

Computer Inventoried

API #15-055-21388

Yeiser C-1
Drill Stem Tests

DST #1 Marmaton 4572-4603

IH - 2083

IFP - 20# to 20#

ISIP - 322#

FFP - 31# to 31#

FSIP - 539#

FH - 2073#

Recovery: 70' SOCM.

DST #2 Morrow 4866-4955

IH - 2273

IFP - 20# to 20#

ISIP - 52#

FFP - 20# to 20#

FSIP - 41#

FH - 2243

Recovery: 60' mud

DST #3 St. Louis C 5134'-5177

IH - 2533

IFP - 93 to 93

ISIP - 1120#

FFP - 114#

FSIP - 1120#

FH - 2483

Recovery: 60' SOPM
60' SOCM

COPY

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name YEISER #C-1 Test No. 1 Date 2/3/95
Company HELMRICH & PAYNE, INC. Zone MARMATON
Address P O BOX 558, GARDEN CITY, KS 67848 Elevation 3003
Co. Rep./Geo. MICK LOVELADY/A. GARNER Cont. CHEYENNE #7 Est. Ft. of Pay _____
Location: Sec. 17 Twp. 26S Rge. 34W Co. FINNEY State KS

Interval Tested 4572-4603 Drill Pipe Size 4.5" XH
Anchor Length 31 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4567 Drill Collar - 2.25 Ft. Run 740
Bottom Packer Depth 4572 Mud Wt. 9 lb/Gal.
Total Depth 4603 Viscosity 49 Filtrate 12

Tool Open @ 8:20AM Initial Blow WEAK SURFACE BLOW, BUILT TO 3 INCHES.

Final Blow WEAK SURFACE BLOW, STEADY THROUGHOUT.

Recovery - Total Feet 70 Flush Tool? NO

Rec. 70 Feet of SLIGHTLY OIL SPOTTED MUD. TRACE OIL; 100% MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 1.2 @ 70 °F Chlorides 5000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 2111.20 PSI AK1 Recorder No. 2341 Range _____

(B) First Initial Flow Pressure 37.40 PSI @ (depth) 4577 w / Clock No. _____

(C) First Final Flow Pressure 37.40 PSI AK1 Recorder No. 13276 Range 4000

(D) Initial Shut-in Pressure 346.20 PSI @ (depth) 4593 w / Clock No. 17640

(E) Second Initial Flow Pressure 47.80 PSI AK1 Recorder No. 13339 Range 4025

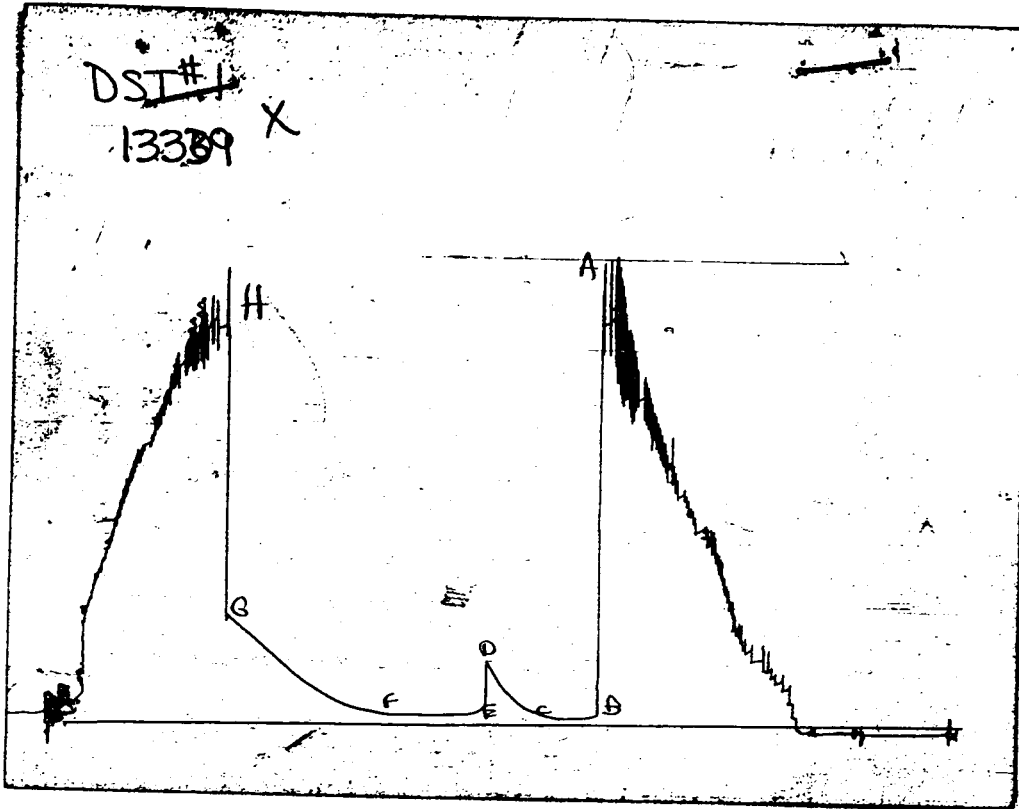
(F) Second Final Flow Pressure 47.80 PSI @ (depth) 4598 w / Clock No. 23934

