

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

API NO. 15- 129-21,106-0000 ORIGINAL

County Morton

160'S SW - SE - ✓ Sec. 28 Twp. 32S Rge. 40 X^E_W

500 ✓ Feet from (S)N (circle one) Line of Section

1980 ✓ 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 Marquardt ✓ Well # 2-28

Field Name Richfield Extension

Producing Formation Morrow

Elevation: Ground 3350' KB 3358'

Total Depth 5812 PBDT 5800

Amount of Surface Pipe Set and Cemented at 1591 Feet

Multiple Stage Cementing Collar Used? XX Yes No

If yes, show depth set 2839 Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cnt.

Drilling Fluid Management Plan (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: Gabbert & Jones

License: 5842

Wellsite Geologist: Karl Osterbuhr

Designate Type of Completion
XX New Well Re-Entry Workover

XX Oil SWD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, VSW, Expl. Methods, etc.)

If Workover/Re-Entry: old well info

Operator:

Well Name:

Comp. Date Old Tool Joint Date

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

10-30-91 11-12-91 12-2-91
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 Jimmy W. Gowens

Title Exploration Manager Date 2-27-92

Subscribed and sworn to before me this 27th day of February 19 92.

Notary Public Garry D. Walker

Date Commission Expires September 18th, 1995

Garry D. Walker
NOTARY PUBLIC
State of Kansas
MY APPT. 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)

Operator Name Hugoton Energy Corporation Lease Name Marquardt Well # 2-28
 Sec. 28 Twp. 32S Rge. 40 East County Morton
 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.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run:
 MRS, DSI, PDS

<input checked="" type="checkbox"/> Log			Formation (Top), Depth and Datum			<input type="checkbox"/> Sample		
Name	Top	Datum						
Topeka	3291	+67						
Heebner	3717	-359						
Marmaton	4454	-1096						
Morrow Shale	5078	-1720						
Morrow "E" Sand	5247	-1889						
Chester	5590	-2232						
St. Louis "C"	5777	-2419						

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	1591	Class "C"	695	6% D-20
Production	7 7/8	4 1/2	11.6	5811	Class "C"	200	.05% D-60
DV Tool				2839	35-65 POZ	460	2% CACL

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<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	5779-82		500 gallon 15% HCL	
			swab dry: CIBP at 5645	
2	5250-5256: 5261-5266		Natural	

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2 3/8	5139	NO	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj.				Producing Method				
2-3-92				<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.	Gas-Oil Ratio	Gravity
	0		4,342		0		N/A	N/A

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 250-66 OA

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

DS-498 PRINTED IN U.S.A.

TREATMENT NUMBER **4167** DATE **11/26/91**
 STAGE **DS** DISTRICT **OKS**

WELL NAME AND NO. **Nasquard #2-28** LOCATION (LEGAL) **Sec 28-32-40** RIG NAME: **core** **ORIGINAL**

FIELD NO. **Hugoton** FORMATION **Hugoton** WELL DATA: BIT SIZE **9 7/8** CSO/Liner Size **4 1/2** BOTTOM TOP

COUNTY **Morton** STATE **KANSAS** API. NO. TOTAL DEPTH **11.6** WEIGHT **2860**

NAME **Hugoton Energy** MUD TYPE **grd** GRADE **grd** THREAD **grd**

AND MUD DENSITY **8.33** LESS FOOTAGE SHOE JOINT(S) MUD VISC. **0.00** Disp Capacity **44.3**

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

ADDRESS _____ ZIP CODE _____

SPECIAL INSTRUCTIONS **Provide Materials & service to finish 2nd stage cont of production Csg**

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE _____ PSI CASING WEIGHT - SURFACE AREA (3 1/4 x R9)

