pipe Size 4 1/2" F.H.
 Anchor Length 27' Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4648 Hole Size — 77/8" Rubber Size — 63/4"
 Bottom Packer Depth 4653 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 4680 Drill Collar — 2.25 Ft. Run 702'
 Mud Wt. 8.9 lb/gal. Viscosity 48 Filtrate 9.6
 Tool Open @ 1:45 P Initial Blow FAIR TO GOOD BOT. BUCKET IN 5" MIN.

Final Blow SAME AS INITIAL

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>150</u>	<u>1650</u>	<u>NO</u>
Rec. <u>30</u> Feet Of <u>G.C.M.</u>	<u>5%</u> gas <u>%oil</u>	<u>%water 95% mud</u>
Rec. <u>60</u> Feet Of <u>0.8 GCM</u>	<u>30%</u> gas <u>10%</u> oil	<u>%water 60% mud</u>
Rec. <u>60</u> Feet Of <u>0.4 GCM</u>	<u>40%</u> gas <u>20%</u> oil	<u>%water 40% mud</u>
Rec. <u>60</u> Feet Of <u>0.4 GCM</u>	<u>40%</u> gas <u>20%</u> oil	<u>%water 40% mud</u>
Rec. _____ Feet Of _____	<u>%gas %oil</u>	<u>%water %mud</u>

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud 2349 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 41 PSI @ (depth) 4658 w/Clock No. 27594

(C) First Final Flow Pressure 68 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-In Pressure 702 PSI @ (depth) 9680 w/Clock No. 30418

(E) Second Initial Flow Pressure 82 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 95 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 919 PSI Initial Opening 30 Test 550

(H) Final Hydrostatic Mud 2340 PSI Initial Shut-In 60 Jars 200

Final Flow 60 Safety Joint 50

Final Shut-In 120 Straddle _____

Circ. Sub _____

Sampler 200

Extra Packer _____

Other _____

TOTAL PRICE \$ 1000

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Approved By _____

Our Representative _____

TRILOBITE TESTING COMPANY, L.L.C.

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Drill-Stem Test Data

Well Name FEIGHT A-2 Test No. 2 Date 3/30/92
Company HELMERICH & PAYNE INC Zone Tested MARMATON
Address P.O. BOX 558 GARDEN CITY KS 67846 Elevation 2941 GL
Co. Rep./Geo. N/A Cont. N/A Est. Ft. of Pay 6
Location: Sec. 27 Twp. 29S Rge. 33W Co. HASKELL State KS

Interval Tested 4802-4811 Drill Pipe Size 4.5 FH
Anchor Length 9 Wt. Pipe I.D. - 2.7 Ft. Run
Top Packer Depth 4797 Drill Collar - 2.25 Ft. Run 702
Bottom Packer Depth 4802
Total Depth 4811

Mud Wt. 8.9 lb / gal. Viscosity 45 Filtrate 9.6

Tool Open @ 5:45 Initial Blow FAIR TO GOOD BOTTOM OF BUCKET IN 7 MINUTES

Final Blow SAME AS INITIAL-BOTTOM OF BUCKET IN 3 MINUTES

Recovery — Total Feet 400 Flush Tool? NO

Rec. 1661 Feet of GAS IN PIPE

Rec. 100 Feet of OIL & WATER CUT MUD-5%OIL/10%WTR/85%MUD

Rec. 300 Feet of WATER

Rec. Feet of

Rec. Feet of

BHT 124 °F Gravity °API @ °F Corrected Gravity °API

RW 0.65 @ 40 °F Chlorides 20000 ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud 2480.7 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 63.7 PSI @ (depth) 3806 w/Clock No. 27594

(C) First Final Flow Pressure 84.7 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 999.1 PSI @ (depth) 4811 w/Clock No. 30418

