

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 129-21332-0000
County MORTON
C - NE - NW - SE - SW Sec. 20 Twp. 32S Rge. 43W X E

Operator: License # 3871
Name: Hugoton Energy Corporation
Address 301 N. Main, Suite 1900
City/State/Zip Wichita, KS 67202

4620 FSL Feet from S (circle one) Line of Section
3200 FEL Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW, or SW (circle one)

Purchaser: KOCH
Operator Contact Person: Jim Gowens
Phone (316) 262-1522

Lease Name FROWNFEELTER Well # 1-20
Field Name REYER
Producing Formation MORROW

Contractor: Name: Allen Drilling Company
License: 5418

Elevation: Ground 3598' KB 3611'
Total Depth 5300' PBD

Wellsite Geologist: Ken LeBlanc

Amount of Surface Pipe Set and Cemented at 16 1/2 1659 Feet.

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3029' Feet

If Alternate II completion, cement circulated from NA

feet depth to w/ sx cmt.

If Workover/Re-Entry: old well info as follows:

Drilling Fluid Management Plan ALT 1 87 11-4-95
(Data must be collected from the Reserve Pit)

Chloride content 800 mg/l/ppm Fluid volume 400 bbls

Dewatering method used EVAPORATION

Location of fluid disposal if hauled offsite:

Operator Name 12-11-1996 NOV 22

Lease Name DEC 11 1996 License No. CONFIDENTIAL

Quarter CONFIDENTIAL Twp. S Rng. E/W

County CONFIDENTIAL Docket No. CONFIDENTIAL

09/07/94 09/21/94 10/18/94
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106, and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

Title Jim Gowens, V.P. Exploration Date 11/21/94

Subscribed and sworn to before me this 21 day of November 19 94.

Notary Public [Signature]

Date Commission Expires

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify) CONFIDENTIAL
STATE OF KANSAS

SARAH E. REYNOLDS
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-22-96

Form ACO-1 (7-91) NOV 23 1994

SIDE TWO

Operator Name Hugoton Energy Corporation Lease Name FROWNFEELER Well # 1-20

Sec. 20 Twp. 32S Rge. 43W East West
 County MORTON

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample.
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SEE ATTACHED SHEET		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

List All E. Logs Run: DIL, PDS, ML, BHC

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12-1/4"	8-5/8"	25#	1659'	65/35 C Poz Class 'C'	560 150	6% D20+2% SI+1/4 #/sk D29 2% SI+1/4 #/sk D29
production	7-7/8"	4-1/2"	10.5#	4937'	Class 'C'	175	2% SI+6% D60+1/4#/sk D29
port collar				3029'	Paceset. Lite Class 'C'	500 100	5 #/sk Hi-seal 2% Cacl2

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2	4741' - 4744' (3')			

TUBING RECORD

Size 2-3/8" Set At 4901' Packer At NA Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 10/29/94 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours: Oil 16 Bbls. Gas 0 Mcf Water 49 Bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: METHOD OF COMPLETION

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____ Production Interval 4741-4744

*****TIGHT HOLE*****
Drill Stem Test Information for ACO-1
Hugoton Energy Corporation
Frownfelter #1-20
Sec. 20-32S-43W
Morton County, KS
API #15-129-21332

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DST 1

Test Interval: 3577' - 3730'

Times: 30-60-45-90

First Open: Strong blow.

Second Open: Strong blow - gas to surface in 15 minutes.

Recovery 558' Gassy Mud

Pressures IHP 1760
IFP 107-129
ISIP 538
FFP 215-215
FSIP 538
FHP 1760

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DST 2

Test Interval: 4743' - 4772'

Times: 30-60-60-120

First Open: Strong blow - Gas to surface in 15 minutes..

