

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HOMSHER #4-33 Test No. 1 Date 10/26/94
Company HUGOTON ENERGY CORP Zone KANSAS CITY
Address 301 N. MAIN, STE. 1900-WICHITA, KS. 67202 Elevation 2940
Co. Rep./Geo. JOHN CHRISTENSEN Cont. MURFIN RIG #20 Est. Ft. of Pay 16
Location: Sec. 33 Twp. 30S Rge. 33W Co. HASKELL State KS

Interval Tested <u>4560-4600</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>40</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>570</u>
Top Packer Depth <u>4555</u>	Drill Collar - 2.25 Ft. Run <u>8.9</u>
Bottom Packer Depth <u>4560</u>	Mud Wt. <u>47</u> lb/Gal.
Total Depth <u>4600</u>	Viscosity <u>7.4</u>

Tool Open @ 12:45AM Initial Blow BOTTOM OF BUCKET @ OPEN - GAS TO SURFACE IN 4 MINUTES

Final Blow GAS TO SURFACE AS TOOL OPENED

Recovery - Total Feet 1286 Flush Tool? NO

Rec. 1286 Feet of CLEAN GASSY OIL 40%GAS/60%OIL
Rec. _____ Feet of SPRAY OF MUD IN 17 MINUTES - NO WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 112 °F Gravity 41 °API @ 60 °F Corrected Gravity 41 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2100 ppm System

(A) Initial Hydrostatic Mud 2278.0 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 371.4 PSI @ (depth) 4559 w / Clock No. 25114

(C) First Final Flow Pressure 471.6 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1162.3 PSI @ (depth) 4594 w / Clock No. 25828

(E) Second Initial Flow Pressure 565.0 PSI AK1 Recorder No. _____ Range _____

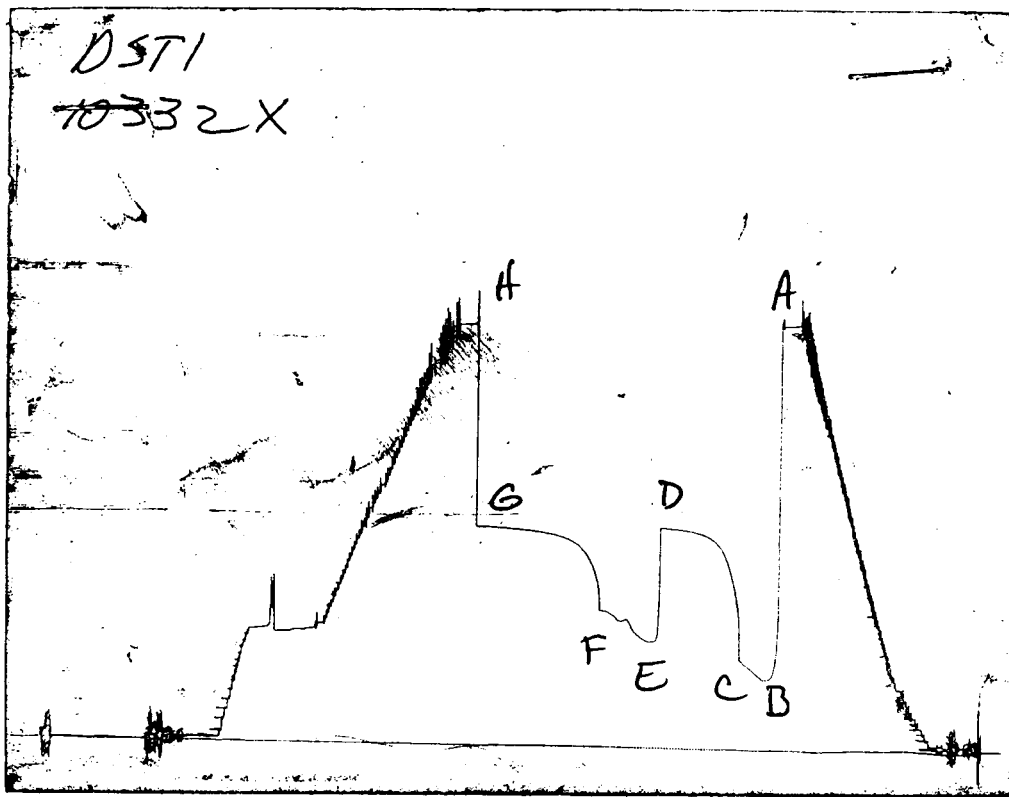
(F) Second Final Flow Pressure 726.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1155.2 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2273.0 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart

10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2258	2278
(B) FIRST INITIAL FLOW PRESSURE	323	371.4
(C) FIRST FINAL FLOW PRESSURE	475	471.6
(D) INITIAL CLOSED-IN PRESSURE	1155	1162.3
(E) SECOND INITIAL FLOW PRESSURE	546	565
(F) SECOND FINAL FLOW PRESSURE	709	726.6
(G) FINAL CLOSED-IN PRESSURE	1155	1155.2
(H) FINAL HYDROSTATIC MUD	2228	2273