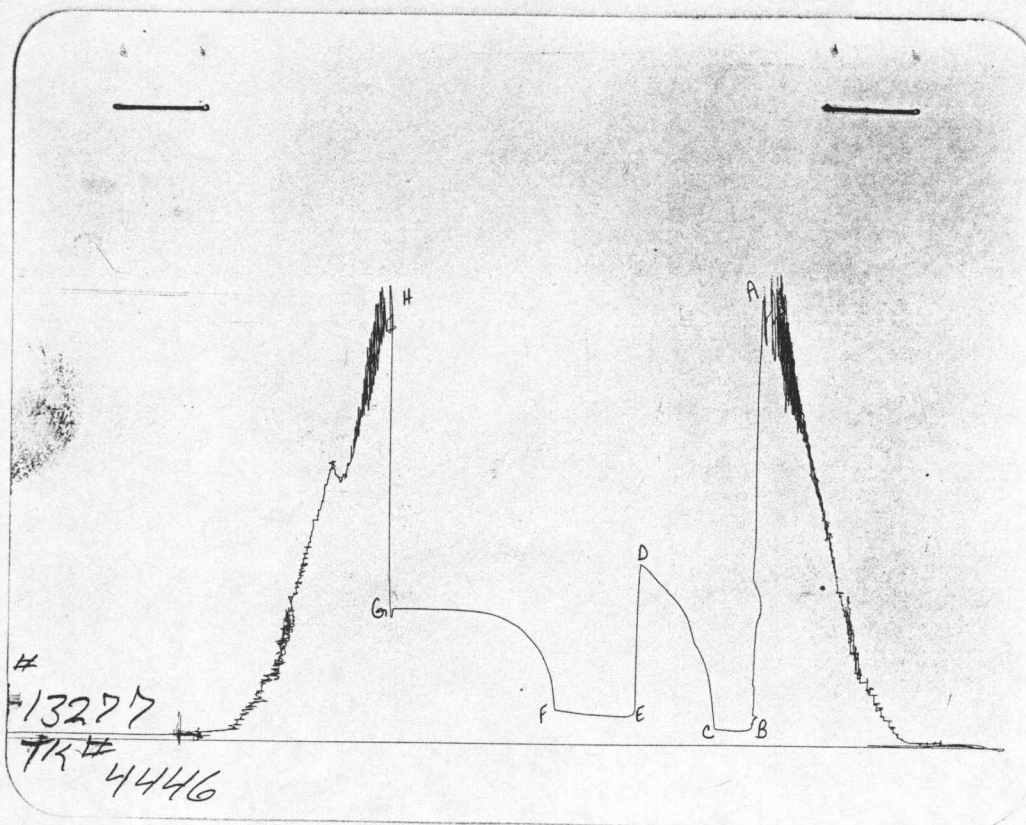
(E) Second Initial Flow Pressure 125.6 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 165.7 PSI @ (depth) w/Clock No.

(G) Final Shut-in Pressure 720.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2433.8 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative HARRY SCHMIDT TOTAL PRICE \$ 1000



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2439	2480.7
(B) FIRST INITIAL FLOW PRESSURE	55	63.7
(C) FIRST FINAL FLOW PRESSURE	82	84.7
(D) INITIAL CLOSED-IN PRESSURE	995	999.1
(E) SECOND INITIAL FLOW PRESSURE	122	125.6
(F) SECOND FINAL FLOW PRESSURE	163	165.7
(G) FINAL CLOSED-IN PRESSURE	715	720.4
(H) FINAL HYDROSTATIC MUD	2430	2433.8

TRILOBITE TESTING COMPANY

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FLUID SAMPLER DATA

Ticket No. 4446 Date 3/30/92
Company Name HELMERICH & PAYNE INC
Lease FEIGHT A-2 Test No. 2
County HASKELL Sec. 27 Twp. 29S Rng. 33W

SAMPLER RECOVERY

Gas _____ ML Chlorides 20000 ppm.
Oil _____ ML Resistivity 5 ohms @ 60 F
Mud _____ ML Viscosity 45
Water _____ ML Mud Weight 8.9
Other _____ ML Filtrate 9.6
Pressure 60 PSI Other _____
Total 4000 ML _____

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity 0.65 ohms @ 40 F TOP
Chlorides 20000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE

Resistivity 0.65 ohms @ 40 F
Chlorides 20000 ppm.

BOTTOM

Resistivity 0.65 ohms @ 40 F
Chlorides 20000 ppm.

