TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #2-5 Test No. 1 Date 5/18/94

Company HUGOTON ENERGY CORP Zone TOR/LANS "A"

Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2949

Co. Rep./Geo. JOHN CHRISTIANSEN Cont. ALLEN DRLG RIG #1 Est. Ft. of Pay 10

Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested	4128-4192	Drill Pipe Size	4.5" XH
Anchor Length	64	Wt. Pipe I.D. - 2.7 Ft. Run	
Top Packer Depth	4123	Drill Collar – 2.25 Ft. Run	60
Bottom Packer Depth	4128	Mud Wt.	8.8 lb/Gal.
Total Depth	4192	Viscosity 48	Filtrate 8

Tool Open @ 3:50 PM Initial Blow WEAK BLOW-BUILT TO BOTTOM OF BUCKET IN 10 MINUTES

ISI: BLED OFF BLOW-SURFACE BLOW THROUGHOUT SHUTIN

Final Blow WEAK BLOW-BUILT TO BOTTOM OF BUCKET IN 13 MINUTES

FSI: BLED OFF BLOW-SURFACE BLOW THROUGHOUT SHUTIN

Recovery - Total Feet 460 Flush Tool? NO

Rec.	90	Feet of	GAS IN PIPE
Rec.	270	Feet of	OIL & GAS CUT MUD- 5% GAS/ 4% OIL/ 91% MUD
Rec.	190	Feet of	SALT WATER (MUDDY)-88% WATER/ 12% MUD
Rec.		Feet of	
Rec.		Feet of	

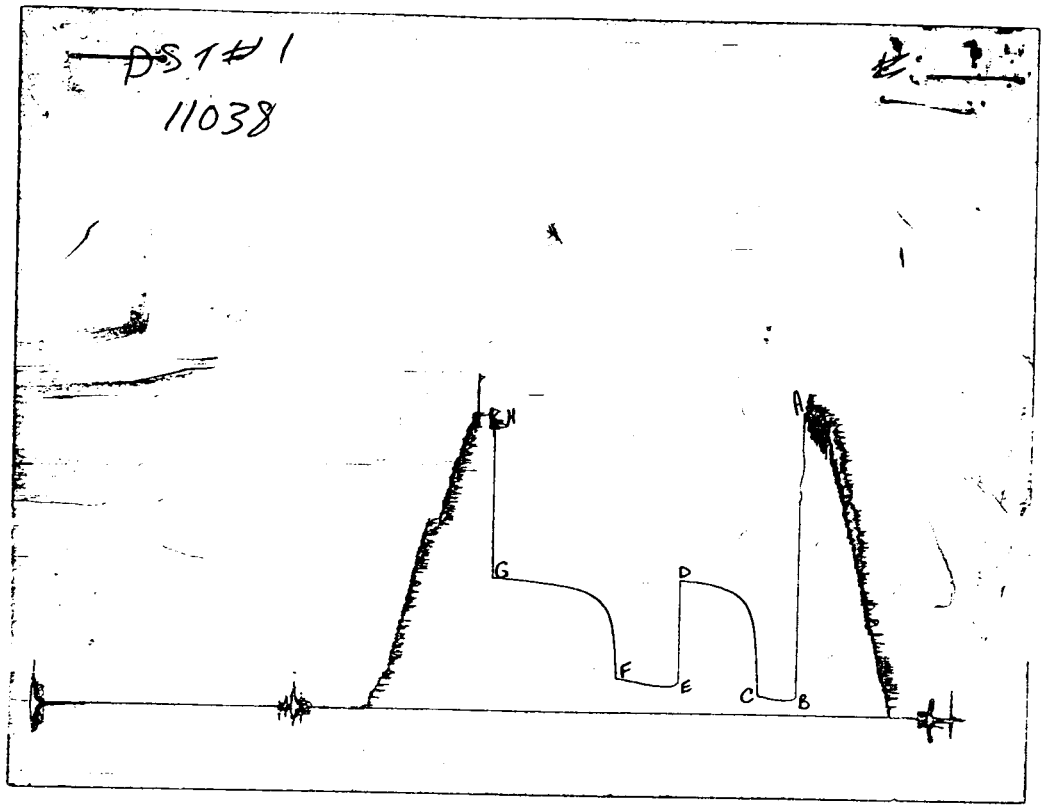
BHT 117 °F Gravity °API @ °F Corrected Gravity °API