(G) Final Shut-in Pressure 550.20 PSI Initial Opening 20 Final Flow 60

(H) Final Hydrostatic Mud 2048.10 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2083	2111.20
(B) FIRST INITIAL FLOW PRESSURE	20	37.40
(C) FIRST FINAL FLOW PRESSURE	20	37.40
(D) INITIAL CLOSED-IN PRESSURE	322	346.20
(E) SECOND INITIAL FLOW PRESSURE	31	47.80
(F) SECOND FINAL FLOW PRESSURE	31	47.80
(G) FINAL CLOSED-IN PRESSURE	539	550.20
(H) FINAL HYDROSTATIC MUD	2073	2048.10

FLUID SAMPLER DATA

Ticket No.: 7699

Date: 2/3/95

Company: HELMRICH & PAYNE, INC.

Lease: YEISER #C-1

Test No.: 1

County: FINNEY

Sec.: 17

Twp.: 26S

Rng.: 34W

SAMPLER RECOVERY

Gas		ML
Oil	TRACE	ML
Mud	4000	ML
Water		ML
Other		ML
Pressure	20	PSI
TOTAL	4000	ML

SAMPLER ANALYSIS

Resistivity	1.2	ohms@	70	F
Chlorides	5000			ppm.
Gravity				corrected @60F

PIT MUD ANALYSIS

Chlorides	5000			
Resistivit	1.2	ohms@	70	F
Viscosity	49			
Mud Wt.	9			
Filtrate	12			
Other	LCM 2"/BBL			

PIPE RECOVERY

TOP

Resistivit	ohms@	F
Chlorides		ppm.

MIDDLE

Resistivit	ohms@	F
Chlorides		ppm.

BOTTOM

Resistivit	1.2	ohms@	70	F
Chlorides	5000			ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7699

Well Name & No.	Yeiser #C-1	Test No.	1	Date	2-3-95
Company	Helmrich & Payne, Inc.	Zone Tested	Marmaton		
Address	P.O. Box 558 Garden City, KS 67846	Elevation	EST. 3003 (KB)		
Co. Rep./Geo.	Mick Lovelady/A. Garner	Cont.	Cheyenne #7	Est. Ft. of Pay	
Location: Sec.	17	Twp.	26 ^S	Rge.	34 ^W
		Co.	Finney	State	KS.
No. of Copies	4	Distribution Sheet	X	Yes	No
		Turnkey	Yes	X	No
		Evaluation			

Interval Tested	4572 - 4603	Drill Pipe Size	4 1/2" XH
Anchor Length	31'	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	4567	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4572	Wt. Pipe I.D. — 2.7 Ft. Run	—
Total Depth	4603	Drill Collar — 2.25 Ft. Run	740'
Mud Wt.	9.0 LCM 2# lb/bbl.	Viscosity	49
		Filtrate	12.0
Tool Open @	8:20 pm	Initial Blow	Weak surface blow built to 3"

Final Blow Weak surface blow steady throughout.