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4446 Date 3-30-92
Company Name HELMERICH & PAYNE INC
Lease FEIGIT A-2 Test No. 120
County HASSELL Sec. 27 Twp. 29 Rng. 33

SAMPLER RECOVERY

Gas NONE ML
Oil NONE ML
Mud NONE ML
Water 4000 ML
Other _____ ML
Pressure 60 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1400 ppm.
Resistivity 5.0 ohms @ 60 F
Viscosity 45
Mud Weight 8.9
Filtrate 9.6
Other _____

SAMPLER ANALYSIS

Resistivity 0.65 ohms @ 40 F
Chlorides 20,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity 0.65 ohms @ 40 F
Chlorides 20,000 ppm.
BOTTOM
Resistivity 0.65 ohms @ 40 F
Chlorides 20,000 ppm.

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4446

Well Name & No. <u>FEIGHT A-2</u>	Test No. <u>Two</u>	Date <u>3-30-92</u>
Company <u>HELMERICH & PAYNE INC.</u>	Zone Tested <u>MARATHON C&A</u>	
Address <u>POB 558 GARDEN CITY KS 67846</u>	Elevation <u>2941 G.L.</u>	
Co. Rep./Geo. <u>STEVIE SIMONTON</u>	Cont. <u>CHIEVENNE #3</u>	Est. Ft. of Pay <u>6</u>
Location: Sec. <u>27</u>	Twp. <u>29</u>	Rge. <u>33</u>
Co. <u>HASSELL</u>		State <u>KS</u>
No. of Copies <u>8</u>	Distribution Sheet <u>Yes</u>	No Turnkey <u>Yes</u> <u>No</u> Evaluation

Interval Tested <u>4802 TO 4811</u>	Drill Pipe Size <u>4 1/2" IFH</u>
Anchor Length <u>9'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>4797</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>4802</u>	Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth <u>4811</u>	Drill Collar — 2.25 Ft. Run <u>702</u>
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>45</u> Filtrate <u>9.6</u>
Tool Open @ <u>5:45</u>	Initial Blow <u>FAIR TO GOOD BOT. BUCKET IN 7 MIN.</u>

Final Blow SAME AS INITIAL BOT BUCKET IN 3 MIN

Recovery — Total Feet <u>400</u>	Feet of Gas in Pipe <u>1661</u>	Flush Tool? <u>NO</u>
Rec. <u>100</u> Feet Of <u>O.T.W. L.M.</u>	% gas <u>5</u> % oil <u>10</u> % water <u>85</u> % mud	
Rec. _____ Feet Of _____	% gas _____ % oil _____ % water _____ % mud	
Rec. <u>300</u> Feet Of <u>WATER</u>	% gas _____ % oil _____ % water _____ % mud	
Rec. _____ Feet Of _____	% gas _____ % oil _____ % water _____ % mud	
Rec. _____ Feet Of _____	% gas _____ % oil _____ % water _____ % mud	

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.65 @ 40 °F Chlorides 20,000 ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud <u>2439</u>	PSI	AK1 Recorder No. <u>13227</u>	Range <u>4125</u>
(B) First Initial Flow Pressure <u>55</u>	PSI	@ (depth) <u>3806</u>	w/Clock No. <u>27594</u>
(C) First Final Flow Pressure <u>82</u>	PSI	AK1 Recorder No. <u>11038</u>	Range <u>5075</u>
(D) Initial Shut-In Pressure <u>995</u>	PSI	@ (depth) <u>4811</u>	w/Clock No. <u>30418</u>
(E) Second Initial Flow Pressure <u>122</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>163</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>715</u>	PSI	Initial Opening <u>30</u>	Test <u>5500</u>
(H) Final Hydrostatic Mud <u>2430</u>	PSI	Initial Shut-In <u>60</u>	Jars <u>2000</u>

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Final Flow <u>60</u>	Safety Joint <u>5000</u>
Final Shut-In <u>120</u>	Straddle _____
	Circ. Sub _____
	Sampler <u>2000</u>
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>1000.00</u>