Recovery 400' Free Gassy Oil
600' Slightly Gas Cut Saltwater

Pressures IHP 2295
IFP 95-117
ISIP 1025
FFP 170-288
FSIP 1025
FHP 2242

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*****TIGHT HOLE*****

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Additional Information for ACO-1
Hugoton Energy Corporation
Frownfelter #1-20
Sec. 20-32S-43W
Morton County, KS
API #15-129-21332

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample.
Name	Top	Datum
WABAUNSEE	2688	+923
ELMONT	2904	+707
HEEBNER	3266	+345
KANSAS CITY PAY	3703	-92
MARMATON	3874	-263
MORROW	4572	-961
MORROW C SD	4740	-1129
MORROW D SD	4842	-1231
MORROW F SD	4892	-1281
MORROW G-1 SD	4958	-1347
MORROW G-2 SD	4996	-1385
KEYES	5009	-1398
CHESTER	5048	-1437
ST. GEN.	5098	-1487
ST. LOUIS	5118	-1507

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STATE OF KANSAS

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CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 037-6437 DATE: 9/9/94
 STAGE: DS DISTRICT: UKS 0312

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. FLOWN FATER 1-20	LOCATION (LEGAL) SEC 20-32S-36W	RIG NAME: ALLEN 5
FIELD-POOL HUGOTON	FORMATION SURFACE	WELL DATA:
COUNTY/PARISH MORTON	STATE KS	BIT SIZE 12 1/4
		CSG/Liner Size 8 5/8
		TOTAL DEPTH 24
		WEIGHT 1659
		FOOTAGE 1659
		GRADE
		THREAD 8rd
		LESS FOOTAGE SHOE JOINT(S) 410
		Disp. Capacity 104
		TOTAL 104

NAME: HUGOTON ENERGY
 AND: **CONFIDENTIAL**
 ADDRESS: **CONFIDENTIAL**
 ZIP CODE:

SPECIAL INSTRUCTIONS: MUK & PUMP 560 xk load
 slurry followed by 150 xk Tail slurry
 Displace obtained & top meter plug
 with 10ft BBL with salt an unthickened
 by company representative

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 688 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT 1500 PSI BUMP PLUG TO 500 over PSI
 ROTATE RPM RECIPROCATATE FT No. of Centralizers 5

Float	TYPE	INERT AUTO FILL	TYPE	
	DEPTH	1618	DEPTH	
Stage Tool	TYPE	GUIDE TEXAS	TYPE	
	DEPTH	1659	DEPTH	
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB		
<input type="checkbox"/> Double	SIZE	TOOL	TYPE	
<input checked="" type="checkbox"/> Single	WEIGHT	DEPTH		
<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE	DEPTH	
<input type="checkbox"/> Knockoff	THREAD	TUBING VOLUME		Bbbls
TOP <input checked="" type="checkbox"/> OR <input type="checkbox"/> CW	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL		Bbbls
BOT <input type="checkbox"/> OR <input type="checkbox"/> CW	DEPTH	TOTAL		Bbbls
		ANNUAL VOLUME		Bbbls

TIME: 0001 to 2400 PRESSURE: TBG OR D.P. CASING VOLUME PUMPED BBL: INCREMENT CUM JOB SCHEDULED FOR TIME: 23:30 DATE: 9/9/94 ARRIVE ON LOCATION TIME: 23:30 DATE: 9/9/94 LEFT LOCATION TIME: DATE:

TIME	PRESSURE	VOLUME PUMPED BBL	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
3:50						PRE-JOB SAFETY MEETING
3:58	170	22	5.8	H ₂ O	8.3	Pump water spool
4:01	230	88	5.8	Lead	12.2	Start lead slurry
4:13	170	158	5.9	Lead	12.2	Psi/density check
4:25	170	222	5.9	Lead	12.2	Psi/density check
4:36	170	231	5.9	Lead	12.2	Psi/density check
4:37	250	266	5.8	tail	14.8	Start tail slurry
4:44	0	0	0			Drop top plug
4:46	100	306	5.9	H ₂ O	8.3	Start Displacement
4:52	170	386	5.9	H ₂ O	8.3	Psi check
4:59	450	370	5.9	H ₂ O	8.3	Cement circulated to surface
5:07	880	0	0			Bump plug
5:09	0	0	0			Block off pressure - checks returns.
5:10						Float holds - End job.