Recovery — Total Feet 70' Feet of Gas in Pipe — Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	70'	Slightly Oil Spotted	%gas +rc	%oil	%water 100 %mud
Rec.	Feet Of	Mud	%gas	%oil	%water %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 114° °F Gravity — °API @ — °F Corrected Gravity — °API

RW 1.2 @ 70° °F Chlorides 5,000 ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud 2083 PSI Electronic Recorder No. 2341 Range —

(B) First Initial Flow Pressure 20 PSI @ (depth) 4577 w/Clock No. 276

(C) First Final Flow Pressure 20 PSI AK1 Recorder No. 13339 Range 4000

(D) Initial Shut-In Pressure 322 PSI @ (depth) 4593 w/Clock No. 17640

(E) Second Initial Flow Pressure 31 PSI AK1 Recorder No. 13339 Range 4025

(F) Second Final Flow Pressure 31 PSI @ (depth) 4598 w/Clock No. 23934

(G) Final Shut-In Pressure 539 PSI Initial Opening 20 Test 600

(H) Final Hydrostatic Mud 2073 PSI Initial Shut-In 60 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 120 Straddle —

Circ. Sub X N/C

Sampler X 200

Extra Packer —

Other —

TOTAL PRICE \$ 1050

Approved By Austin Garner

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7699 Date 2-3-95
Company Name Helmrich & Payne Cont. Cheyenne #7
Lease Yeiser #C-1 Test No. 1 Marmaton
County Finney KS Sec. 17 Twp. 26^s Rng. 34^w

SAMPLER RECOVERY

Gas — ML
Oil trc. ML
Mud 4,000 ML
Water — ML
Other — ML
Pressure 20[#] PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 5,000 ppm.
Resistivity 1.2 ohms @ 70° F
Viscosity 49
Mud Weight 9.0
Filtrate 12.0
Other LCM 2[#]/bbl.

SAMPLER ANALYSIS

Resistivity 1.2 ohms @ 70° F
Chlorides 5,000 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity 1.2 ohms @ 70° F
Chlorides 5,000 ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name YEISER #C-1 Test No. 2 Date 2/5/95
Company HELMRICH & PAYNE, INC. Zone MORROW
Address P O BOX 558, GARDEN CITY, KS 67846 Elevation 3003
Co. Rep./Geo. KEN JEHLIK/A. GARNER Cont. CHEYENNE #7 Est. Ft. of Pay _____
Location: Sec. 17 Twp. 26S Rge. 34W Co. FINNEY State KS

Interval Tested <u>4886-4955</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>69</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>4881</u>	Drill Collar - 2.25 Ft. Run <u>740</u>
Bottom Packer Depth <u>4886</u>	Mud Wt. <u>9</u> lb/Gal.
Total Depth <u>4955</u>	Viscosity <u>45</u> Filtrate <u>8.4</u>

Tool Open @ 6:25AM Initial Blow WEAK SURFACE BLOW, TUILT TO 1/2 INCH THEN DECREASED.

Final Blow NO RETURN BLOW.

Recovery - Total Feet 60 Flush Tool? NO

Rec. <u>60</u>	Feet of <u>DRILLING MUD. 100% MUD.</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2260.60 PSI AK1 Recorder No. 2341 Range _____

