

Drill Stem Test Information for ACO-1
Hugoton Energy Corporation
Santa Fe Feeders #1-36
Sec. 36-28S-33W, Haskell County, KS
API #15-081-20872

36-28-33W

COPY

DST 1

Test Interval: 4670' - 4710'

Times: 30-60-30-60

First Open: Weak surface to no blow in 12 min.

Second Open: No blow.

Recovery 30' Drilling Mud

Pressures
IHP 2287
IFP 33-33
ISIP 1331
FFP 33-33
FSIP 1331
FHP 2264

DST 2

Test Interval: 5205' - 5375'

Times: 30-60-30-90

First Open: Open to 1 1/2" in 5 min - dies to no blow in 15 min..

Second Open: No blow.

Recovery 60' Mud

Pressures
IHP 2581
IFP 44-55
ISIP 78
FFP 56-56
FSIP 89
FHP 2572

DST 3

Test Interval 4374' - 4392'

Times: 30-60-45-90

First Open Strong blow - bottom of bucket in 2 min ISI: Bled off blow - no blow back.

Second Open: Strong blow - bottom of bucket in 3 min - FSI: bled off blow.

Recovery: 240' Drilling Mud
1985' Salt Water

Pressures
IHP 2208
IFP 168-638
ISIP 1219
FFP 694-1040
FSIP 1219
FHP 2117

Released

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SANTA FE FEEDERS 1-36 Test No. 1 Date 9/24/94
Company HUGOTON ENERGY CORP Zone KC (B)
Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2948
Co. Rep./Geo. DON PATE Cont. MURFIN RIG #20 Est. Ft. of Pay _____
Location: Sec. 36 Twp. 28S Rge. 33W Co. HASKELL State KS

Interval Tested	<u>4670-4710</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>40</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4665</u>	Drill Collar - 2.25 Ft. Run	<u>558</u>
Bottom Packer Depth	<u>4670</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4710</u>	Viscosity	<u>46</u>
		Filtrate	<u>13.8</u>

Tool Open @ 7:48 A.M. Initial Blow WEAK SURFACE TO NO BLOW IN 12 MIN

Final Blow NO BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. <u>30</u>	Feet of	<u>MUD 100%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8300 ppm System

(A) Initial Hydrostatic Mud 2288.4 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 38.1 PSI @ (depth) 4672 w / Clock No. 25108

(C) First Final Flow Pressure 38.1 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1336.3 PSI @ (depth) 4706' w / Clock No. 21048

(E) Second Initial Flow Pressure 44.8 PSI AK1 Recorder No. _____ Range _____

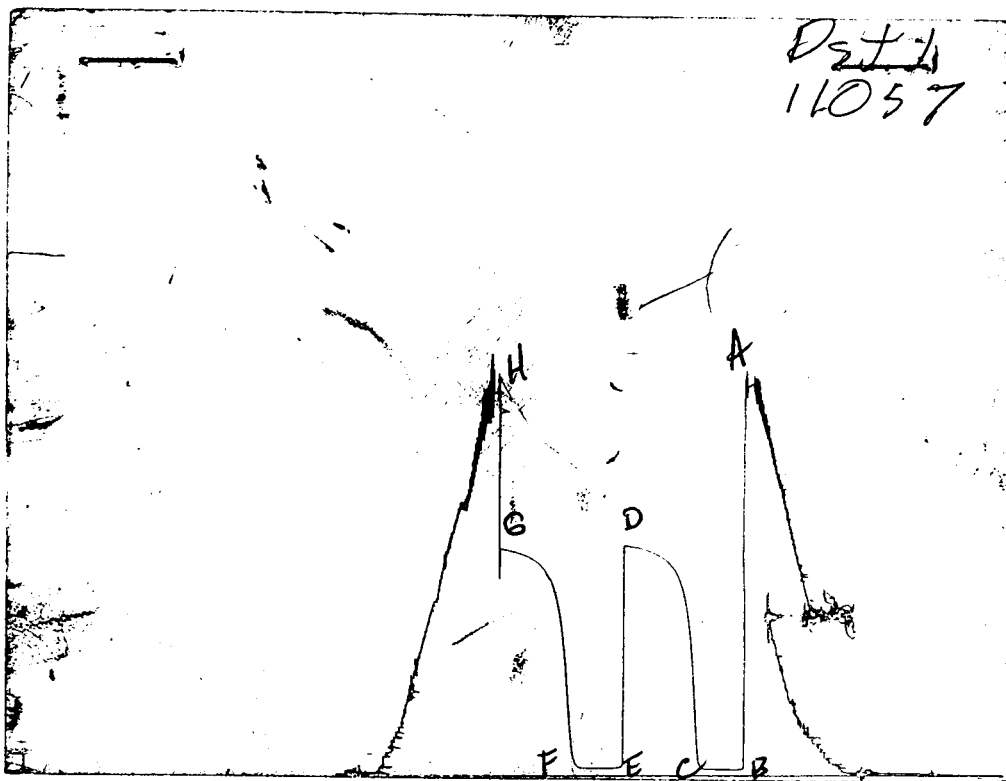
(F) Second Final Flow Pressure 44.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1316.1 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2265.8 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart 11057