Approved By Stevie Simonton

Our Representative Thurman Schmitt

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FEIGHT A-2 Test No. 3 Date 4/3/92
Company HELMERICH & PAYNE INC Zone Tested LANSING "F"
Address P.O. BOX 558 GARDEN CITY KS 67846 Elevation 2941 GL
Co. Rep./Geo. STEVE SIMONTON Cont. N/A Est. Ft. of Pay 3
Location: Sec. 27 Twp. 29S Rge. 33W Co. HASKELL State KS

Interval Tested 4438-4453
Anchor Length 15
Top Packer Depth 4431-4438
Bottom Packer Depth 4453
Total Depth 4485

Drill Pipe Size 4.5 FH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 380 (4.5" XH)

Mud Wt. 9.2 lb / gal. Viscosity 45 Filtrate 10.4

Tool Open @ 2:27 AM Initial Blow HOOK SET 3' ABOVE TARGET HELD FOR 3 MINUTES
LOST PACKER SEAT-HAD BLOW OFF BOTTOM IN 1 1/2 MIN
Final Blow TRIED TO RESET HOOK SET-PACKER FAILURE

Recovery — Total Feet 575 Flush Tool? NO

Rec. 575 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 113 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.84 @ 80 °F Chlorides 6400 ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud 2211.7 PSI AK1 Recorder No. 10332 Range 4050

(B) First Initial Flow Pressure _____ PSI @ (depth) 4440 w/Clock No. 21058

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-in Pressure _____ PSI @ (depth) 4448 w/Clock No. 27566

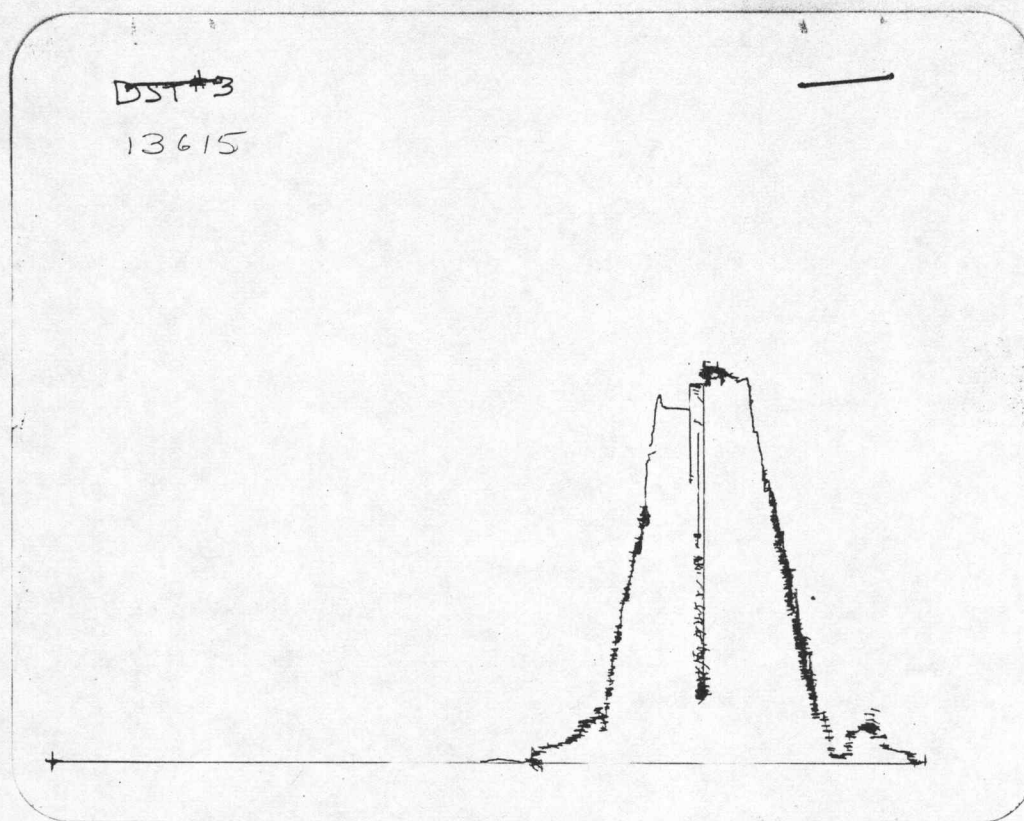
(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 13615 Range 4575