GAS VOLUME REPORT

HUGOTON ENERGY CORP

HOMSHER #4-33

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	20	0.5	177	5	6	0.375	48.8
10	19	0.5	171	10	5	0.375	44.2
15	18	0.5	166	15	4	0.375	39
20	13	0.5	134	20	3	0.375	33.5
25	10	0.5	116				

Remarks:

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: 316-624-5389
Fax: 316-626-7108

Lab Number: 940555B
Sample From: Homsher #4-33 DST 1
Producer: Hugoton Energy Corp
Date:
Time:
Sampler:
Source:

Analyzed: 10/29/94
Pressure:
Temperature:
Location: 33-30-33
County: Haskell
State: Kansas
Formation: Ks "A"

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 18.281	0.000
Carbon Dioxide	CO2: 0.171	0.000
Methane	C1: 49.223	0.000
Ethane	C2: 10.119	2.706
Propane	C3: 12.278	3.383
Iso Butane	iC4: 1.729	0.566
Normal Butane	nC4: 4.681	1.476
Iso Pentane	iC5: 1.130	0.413
Normal Pentane	nC5: 1.215	0.440
Hexanes Plus	C6+: 1.173	0.512

TOTAL: 100.000 9.496
Z Fact: 0.9950
SP.GR.: 0.9737
BTU (SAT): 1334.4 @ 14.73 psia
BTU (DRY): 1358.0 @ 14.73 psia
OCTANE RATING: 94.1

COMMENTS: Air caclulated out
Insufficient pressure for Helium analysis

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: 316-624-5389
Fax: 316-626-7108

Lab Number:	940555A	Analyzed:	10/29/94
Sample From:	Homsher #4-33 DST 1	Pressure:	
Producer:	Hugoton Energy Corp	Temperature:	
Date:		Location:	33-30-33
Time:		County:	Haskell
Sampler:		State:	Kansas
Source:		Formation:	Ks "A"

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	8.139 0.000
Nitrogen	N2:	43.397 0.000
Carbon Dioxide	CO2:	0.102 0.000
Methane	C1:	29.191 0.000
Ethane	C2:	6.001 1.605
Propane	C3:	7.282 2.007
Iso Butane	iC4:	1.025 0.335
Normal Butane	nC4:	2.776 0.875
Iso Pentane	iC5:	0.670 0.245
Normal Pentane	nC5:	0.721 0.261
Hexanes Plus	C6+:	0.696 0.304

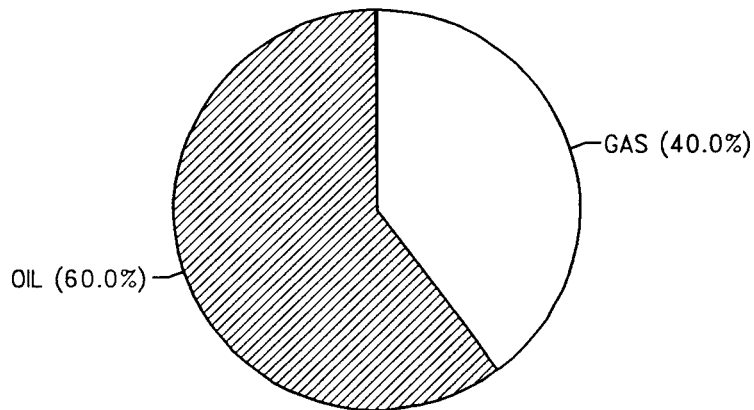
TOTAL: 100.000 5.632
Z Fact: 0.9976
SP.GR.: 0.9818
BTU (SAT): 789.4 @ 14.73 psia
BTU (DRY): 803.3 @ 14.73 psia
OCTANE RATING: 55.8

COMMENTS: As Analyzed
Insufficient pressure for Helium analysis

CALCULATED RECOVERY ANALYSIS

DST	1	TICKET # 7468							
SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	716	40	286.4	60	429.6		0		0
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	570	40	228	60	342		0		0
COLLAR 2			0		0		0		0
			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1286		514.4		771.6		0		0

			HRS OPEN	BBL/DAY
BBL OIL=	7.781292	*	1.25	149.40081
BBL WATER=	0	*		0
BBL MUD=	0			
BBL GAS =	5.187528			





GAS VOLUME REPORT

Hugoton Energy

Homsher #4-33

WELL NAME AND NO.