(B) First Initial Flow Pressure 37.90 PSI @ (depth) 4891 w / Clock No. _____

(C) First Final Flow Pressure 37.90 PSI AK1 Recorder No. 13276 Range 4000

(D) Initial Shut-in Pressure 73.30 PSI @ (depth) 4913 w / Clock No. 23832

(E) Second Initial Flow Pressure 37.90 PSI AK1 Recorder No. 13339 Range 4025

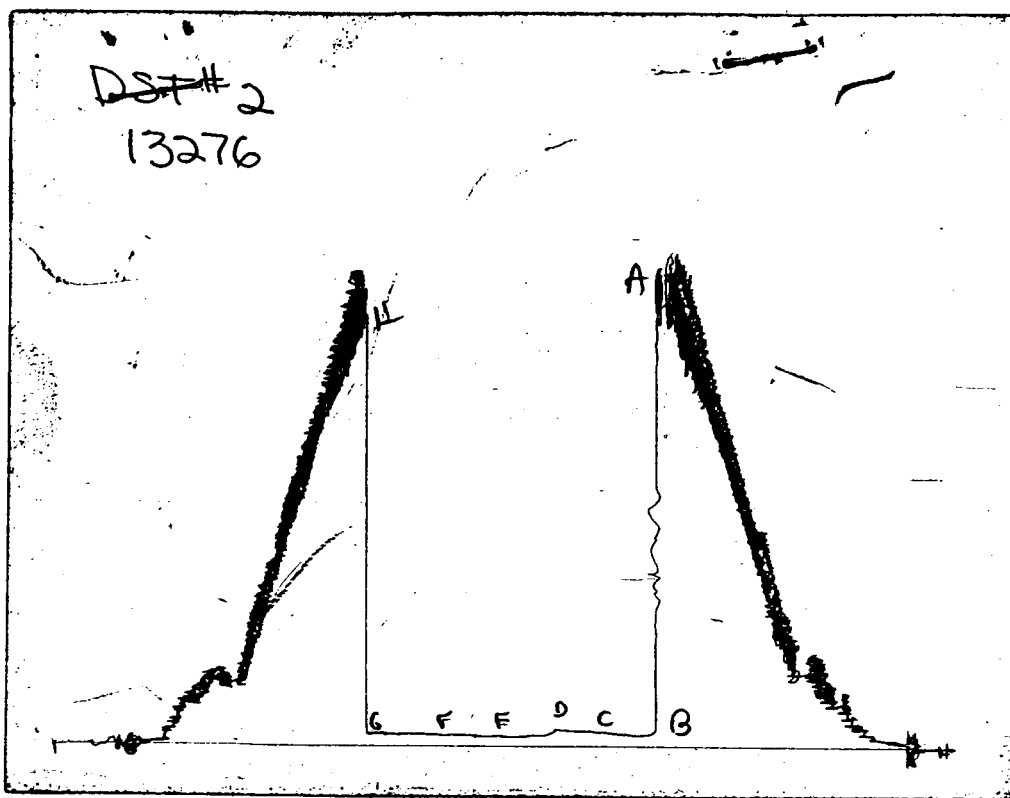
(F) Second Final Flow Pressure 37.90 PSI @ (depth) 4950 w / Clock No. 17640

(G) Final Shut-in Pressure 52.10 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 2218.70 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2273	2260.60
(B) FIRST INITIAL FLOW PRESSURE	20	37.90
(C) FIRST FINAL FLOW PRESSURE	20	37.90
(D) INITIAL CLOSED-IN PRESSURE	52	73.30
(E) SECOND INITIAL FLOW PRESSURE	20	37.90
(F) SECOND FINAL FLOW PRESSURE	20	37.90
(G) FINAL CLOSED-IN PRESSURE	41	52.10
(H) FINAL HYDROSTATIC MUD	2243	2218.70

FLUID SAMPLER DATA

Ticket No.: 7700

Date: 2/5/95

Company: HELMRICH & PAYNE, INC.

Lease: YEISER #C-1

Test No.: 2

County: FINNEY

Sec.: 17

Twp.: 26S

Rng.: 34W

SAMPLER RECOVERY

Gas ML

Oil ML

Mud 4000 ML

Water ML

Other ML

Pressure 10 PSI

TOTAL 4000 ML

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides 5000 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 5000

Resistivit ohms@ F

Viscosity 45

Mud Wt. 9

Filtrate 8.4

Other LCM 2"/BBL

PIPE RECOVERY

TOP

Resistivit ohms@ F

Chlorides ppm.

MIDDLE

Resistivit ohms@ F

Chlorides ppm.

BOTTOM

Resistivit ohms@ F

Chlorides ppm.