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2287	2288.4
(B) FIRST INITIAL FLOW PRESSURE	33	38.1
(C) FIRST FINAL FLOW PRESSURE	33	38.1
(D) INITIAL CLOSED-IN PRESSURE	1331	1336.3
(E) SECOND INITIAL FLOW PRESSURE	33	44.8
(F) SECOND FINAL FLOW PRESSURE	33	44.8
(G) FINAL CLOSED-IN PRESSURE	1331	1316.1
(H) FINAL HYDROSTATIC MUD	2264	2265.8

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Drill-Stem Test Data

Well Name SANTA FE FEEDERS 1-36 Test No. 2 Date 9/27/94
Company HUGOTON ENERGY CORP Zone MORROW
Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2948
Co. Rep./Geo. DON PATE Cont. MURFIN RIG #20 Est. Ft. of Pay _____
Location: Sec. 36 Twp. 28S Rge. 33W Co. HASKELL State KS

Interval Tested 5205-5375
Anchor Length 170
Top Packer Depth 5200
Bottom Packer Depth 5205
Total Depth 5375

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 410
Mud Wt. _____ lb/Gal.
Viscosity 45 Filtrate 9.6

Tool Open @ 6:25 P.M. Initial Blow OPEN TO 1 1/2" IN 5 MIN-DIES TO NO BLOW IN 15 MIN

Final Blow NO BLOW ON FINAL FLOW

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of MUD 100%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3400 ppm System

(A) Initial Hydrostatic Mud 2579.1 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 56.0 PSI @ (depth) 5197 w / Clock No. 25108

(C) First Final Flow Pressure 68.3 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 87.4 PSI @ (depth) 5210' w / Clock No. 21048

(E) Second Initial Flow Pressure 73.9 PSI AK1 Recorder No. _____ Range _____

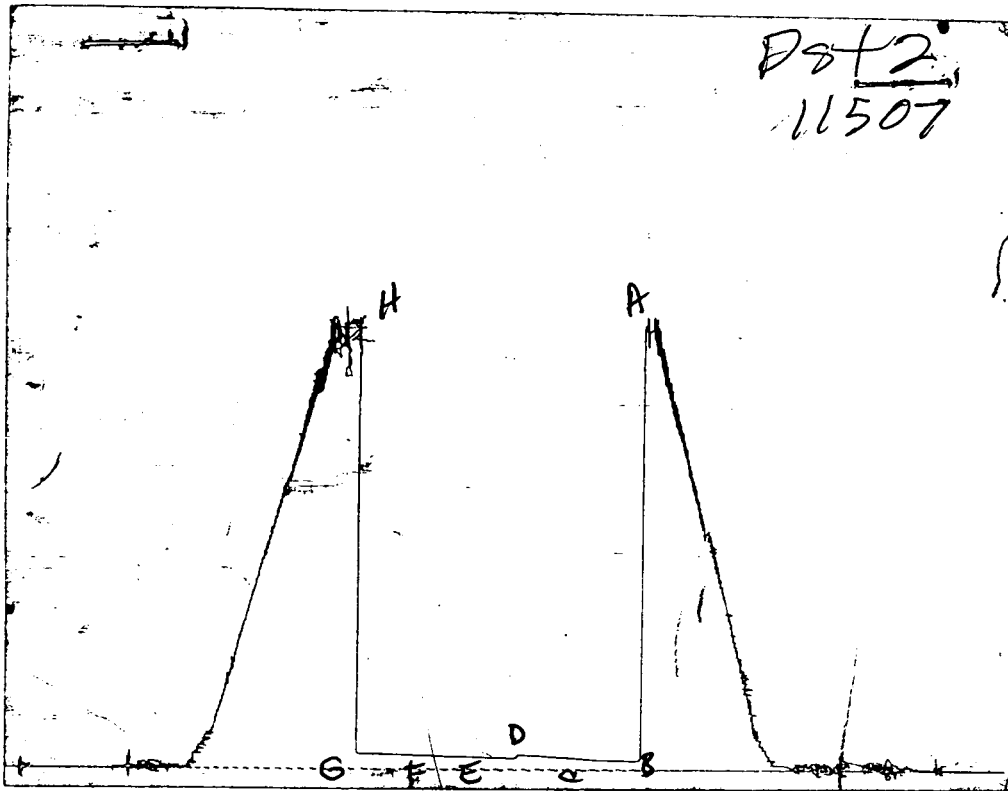
(F) Second Final Flow Pressure 73.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 86.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2561.0 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart 11057