DST NO

Remarks:

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HOMSHER #4-33 Test No. 2 Date 10/27/94
Company HUGOTON ENERGY CORP Zone KANSAS CITY
Address 301 N. MAIN, STE. 1900-WICHITA, KS. 67202 Elevation 2940
Co. Rep./Geo. JOHN CHRISTENSEN Cont. MURFIN RIG #20 Est. Ft. of Pay 9
Location: Sec. 33 Twp. 30S Rge. 33W Co. HASKELL State KS

Interval Tested 4623-4666 Drill Pipe Size 4.5" XH
Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4618 Drill Collar - 2.25 Ft. Run 570
Bottom Packer Depth 4626 Mud Wt. 9.0 lb/Gal.
Total Depth 4666 Viscosity 53 Filtrate 6.8

Tool Open @ 9:25PM Initial Blow FROM SURFACE TO BOTTOM OF BUCKET IN 1/2 MINUTE
GAS TO SURFACE IN 15 MINUTES

Final Blow GAS TO SURFACE @ OPEN
FROM SURFACE TO BOTTOM OF BUCKET IN 1 1/2 MINUTE

Recovery - Total Feet 990 Flush Tool? NO

Rec. 30 Feet of SLIGHTLY OIL & GAS CUT MUD 10%GAS/5%OIL/85%MUD
Rec. 960 Feet of CLEAN GASSY OIL 25%GAS/75%OIL
Rec. _____ Feet of REVERSED OUT - NO WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 121 °F Gravity 37 °API @ 50 °F Corrected Gravity 38 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2600 ppm System

(A) Initial Hydrostatic Mud 2292.0 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 129.5 PSI @ (depth) 4633 w / Clock No. 25114

(C) First Final Flow Pressure 241.9 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1221.7 PSI @ (depth) 4617 w / Clock No. 25828

(E) Second Initial Flow Pressure 266.1 PSI AK1 Recorder No. _____ Range _____

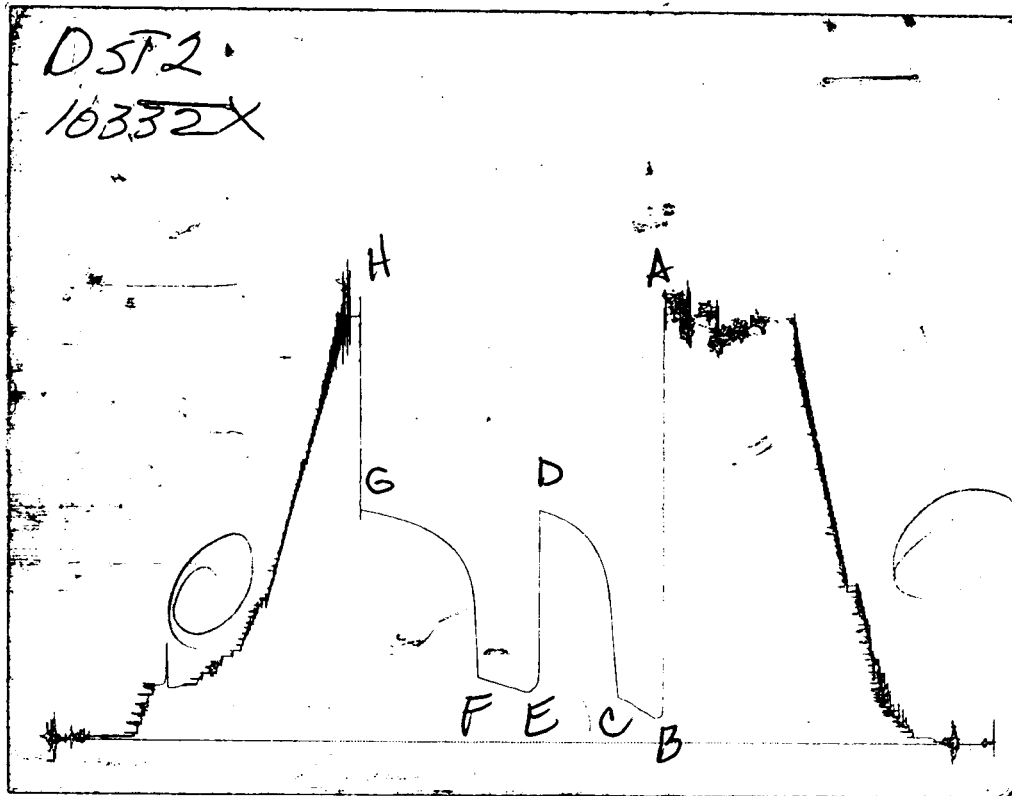
(F) Second Final Flow Pressure 342.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1218.7 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2292.0 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	2278	2292
(B) FIRST INITIAL FLOW PRESSURE	131	129.5
(C) FIRST FINAL FLOW PRESSURE	242	241.9
(D) INITIAL CLOSED-IN PRESSURE	1235	1221.7
(E) SECOND INITIAL FLOW PRESSURE	283	266.1
(F) SECOND FINAL FLOW PRESSURE	374	342.1
(G) FINAL CLOSED-IN PRESSURE	1235	1218.7
(H) FINAL HYDROSTATIC MUD	2278	2292