PRESSURE LIMIT **1000** PSI BUMP PLUG TO **1300** PSI

ROTATE _____ RPM RECIPROCATE _____ FT No. of Centralizers _____

Head & Plugs Double Single Swage Knockoff

TOOL TYPE _____ DEPTH _____

TAIL PIPE: SIZE _____ DEPTH _____

TUBING VOLUME _____ CASING VOL. BELOW TOOL _____

TOTAL _____ ANNUAL VOLUME _____

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
1215	2000	N/A	1	-	1	160	160	0900	11/26/91	1330	11/26/91
1218	N/A	190	80	-	8	160	8.33	PRE-JOB SAFETY MEETING psi: Test done after setting Csg 150 ahead			
1221		210	10	-	6	160	CW	Csg 100 + spc.			
1224		300	84	-	7.3	Cmt	14.2	Start lead cmt			
1234		90	55	-	7.3	Cmt	14.8	Start Tail cmt			
1241	N/A	0	0	-	0	-	-	Shut Down, wash line, drop plug			
1244		120	44.3	-	6	160	8.33	Start Displacement			
1251		330	84	-	2.1	160	8.33	Lower pump Ed.			
1254		1360	44.5	-	1.3	160	8.33	Bump Plug			
1255	0	0	0	-	0	160	8.33	Release psi			
1256								500 Wok			

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 KANSAS CORPORATION COMMISSION
 MAR 2 1992

REMARKS **CONSERVATION DIVISION WICHITA KS**

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			1	2	3	4	bbls	DEI
1.	225	2.1	27% 5 7/8 K	+ 6% 200	+ 2% 31	+ 1/4" 1/2 K 29	84.2	14
2.	235	132	Class C cmt	+ 2% 31	+ 1/4" 1/2 K 29		55.3	14
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE HESITATION SO RUNNING SO. CIRCULATION LOST YES NO

DISPLACEMENT VOL _____ bbls PRESSURE _____ MAX. **1360** MIN. **0**

Washed Thru Perls YES NO TO _____ FT MEASURED DISPLACEMENT _____ WIRELINE

PERFORMATIONS _____ CUSTOMER REPRESENTATIVE _____ SUPERVISOR _____

ORIGINAL

TREATMENT NUMBER 03-125-4116 DATE 11-1-91
STAGE 05 DISTRICT 074558, KS.

08-408 PRINTED IN U.S.A.

WELER INCORPORATED

WELL NAME AND NO. Maquardt #2-28 Sec 28-32s-40w
FIELD-POOL
COUNTY/PARISH Morton STATE KS. API. NO.
NAME Hugoton Energy
AND
ADDRESS
ZIP CODE

RIG NAME Grabbaert + Jones #9
WELL DATA: BIT SIZE 12 1/4 CSQ/LI 8.55 BOTTOM TOP
TOTAL DEPTH 1575 WEIGHT 4
 ROT CABLE FOOTAGE 79
MUD TYPE GRAB GRADE 5.55
 BHST BHCT THREE Red
MUD DENSITY 14.4 LESS FOOTAGE SHOE JOINT(S)
MUD VISC. 97.5 Disp. Capacity
NOTE: Include Footage From Ground Level To Head in Disp. Capacity

SPECIAL INSTRUCTIONS

PIPE TYPE oil Pipe Fill TYPE
DEPTH 1537 DEPTH
SHOE TYPE TK. Pathway shoe TYPE
DEPTH 1575 DEPTH

IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE 647 PSI CASING WEIGHT - SURFACE AREA (3.14 x H)
PRESSURE LIMIT 647 PSI BUMP PLUG TO 1100 PSI
ROTATE RPM RECIPROCATATE FT No. of Centralizers 5

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

JOB SCHEDULED FOR TIME 8:00 AM DATE 11-1-91 ARRIVE ON LOCATION TIME 8:00 DATE 11-1-91 LEFT LOCATION TIME 1:30 DATE 11-1-91

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CLM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
1212		60	12		5.8	H2O					
1214		190	213		5.8	cmf	12.2				
1231		230	100		5.8	cmf	12.2				
1253		170	29		4	cmf	14.8				
1301		50									
1303		0	97.5			H2O					
1306		210	20		6.6	H2O					
1310		310	50		4	H2O					
1317		320	70		4	H2O					
1320		390	80		4	H2O					
1322		460	90		5	H2O					
1325		1100									
1327											

REMARKS CONSERVATION DIVISION WICHITA, KS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			1.	2.	3.	4.	BBL	DENSITY
1.	570	2.1	45 C	35 spz + 69 gal + 2% cmc + 4#/029			213	12.2
2.								
3.	125	1.32	class C + 2% cmc + 4#/029				29	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX 20147
 HESITATION SO. RUNNING SO. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO
BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 97.5 Bbls
Washed Thru Parts YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
PERFORMATIONS CUSTOMER REPRESENTATIVE OS SUPERVISOR



