

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

API NO. 15- 055-21196-0000
County Finney **ORIGINAL**
C - SW - _____ Sec. 21 Twp. 21S Rge. 32 E W

1320 Feet from S/N (circle one) Line of Section
1320 Feet from E/W (circle one) Line of Section

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

Lease Name Greathouse Well # 2-21

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2909' KB 2914'

Total Depth 2814' PBDT 3100'

Amount of Surface Pipe Set and Cemented at 338 Feet.

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ACT II 10-29-93
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 3871

Name: Hugoton Energy Corporation

Address 229 E. William, Suite 500

City/State/Zip Wichita, KS 67202

Purchaser: Spot

Operator Contact Person: Jim Gowens

Phone (316) 262-1522

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: N/A

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc.)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

05-14-93 05-16-93 06-22-93

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 _____

Title Jim Gowens, Exploration Manager Date 9-29-93

Subscribed and sworn to before me this 29 day of Sept. 19 93.

Notary Public Sarah E. Reynolds

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)
RECEIVED
SEP 30 1993

SARAH E. REYNOLDS
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 9-22-96

Operator Name Hugoton Energy Corporation Lease Name Greathouse Well # 2 - 21
 Sec. 21 Twp. 21S Rge. 32 East West
 County Finney

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" 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	T/Anhydrite	2005
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B/Anhydrite	2090
List All E. Logs Run:	NO OH LOGS RUN 6NL	Herington	2625
		Krider	2655
		Winfield	2715

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"	24#	338'	Class C	210	2% cc
Production	7-7/8"	4-1/2"	9.5	2806'	lite & Class C	650	2% cc

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	2684 - 2694	

TUBING RECORD

Size 2-3/8 Set At 2705 Packer At N/A Liner Run Yes No

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

Estimated Production Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Per 24 Hours ***

Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2684 - 2694

(If vented, submit ACO-18) Other (Specify) _____

****WILL REFILE WITH PRODUCTION WHEN ON-LINE****

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO Great House #2	LOCATION (LEGAL) 21-215-320	RIG NAME
FIELD-POOL Hugoton	FORMATION Surface	WELL DATA
COUNTY/PARISH Finney	STATE Ks.	API NO
NAME Hugoton Energy	AND	WELL DATA
ADDRESS	ZIP CODE X	BIT SIZE 17 1/4
SPECIAL INSTRUCTIONS		CSQ/Liner Size 8 5/8
		TOTAL DEPTH 24
		WEIGHT 24
		ROT <input checked="" type="checkbox"/> CABLE <input type="checkbox"/>
		FOOTAGE 340
		MUD TYPE GRADE
		GRADE
		BHST <input type="checkbox"/> BHCT <input type="checkbox"/>
		THREAD 801
		MUD DENSITY 301
		LESS FOOTAGE SHOE JOINT(S)
		MUD VISC 303
		DISP CAPACITY
		DISP CAPACITY 303
		NOTE: Include Footage From Ground Level To Head In Disp Capacity

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE 139 PSI	CASING WEIGHT - SURFACE AREA (3.14 x RP)
PRESSURE LIMIT 500 PSI	BUMP PLUG TO 1120 PSI	ROTATE 500 RPM
RECIPROCATE <input type="checkbox"/>	FT 1120	No of Centralizers 3
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> DP	SQUEEZE JOB
<input type="checkbox"/> Double	SIZE 1 1/2	TOOL TYPE
<input type="checkbox"/> Single	WEIGHT	DEPTH
<input type="checkbox"/> Swage	GRADE	TAIL PIPE SIZE
<input type="checkbox"/> Knockoff	THREAD	TUBING VOLUME
TOP <input checked="" type="checkbox"/> OR <input type="checkbox"/> W	NEW <input type="checkbox"/> USED	CASING VOL BELOW TOOL
BOT <input type="checkbox"/> OR <input type="checkbox"/> W	DEPTH	TOTAL
		ANNUAL VOLUME

TIME	PRESSURE		VOLUME PUMPED DBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM				TIME	DATE	TIME	DATE
20:37		1500	1	-	1	H2O	8.34	1900	5/14	2200	5/14
20:38		120	5	-	5.2	H2O	8.34				
20:39		140	49	-	5.8	Cmt.	14.8				
20:41		20									
20:49		10	19.3	-	5.0	H2O	8.34				
20:53		90	15	-	2.0						
20:54		1120	20	-	2.0						
20:55											