GAS VOLUME REPORT

HUGOTON ENERGY CORP

HOMSHER #4-33

DST # 2

MIN	INS OF W	ORIFICE	MCF/D	MIN	INS OF	ORIFICE	MCF/D
5	40	0.25	10.6	5	6	0.25	4.12
10	71	0.25	14.2	10	92	0.25	16.1
15	87	0.25	15.6	15	PSIG4	0.25	18.5
				20	3.5	0.25	17.1
				25	3	0.25	15.7
				30	2.5	0.25	14.3
				35	2.5	0.25	14.3
				40	2.5	0.25	14.3
				45	2.5	0.25	14.3

Remarks:

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: 316-624-5389
Fax: 316-626-7108

Lab Number: 940556
Sample From: Homsher #4-33 DST 2
Producer: Hugoton Energy Corp
Date:
Time:
Sampler:
Source:

Analyzed: 10/29/94
Pressure:
Temperature:
Location: 33-30-33
County: Haskell
State: Kansas
Formation: Ks "B"

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 4.544	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 59.747	0.000
Ethane	C2: 13.476	3.604
Propane	C3: 12.784	3.523
Iso Butane	iC4: 1.802	0.590
Normal Butane	nC4: 4.177	1.317
Iso Pentane	iC5: 0.961	0.352
Normal Pentane	nC5: 1.038	0.376
Hexanes Plus	C6+: 1.471	0.642

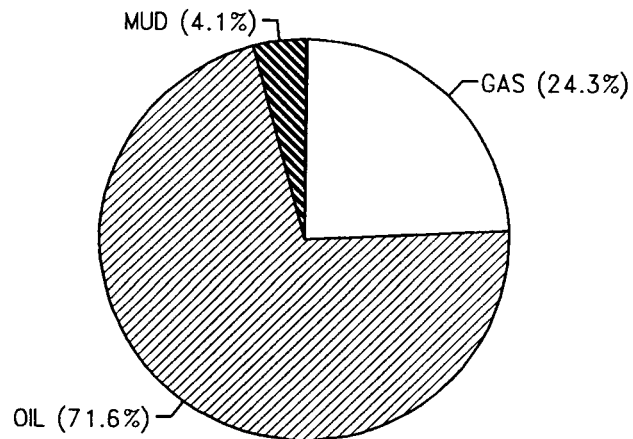
TOTAL: 100.000 10.403
Z Fact: 0.9942
SP.GR.: 0.9319
BTU (SAT): 1499.7 @ 14.73 psia
BTU (DRY): 1526.2 @ 14.73 psia
OCTANE RATING: 111.2

COMMENTS: Sample entered under vacuum
Insufficient pressure for Helium analysis

CALCULATED RECOVERY ANALYSIS

DST	2	TICKET # 7469							
SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL 1	30	10	3	5	1.5		0	85	25.5
PIPE 2	390	25	97.5	75	292.5		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	570	25	142.5	75	427.5		0		0
COLLAR 2			0		0		0		0
			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	990		243		721.5		0		25.5

			HRS OPEN	BBL/DAY
BBL OIL=	6.271155	*	1.25	120.40618
BBL WATER=	0	*		0
BBL MUD=	0.36261			
BBL GAS =	2.125935			





GAS VOLUME REPORT

Hugoton Energy Corp
OPERATOR

ME REPORT
Homsher #4-33

WELL NAME AND NO.

2
DST NO

Remarks:

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HOMSHER #4-33 Test No. 3 Date 10/28/94
Company HUGOTON ENERGY CORP Zone MARMATON A&B
Address 301 N. MAIN, STE. 1900-WICHITA, KS. 67202 Elevation 2940
Rep./Geo. JOHN CHRISTENSEN Cont. MURFIN RIG #20 Est. Ft. of Pay 10
Location: Sec. 33 Twp. 30S Rge. 33W Co. HASKELL State KS

Interval Tested 4728-4781 Drill Pipe Size 4.5" XH
Casing Length 53 Wt. Pipe I.D. - 2.7 Ft. Run 570
Packer Depth 4723 Drill Collar - 2.25 Ft. Run 8.8
Bottom Packer Depth 4728 Mud Wt. 48 lb/Gal. 7.6
Total Depth 4781 Viscosity 48 Filtrate 7.6

Tool Open @ 6:55 Initial Blow BOTTOM OF BUCKET AS TOOL OPENED
AS TO SURFACE IN 3 MINUTES
Initial Blow BOTTOM OF BUCKET @ OPEN

Recovery - Total Feet 710 Flush Tool? NO

C. 190 Feet of DRILLING MUD 100%MUD
C. 400 Feet of OIL GAS CUT MUD 30%GAS/5%OIL/65%MUD
C. 120 Feet of OIL & MUD CUT SALT WATER 10%OIL/80%WATER/10%MUD
C. Feet of
C. Feet of

IT 122 °F Gravity 50 °API @ 125000 °F Corrected Gravity 2100 °API
V 0.1 @ 50 °F Chlorides 125000 ppm Recovery Chlorides 2100 ppm System

