

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

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.

License: 30606

Wellsite Geologist: Karl Osterbuhr

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  PBSD

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

05-20-93 05-23-93 07-01-93

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 [Signature]

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

Subscribed and sworn to before me this 29 day of Sept 1993

Notary Public [Signature]

Date Commission Expires \_\_\_\_\_



API NO. 15- 055-21197-0000 ORIGINAL

County Finney

C - SW - \_\_\_\_\_ Sec. 28 Twp. 21S Rge. 32 XX W

1320 Feet from (S) Line of Section

1320 Feet from (W) Line of Section

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

Lease Name CRAIG Well # 2-28

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2020 KB 2025

Total Depth 2848 PBSD 2800

Amount of Surface Pipe Set and Cemented at 328 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 ALT # 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. \_\_\_\_\_

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)

Form ACO-1 (7-91)

RECEIVED  
SEP 30 1993

CONSERVATION DIVISION  
Wichita, Kansas

Operator Name Hugoton Energy Corporation Lease Name Craig Well # 2 - 28

East

County Finney

Sec. 28 Twp. 21S Rge. 32  West

**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.

<p>Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets)</p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)</p> <p>List All E. Logs Run: NO OH LOGS RUN <u>6NL</u></p>	<p><input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample.</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>T/Anhydrite</td> <td>2080</td> <td></td> </tr> <tr> <td>B/Anhydrite</td> <td>2150</td> <td></td> </tr> <tr> <td>Herington</td> <td>2666</td> <td></td> </tr> <tr> <td>Krider</td> <td>2684</td> <td></td> </tr> <tr> <td>Winfield</td> <td>2746</td> <td></td> </tr> </table>	Name	Top	Datum	T/Anhydrite	2080		B/Anhydrite	2150		Herington	2666		Krider	2684		Winfield	2746	
Name	Top	Datum																	
T/Anhydrite	2080																		
B/Anhydrite	2150																		
Herington	2666																		
Krider	2684																		
Winfield	2746																		

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#	328	Class C	200	
Production	7-7/8"	4-1/2"	29.5	2837	65/35 poz	600	
Cement to surface						110	

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	2667 - 2677	Acidized w/500 gal. 15% reg. acid	

<b>TUBING RECORD</b>		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2-3/8	401	N/A		
Date of First, Resumed Production, SWD or Inj.				Producing Method		
SIGW				<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	Bbls.	Gas	Mcf	Water	Bbls.
	0		65		0	

Disposition of Gas: METHOD OF COMPLETION

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

Production Interval

Open Hole  Perf.  Dually Comp.  Commingled 2667 - 2677

Other (Specify) \_\_\_\_\_

CEMENTING SERVICE REPORT

Surface



DS-496 PRINTED IN U.S.A. 15.055.21197.0000 DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-13-5265 DATE 5-20-93  
 STAGE D9 DISTRICT 415566, KS

WELL NAME AND NO. Craig #2-28 LOCATION (LEGAL) Sec 28-215-326  
 FIELD-POOL FORMATION

COUNTY/PARISH Finney STATE KS. API. NO.

NAME Hugoton Energy  
 AND

ADDRESS  
 ZIP CODE

SPECIAL INSTRUCTIONS

RIG NAME Murphy Drilling #20  
 WELL DATA: BIT SIZE 12 1/4 CSG/Liner Size 8 5/8 TOP  
 TOTAL DEPTH 328 WEIGHT 28  
 PROT  CABLE FOOTAGE 328.24  
 MUD TYPE GRADE J55  
 BHST THREAD 8ed  
 BHCT LESS FOOTAGE SHOE JOINT(S) 34 TOTAL  
 MUD DENSITY DISP. CAPACITY 18.6

NOTE: Include Footage From Ground Level To Head In Disp. Capacity  
 Floor: TYPE Office Fillings TYPE  
 DEPTH 294.24 DEPTH  
 Shoe: TYPE Fr. Pat. Hex TYPE  
 DEPTH 328.24 DEPTH

IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE 135 PSI CASING WEIGHT - SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT 930 PSI BUMP PLUG TO 930 PSI  
 ROTATE RPM RECIPROCATE FT No. of Centralizers 3

Head & Plugs  Double  Single  Swage  Knockoff  
 TBG  D.P. SQUEEZE JOB  
 NEW  USED  
 TAIL PIPE: SIZE DEPTH  
 TUBING VOLUME Bbl  
 CASING VOL. BELOW TOOL Bbl  
 TOTAL Bbl  
 ANNUAL VOLUME Bbl

TIME 0001 to 2400 PRESSURE TBG OR D.P. CASING VOLUME PUMPED bbl INCREMENT CUM  
 JOB SCHEDULED FOR TIME 1600 DATE 5-20-93 ARRIVE ON LOCATION TIME 1600 DATE 5-20-93 LEFT LOCATION TIME 1900 DATE 5-20-93

TIME	PRESSURE		VOLUME PUMPED bbl		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
1726	0	6			5.5	H2O		PRE-JOB SAFETY MEETING
1727	130	47			5.5	cmf	14.8	start cement slurry
1732	210	23			5.5	cmf	14.8	psi check
1735	0							shut down deep top plug
1736	10	18.6			5	H2O		start displacement
1739	150	11			5			lower rate
1740	120	13			3			cement to surface
1742	930	18.6			3			bump top plug
1742								bleed psi of check float + holding
1743								PHJ job

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	200	1.32	class C + 3% cpl2 + 4#/029		47	14.8
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. STATIC HEAD  
 HESITATION SO.  RUNNING SO. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 18.6 Bbls TYPE OF WELL  OIL  GAS  STORAGE  INJECTION  
 Washed Thru Perls  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE  
 PERFORATIONS CUSTOMER REPRESENTATIVE Rodney Face DS SUPERVISOR James Esq  
 CONSERVATION DIVISION Wichita, Kansas

CEMENTING SERVICE REPORT

ORIGINAL **DS** Production

DS 490 PRINTED IN U.S.A. 15.055.21197.0000 DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	03-12-5272	DATE	5-22-93
STAGE	DS	DISTRICT	Olysses K3 03-12

WELL NAME AND NO. **Chap 2-28**

FIELD-POOL

COUNTY/PARISH **Finney**

STATE **Kansas**

API NO.

LOCATION (LEGAL) **Sec 28 - 213-32W**

FORMATION

NAME

AND

ADDRESS

ZIP CODE

RIG NAME **Murflu 20**

WELL DATA		BOTTOM		TOP	
BIT SIZE	7 7/8	CSG/Liner Size	4 1/2		
TOE DEPTH		WEIGHT	29.5		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE		FOOTAGE	2837.77		
MUD TYPE		GRADE			
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT		THREAD			
MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)	32.42		TOTAL
MUD VISC		Disp Capacity	2805.35		45.4

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS

Floor	TYPE	O.F. INSERT	TOE	TYPE	
	DEPTH	2805.35		DEPTH	
SHOE	TYPE	Curr Guide	TOE	TYPE	
	DEPTH	2837.77		DEPTH	

Head & Plugs  TBG  DP

Double  Single  Swags  Knockoff

TOOL TYPE DEPTH

SOJEEZE JOB

TAIL PIPE SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE **1692** PSI

CASING WEIGHT - SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT PSI

BUMP PLUG TO **1530** PSI

ROTATE RPM RECIPROGATE FT No of Centralizers **4**

JOB SCHEDULED FOR TIME **0600** DATE **5-22**

ARRIVE ON LOCATION TIME **1700** DATE **5-22-93**

LEFT LOCATION TIME **2200** DATE **5-22-93**

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR DP	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
2026	200	10	5		4hr	8.34					
2028	200	150	10	7	Cur	12.2					
2047	160	47	160	4	Cur	14.8					
2054	-	-	207	-							
2054	-	-	207	-							
2059	-	-	207	-							
2100	-	45.4	207	6 1/2	H <sub>2</sub> O	8.34					
2106	640	36	2								
2110	800	45.4	2								
2110	1530	46.4	-								