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 28-12-2140
 DATE: 11-12-91
 STAGE: 2 DS DISTRICT: ULYSSES

WELL NAME AND NO.: RETURNED 2-28
 LOCATION (LEGAL): SEC 28-32S-40W
 FORMATION:
 COUNTY/PARISH: MORTON STATE: KANSAS APL. NO.:

WELL DATA: ORIGINAL
 WT SIZE: 7 1/4 CSO/Liner Size: 4 1/2
 TOTAL DEPTH: 582 WEIGHT: 11.6
 ROT CABLE FOOTAGE: 5823
 MUD TYPE: GRADE
 BHST BHCT THREAD: 9R2
 MUD DENSITY: LEAS FOOTAGE: 10.0
 MUD VISC: Disp. Capacity: 5813

ME: Hugoton Energy
 ADDRESS:
 ZIP CODE:

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
 TYPE: FLAPPIK 7.0511
 DEPTH: 5816
 TYPE: GUIDE
 DEPTH: 5823

SPECIAL INSTRUCTIONS: FURNISH EQUIP MATERIALS
 7.5 Cement 4 1/2 11.6 Pipe

HEAD & PLUGS: T80 O.P.
 Double WEIGHT
 Single GRADE
 Swage THREAD
 Knockoff NEW USE
 TOP OR CW DEPTH

CASING/TUBING SECURED? YES NO
 PRESSURE: PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 INSURE LIMIT: 3000 PSI BUMP PLUG TO: 1000 PSI
 RATE: RPM RECIPROCAT: WA FT No. of Centralizers: 12

TIME	PRESSURE		VOLUME PUMPED REL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	T80 OR O.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
001 to 2400											
216	3000		0	0	15	Fluo	8.3	0600	11-12	1730	11-12
218	200		12.0	3	4.0	110	8.3	PRE-JOB SAFETY MEETING: PRESS TEST LINES			
223	250		134	38	cmf	14.8	8.3	START CW 100			
230	200		440	4.0	cmf	14.9	8.3	START CEMENT SLURRY			
234	0		62.0	0	cmf	14.8	8.3	RATE + PRESS			
235	0		0	0	120	8.3	8.3	SHUT DOWN WASH LINES			
235	110		90.0	0	5.9	110	8.3	PROP PLUG WIPER			
240	110		130	6.0	1120	8.3	8.3	START DISP			
245	0		400	4.1	1100	8.3	8.3	RATE + PRESS			
247	100		40.0	9.1	MUD	9.0	9.0	SLOW RATE TO GO THRU DV TOOL			
249	150		65.0	5.3	MUD	9.0	9.0	INCREASE RATE			
251	430		70.0	5.3	MUD	9.0	9.0	RATE + PRESS			
253	460		82.0	2.5	MUD	9.0	9.0	RATE + PRESS			
255	580		89.0	1.1	MUD	9.0	9.0	SLOW RATE			
259	1000		92.0	0	MUD	9.0	9.0	RATE + PRESS SLOW RATE			
300	0		92.0	0	MUD	9.0	9.0	Bump top plug			
407	0		92.0	0	MUD	9.0	9.0	BLEED OFF PRESS			
								Drop Bomb			

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KANSAS CORPORATION

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED	DENSITY
1.	200	1.32	Bottom Stage SBS CLASS C MAT 5% 060 720 51 + 1/4 4/SK 029	470	148
2.					
3.					
4.					
5.					
6.					

TOP STAGE
 CONSERVATION DIVISION
 WICHITA KS

DOWN FLUID TYPE: RUNNING SQ. CIRCULATION LOST YES NO
 PRESSURE: PSI FINAL: PSI DISPLACEMENT VOL: 90
 MEASURED DISPLACEMENT: WIRELINE
 TYPE OF WELL: GAS STORAGE BRINE WATER WILDCAT
 CUSTOMER REPRESENTATIVE: TERRY MAWELL
 SUPERVISOR: [Signature]