RW 0.128 @ 71 °F Chlorides 59000 ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud	2055.2 PSI	AK1 Recorder No.	13615	Range	4575
(B) First Initial Flow Pressure	117.4 PSI	@ (depth)	4163	w / Clock No.	25813
(C) First Final Flow Pressure	132.2 PSI	AK1 Recorder No.	11038	Range	5075
(D) Initial Shut-in Pressure	911.7 PSI	@ (depth)	4189	w / Clock No.	25814
(E) Second Initial Flow Pressure	196.9 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	243.7 PSI	@ (depth)		w / Clock No.	
(G) Final Shut-in Pressure	909.2 PSI	Initial Opening	30	Final Flow	45
(H) Final Hydrostatic Mud	2014.3 PSI	Initial Shut-in	60	Final Shut-in	90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart #11038

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2017	2055.2
(B) FIRST INITIAL FLOW PRESSURE	95	117.4
(C) FIRST FINAL FLOW PRESSURE	122	132.2
(D) INITIAL CLOSED-IN PRESSURE	906	911.7
(E) SECOND INITIAL FLOW PRESSURE	176	196.9
(F) SECOND FINAL FLOW PRESSURE	230	243.7
(G) FINAL CLOSED-IN PRESSURE	893	909.2
(H) FINAL HYDROSTATIC MUD	1978	2014.3

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #2-5 Test No. 2 Date 5/20/94

Company HUGOTON ENERGY CORP Zone KS CITY "A"

Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2949

Co. Rep./Geo. JOHN CHRISTIANSEN Cont. ALLEN DRLG RIG #1 Est. Ft. of Pay 7

Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 4578-4618 Drill Pipe Size 4.5" XH

Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4573 Drill Collar – 2.25 Ft. Run 60

Bottom Packer Depth 4578 Mud Wt. 9 lb/Gal.

Total Depth 4618 Viscosity 50 Filtrate 8.4

Tool Open @ 4:50 AM Initial Blow STRONG BLOW-BOTTOM OF BUCKET IN 1 MINUTE

ISI: BLED OFF BLOW-NO BLOW BACK

Final Blow STRONG BLOW-BOTTOM OF BUCKET IN 1 MINUTE

GAS TO SURFACE IN 9 MINUTES-GAUGED @5.32

Recovery - Total Feet 430 Flush Tool? NO

Rec. 355 Feet of GSY OIL CUT MUD- 85% GAS/3%OIL/2%WTR/10%MUD

Rec. 75 Feet of GSY MUD CUT WTR- 10% GAS/ 60% WTR/ 30% MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

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

RW 0.114 @ 81 °F Chlorides 69000 ppm Recovery Chlorides 2900 ppm System

(A) Initial Hydrostatic Mud 2266.0 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 84.9 PSI @ (depth) 4584 w / Clock No. 25813

(C) First Final Flow Pressure 91.7 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 899.1 PSI @ (depth) 4615 w / Clock No. 25814