Initial Hydrostatic Mud 2326.0 PSI AK1 Recorder No. 11086 Range 4350

First Initial Flow Pressure 179.1 PSI @ (depth) 4764 w / Clock No. 25114

First Final Flow Pressure 249.9 PSI AK1 Recorder No. 10332 Range 4050

Initial Shut-in Pressure 1355.8 PSI @ (depth) 4775 w / Clock No. 25828

Second Initial Flow Pressure 208.5 PSI AK1 Recorder No. Range

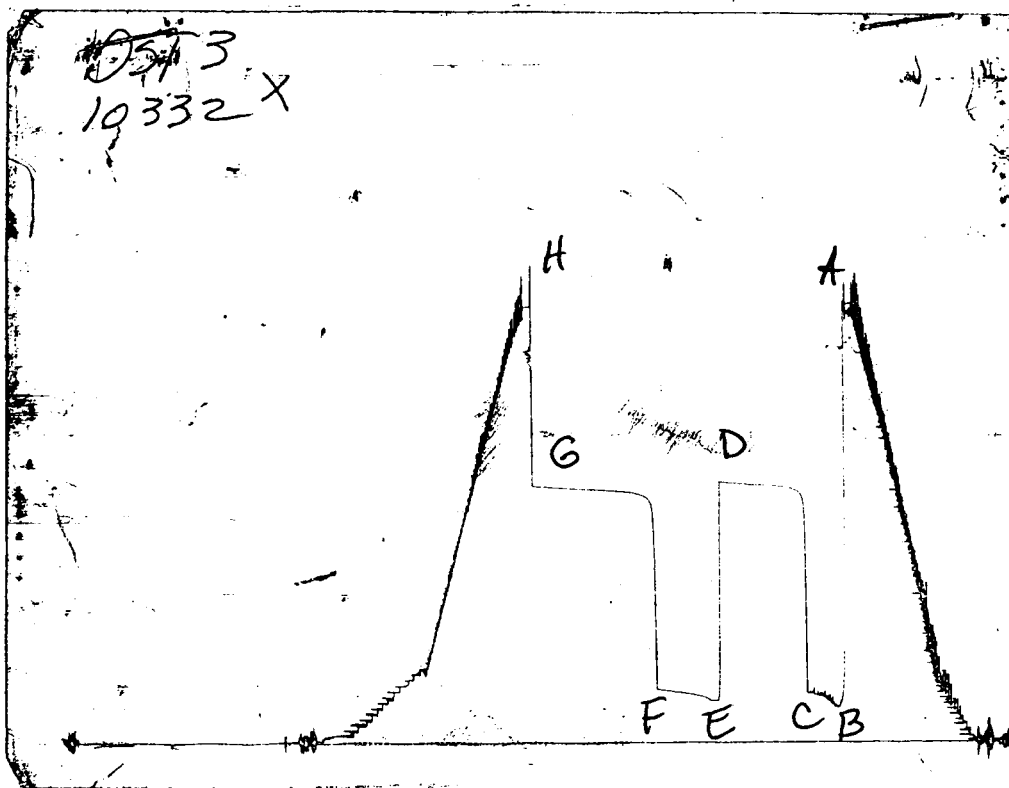
Second Final Flow Pressure 267.2 PSI @ (depth) w / Clock No.

Final Shut-in Pressure 1334.6 PSI Initial Opening 30 Final Flow 45

Final Hydrostatic Mud 2326.0 PSI Initial Shut-in 60 Final Shut-in 90

Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2328	2326
(B) FIRST INITIAL FLOW PRESSURE	192	179.1
(C) FIRST FINAL FLOW PRESSURE	263	249.9
(D) INITIAL CLOSED-IN PRESSURE	1366	1355.8
(E) SECOND INITIAL FLOW PRESSURE	263	208.5
(F) SECOND FINAL FLOW PRESSURE	393	267.2
(G) FINAL CLOSED-IN PRESSURE	1346	1334.6
(H) FINAL HYDROSTATIC MUD	2328	2326

COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.

HUGOTON ENERGY CORP

HOMSHER #4-33

DST 3

33 30S 33W

HASKELL KS

ELEVATION:	2940 KB	EST. PAY:	10 FT.
DATUM:	-2270	ZONE TESTED:	MARMATON A&B
TEST INTERVAL:	4728-4781	TIME INTERVALS:	30-60-60-120
RECORDER DEPTH:	5209	VISCOSITY:	0.01451 CP
BOTTOM HOLE TEMP:	122	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9974	GAS GRAVITY:	0.7408

TEMPERATURE RANKINE:	582.00	&
TRANSMISSIBILITY:	5213.46	Kh/%
THEORITICAL FLOW CAPICITY:	75.64	Kh
AVERAGE EFFECTIVE PERMEABILITY:	7.56	K(md.)
RADIUS OF INVESTIGATION:	23.82	FT.
DAMAGE RATIO:	2.64	
ABSOLUTE OPEN FLOW(MAX)	555.10	MCFD
ABSOLUTE OPEN FLOW(MIN)	544.45	MCFD
THEORITICAL OPEN FLOW(MAX)	1464.23	MCFD
THEORITICAL OPEN FLOW(MIN)	1436.14	MCFD
POTENTIOMETRIC SURFACE	772.32	(FT.)

