

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

API NO. 15- 175-21411-0000
County Seward
Appx. W/2-SW- Sec. 3 Twp. 32S Rge. 33W x W E

Operator: License # 3871
Name: Hugoton Energy Corporation
Address 301 N. Main, Suite 1900

1503 FSL Feet from S/N (circle one) Line of Section
4620 FEL Feet from E/W (circle one) Line of Section

City/State/Zip Wichita, KS 67202

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

Purchaser: KOCH (OIL), CIBOLA (GAS)

Lease Name GRAHAM Well # 2-3

Operator Contact Person: Jim Gowens

Field Name ANG

Phone (316) 262-1522

Producing Formation MORROW/CHESTER

Contractor: Name: VAL Energy, Inc.

Elevation: Ground 2882' KB 2887'

License: 5822

Total Depth 5843' PBSD

Wellsite Geologist: Wes Hansen

Amount of Surface Pipe Set and Cemented at 1771' Feet.

Designate Type of Completion
 New Well Re-Entry Workover

Multiple Stage Cementing Collar Used? Yes No

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)

If yes, show depth set _____ 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 I 10-31-95 JK
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 4700 ppm Fluid volume 400 bbls

Well Name: _____

Dewatering method used Evaporation NLC

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: NOV 1 8

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBSD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

Operator Name RELEASED CONFIDENTIAL

Lease Name _____ License No. _____

07/30/94 08/10/94 09/27/94
Spud Date Date Reached TD Completion Date

DEC 11 1996
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County FROM CONFIDENTIAL Docket No. _____

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 Jim Gowens

Title Jim Gowens, V.P. Exploration Date _____

Subscribed and sworn to before me this 17 day of Nov. 1994.

Notary Public Sarah E. Reynolds

Date Commission Expires _____

SARAH E. REYNOLDS
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-2-96

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
S Geologist Report Received
Distribution
DEC 11 1996
 KCC SWD/Rep NGPA
 KGS Plug OM Other
(Specify)
WICHITA, KANSAS

SIDE TWO

Operator Name Hugoton Energy Corporation Lease Name GRAHAM Well # 2-3

Sec. 3 Twp. 32S Rge. 33W East West
 County SEWARD

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 checked="" type="checkbox"/> Sample. <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>HEEBNER</td> <td>4207</td> <td>-1320</td> </tr> <tr> <td>LANSING 'G' POROSITY</td> <td>4506</td> <td>-1619</td> </tr> <tr> <td>KC 'A'</td> <td>4785</td> <td>-1898</td> </tr> <tr> <td>MARMATON 'A'</td> <td>4965</td> <td>-2078</td> </tr> <tr> <td>PAWNEE</td> <td>5080</td> <td>-2193</td> </tr> <tr> <td>CHEROKEE SH</td> <td>5146</td> <td>-2259</td> </tr> <tr> <td>MORROW SH</td> <td>5502</td> <td>-2615</td> </tr> <tr> <td>CHESTER SAND</td> <td>5694</td> <td>-2807</td> </tr> <tr> <td>ST. GEN.</td> <td>5792</td> <td>-2905</td> </tr> </tbody> </table>	Name	Top	Datum	HEEBNER	4207	-1320	LANSING 'G' POROSITY	4506	-1619	KC 'A'	4785	-1898	MARMATON 'A'	4965	-2078	PAWNEE	5080	-2193	CHEROKEE SH	5146	-2259	MORROW SH	5502	-2615	CHESTER SAND	5694	-2807	ST. GEN.	5792	-2905
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ST. GEN.	5792	-2905																														
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																															
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
List All E. Logs Run:	GRN																															

CASING RECORD							
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"	23#.25#	1771'	Paceset Lite Class 'C'	650 100	2% Cacl2 + .25 #/sk Cello 2% Cacl2
production	7-7/8"	4-1/2"	11.6#	5806'	Class C	150	10% Thixod + 10% Salt + .5% CF-2 + 5#/sk Hi Seal 2
port collar				3150'	Lite Class C	400 150	

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth Top	Depth Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Perforate					
Protect Casing					
Plug Back TD					
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	5726' - 5730' (4')		500 Gal 15% NE FE acid	5726-5730' 5551-5556'
2	5551' - 5556' (5')			

