

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	LIPPOLDT #1-28	Test No.	1	Date	2/18/90
Company	HUGOTON ENERGY CORPORATION	Zone Tested	TOPEKA		
Address	229 EAST WILLIAM-SWT 500 WICHITA KS 67202	Elevation	3320 GL		
Co. Rep./Geo.	MR CARL OSTERBUHR	Cont.		Est. Ft. of Pay	0
Location: Sec.	28	Twp.	31S	Rge.	40W
		Co.	MORTON	State	KANSAS

Interval Tested	3085-3215	Drill Pipe Size	4.5" XH			
Anchor Length	130	Top Choke — 1"				
Top Packer Depth	3080	Bottom Choke — 3/4"				
Bottom Packer Depth	3085	Hole Size — 7 7/8"				
Total Depth	3215	Rubber Size — 6 3/4"				
Wt. Pipe I.D. — 2.7		Ft. Run	0			
Drill Collar — 2.25		Ft. Run	640			
Mud Wt.	9.1	lb./gal.	Viscosity	37	Filtrate	16.4
Tool Open @	12:05 AM	Initial Blow	FAIR TO GOOD BOTTOM OF BUCKET IN 2 MINUTES			

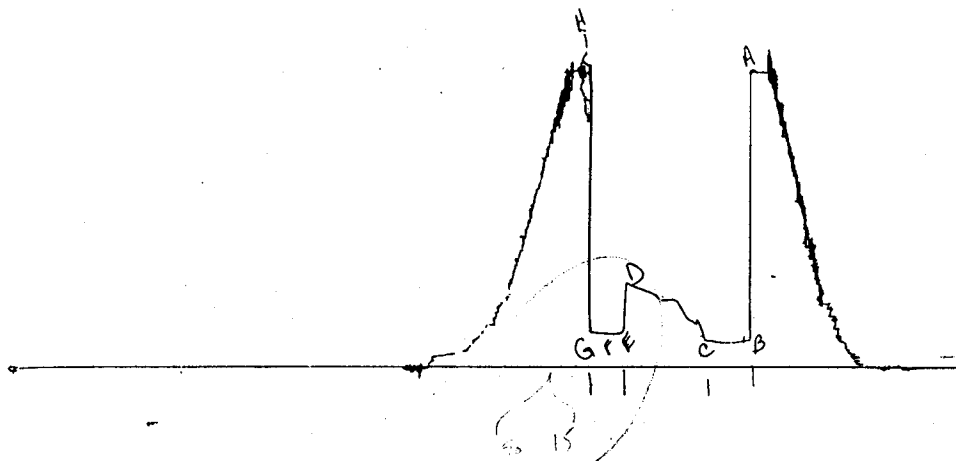
Flow Blow SAME AS INITIAL - GAS TO SURFACE 30 MINUTES INTO FINAL
FLOW

Recovery — Total Feet	360	Flush Tool?	NO						
Rec.	360	Feet of	GAS CUT MUD -- GAS TO SURFACE 30 MIN. INTO FINAL						
Rec.	0	Feet of	BLOW						
Rec.	0	Feet of							
Rec.	0	Feet of							
Rec.	0	Feet of							
BHT	103	°F	Gravity	°API @	0	°F	Corrected Gravity	0	°API
RW	@	°F	Chlorides	ppm	Recovery	Chlorides	1700	ppm	System
(A) Initial Hydrostatic Mud	1631.2	PSI	AK1 Recorder No.	5495	Range	7200			
(B) First Initial Flow Pressure	110.2	PSI	@ (depth)	3185	w/Clock No.	27566			
(C) First Final Flow Pressure	146.8	PSI	AK1 Recorder No.	13337	Range	3975			
(D) Initial Shut-In Pressure	484.2	PSI	@ (depth)	3215	w/Clock No.	8376			
(E) Second Initial Flow Pressure	151.6	PSI	Initial Opening	30					
(F) Second Final Flow Pressure	194.8	PSI	Initial Shut-In	60					
(G) Final Shut-In Pressure	581.2	PSI	Final Flow	45					
(H) Final Hydrostatic Mud	1631.2	PSI	Final Shut-In	90					