(E) Second Initial Flow Pressure 164.6 PSI AK1 Recorder No. Range

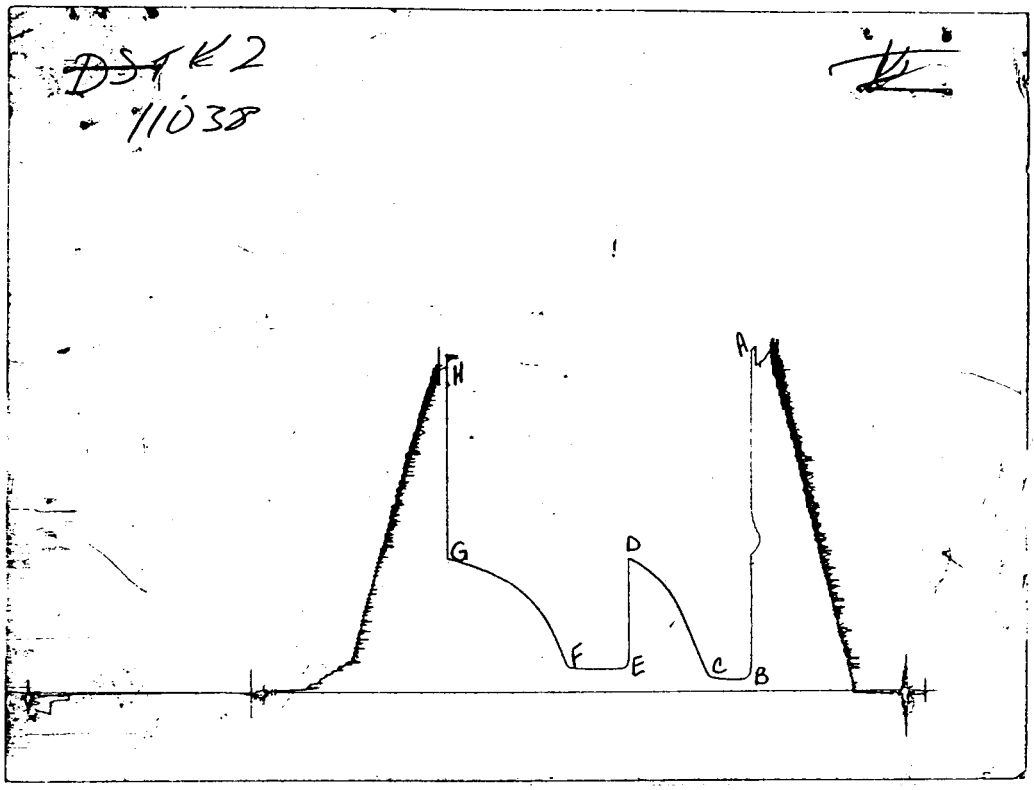
(F) Second Final Flow Pressure 164.6 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 900.3 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2208.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart #11038

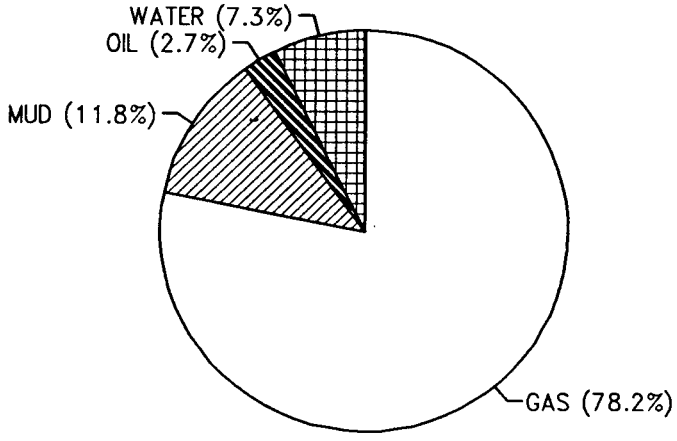
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2246	2266
(B) FIRST INITIAL FLOW PRESSURE	82	84.9
(C) FIRST FINAL FLOW PRESSURE	82	91.7
(D) INITIAL CLOSED-IN PRESSURE	893	899.1
(E) SECOND INITIAL FLOW PRESSURE	163	164.6
(F) SECOND FINAL FLOW PRESSURE	176	164.6
(G) FINAL CLOSED-IN PRESSURE	881	900.3
(H) FINAL HYDROSTATIC MUD	2144	2208.4

CALCULATED RECOVERY ANALYSIS

DST 2 TICKET # 7008

SAMPLE #	TOTAL FEET	%	GAS FEET	%	OIL FEET	%	WATER FEET	%	MUD FEET
DRILL 1	355	85	301.75	3	10.65	2	7.1	10	35.5
PIPE 2	15	10	1.5	0	0	60	9	30	4.5
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	60	10	6	0	0	60	36	30	18
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	430		309.25		10.65		52.1		58

			HRS OPEN	BBL/DAY
BBL OIL=	0.151443	*	1.25	2.9077056
BBL WATER=	0.404982	*		7.7756544
BBL MUD=	0.65682			
BBL GAS =	4.341555			



GAS VOLUME REPORT

HUGOTON ENERGY CORP

GASKILL #2-5 DST # 2

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
				10	10	0.25	5.32
				20	9	0.25	5.05
				30	10	0.25	5.32
				40	10	0.25	5.32
				45	10	0.25	5.32

Remarks: GAS TO SURFACE IN 9 MINUTES/GAS WILL BURN

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number:	940263	Analyzed:	05/20/94
Sample From:	Gaskill # 2-5 DST 2	Pressure:	
Producer:	Hugoton Energy Corp.	Temperature:	
Date:		Location:	5-31-33W
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	K. C. "A"