INITIAL SHUT-IN VALUES:

SLOPE	42259.62
THEORETICAL STATIC PRESSURE	1371.30

FINAL SHUT-IN VALUES:

SLOPE	97332.11
THEORETICAL STATIC PRESSURE	1370.58

DRAWDOWN FACTOR:	0.05 (%)
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INITIAL FLOW

RECORDER 10332

DST # 3

TIME(MIN) PRESSURE <> PRESSURE

3	179.1	179.1
6	182.1	3.0
9	194.3	12.2
12	211.5	17.2
15	227.4	15.9
18	233.8	6.4
21	238.8	5.0
24	248.9	10.1
27	249.9	1.0

FINAL FLOW

RECORDER 10332

DST # 3

TIME(MIN) PRESSURE <> PRESSURE

3	208.5	208.5
6	211.5	3
9	220.6	9.1
12	230.7	10.1
15	236.8	6.1
18	240.8	4.0
21	244.9	4.1
24	247.9	3.0
27	251.1	3.2
30	254.1	3.0
33	256.1	2.0
36	259.1	3.0
39	265.1	6.0
42	266.1	1.0
45	267.2	1.1

INITIAL SHUTIN
HOMSHER #4-33
. INITIAL FLOW TIME

DST #3
30

SLOPE 42259.62 PSI/CYCLE
P* 1371.30 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	-----	-----	-----	-----	-----
	3	842.4	1.041	842.4	11
	6	1262.1	0.778	419.7	6
	9	1305.4	0.637	43.3	4
	12	1316.5	0.544	11.1	4
	15	1324.5	0.477	8.0	3
	18	1332.6	0.426	8.1	3
X	21	1334.6	0.385	2.0	2
	24	1335.6	0.352	1.0	2
	27	1336.6	0.325	1.0	2
	30	1338.7	0.301	2.1	2
	33	1340.7	0.281	2.0	2
	36	1340.7	0.263	0.0	2
	39	1341.7	0.248	1.0	2
	42	1341.7	0.234	0.0	2
	45	1342.7	0.222	1.0	2
	48	1343.7	0.211	1.0	2
	51	1346.7	0.201	3.0	2
	54	1348.7	0.192	2.0	2
	57	1350.8	0.184	2.1	2
	60	1351.8	0.176	1.0	2
	63	1353.8	0.169	2.0	1
X	66	1355.8	0.163	2.0	1