Our Representative MR HAROLD SCHMIDT

TOTAL PRICE \$ 650

Printcraft Printers - Hays, KS

DST# 1 RECORDER# 13337
#13337 TICKET # 2699 CLOCK STOPPED


This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1626	1631.2	PSI
(B) First Initial Flow Pressure.....	101	110.2	PSI
(C) First Final Flow Pressure.....	134	146.8	PSI
(D) Initial Closed-In Pressure.....	472	484.2	PSI
(E) Second Initial Flow Pressure.....	145	151.6	PSI
(F) Second Final Flow Pressure.....	189	194.8	PSI
(G) Final Closed-In Pressure.....	579	581.2	PSI
(H) Final Hydrostatic Mud.....	1626	1631.2	PSI

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Drill-Stem Test Data

Well Name & No. LIPPOLDT #1-28 Test No. 2 Date 2/22/90
Company HUGOTON ENERGY CORPORATION Zone Tested MORROW
Address 229 EAST WILLIAM SW 500 WICHITA KS 67202 Elevation 3320 GL
Co. Rep./Geo. MR CARL OSTERBUHR Cont. MURFIN DRLG #22 Est. Ft. of Pay 0
Location: Sec. 28 Twp. 31S Rge. 40W Co. MORTON State KANSAS

Interval Tested 4837-4942 Drill Pipe Size 4.5" XH
Anchor Length 105 Top Choke — 1" _____
Top Packer Depth 4832 Bottom Choke — 3/4" _____
Bottom Packer Depth 4837 Hole Size — 7 7/8" _____
Total Depth 4942 Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____ Ft. Run 0
Drill Collar — 2.25 _____ Ft. Run 640
Mud Wt. 9.2 lb./gal. Viscosity 48 Filtrate 8.3
Tool Open @ 5:50 AM Initial Blow VERY GOOD - BOTTOM OF BUCKET IN 1 MINUTE -
GAS TO SURFACE IN 5 MINUTES
Final Blow VERY GOOD - SEE GAS VOLUME REPORT

Recovery — Total Feet 700 Flush Tool? NO
Rec. 340 Feet of GAS CUT MUD
Rec. 360 Feet of GAS CUT MUDDY WATER
Rec. 0 Feet of _____
Rec. 0 Feet of _____
Rec. 0 Feet of _____
BHT 120 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1100 ppm System
(A) Initial Hydrostatic Mud 2441.3 PSI AK1 Recorder No. 5495 Range 4200
(B) First Initial Flow Pressure 201.3 PSI @ (depth) 4937 w/Clock No. 27566
(C) First Final Flow Pressure 151.5 PSI AK1 Recorder No. 13337 Range 3975
(D) Initial Shut-In Pressure 410.2 PSI @ (depth) 4942 w/Clock No. 8376
(E) Second Initial Flow Pressure 220.2 PSI Initial Opening 30
(F) Second Final Flow Pressure 291.3 PSI Initial Shut-In 60
(G) Final Shut-In Pressure 410.2 PSI Final Flow 60
(H) Final Hydrostatic Mud 2441.3 PSI Final Shut-In 120