(F) Second Final Flow Pressure _____ PSI @ (depth) 4611 w/Clock No. N/A

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

(H) Final Hydrostatic Mud 2112.6 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative ROD STEINBRINK/ DANNY MORGAN TOTAL PRICE \$ 1765



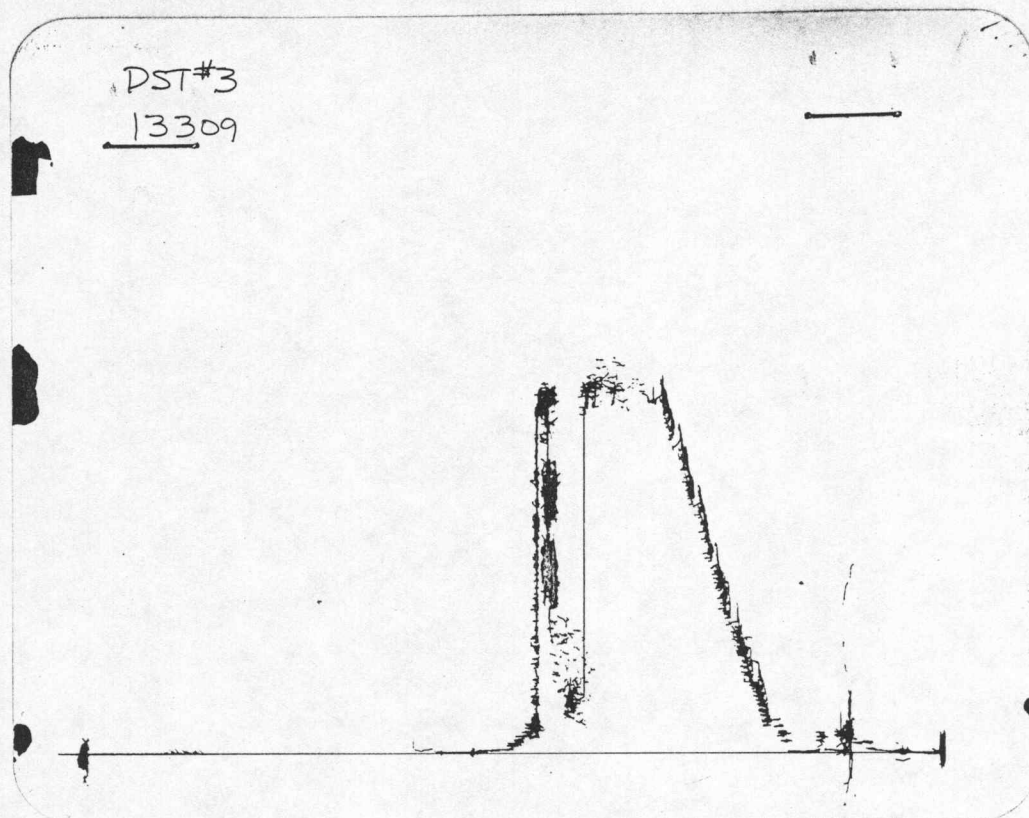
POINT

This is an actual photograph of recorder chart
PRESSURE

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



POINT

This is an actual photograph of recorder chart
PRESSURE

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2208	2211.7
(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	2108	2112.6

TRILOBITE TESTING COMPANY

, L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4593 Date 4/3/92
Company Name HELMERICH & PAYNE INC
Lease FEIGHT A-2 Test No. 3
County HASKELL Sec. 27 Twp. 29S Rng. 33W

SAMPLER RECOVERY

Gas _____ ML Chlorides 6400 ppm.
Oil _____ ML Resistivity _____ ohms @ _____ F
Mud 3500 ML Viscosity 45
Water _____ ML Mud Weight 9.2
Other _____ ML Filtrate 10.4
Pressure _____ PSI Other _____
Total 3500 ML _____

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity 0.84 ohms @ 80 F TOP
Chlorides 6400 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

Resistivity 0.78 ohms @ 77 F
Chlorides 6800 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity 0.84 ohms @ 80 F
Chlorides 6400 ppm.