TUBING RECORD		Size <u>2-3/8"</u>	Set At <u>5706'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. <u>09/27/94</u>		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil <u>60</u>	Bbls.	Gas <u>175</u>	Mcf <u>0</u>	Water <u>0</u> Bbls. Gas-Oil Ratio Gravity

Disposition of Gas; **METHOD OF COMPLETION**

Vented Sold Used on Lease (If vented, submit ACO-18)

Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval 5726-5730'
5551-5556'

*****TIGHT HOLE*****
Drill Stem Test Information for ACO-1
Hugoton Energy Corporation
Graham #2-3
Sec. 3-32S-33W, Seward County, KS
API #15-175-21411

ORIGINAL

DST 1

Test Interval: 5490' - 5575'

Times: 30-60-60-120

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First Open: Strong blow - built to the bottom of a 5 Gallon bucket in 1-1/2 minutes.

Second Open: Strong blow - built to the bottom of a 5 Gallon bucket in 1/2 minute.

Recovery 120' Gassy Heavy Mud

Pressures IHP 2723
 IFP 189-234
 ISIP 1152
 FFP 234-234
 FSIP 1561
 FHP 2721

DST 2

Test Interval 5665' - 5750'

Misrun - Packer failure.

RELEASED

DEC 11 1996

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STATE CORPORATION COMMISSION
NOV 21 1994
CONSERVATION DIVISION
WICHITA, KANSAS



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

ORIGINAL

CUSTOMER Huron Energy		DATE 7/2/90	FR # 1290034	SER SUP HURON	TYPE JOB 11
LEASE & WELL NAME-CCSG COPPER 2-3		LOCATION 2-225-7300		COUNTY-PARISH-BLOCK SARASOTA FLA.	
DISTRICT HURON		DRILLING CONTRACTOR-RIG #		OPERATOR SAME	

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

650 - Pacesetterlite Plus - 2% Cacl ²	25 5/8	5W	65-Insert - Cent-Basket			12.7	1.86	10.	54	21.5	15.5	1209
150 - CLs. "C" - 2% Cacl ²						14.8	1.32	16.8	3 1/2	35	23	198

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Available Mix Water 200 Bbl. Available Displ. Fluid 120 Bbl. TOTAL 250 178

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
12 1/4	100	1776	8 5/8	24	-	1776	-	-	-	1776	1747	-	

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.
-	-	-	-	-	-	-	-	8 5/8	2R	mud	8.8

CAL. DISPL. VOL.-Bbl.				CAL. 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.	SOURCE	
-	-	-	111.1	600	-	-	-	-	-	-	-	170	8.3	1.7

EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG. ETC. PRIOR TO CEMENTING. Csg 1747 - Bottom 15' 00' Csg 1505 -

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> ETC: REP <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	
15:05	100					2000 PSI @ 15:15	
15:18	300		4	20		CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input checked="" type="checkbox"/>	
15:23	300		7	250		H2O Ahead	
15:59						Mix Cmt 650/150	
16:00	900		8 1/6	0		Drop Plug (WASH OFF)	
16:21	1000		2	111.1		Disp w/ H2O	
16:22	0					Bump Plug	
						Check Float	

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K. J. J.
D. J. J.
D. J. J.

BUMPED PLUG (Y) N	PSI TO BUMP PLUG 700	TEST FLOAT EQUIP. N	TOTAL Bbl. PUMPED 380	Bbl. CMT RETURNS/ REVERSED 20	PSI LEFT ON CSG 0	SPOT TOP CEMENT 0	SER. SUP. D. ACCINGTON	CUSTOMER REP. J. Brougher
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THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

ORIGINAL

CUSTOMER <i>Houston Energy</i>	DATE <i>8/12/94</i>	FR # <i>289150</i>	SER. SUP. <i>J. Conaley</i>	TYPE JOB <i>OTB</i>
LEASE & WELL NAME CSGG <i>Stroman 2-3</i>	LOCATION <i>Sec 3 725 37W</i>	COUNTY-PARISH-BLOCK <i>Stavort 13</i>		
DISTRICT <i>Houston 7A</i>	DRILLING CONTRACTOR RIG #	OPERATOR <i>Houston Energy</i>		

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

150 sks Class C + 10% Thixod + 10% Salt + .5% CF-2 + 5% Hl Hi Seal 2

4780 14.7 1.56 6.99 41.7 25

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Available Mix Water *300* Bbl. Available Displ. Fluid _____ Bbl. TOTAL _____