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	2581	2579.1
(B) FIRST INITIAL FLOW PRESSURE	44	56
(C) FIRST FINAL FLOW PRESSURE	55	68.3
(D) INITIAL CLOSED-IN PRESSURE	78	87.4
(E) SECOND INITIAL FLOW PRESSURE	56	73.9
(F) SECOND FINAL FLOW PRESSURE	56	73.9
(G) FINAL CLOSED-IN PRESSURE	89	86.3
(H) FINAL HYDROSTATIC MUD	2572	2561

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name SANTA FE FEEDERS 1-36 Test No. 3 Date 9/30/94
Company HUGOTON ENERGY CORP Zone KC "G"
Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2948
Co. Rep./Geo. DON PATE Cont. MURFIN RIG #20 Est. Ft. of Pay _____
Location: Sec. 36 Twp. 28S Rge. 33W Co. HASKELL State KS

Interval Tested	<u>4374-4392</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>18</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4369-4374</u>	Drill Collar - 2.25 Ft. Run	<u>235</u>
Bottom Packer Depth	<u>4392</u>	Mud Wt.	<u>9.1</u> lb/Gal.
Total Depth	<u>5690</u>	Viscosity	<u>45</u>
		Filtrate	<u>9.6</u>

Tool Open @ 3:45 A.M. Initial Blow STRONG BLOW-BOTTOM OF BUCKET IN 2 MIN ISI: BLED OFF
BLOW- NO BLOW BACK

Final Blow STRONG BLOW-BOTTOM OF BUCKET IN 3 MIN - FSI: BLED OFF BLOW

Recovery - Total Feet 2225 Flush Tool? NO

Rec. <u>240</u>	Feet of	<u>DRILLING MUD</u>
Rec. <u>1985</u>	Feet of	<u>SALT WATER</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.122 @ 60 °F Chlorides 88000 ppm Recovery Chlorides 3600 ppm System

(A) Initial Hydrostatic Mud 2245.4 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 169.2 PSI @ (depth) 4376 w / Clock No. 25108

(C) First Final Flow Pressure 643.9 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1223.0 PSI @ (depth) 4384 w / Clock No. 21048

(E) Second Initial Flow Pressure 697.5 PSI AK1 Recorder No. 2023 Range _____

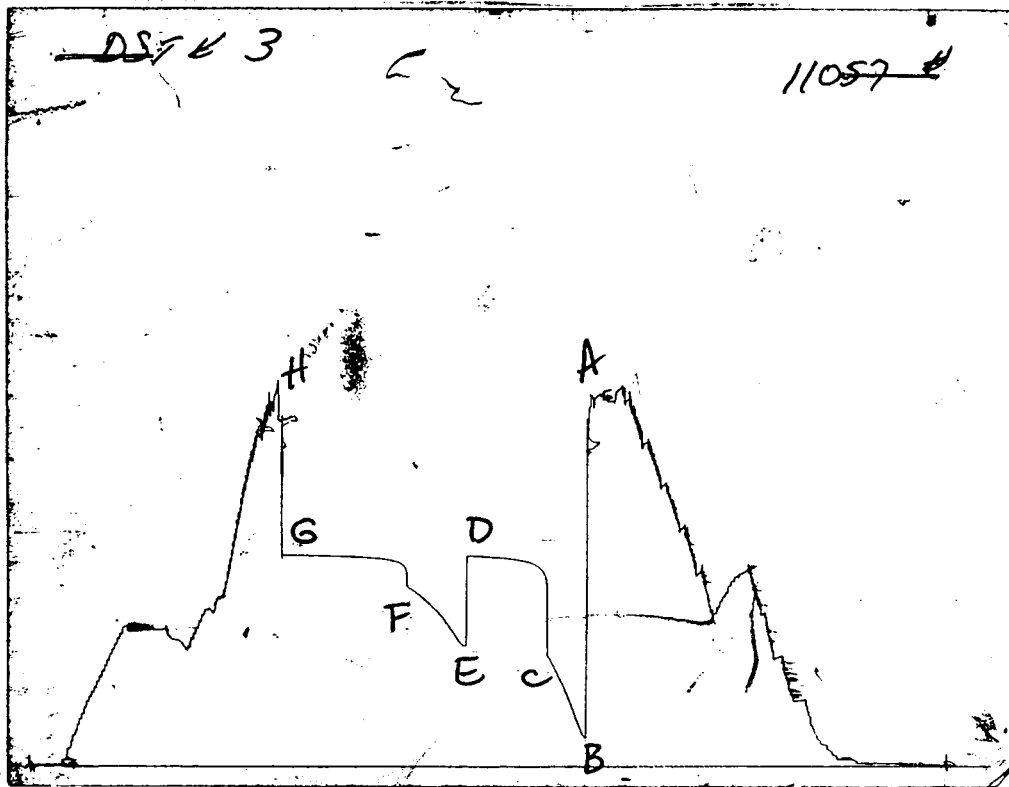
(F) Second Final Flow Pressure 1044.8 PSI @ (depth) _____ w / Clock No. 7452