		Mole %	GPM
Helium	He:		0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	5.054	0.000
Carbon Dioxide	CO2:	0.000	0.000
Methane	C1:	51.720	0.000
Ethane	C2:	14.108	3.773
Propane	C3:	15.821	4.359
Iso Butane	iC4:	2.373	0.776
Normal Butane	nC4:	5.881	1.854
Iso Pentane	iC5:	1.356	0.496
Normal Pentane	nC5:	1.474	0.534
Hexanes Plus	C6+:	2.213	0.965
	TOTAL:	100.000	12.759
	Z Fact:	0.9927	
	SP.GR.:	1.0376	
	BTU (SAT):	1652.8 @ 14.73 psia	
	BTU (DRY):	1682.0 @ 14.73 psia	
	OCTANE RATING:	107.1	

COMMENTS: Sample entered under vacuum
Insufficient pressure for Helium analysis

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Hugoton Energy Corp. (OPERATOR) | Gaskill #2-5 (WELL NAME AND NO.) | 2 (DST NO.)

2nd open

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
				10	10	1/4	5.32
				20	9	1/4	5.05
				30	10	1/4	5.32
				40	10	1/4	5.32
				45	10	1/4	5.32

Remarks: GTS in 9 min.
Gas will burn.

01 NCR

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #2-5 Test No. 3 Date 5/21/94

Company HUGOTON ENERGY CORP Zone MARMATON

Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2949

Co. Rep./Geo. JOHN CHRISTIANSEN Cont. ALLEN DRLG RIG #1 Est. Ft. of Pay

Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 4767-4810 Drill Pipe Size 4.5" XH

Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4762 Drill Collar – 2.25 Ft. Run 60

Bottom Packer Depth 4767 Mud Wt. 9 lb/Gal.

Total Depth 4810 Viscosity 44 Filtrate 8.8

Tool Open @ 8:05 AM Initial Blow 1/2" BLOW BUILT TO 2"

ISI: NO BLOW BACK

Final Blow NO BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE

Rec. 30 Feet of GAS CUT DRILLING MUD WITH RAINBOW OIL

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 125 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 3300 ppm System

(A) Initial Hydrostatic Mud 2290.3 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 86.2 PSI @ (depth) 4774 w / Clock No. 25813

(C) First Final Flow Pressure 49.6 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 347.5 PSI @ (depth) 4807 w / Clock No. 25814

(E) Second Initial Flow Pressure 75.4 PSI AK1 Recorder No. Range

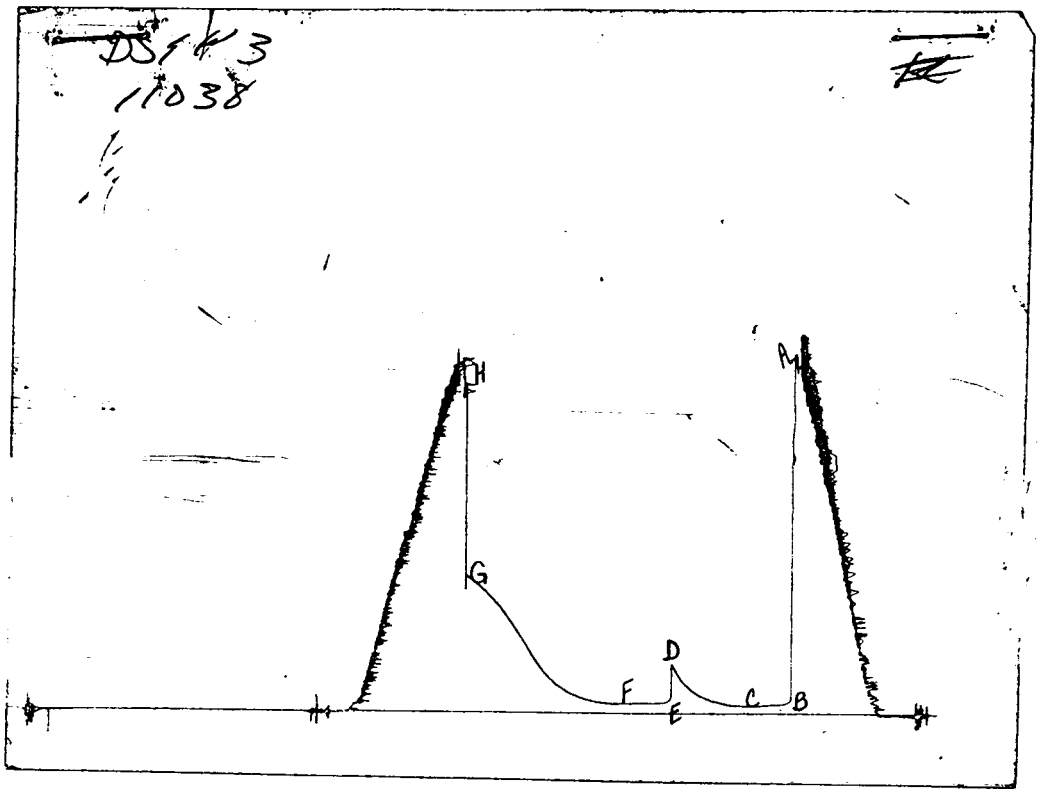
(F) Second Final Flow Pressure 65.9 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 921.8 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2285.2 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart #11038