REMARKS: **81 sks. Returned**

SYSTEM CODE	NO. OF SACKS	YIELD CU FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			CLASS	ADDITIONALS	BBLS	DENSITY
1						
2	210	1.32	Class "C"	+ 2% SI + 1/4 #/SK 029	49	14.8
3						
4						
5						
6						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX 300 MIN 0
<input type="checkbox"/> HESITATION SO	<input type="checkbox"/> RUNNING SO	<input type="checkbox"/> CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 19 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL 19.3 Bbls
Washed Thru Peris <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT	MEASURED DISPLACEMENT <input type="checkbox"/>	<input type="checkbox"/> OIL <input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER
PERFORATIONS				<input checked="" type="checkbox"/> GAS <input type="checkbox"/> INJECTION <input type="checkbox"/> WILDCAT
TO		TO		
TO		TO		
		CUSTOMER REPRESENTATIVE	DS	SUPERVISOR
		Rodney		Spencer W. Ridgway

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TREATMENT NUMBER	5249	DATE	5/16/93
STAGE	DS	DISTRICT	03-12 UKS

WELL NAME AND NO. Great House # 2	LOCATION (LEGAL) Sec. 21-21s-32w
FIELD-POOL Hugoton	FORMATION Chase
COUNTY/PARISH Finney	STATE Ks.
API. NO.	
NAME Hugoton Energy	
AND	
ADDRESS	
ZIP CODE	

RIG NAME: Mun Fin # 20
WELL DATA: BOTTOM TOP
BIT SIZE 7 7/8 CSG/Liner Size 4 1/2
TOTAL DEPTH 2814 WEIGHT 9.5
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE FOOTAGE 2812
MUD TYPE GRADE
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT THREAD 8RD
MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 3.2
MUD VISC. Disp. Capacity 2780

SPECIAL INSTRUCTIONS:
Provide materials and services to safely cement 4 1/2 production string. (Used casing)

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE **1680** PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)

PRESSURE LIMIT **1240** PSI BUMP PLUG TO **1240** PSI

ROTATE **5** RPM RECIPROCATE **5** FT No. of Centralizers

NOTE: Include Footage From Ground Level To Head in Disp. Capacity
Float TYPE Auto Fill Insert DEPTH 2780
SHOE TYPE CMT Nose Guard DEPTH 12812
Head & Plugs <input type="checkbox"/> TBG <input type="checkbox"/> D.P. SQUEEZE JOB
<input type="checkbox"/> Double <input checked="" type="checkbox"/> Single <input type="checkbox"/> WEIGHT TOOL TYPE 115 DEPTH
<input type="checkbox"/> Swage <input type="checkbox"/> GRADE TAIL PIPE: SIZE DEPTH
<input type="checkbox"/> Knockoff <input type="checkbox"/> THREAD TUBING VOLUME Bbls
TOP <input checked="" type="checkbox"/> OR <input type="checkbox"/> NEW <input type="checkbox"/> USED CASING VOL. BELOW TOOL Bbls
BOT <input type="checkbox"/> OR <input type="checkbox"/> DEPTH TOTAL Bbls
ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: 19:00 DATE: 5/16			ARRIVE ON LOCATION TIME: 19:00 DATE: 5/16		LEFT LOCATION TIME: 01:00 DATE: 5/17	
	TBG OR D.P.	CASING	INCREMENT	GUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG/DETAIL			
0001 to 2400								PRE-JOB SAFETY MEETING			
23:14	2000	-	1	-	1	H2O	8.34	PSI Test Line 29-23			
23:15		50	10	-	5.7	H2O	8.34	Start H2O Ahead			
23:17		280	168	-	5.7	Cmt	12.2	Start Lead Cmt.			
23:45		220	47	-	5.7	Cmt	14.8	Start Tail Cmt.			
23:53								Shutdown - Wash pump + lines - Drop Plug			
23:57		30	45	-	5.0	H2O	8.34	Start Displacement			
00:05		670	35	-	2.0			Lower Pump Rate			
00:10		1240	45	-	2.0			Ramp Top Plug			
00:11								Release PB - Check Float			

REMARKS: **48 sks. Returned! Float Held**

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY		
1	450+	2.1	65% Class C #29-51 + 1/4 #SK D29	168	12.2	
2						
3	200	1.32	Class C #29-51 + 1/4 #SK D29	47	14.8	
4						
5						
6						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	1000 MAX. <input checked="" type="checkbox"/> 0 MIN. <input type="checkbox"/>
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 18 Bbls.
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL	45 Bbls
Washed Thru Perfs <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input checked="" type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR
			Jack Bryler	Spencer W. Ridgway