Test Ticket

No 7700

Well Name & No.	Yeiser #C-1	Test No.	2	Date	2-5-95
Company	Helmrich & Payne, Inc.	Zone Tested	Morrow		
Address	P.O. Box 558 Garden City, KS. 67846	Elevation	EST. 3003 (KB)		
Co. Rep./Geo.	Ken Jehlik / A. Garner	Cont.	Cheyenne #7	Est. Ft. of Pay	
Location: Sec.	17	Twp.	26 ^S	Rge.	34 ^W
		Co.	Finney	State	KS.
No. of Copies	4	Distribution Sheet	Yes ☒ No ☐	Turnkey	Yes ☒ No ☐
		Evaluation			

Interval Tested	4886 - 4955	Drill Pipe Size	4 1/2" KH
Anchor Length	69'	Top Choke — 1"	Bottom Choke — 1/4"
Top Packer Depth	4881	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4886	Wt. Pipe I.D. — 2.7 Ft. Run	—
Total Depth	4955	Drill Collar — 2.25 Ft. Run	740'
Mud Wt.	9.0 LCM 2# lb/bbl.	Viscosity	45
		Filtrate	8.4
Tool Open @	6:25 am	Initial Blow	Weak surface blow built to 1/2" then decreased

Final Blow No return blow.

Recovery — Total Feet	60'	Feet of Gas In Pipe	—	Flush Tool?	No
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	60' Feet Of	Drilg. Mud	— %gas	— %oil	— %water 100 %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
BHT	120°	°F Gravity	—	°API @	—
RW	@	°F Chlorides	—	ppm Recovery	Chlorides 4,000 ppm System
(A) Initial Hydrostatic Mud	2273	PSI	Elec. Recorder No. 2341	Range	—
(B) First Initial Flow Pressure	20	PSI @ (depth)	4891	w/Clock No.	—
(C) First Final Flow Pressure	20	PSI AK1 Recorder No.	13276	Range	4000
(D) Initial Shut-In Pressure	52	PSI @ (depth)	4913	w/Clock No.	23832
(E) Second Initial Flow Pressure	20	PSI AK1 Recorder No.	13339	Range	4025
(F) Second Final Flow Pressure	20	PSI @ (depth)	4950	w/Clock No.	17640
(G) Final Shut-In Pressure	41	PSI Initial Opening	15	Test	600
(H) Final Hydrostatic Mud	2243	PSI Initial Shut-In	60	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.

Approved By Arthur P. ChutkanOur Representative Rod Steinbrink

Printcraft Printers - Hays, KS

Final Flow	45	Safety Joint	X 50
Final Shut-In	90	Straddle	—
		Circ. Sub	X n/c
		Sampler	X 200
		Extra Packer	—
		Other	—
		TOTAL PRICE \$	1050

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7700 Date 2-5-95
Company Name Helmrich & Payne Cont. Cheyenne #7
Lease Yeiser #C-1 Test No. 2 Morrow
County Finney KS. Sec. 17 Twp. 26S Rng. 34W

SAMPLER RECOVERY

Gas - ML
Oil - ML
Mud 4,000 ML
Water - ML
Other - ML
Pressure 10* PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 4,000 ppm.
Resistivity - ohms @ - F
Viscosity 45
Mud Weight 9.0
Filtrate 8.4
Other L.C.M 2#/bbl.

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.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name YEISER #C-1 Test No. 3 Date 2/6/95
Company HELMRICH & PAYNE, INC. Zone ST. LOUIS
Address P O BOX 558, GARDEN CITY, KS 67846 Elevation 3003
Co. Rep./Geo. KEN JEHLIK/A. GARNER Cont. CHEYENNE #7 Est. Ft. of Pay _____
Location: Sec. 17 Twp. 26S Rge. 34W Co. FINNEY State KS

Interval Tested <u>5134-5177</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>43</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>5129</u>	Drill Collar - 2.25 Ft. Run <u>740</u>
Bottom Packer Depth <u>5134</u>	Mud Wt. <u>9</u> lb/Gal.
Total Depth <u>5177</u>	Viscosity <u>58</u> Filtrate <u>8</u>

Tool Open @ 5:50PM Initial Blow WEAK SURFACE BLOW STEADY THROUGHOUT.

Final Blow WEAK SURFACE, RETURN IN 15 MINUTES, STEADY THROUGHOUT.