(G) Final Shut-in Pressure 1340.8 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2132.3 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

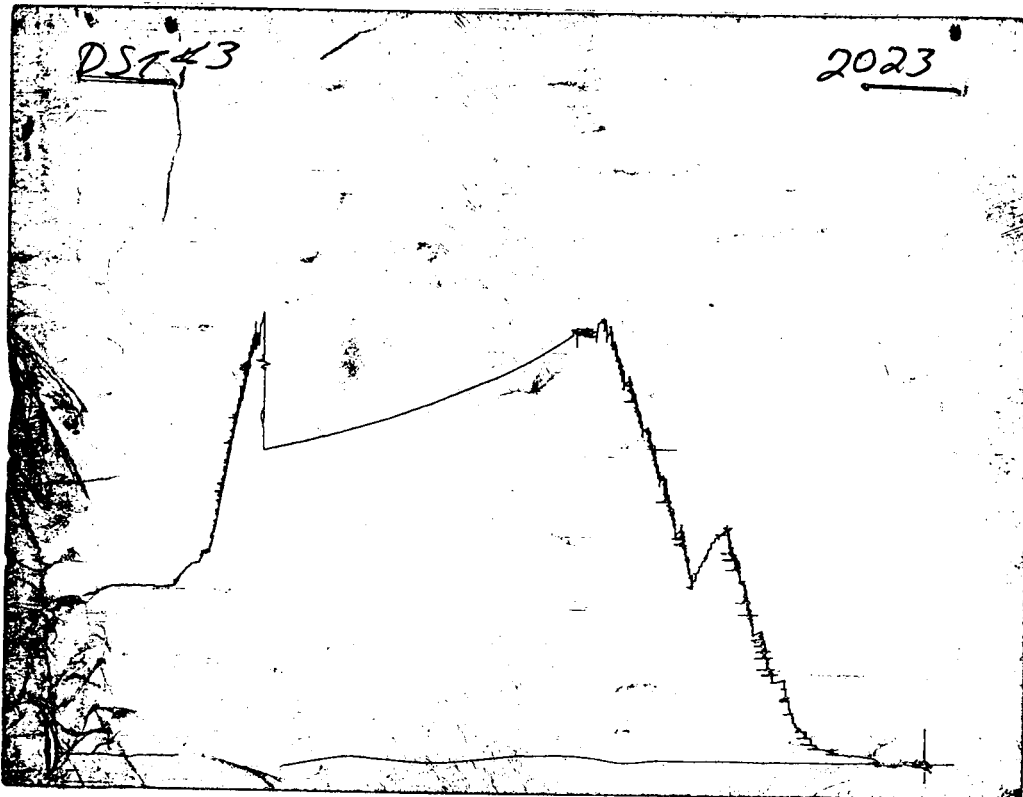
CHART PAGE



This is an actual photograph of recorder chart 11057

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2208	2245.4
(B) FIRST INITIAL FLOW PRESSURE	168	169.2
(C) FIRST FINAL FLOW PRESSURE	638	643.9
(D) INITIAL CLOSED-IN PRESSURE	1219	1223
(E) SECOND INITIAL FLOW PRESSURE	694	697.5
(F) SECOND FINAL FLOW PRESSURE	1040	1044.8
(G) FINAL CLOSED-IN PRESSURE	1219	1340.8
(H) FINAL HYDROSTATIC MUD	2117	2132.3

CHART PAGE



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