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2298	2290.3
(B) FIRST INITIAL FLOW PRESSURE	55	86.2
(C) FIRST FINAL FLOW PRESSURE	55	49.6
(D) INITIAL CLOSED-IN PRESSURE	336	347.5
(E) SECOND INITIAL FLOW PRESSURE	68	75.4
(F) SECOND FINAL FLOW PRESSURE	68	65.9
(G) FINAL CLOSED-IN PRESSURE	906	921.8
(H) FINAL HYDROSTATIC MUD	2274	2285.2

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #2-5 Test No. 4 Date 5/23/94

Company HUGOTON ENERGY CORP Zone MORROW

Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2949

Co. Rep./Geo. JOHN CHRISTIANSEN Cont. ALLEN DRLG RIG #1 Est. Ft. of Pay 10

Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 5229-5360 Drill Pipe Size 4.5" XH

Anchor Length 131 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 5224 Drill Collar -- 2.25 Ft. Run 60

Bottom Packer Depth 5229 Mud Wt. 9 lb/Gal.

Total Depth 5360 Viscosity 44 Filtrate 8

Tool Open @ 8:40 PM Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 2 MINUTES

ISI: BLED OFF BLOW-NO BLOW BACK

Final Blow BOTTOM OF BUCKET AS TOOL OPENED-

GAS TO SURFACE IN 4 MINUTES-GAUGED @ 9.20 MCF/DAY

Recovery - Total Feet 183 Flush Tool? NO

Rec. 183 Feet of SLTLY GAS & OIL CUT MUD- 5% GAS/ 3% OIL/ 92% MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 131 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2606.3 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 71.7 PSI @ (depth) 5233 w / Clock No. 25813

(C) First Final Flow Pressure 61.8 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1226.3 PSI @ (depth) 5357 w / Clock No. 25814

(E) Second Initial Flow Pressure 97.1 PSI AK1 Recorder No. Range

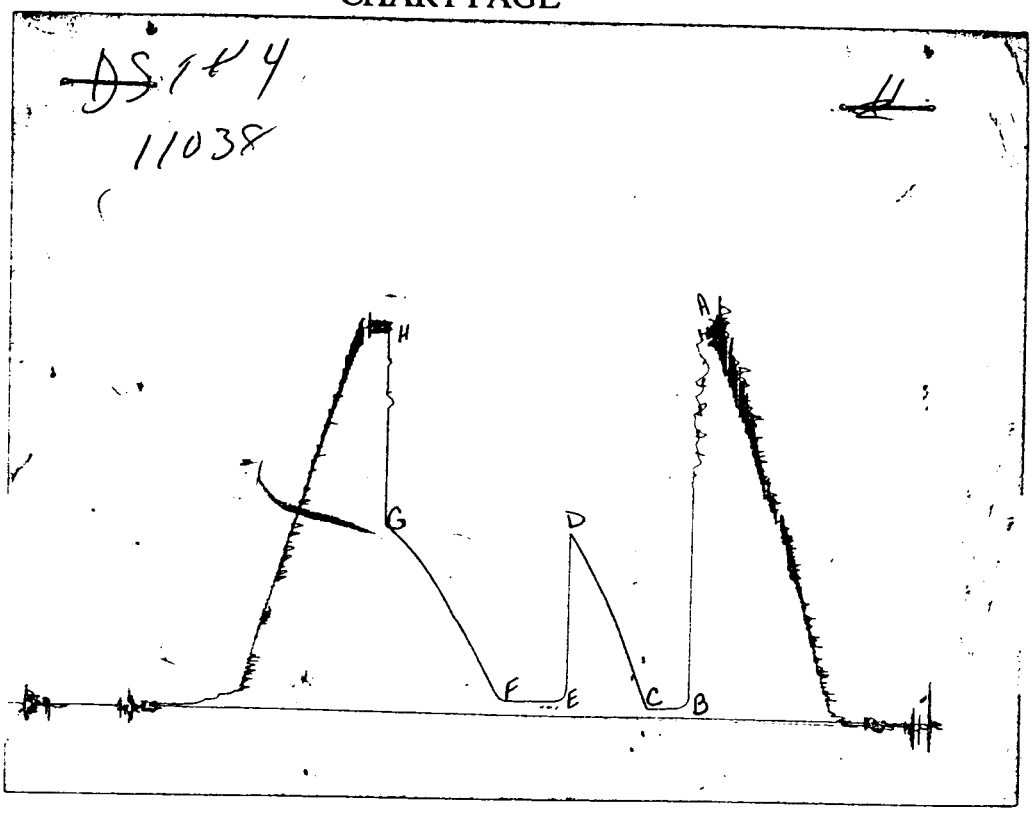
(F) Second Final Flow Pressure 97.1 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1237.6 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2542.1 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart #11038