Recovery - Total Feet 120 Flush Tool? NO

Rec. <u>60</u>	Feet of <u>SLIGHTLY OIL SPOTTED MUD. TRACE OIL. 100% MUD.</u>
Rec. <u>60</u>	Feet of <u>OIL CUT MUD. 10% OIL; 90% OIL.</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3300 ppm System

(A) Initial Hydrostatic Mud 2533.60 PSI AK1 Recorder No. 13276 Range 4025

(B) First Initial Flow Pressure 91.50 PSI @ (depth) 5167 w / Clock No. 23832

(C) First Final Flow Pressure 91.50 PSI AK1 Recorder No. 13339 Range 4000

(D) Initial Shut-in Pressure 1120.40 PSI @ (depth) 5172 w / Clock No. 17640

(E) Second Initial Flow Pressure 119.60 PSI AK1 Recorder No. _____ Range _____

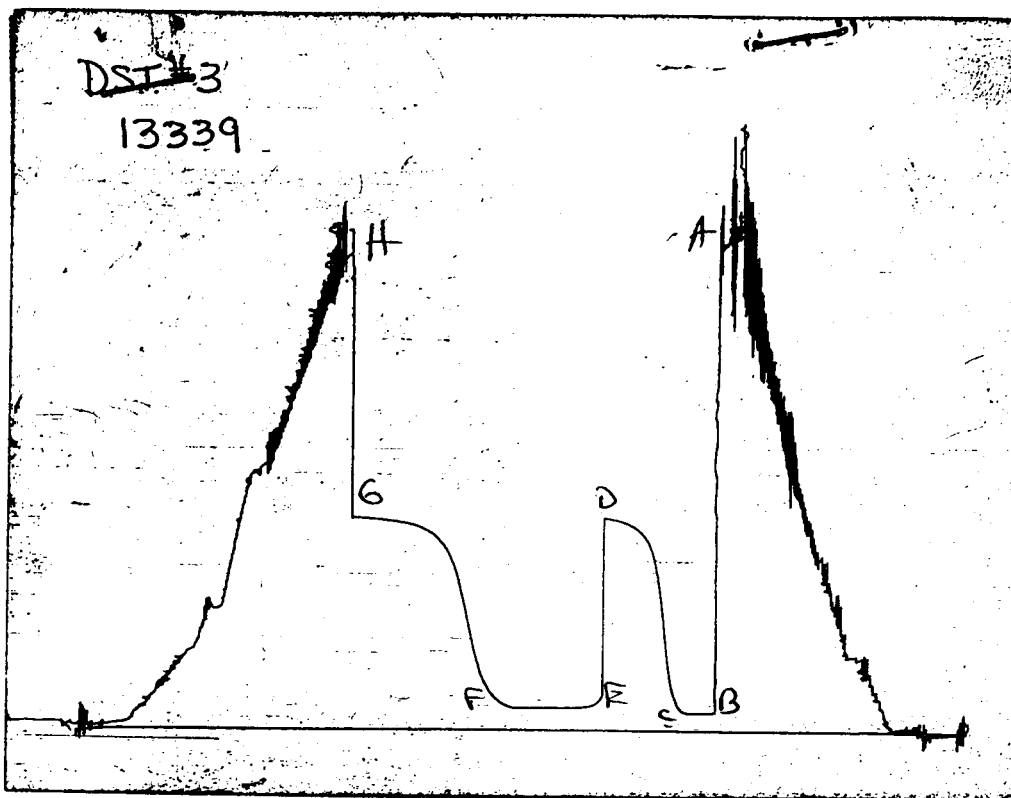
(F) Second Final Flow Pressure 119.60 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1118.40 PSI Initial Opening 20 Final Flow 60

(H) Final Hydrostatic Mud 2483.80 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2533	2533.60
(B) FIRST INITIAL FLOW PRESSURE	93	91.50
(C) FIRST FINAL FLOW PRESSURE	93	91.50
(D) INITIAL CLOSED-IN PRESSURE	1120	1120.40
(E) SECOND INITIAL FLOW PRESSURE	114	119.60
(F) SECOND FINAL FLOW PRESSURE	114	119.60
(G) FINAL CLOSED-IN PRESSURE	1120	1118.40
(H) FINAL HYDROSTATIC MUD	2483	2483.80

FLUID SAMPLER DATA

Ticket No.: 7751

Date: 2/6/95

Company: HELMRICH & PAYNE, INC.