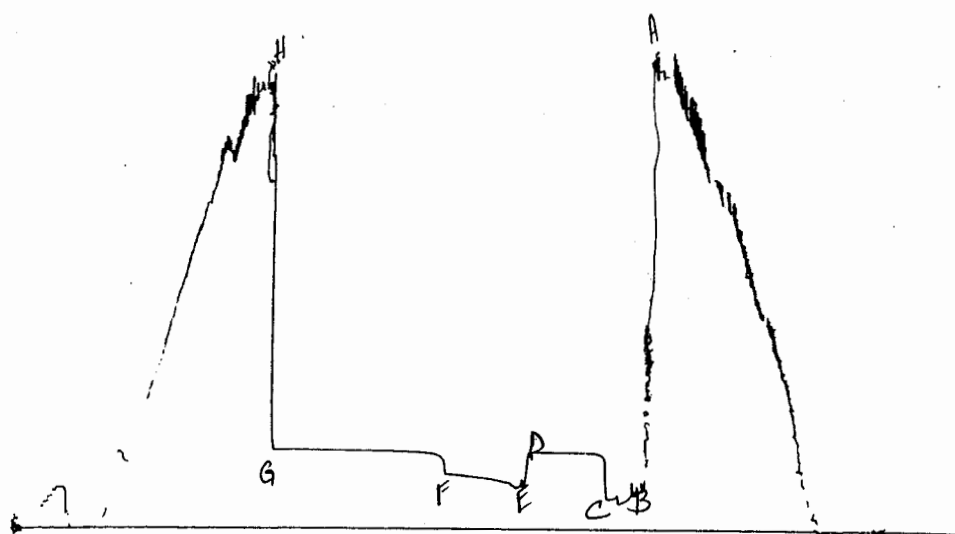
Our Representative MR HAROLD SCHMIDT

TOTAL PRICE \$ 750

Printcraft Printers - Hays, KS

RECORDER# 13337 DST# 2

#13337 TICKET # 2202



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	2436	2441.3 PSI
(B) First Initial Flow Pressure.....	197	201.3 PSI
(C) First Final Flow Pressure.....	148	151.5 PSI
(D) Initial Closed-in Pressure.....	405	410.2 PSI
(E) Second Initial Flow Pressure.....	217	220.2 PSI
(F) Second Final Flow Pressure.....	286	291.3 PSI
(G) Final Closed-in Pressure.....	405	410.2 PSI
(H) Final Hydrostatic Mud.....	2436	2441.3 PSI

TRILOBITE TESTING COMPANY

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FLUID SAMPLER DATA

Ticket No. 2702 Date 2/22/90
Company Name HUGOTON ENERGY CORPORATION
Lease LIPPOLDT #1-28 Test No. 2
County MORTON Sec. 28 Twp. 31S Rng. 40W

SAMPLER RECOVERY

Gas 0 ML
Oil 0 ML
Mud 0 ML
Water 4000 ML
Other 0 ML
Pressure 200 PSI
Total 0 ML

PIT MUD ANALYSIS

Chlorides 1100 ppm.
Resistivity 6 ohms @ 60 F
Viscosity 48
Mud Weight 9.2
Filtrate 8.3
Other _____

SAMPLER ANALYSIS

Resistivity .14 ohms @ 60 F
Chlorides 60000 ppm.
Gravity 0 corrected @ 80 F

PIPE RECOVERY

TOP
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.

MIDDLE

Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.

BOTTOM

Resistivity .14 ohms @ 60 F
Chlorides 60000 ppm.



GAS VOLUME REPORT

2
DST NO.

Remarks:

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	LIPPOLDT #1-28	Test No.	3	Date	2/23/90
Company	HUGOTON ENERGY CORPORATION	Zone Tested	MORROW		
Address	229 EAST WILLIAM SWT 500 WICHITA KS 67202	Elevation	3320 GL		
Co. Rep./Geo.	MR CARL OSTERBUHR	Cont.	MURFIN DRLG #22	Est. Ft. of Pay	38
Location: Sec.	28	Twp.	31S	Rge.	40W
		Co.	MORTON	State	KANSAS