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SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLs	DENSITY
1.	560	2.1	65/35 C/Poz + 67-D20 + 2% Si + 1/4 #/sk D29	209	12.2
2.	150	1.37	clan C + 2% Si + 1/4 #/sk D29	35	14.8
3.					
4.					
5.					
6.					

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. VOLUME: CIRCULATION LOST YES NO PRESSURE: MAX. MIN. Cement Circulated To Surf. YES NO 24 Bbbls.

BREAKDOWN: PSI FINAL PSI DISPLACEMENT VOL. 104 Bbbls TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT

PERFORATIONS: TO TO TO TO CUSTOMER REPRESENTATIVE: G.D. Hall DS SUPERVISOR: Thomas [Signature]

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 0312-6476 DATE 9/22/94
 STAGE I DS DISTRICT UKS - 03-12

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. FROWN FELTER 1-20 LOCATION (LEGAL) SEC20-32S-43W RIG NAME: AAN DE19
 FIELD-POOL HUGOTON FORMATION
 COUNTY/PARISH MORTON STATE KS API. NO.
 NAME HUGOTON ENERGY
 AND
 ADDRESS
 ZIP CODE
 SPECIAL INSTRUCTIONS @ 14.8 gpm Displace with 5512 water behind top rubber plug as instructed by company representative

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WELL DATA: BOTTOM TOP
 BIT SIZE 7 7/8 CSG/Liner Size 4 1/2
 TOTAL DEPTH 5325 WEIGHT 10.5
 ROT CABLE FOOTAGE 4953
 MUD TYPE GRADE
 BHST BHCT THREAD 8rd
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 4.1 TOTAL
 MUD VISC. Disp. Capacity 78.1 BBL
 NOTE: Include Footage From Ground Level To Head In Disp. Capacity

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 3500 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT PSI BUMP PLUG TO 500 OVER PSI
 ROTATE RPM RECIPROCATE FT No. of Centralizers 6
 Head & Plugs TBG D.P. SQUEEZE JOB
 Double WEIGHT TYPE
 Single GRADE DEPTH
 Swage THREAD TAIL PIPE: SIZE DEPTH
 Knockoff NEW USED TUBING VOLUME Bbls
 TOP OR DEPTH CASING VOL. BELOW TOOL Bbls
 BOT OR DEPTH TOTAL Bbls
 ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: 3:30	DATE: 9/22/94	TIME: 3:30	DATE: 9/22/94	TIME:	DATE:	
0001 to 2400					INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
10:30								PRE-JOB SAFETY MEETING			
10:40	2000		0		0	H ₂ O	8.3	Pressure Test lines			
10:47		430	10		7.4	CM100	8.3	Pump CM100 spacers			
10:49		380	8		7.2	scav.	11.0	Pump scavenger slurry			
10:50		330	46		7.0	tail	14.8	Start Tail Slurry			
10:57		0	0		0			Wash up behind plug			
11:04		160	40		7.1	H ₂ O	8.3	Start Displacement			
11:10		100	20		6.5	H ₂ O	8.3	Pis check			
11:13		200	13		6.0	H ₂ O	8.3	Pis check			
11:15		400	14		2.4	H ₂ O	8.3	Slow rate to bump plug			
11:18		1050			0			Bump plug to 1036 psi			
11:19		0	0		0			Shut off pressure - dead float			
11:20								End job			

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REMARKS FROM CONFIDENTIAL

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	175	1.32	Class C + 2% SI + 6% D60 + 1/4 #/sk 729		54	14.8
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. 1030 MIN. 90
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. ++ Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
 PERFORMANCES TO TO CUSTOMER REPRESENTATIVE DS SUPERVISOR
 Joe Brongher Thomas Hill