FINAL SHUTIN
HOMSHER #4-33
TOTAL FLOW TIME

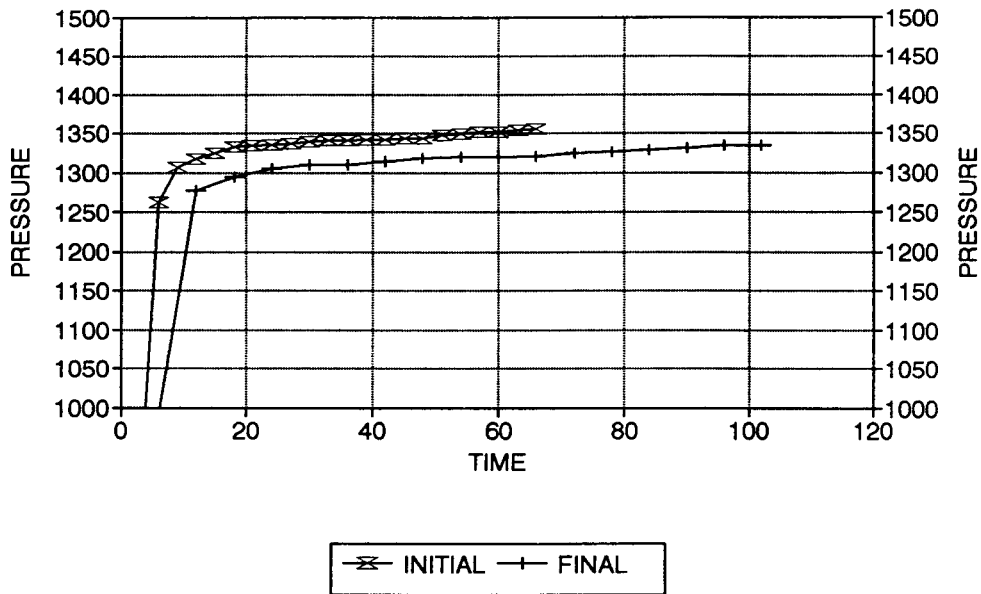
DST #3
75

SLOPE 97332.11 PSI/CYCLE
P* 1370.58 PSI

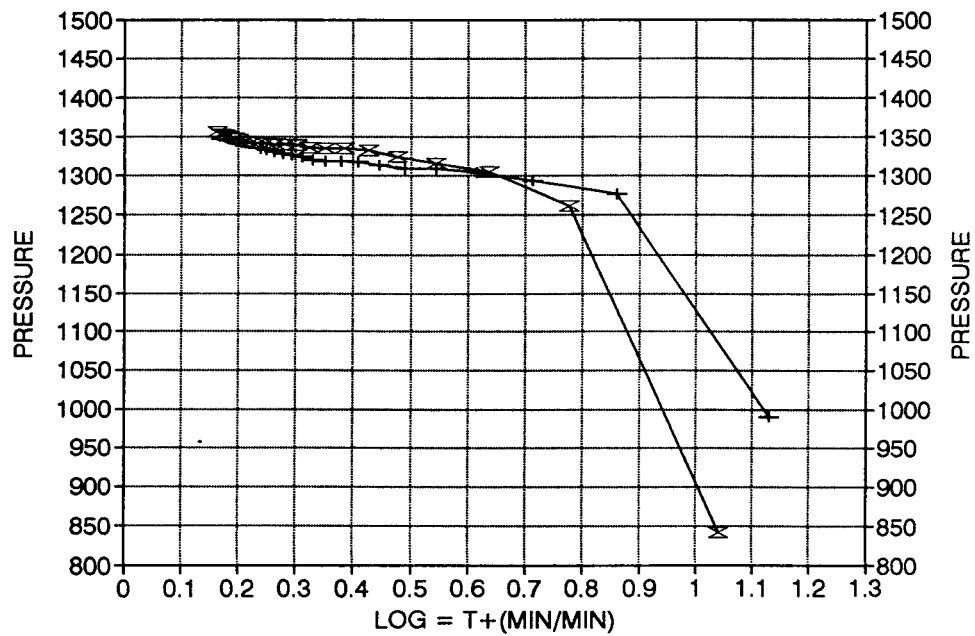
	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
	-----	-----	-----	-----	-----
	6	989.7	1.130	989.7	14
	12	1277.2	0.860	287.5	7
	18	1294.3	0.713	17.1	5
	24	1304.4	0.615	10.1	4
	30	1309.4	0.544	5.0	4
	36	1310.4	0.489	1.0	3
	42	1313.5	0.445	3	3
	48	1317.5	0.409	4.0	3
	54	1319.5	0.378	2.0	2
	60	1319.5	0.352	0.0	2
	66	1320.5	0.330	1.0	2
	72	1324.5	0.310	4.0	2
X	78	1326.6	0.293	2.1	2
	84	1328.6	0.277	2.0	2
	90	1331.6	0.263	3.0	2
	96	1333.6	0.251	2.0	2
X	102	1334.6	0.239	1.0	2

HOMSHER #4-33 / DST #3

DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

HUGOTON ENERGY CORP

HOMSHER #4-33

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	24	0.75	449	5	23	0.75	436
10	26	0.75	473	10	27	0.75	487
15	29	0.75	510	15	30	0.75	522
20	31	0.75	534	20	31	0.75	534
25	31	0.75	534	25	31	0.75	534
				30	31	0.75	534
				35	31	0.75	534
				40	31	0.75	534
				45	31	0.75	534

Remarks:

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: 316-624-5389
Fax: 316-626-7108

Lab Number:	940557	Analyzed:	10/29/94
Sample From:	Homsher #4-33 DST 3	Pressure:	
Producer:	Hugoton Energy Corp	Temperature:	
Date:		Location:	33-30-33
Time:		County:	Haskell
Sampler:		State:	Kansas
Source:		Formation:	Marm A&B

	Mole %	GPM
Helium	He: 0.580	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 15.307	0.000
Carbon Dioxide	CO2: 0.074	0.000
Methane	C1: 70.229	0.000
Ethane	C2: 6.425	1.718
Propane	C3: 4.622	1.274
Iso Butane	iC4: 0.544	0.178
Normal Butane	nC4: 1.270	0.400
Iso Pentane	iC5: 0.248	0.091
Normal Pentane	nC5: 0.317	0.115
Hexanes Plus	C6+: 0.384	0.168

TOTAL: 100.000 3.943
Z Fact: 0.9974
SP.GR.: 0.7408
BTU (SAT): 1027.7 @ 14.73 psia
BTU (DRY): 1045.8 @ 14.73 psia
OCTANE RATING: 104.5

COMMENTS: Helium content calculated based on Nitrogen

CALCULATED RECOVERY ANALYSIS

DST

3

TICKET #

7470

SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	140		0		0		0	100	140
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	50		0		0		0	100	50
COLLAR 2	400	30	120	5	20		0	65	260
	120		0	10	12	80	96	10	12
4			0		0		0		0
5			0		0		0		0
TOTAL	710		120		32		96		462