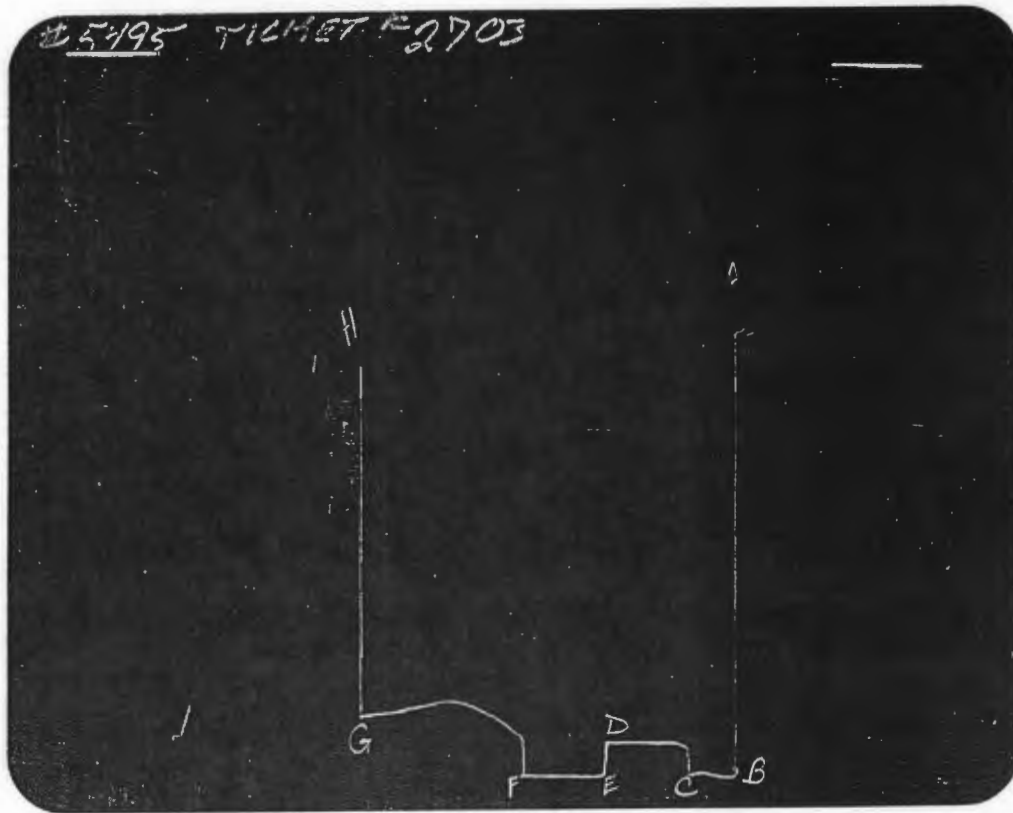
Interval Tested	5175-5213	Drill Pipe Size	4.5" XH
Anchor Length	38	Top Choke — 1"	
Top Packer Depth	5170	Bottom Choke — 3/4"	
Bottom Packer Depth	5175	Hole Size — 7 7/8"	
Total Depth	5213	Rubber Size — 6 3/4"	
Wt. Pipe I.D. — 2.7		Ft. Run	
Drill Collar — 2.25		Ft. Run	640
Mud Wt.	9.1	lb./gal.	Viscosity 47 Filtrate 8.0
Tool Open @	3:50 PM	Initial Blow	VERY GOOD-BOTTOM OF BUCKET IN 1 MINUTE - GAS TO SURFACE IN 25 MINUTES
Final Blow	VERY GOOD-SEE GAS VOLUME REPORT		

Recovery — Total Feet	60	Flush Tool?	NO
Rec.	60	Feet of	GAS CUT MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	132 °F	Gravity	°API @ 0 °F
RW	2.0 @ 50 °F	Chlorides	4000 ppm
		Recovery	Clorides 4000 ppm System
(A) Initial Hydrostatic Mud	2525.2	PSI	AK1 Recorder No. 5495 Range 4200
(B) First Initial Flow Pressure	23.2	PSI	@(depth) 5180 w/Clock No. 27566
(C) First Final Flow Pressure	61.3	PSI	AK1 Recorder No. 13337 Range 3975
(D) Initial Shut-In Pressure	248.7	PSI	@(depth) 5213 w/Clock No. 8376
(E) Second Initial Flow Pressure	61.3	PSI	Initial Opening 30
(F) Second Final Flow Pressure	74.8	PSI	Initial Shut-In 60
(G) Final Shut-In Pressure	401.2	PSI	Final Flow 60
(H) Final Hydrostatic Mud	2525.2	PSI	Final Shut-In 120

Our Representative MR HAROLD SCHMIDT

TOTAL PRICE..... \$ 750

Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	2521	2525.2
(B) First Initial Flow Pressure.....	22	23.2
(C) First Final Flow Pressure.....	55	51.3
(D) Initial Closed-in Pressure.....	244	245.7
(E) Second Initial Flow Pressure.....	55	51.5
(F) Second Final Flow Pressure.....	67	74.8
(G) Final Closed-in Pressure.....	330	401.2
(H) Final Hydrostatic Mud.....	2521	2525.2



GAS VOLUME REPORT

3

DST NO.

Remarks:

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2703 Date 2/23/90
Company Name HUGOTON ENERGY CORPORATION
Lease LIPPOLDT #1-28 Test No. 3
County MORTON Sec. 28 Twp. 31S Rng. 40W

SAMPLER RECOVERY

Gas 3950 ML
Oil 0 ML
Mud 50 ML
Water 0 ML
Other 0 ML
Pressure 400 PSI
Total 0 ML

PIT MUD ANALYSIS

Chlorides 4000 ppm.
Resistivity 1.9 ohms @ 55 F
Viscosity 47
Mud Weight 9.1
Filtrate 8.0
Other _____

SAMPLER ANALYSIS

Resistivity 2 ohms @ 50 F
Chlorides 4000 ppm.
Gravity 0 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
MIDDLE
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
BOTTOM
Resistivity 2.0 ohms @ 50 F
Chlorides 4,000 ppm.