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
<i>7 7/8</i>		<i>5843</i>	<i>4 1/2</i>	<i>11.6</i>	<i>J. 555878</i>						<i>2808</i>	<i>2808</i>	<i>1</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>8 5/8</i>	<i>24"</i>	<i>J-55</i>	<i>1770</i>						<i>4 1/2</i>	<i>8 in.</i>	<i>Prod</i>	<i>9.0</i>

CAL. DISPL. VOL.-Bbl.				CAL. PSI		CAL. MAX PS		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>/</i>	<i>/</i>	<i>90</i>	<i>90</i>	<i>1200</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>160</i>	<i>8.3</i>	<i>0.3</i>		<i>0.3</i>	

EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG, ETC. PRIOR TO CEMENTING: *Running Pipe*

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI PIPE	PRESSURE-PSI ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input checked="" type="checkbox"/>	
<i>2:00</i>	<i>0-300</i>		<i>4.0-5.0</i>	<i>5</i>	<i>Cement</i>	<input checked="" type="checkbox"/> TEST LINES <i>2800</i> PSI	
<i>2:02</i>	<i>300-0</i>		<i>4.0-5.0</i>	<i>45</i>	<i>Cement</i>	<input checked="" type="checkbox"/> CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input type="checkbox"/>	
<i>2:11</i>						<i>All Slurry Shut Down</i>	
<i>2:12</i>						<i>Open Pumps & Lines</i>	
<i>2:19</i>	<i>0-600</i>		<i>5.0-8.0</i>	<i>80</i>	<i>H2O</i>	<i>Open Plug Start Displacement</i>	
<i>2:29</i>	<i>600-500</i>		<i>2.5</i>	<i>80</i>	<i>H2O</i>	<i>Slow Rate</i>	
<i>2:33</i>	<i>500-1000</i>			<i>10</i>	<i>H2O</i>	<i>Shut Down, Plug Bumped</i>	
<i>2:34</i>						<i>Bleed Back Float Holding</i>	

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STATE CUR. DIVISION

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DIVISION

BUMPED PLUG <i>Q N</i>	PSI TO BUMP PLUG <i>1000</i>	TEST FLOAT EQUIP. <i>Q N</i>	TOTAL Bbl. PUMPED <i>140</i>	Bbl. CMT RETURNS/ REVERSED <i>/</i>	PSI LEFT ON CSG <i>/</i>	SPOT TOP CEMENT <i>4780</i>	SER. SUP. <i>J. Conaley</i>
							CUSTOMER REP. <i>Joe Droughte</i>



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

ORIGINAL

CUSTOMER HUGGON ENERGY CORP	DATE 11-27-94	FR # 280045	SER SUP ARRINGTON	TYPE JOB LONG STRING
LEASE & WELL NAME GRAHAM 2-3	LOCATION 3-326-35W	COUNTY-PARISH-BLOCK STWARD KS		
DISTRICT PERRYTON	DRILLING CONTRACTOR RIG # 110	OPERATOR		

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS	LIST-CSG-HARDWARE	SQ MANI FOLD	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES					
					SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
400 SX PSL PLUS + 8% GEL + 2% CACL ² + 5#/SK HI-SEAL 2					12.3	2.13	11.4	6	151	110
150 SX C + 2% CACL ²					14.8	1.32	6.3	4	35	23

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Available Mix Water	Bbl.	Available Displ. Fluid	Bbl.	TOTAL	186	133							
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
		2 3/8				3068	4 1/2"			3068			3068
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.		
4 1/2"			5784	TECHLINE	3068			2 3/8	8 ^R	MUD	8.9		
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	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	
			11.8					2000		2000	WATER	8.3	EXPORT

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 & CO. REP	
	PIPE	ANNULUS				TEST LINES	2100 PSI
10:50	2000						CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>
10:54	800		4 1/2	10			TEST TOOL.
10:57	1000		4 1/2	186			WATER PAD.
11:41	200		3 1/2	0			MIX CEMENT. NOG
11:44	600			11 1/2			DISPLACE (WASH ON).
11:50	2000		1	.5			SHUT DOWN. NOV 18
							CLOSE TOOL & TEST. CONFIDENTIAL
12:09	1000		2	0			REVERSE OUT.
12:20	400		2 1/2	25			SHUT DOWN. RELEASED
							DEC 11 1996
							FROM CONFIDENTIAL

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. ARRINGTON
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