Lease: YEISER #C-1

Test No.: 3

County: FINNEY

Sec.: 17

Twp.: 26S

Rng.: 34W

SAMPLER RECOVERY

Gas ML

Oil 200 ML

Mud 3800 ML

Water ML

Other ML

Pressure 200 PSI

TOTAL 4000 ML

SAMPLER ANALYSIS

Resistivity 1.9 ohms@ 70 F

Chlorides 3300 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 3300

Resistivit ohms@ F

Viscosity 58

Mud Wt. 9

Filtrate 8

Other LCM 2"/BBL

PIPE RECOVERY

TOP

Resistivit ohms@ F

Chlorides ppm.

MIDDLE

Resistivit ohms@ F

Chlorides ppm.

BOTTOM

Resistivit 1.9 ohms@ 70 F

Chlorides 3300 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7751

Well Name & No. <u>Yeiser #C-1</u>	Test No. <u>3</u>	Date <u>2-6-95</u>
Company <u>Helmrich & Payne, Inc.</u>	Zone Tested <u>St. Louis</u>	
Address <u>P.O. Box 55B Garden City, KS. 67846</u>	Elevation <u>EST. 3003 (KB)</u>	
Co. Rep./Geo. _____	Cont. <u>Cheyenne #7</u>	Est. Ft. of Pay _____
Location: Sec. <u>17</u>	Twp. <u>26^S</u>	Rge. <u>34^W</u>
Co. <u>Finney</u>	State <u>KS</u>	
No. of Copies <u>4</u>	Distribution Sheet <u>X</u> Yes _____ No _____	Turnkey <u>X</u> Yes _____ No _____
Evaluation _____		

Interval Tested 5134 - 5177 Drill Pipe Size 4 1/2" XH
 Anchor Length 43' Top Choke — 1" Bottom Choke — 1/4"
 Top Packer Depth 5129 Hole Size — 77/8" Rubber Size — 63/4"
 Bottom Packer Depth 5134 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5177 Drill Collar — 2.25 Ft. Run 740'
 Mud Wt. 9.0 LCM 2# lb/bbl. Viscosity 58 Filtrate 8.0
 Tool Open @ 5:50 pm Initial Blow Weak surface blow steady throughout.

Final Blow Weak surface return in 15 mins steady throughout.

Recovery — Total Feet 120' Feet of Gas in Pipe _____ Flush Tool? No

Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. <u>60'</u>	Feet Of <u>Slightly Oil</u>	—	%gas <u>trc.</u>	%oil	%water <u>100</u> %mud
Rec. _____	Feet Of <u>Spotted Mud</u>	%gas	%oil	%water	%mud
Rec. <u>60'</u>	Feet Of <u>OCM</u>	—	%gas <u>10</u>	%oil	%water <u>90</u> %mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3,300 ppm System

(A) Initial Hydrostatic Mud 2533 PSI AK1 Recorder No. 13276 Range 4025

(B) First Initial Flow Pressure 93 PSI @ (depth) 5167 w/Clock No. 23832

(C) First Final Flow Pressure 93 PSI AK1 Recorder No. 13339 Range 4000

(D) Initial Shut-In Pressure 1120 PSI @ (depth) 5172 w/Clock No. 17640

(E) Second Initial Flow Pressure 114 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 114 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1120 PSI Initial Opening 20 Test 700

(H) Final Hydrostatic Mud 2483 PSI Initial Shut-In 60 Jars X 200

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Final Flow 60 Safety Joint X 50

Final Shut-In 120 Straddle _____

Circ. Sub X N/C

Sampler X 200

Extra Packer _____

Other _____

TOTAL PRICE \$ 1150

Approved By Mickey Smalley

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7751 Date 2-6-95
Company Name Helmrich & Payne Cont. Cheyenne #7
Lease Yeiser #C-1 Test No. 3 St. Louis
County Finney KS. Sec. 17 Twp. 26^S Rng. 34^W

SAMPLER RECOVERY

Gas _____ ML
Oil 200 ML
Mud 3800 ML
Water _____ ML
Other _____ ML
Pressure 200* PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,300 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 58
Mud Weight 9.0
Filtrate 8.0
Other LCM 2#/bbl.

SAMPLER ANALYSIS

Resistivity 1.9 ohms @ 70° F
Chlorides 3,300 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 1.9 ohms @ 70° F
Chlorides 3,300 ppm.