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2580	2606.3
(B) FIRST INITIAL FLOW PRESSURE	68	71.7
(C) FIRST FINAL FLOW PRESSURE	68	61.8
(D) INITIAL CLOSED-IN PRESSURE	1209	1226.3
(E) SECOND INITIAL FLOW PRESSURE	95	97.1
(F) SECOND FINAL FLOW PRESSURE	95	97.1
(G) FINAL CLOSED-IN PRESSURE	1235	1237.6
(H) FINAL HYDROSTATIC MUD	2542	2542.1

GAS VOLUME REPORT

HUGOTON ENERGY CORP

GASKILL #2-5 DST # 4

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
				10	20	0.25	7.51
				20	26	0.25	8.56
				30	30	0.25	9.2
				40	28	0.25	8.89
				45	30	0.25	9.2

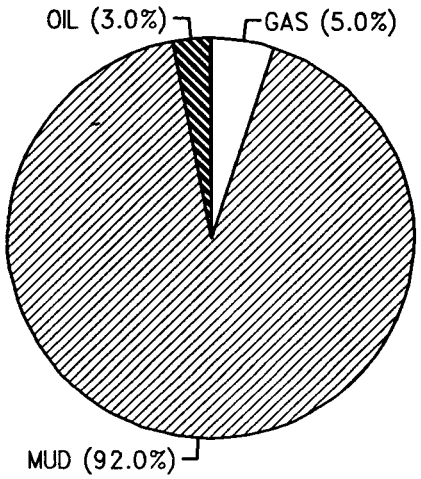
Remarks: GAS TO SURFACE IN 4 MINUTES/GAS WILL BURN

CALCULATED RECOVERY ANALYSIS

DST 4 TICKET # 7010

SAMPLE #	TOTAL FEET		GAS FEET		OIL FEET		WATER FEET		MUD FEET
DRILL 1	123	5	6.15	3	3.69	0	0	92	113.16
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	60	5	3	3	1.8	0	0	92	55.2
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	183		9.15		5.49		0		168.36

			HRS OPEN	BBL/DAY
BBL OIL=	0.0612738	*	1.25	1.176457
BBL WATER=	0	*		0
BBL MUD=	1.8790632			
BBL GAS =	0.102123			



TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Hugoton Energy Corp. (OPERATOR) | Gasskill #2-5 (WELL NAME AND NO.) | #4 (DST NO.)

2nd open

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
				10	20	1/4	7.51
				20	26	1/4	8.56
				30	30	1/4	9.20
				40	28	1/4	8.89
				45	30	1/4	9.20

Remarks: GTS in 4 min.
Gas will burn.

01 NCR

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #2-5 Test No. 5 Date 5/25/94

Company HUGOTON ENERGY CORP Zone MISSISSIPPI

Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2949

Co. Rep./Geo. JOHN CHRISTIANSEN Cont. ALLEN DRLG RIG #1 Est. Ft. of Pay

Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 5465-5520 Drill Pipe Size 4.5" XH

Anchor Length 55 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 5460-5465 Drill Collar – 2.25 Ft. Run 123

Bottom Packer Depth 5520 Mud Wt. 9.1 lb/Gal.