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4594 Date 4.3.92
Company Name Helmerich & Payne Cont. Cheyenne #3
Lease Feight #A-2 Test No. 4 Lansing 'F'
County Haskell KS Sec. 27 Twp. 29 S Rng. 33 W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure _____ PSI
Total Tool never opened ML
due to no packer seat

SAMPLER ANALYSIS

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

PIT MUD ANALYSIS

Chlorides 1,800 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 45
Mud Weight 9.2
Filtrate 10.4
Other _____

PIPE RECOVERY

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

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4593

Well Name & No. <u>Feight #A-2</u>	Test No. <u>3</u>	Date <u>4-3-92</u>
Company <u>Helmerich & Payne, Inc.</u>	Zone Tested <u>Lansing 'F'</u>	
Address <u>P.O. Box 558 Garden City, KS. 67846</u>		Elevation _____
Co. Rep./Geo. <u>Steve Simonton</u>	Cont. <u>Cheyenne #3</u>	Est. Ft. of Pay <u>3'</u>
Location: Sec. <u>27</u>	Twp. <u>29 S</u>	Rge. <u>33 W</u> Co. <u>Haskell</u> State <u>KS</u>
No. of Copies <u>8</u>	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes <u>X</u> No _____ Evaluation _____

Interval Tested 4438 - 4453 Drill Pipe Size 4 1/2" FH
 Anchor Length 15 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4431 - 4438 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4453 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5720 (RTD) Hook Wall @ 4485 Drill Collar — 2.25 Ft. Run 380' (4 1/2" x H)
 Mud Wt. 9.2 lb/gal. Viscosity 45 Filtrate 10.4
 Tool Open @ 2:27 am Initial Blow Hook set 3' above target held for 3 mins.
Lost packer seat - Had blow off bottom in 1 1/2 mins. before losing packer.
 Final Blow Tried to reset Hook set - packer failed.

Recovery — Total Feet 575' Feet of Gas in Pipe _____ Flush Tool? _____

Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. <u>575'</u> Feet Of <u>Drig. Mud</u>	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%oil	%water	%mud

BHT 113° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .84 @ 80 °F Chlorides 6,400 ppm Recovery Chlorides 1,800 ppm System

(A) Initial Hydrostatic Mud 2208 PSI AK1 Recorder No. 10332 Range 4050

(B) First Initial Flow Pressure _____ PSI @ (depth) 4440 w/Clock No. 21058

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-In Pressure _____ PSI @ (depth) 4448 w/Clock No. 27566

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 13615 Range 4575

(F) Second Final Flow Pressure _____ PSI @ (depth) 4611 w/Clock No. _____

(G) Final Shut-In Pressure _____ PSI Initial Opening _____ Test Misrun 400.00

(H) Final Hydrostatic Mud 2108 PSI Initial Shut-In _____ Jars X 200.00

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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 _____ Safety Joint X 50.00

Final Shut-In _____ Straddle X 250.00

Circ. Sub X N/C

Sampler X 200.00

Extra Packer X 150.00

Shale Packer X 215.00

Hook wall X 300.00

TOTAL PRICE \$ 1765.00

Approved By _____

Our Representative Rod Steinbrink

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FEIGHT A-2 Test No. 4 Date 4/3/92
Company HELMERICH & PAYNE INC Zone Tested LANSING "F"
Address P.O. BOX 558 GARDEN CITY KS 67846 Elevation 2941 GL
Co. Rep./Geo. STEVE SIMONTON Cont. CHEYENNE #3 Est. Ft. of Pay 3
Location: Sec. 27 Twp. 29S Rge. 33W Co. HASKELL State KS

Interval Tested 4404-4453
Anchor Length 49
Top Packer Depth 4397-4404
Bottom Packer Depth 4453
Total Depth 4483

Drill Pipe Size 4.5 FH
Wt. Pipe I.D. - 2.7 Ft. Run
Drill Collar - 2.25 Ft. Run 380 (4.5" XH)

Mud Wt. 9.2 lb / gal. Viscosity 45 Filtrate 10.4

Tool Open @ 8:50 AM Initial Blow HOOK WOULD NOT SET/TRIED FOR 30 MINUTES
NO HELP

Final Blow

Recovery — Total Feet Flush Tool? NO

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 113 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud 2211.7 PSI AK1 Recorder No. 10332 Range 4050