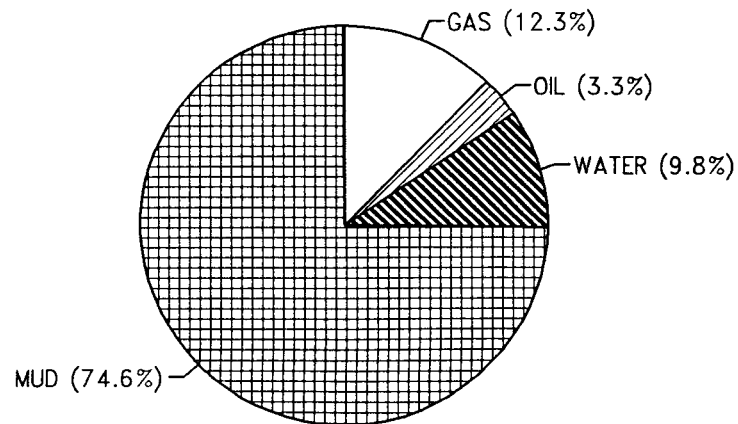
HRS OPEN BBL/DAY

BBL OIL= 0.15648 * 1.25 3.004416

BBL WATER= 0.46944 * 9.013248

BBL MUD= 3.56538

BBL GAS = 0.5868





GAS VOLUME REPORT

3
OST NO.

Remarks:

WELL NAME Honisher DST # 3 RECORDER # 10332

INIT. HYD. MUD. _____ FINAL HYD. MUD _____

INITIAL FLOW MINUTES <u>30</u> INTERVAL _____	INITIAL SHUTIN MINUTES <u>60</u> INTERVAL _____	FINAL FLOW MINUTES <u>45</u> INTERVAL _____	FINAL SHUTIN MINUTES <u>90</u> INTERVAL <u>10</u>
<u>.177</u>	<u>—</u>	1 <u>.206</u>	<u>—</u>
<u>.180</u>	<u>.831</u>	2 <u>.209</u>	<u>.976</u>
<u>.192</u>	<u>1.246</u>	3 <u>.218</u>	<u>1.261</u>
<u>.209</u>	<u>1.289</u>	4 <u>.228</u>	<u>1.278</u>
<u>.225</u>	<u>1.300</u>	5 <u>.234</u>	<u>1.288</u>
<u>.231</u>	<u>1.308</u>	6 <u>.238</u>	<u>1.293</u>
<u>.236</u>	<u>1.316</u>	7 <u>.242</u>	<u>1.294</u>
<u>.246</u>	<u>1.318</u>	8 <u>.245</u>	<u>1.297</u>
<u>.247</u>	<u>1.319</u>	9 <u>.248</u>	<u>1.301</u>
	<u>1.320</u>	10 <u>.251</u>	<u>1.303</u>
	<u>1.322</u>	11 <u>.253</u>	<u>1.303</u>
	<u>1.324</u>	12 <u>.256</u>	<u>1.304</u>
	<u>1.324</u>	13 <u>.259</u>	<u>1.308</u>
	<u>1.325</u>	14 <u>.262</u>	<u>1.310</u>
	<u>1.325</u>	15 <u>.263</u>	<u>1.312</u>
	<u>1.326</u>	16 <u>.264</u>	<u>1.315</u>
	<u>1.327</u>	17	<u>1.317</u>
	<u>1.330</u>	18	<u>1.318</u>
	<u>1.332</u>	19	
	<u>1.334</u>	20	
	<u>1.335</u>	21	
	<u>1.337</u>	22	
	<u>1.339</u>	23	
	<u>1.340</u>	24	
		25	
		26	
		27	

0.177	179.1492
0.18	182.1858
0.192	194.3323
0.209	211.539
0.225	227.7328
0.231	233.8055
0.236	238.866
0.246	248.987
0.247	249.9991

0

0.206	208.5027
0.209	211.539
0.218	220.648
0.228	230.7691
0.234	236.8418
0.238	240.8902
0.242	244.9386
0.245	247.9749
0.248	251.0112
0.251	254.0475
0.253	256.0717
0.256	259.108
0.262	265.1806
0.263	266.1927
0.264	267.2048

17

77

0.831	842.4763
1.246	1262.108
1.289	1305.446
1.3	1316.53
1.308	1324.597
1.316	1332.664
1.318	1334.681
1.319	1335.689
1.32	1336.697
1.322	1338.714
1.324	1340.73
1.324	1340.73
1.325	1341.739
1.325	1341.739
1.326	1342.747
1.327	1343.755
1.33	1346.78
1.332	1348.796
1.334	1350.813
1.335	1351.821
1.337	1353.837
1.339	1355.854

151

0.976	989.7456
1.261	1277.227
1.278	1294.361
1.288	1304.438
1.293	1309.477
1.294	1310.484
1.297	1313.507
1.301	1317.538
1.303	1319.555
1.303	1319.555
1.304	1320.564
1.308	1324.597
1.31	1326.614
1.312	1328.631
1.315	1331.656
1.317	1333.672
1.318	1334.681

751