Total Depth 5585 Viscosity 51 Filtrate 8.2

Tool Open @ 8:13PM Initial Blow GOOD BLOW OFF BOTTOM IN 11 MINUTES
NO GAS TO SURFACE

Final Blow OFF BOTTOM IN 10 SECONDS - INITIAL OPEN 2" DIED IN 20 MINUTES
INITIAL SHUTIN 2" OFF BOTTOM IN 5 MINUTES NO BLOW ON FINAL SHUTIN

Recovery - Total Feet 153 Flush Tool? NO

Rec. 153 Feet of GAS OIL CUT MUD 5%GAS/2%OIL/93%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 130 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1100 ppm System

(A) Initial Hydrostatic Mud 2567.6 PSI AK1 Recorder No. 6730 Range 4200

(B) First Initial Flow Pressure 26.1 PSI @ (depth) 5567 w / Clock No. 26199

(C) First Final Flow Pressure 39.2 PSI AK1 Recorder No. 10332 Range 4025

(D) Initial Shut-in Pressure 1416.2 PSI @ (depth) 5515 w / Clock No. 25114

(E) Second Initial Flow Pressure 49.5 PSI AK1 Recorder No. 11086 Range 4350

(F) Second Final Flow Pressure 57.2 PSI @ (depth) 5580 w / Clock No. 25828

(G) Final Shut-in Pressure 1376.4 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2539.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative MARK HERSKOWITZ