(B) First Initial Flow Pressure PSI @ (depth) 4440 w/Clock No. 21058

(C) First Final Flow Pressure PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-in Pressure PSI @ (depth) 4448 w/Clock No. 27566

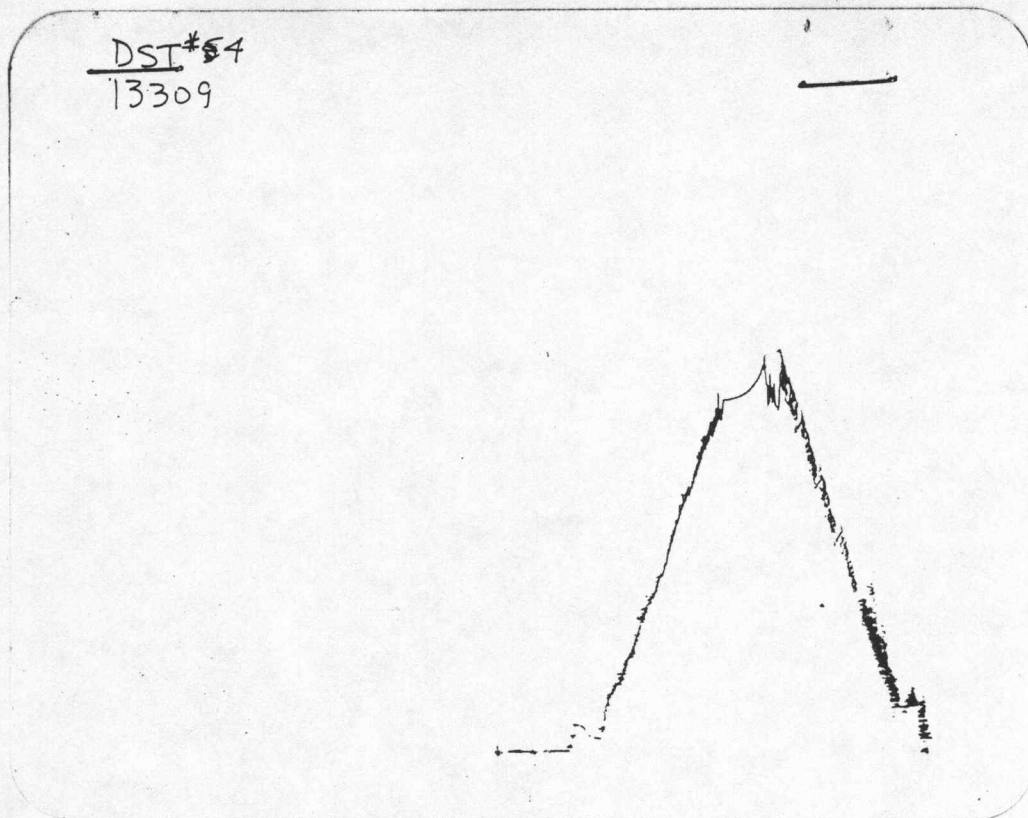
(E) Second Initial Flow Pressure PSI AK1 Recorder No. 13615 Range 4575

(F) Second Final Flow Pressure PSI @ (depth) 4611 w/Clock No. N/A

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

(H) Final Hydrostatic Mud 2121.6 PSI Initial Shut-in Final Shut-in

Our Representative ROD STEINBRINK/ DANNY MORGAN TOTAL PRICE \$ 1765



POINT

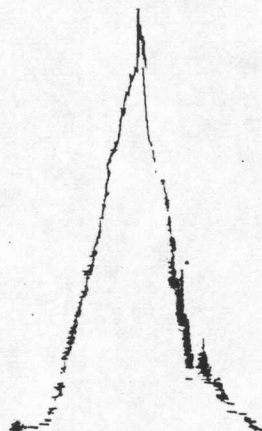
This is an actual photograph of recorder chart
PRESSURE

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

DST#4
13615



POINT This is an actual photograph of recorder chart
PRESSURE

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2208	2211.7
(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	2118	2121.6