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

CUSTOMER <i>Wheaton Cement</i>	DATE <i>10-15-96</i>	F.R.# <i>20022</i>	SER/SUP <i>McClellan</i>	TYPE JOB <i>18</i>
LEASE & WELL NAME - OCSG <i>Wheaton 1820</i>	LOCATION <i>20022 - 3rd - 43rd</i>	COUNTY-PARISH-BLOCK <i>Ward 10, B.S.</i>		
DISTRICT <i>Wheaton</i>	DRILLING CONTRACTOR RIG # <i>McClellan</i>	OPERATOR <i>SMP</i>		

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE	SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES					
	TOP	BTM				SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER

		<i>N/A</i>	<i>N/A</i>											
<i>500</i>	<i>-</i>	<i>Parasettenlite Plus - 5th Hi-SEAL</i>				<i>12.4</i>	<i>2.00</i>	<i>11.0</i>	<i>5</i>	<i>172</i>				
<i>100</i>	<i>-</i>	<i>CLs - "C" - 2% CaCl₂</i>				<i>14.8</i>	<i>1.32</i>	<i>10.3</i>	<i>3 1/2</i>	<i>23</i>				

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Available Mix Water _____ Bbl. Available Displ. Fluid _____ Bbl. TOTAL *201*

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT.	DEPTH	SIZE	WGT.	DEPTH	SHOE	FLOAT	STAGE
<i>-</i>	<i>-</i>	<i>-</i>	<i>2 3/8</i>	<i>-</i>	<i>3022</i>	<i>4 1/2</i>	<i>10.5</i>	<i>3022</i>	<i>-</i>	<i>-</i>	<i>3022</i>

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
<i>4 1/2</i>	<i>10.5</i>	<i>-</i>	<i>6000</i>	<i>Tech. Line</i>	<i>3022</i>	<i>-</i>	<i>-</i>	<i>2 3/8</i>	<i>9[#]</i>	<i>H₂O</i>	<i>8.3</i>

CAL. DISPL. VOL. - Bbl.				CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE	
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SO. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.					
<i>11.7</i>	<i>-</i>	<i>-</i>	<i>11.7</i>	<i>-</i>	<i>900</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>H₂O</i>	<i>8.3</i>	<i>TRANS</i>				

EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG. ETC. PRIOR TO CEMENTING.

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	
<i>10:23</i>	<i>2000</i>	<i>OPEN</i>	<i>1 1/2</i>	<i>5</i>		<i>2000</i>	<i>PSI @ 10:20</i>
<i>10:28</i>	<i>500</i>	<i>"</i>	<i>3</i>	<i>5</i>		<i>2000</i>	<i>PSI @ 10:20</i>
<i>10:32</i>	<i>600</i>	<i>"</i>	<i>4</i>	<i>200</i>		<i>2000</i>	<i>PSI @ 10:20</i>
<i>11:23</i>	<i>1500</i>	<i>"</i>	<i>4</i>	<i>0</i>		<i>2000</i>	<i>PSI @ 10:20</i>
<i>11:26</i>	<i>1200</i>	<i>"</i>	<i>4</i>	<i>11.7</i>		<i>2000</i>	<i>PSI @ 10:20</i>
<i>11:27</i>	<i>0</i>	<i>"</i>	<i>4</i>	<i>11.7</i>		<i>2000</i>	<i>PSI @ 10:20</i>
<i>11:24</i>	<i>800</i>	<i>"</i>	<i>3</i>	<i>0</i>		<i>2000</i>	<i>PSI @ 10:20</i>
<i>11:42</i>	<i>800</i>	<i>"</i>	<i>3</i>	<i>20</i>		<i>2000</i>	<i>PSI @ 10:20</i>

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[Handwritten signatures and initials]

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP	CUSTOMER REP
<i>Y (N)</i>	<i>-</i>	<i>Y (N)</i>	<i>240</i>	<i>3</i>	<i>0</i>	<i>0</i>	<i>D. Arrington</i>	<i>J. Brougher</i>