GAS VOLUME REPORT

HUGOTON ENERGY CORP

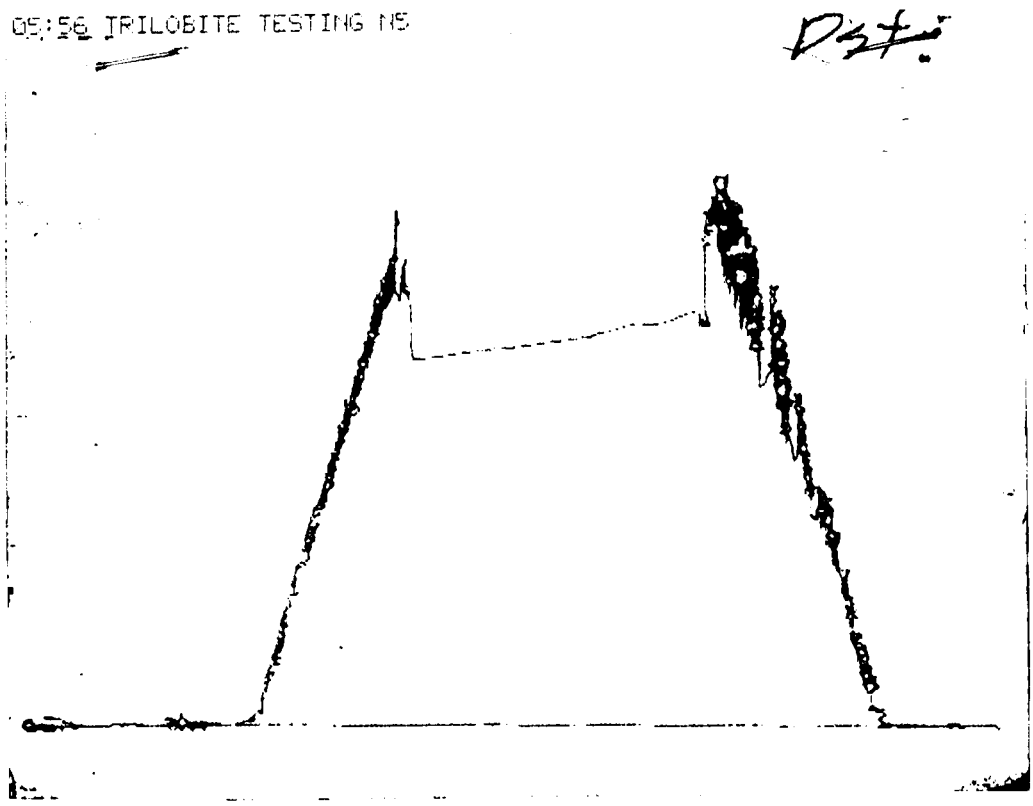
GASKILL #2-5 DST # 5

MIN	PSIG	ORIFICE	MCF/D
5			
10	OFF BOTTOM		
15	11 MINUTES		
20			
25			
30			

MIN	WATER	ORIFICE	MCF/D
5	18	0.25	7.32
10	12	0.25	5.86
15	6	0.25	4.12
20	0	0.25	0
25			
30			
35			
40			
45			

Remarks: NO GAS TO SURFACE

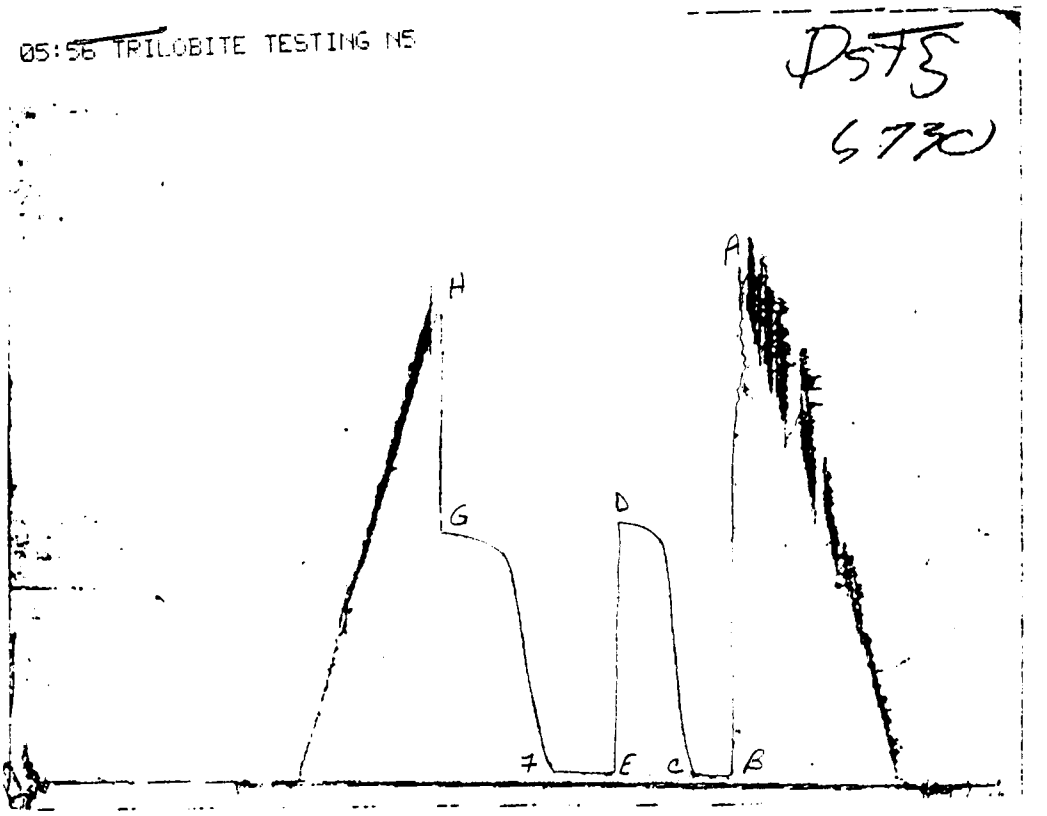
CHART PAGE



This is an actual photograph of recorder chart

	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		

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2565	2567.6
(B) FIRST INITIAL FLOW PRESSURE	21	26.1
(C) FIRST FINAL FLOW PRESSURE	32	39.2
(D) INITIAL CLOSED-IN PRESSURE	1415	1416.2
(E) SECOND INITIAL FLOW PRESSURE	43	49.5
(F) SECOND FINAL FLOW PRESSURE	53	57.2
(G) FINAL CLOSED-IN PRESSURE	1373	1376.4
(H) FINAL HYDROSTATIC MUD	2533	2539.4

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Hugoton (OPERATOR) — Gaskill 2-5 (WELL NAME AND NO.) — 5 (DST NO.)

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water ~~PSIG~~	Orifice Size	MCF/D
5				5	18	1/4	7.32
10	OFF Bottom			10	12	1/4	5.85
15	11 Min			15	6	1/4	4.12
20				20	0	1/4	0
25				25			
30				30	Shut 2"		
				35			
				40	5 Min		
				45	To Bottom		
					No		
						Gas	
					To		
						Sur	

Remarks:

1 NCR