TRILOBITE TESTING COMPANY

, L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4594 Date 4/3/92
Company Name HELMERICH & PAYNE INC
Lease FEIGHT A-2 Test No. 4
County HASKELL Sec. 27 Twp. 29S Rng. 33W

SAMPLER RECOVERY

Gas _____ ML Chlorides _____ ppm.
Oil _____ ML Resistivity _____ ohms @ _____ F
Mud _____ ML Viscosity 45
Water _____ ML Mud Weight 9.2
Other _____ ML Filtrate 10.4
Pressure _____ PSI Other _____
Total _____ ML _____

PIT MUD ANALYSIS

SAMPLER ANALYSIS

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

PIPE RECOVERY

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4593 Date 4-3-92
Company Name Helmerick & Payne, Inc. Cont. Cheyenne #3
Lease Feight #A-2 Test No. 3 Lansing 'F'
County Haskell KS. Sec. 27 Twp. 29 S Rng. 33

SAMPLER RECOVERY

Gas — ML
Oil — ML
Mud 3,500 ML
Water — ML
Other — ML
Pressure — PSI
Total 3,500 ML

PIT MUD ANALYSIS

Chlorides 1,800 ppm.
Resistivity — ohms @ — F
Viscosity 45
Mud Weight 9.2
Filtrate 10.4
Other —

SAMPLER ANALYSIS

Resistivity .84 ohms @ 80° F
Chlorides 6,400 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .78 ohms @ 77° F
Chlorides 6,800 ppm.

MIDDLE

Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM

Resistivity .84 ohms @ 80° F
Chlorides 6,400 ppm.

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4594

Well Name & No.	Feight #A-2		Test No.	54	Date	4.3.92
Company	Helmerich & Payne, Inc.		Zone Tested	Lansing 'F'		
Address	P.O. Box 558 Garden City, KS 67846		Elevation			
Co. Rep./Geo.	Steve Simonton	cont.	Cheyenne #3	Est. Ft. of Pay	3'	
Location: Sec.	27	Twp.	29 S	Rge.	33 W	Co. Haskell State KS.
No. of Copies	8	Distribution Sheet	Yes	No	Turnkey	Yes X No NO Evaluation

Interval Tested	4404 - 4453	Drill Pipe Size	4 1/2" FH
Anchor Length	49'	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	4397 - 4404	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4453	Wt. Pipe I.D. — 2.7 Ft. Run	
Total Depth	5720 (RTD) Hook @ 4483	Drill Collar — 2.25 Ft. Run	380' (4 1/2" x H)
Mud Wt.	9.2 lb/gal.	Viscosity	45
Tool Open @	8:50 am	Filtrate	10.4
Initial Blow	Hook wouldn't set, tried F/30 mins No help.		
Final Blow			

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. — Feet Of	%gas	%oil
Rec. — Feet Of	%gas	%oil
Rec. — Feet Of	%gas	%oil
Rec. — Feet Of	%gas	%oil
Rec. — Feet Of	%gas	%oil

BHT 113° °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1,800 ppm System

(A) Initial Hydrostatic Mud 2208 PSI AK1 Recorder No. 10332 Range 4050

(B) First Initial Flow Pressure PSI @ (depth) 4408 w/Clock No. 21058

(C) First Final Flow Pressure PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-In Pressure PSI @ (depth) 4448 w/Clock No. 27566

(E) Second Initial Flow Pressure PSI AK1 Recorder No. 13615 Range 4575

(F) Second Final Flow Pressure PSI @ (depth) 4611 w/Clock No.

(G) Final Shut-In Pressure PSI Initial Opening — Test Misrun 400.00

(H) Final Hydrostatic Mud 2118 PSI Initial Shut-In — Jars X 200.00

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Final Flow — Safety Joint X 50.00

Final Shut-In — Straddle X 250.00

Circ. Sub X N/C

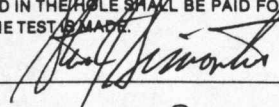
Sampler X 200.00 n/c

Extra Packer X 150.00

SHALE PACKER X 215.00 n/c

Other Hookwall X 300.00

TOTAL PRICE \$ 1,765.00

Approved By 

Our Representative Rod Steinbrink