PRE-JOB SAFETY MEETING

Start Wash ahead

Start head cement

Start Tail Cement

Shut dw - Cement mixed

Wash Pump + Lines

Drop top plug

Start displacement

slow rate 2

Bump top plug

check float - float holding

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
			BBLs	DENSITY	BBLs	DENSITY	
1	400	2.1	65/35 (C/A02) + 6% D20 + 2% O51 + 1/4" / SK D29	150	12.2		
2	200	1.32	C + 2% O51 + 1/4" / SK D29	47	14.8		
3							
4							
5							
6							

BREAKDOWN FLUID TYPE

HESITATION SQ  RUNNING SQ

CIRCULATION LOST  YES  NO

Cement Circulated To Surf **45.4** Bbls

BREAKDOWN PSI FINAL PSI

DISPLACEMENT VOL **45.4** Bbls

TYPE OF WELL  OIL  GAS  STORAGE  BRINE WATER

Washed Thru Perfs  YES  NO TO FT

MEASURED DISPLACEMENT **45.4** FT

WIRELINE

PERFORATIONS TO TO

CUSTOMER REPRESENTATIVE **JOE BRYLER**

DS SUPERVISOR **Greg Gremm**

CONSERVATION DIVISION Wichita, Kansas

RECEIVED

SEP 30 1993

CONSERVATION COMMISSION



DOWELL SCHLUMBERGER INCORPORATED

7/1/93  
 TREATMENT NUMBER 03-12-5349 DATE 7/30/93  
 STAGE DS DISTRICT 0143363 KS

DS-495 PRINTED IN U.S.A. 15.055.21197.0000

WELL NAME AND NO. **CRS19 # 2-28** LOCATION (LEGAL) **Sec 33 310-32W** RIG NAME **Petrick**  
 HELD-POOL **ORIGINAL**  
 COUNTY/PARISH **Finney** STATE **Kansas** API. NO. \_\_\_\_\_  
 NAME \_\_\_\_\_  
 AND \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 ZIP CODE \_\_\_\_\_

SPECIAL INSTRUCTIONS  
**TOP of Cement From 430' TO SURFACE.**

IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE \_\_\_\_\_ PSI CASING WEIGHT - SURFACE AREA (3.14 x R<sup>2</sup>) \_\_\_\_\_  
 PRESSURE LIMIT \_\_\_\_\_ PSI BUMP PLUG TO \_\_\_\_\_ PSI  
 ROTATE \_\_\_\_\_ RPM RECIPROCATE \_\_\_\_\_ FT No. of Centralizers \_\_\_\_\_

ARRIVE ON LOCATION TIME 0800 DATE 7-1-93 LEFT LOCATION TIME 1245 DATE 7-1-93

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0954	810					Y2	1120				
1000	-		26	3		Y2	DM	148			
1015	-			3		-					
1024	830			3		Y2					
1048	-			15		-					
1055	830			15		Y2					
1122	830			22		Y2					
1130	830			26		-					

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	110	1.32	Class C		26	148
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE  HESITATION SQ  RUNNING SQ  CIRCULATION LOST  YES  NO  
 PRESSURE MAX 3  
 Cement Circulated To Surf  YES  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL Bbls  
 TYPE OF WELL  OIL  STORAGE  BRINE WATER  
 GAS  INJECTION  WILDCAT  
 WASHED THRU PERIS  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE  
 PERFORATIONS TO TO TO TO  
 CUSTOMER REPRESENTATIVE **DE ZOUVER**  
 SUPERVISOR **[Signature]**  
 RECEIVED SEP 30 1993  
 STATE CORPORATION COMMISSION  
 CONSERVATION DIVISION  
 Wichita, Kansas