

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

API NO. 15- _____ 055-21114-0000 **ORIGINAL**

County _____ FINNEY _____

N2 - N2 - SW - _____ Sec. 16 Twp. 24 Rge. 31 XX W

2310 FSL Feet from S/N (circle one) Line of Section

3960 FWL 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 _____ BIERNACKI _____ Well # _____ 2-16 _____

Field Name _____ HUGOTON _____

Producing Formation _____ CHASE _____

Elevation: Ground 2900 _____ KB 2908 _____

Total Depth 2725 _____ PBDT 2715 _____

Amount of Surface Pipe Set and Cemented at 390 _____ Feet

Multiple Stage Cementing Collar Used? _____ Yes XX 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 2 9H 12-13-93
(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: _____ CHEYENNE _____

License: _____ 5382 _____

Wellsite Geologist: _____ NA _____

Designate Type of Completion
 New Well _____ Re-Entry _____ Workover _____

Oil SWD SLOW 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. _____

6-10-92 6-13-92 7-10-92
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 5-14-93

Subscribed and sworn to before me this 14 day of May, 1993.

Notary Public _____ Sarah E. Reynolds _____

Date Commission Expires _____ September 22, 1996 _____

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)

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

P 1

Operator Name Hugoton Energy Corporation Lease Name BIERNACKI Well # 2-16

Sec. 16 Twp. 24 Rge. 31 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 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:
 CCL

Log Formation (Top), Depth and Datums Sample
 Name Top Datum
 KRIDER 2671 -237

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	390	CLASS C	230	
PRODUCTION		4 1/2	10.5	2723	LITE	500	

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	2672-2682	Acidize w/750 Gal. 15% HCL	
		Frac w/18,858 Gal.+34,000# Sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8	2676	NA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. SI		Producing Method <input 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 125	Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled 2672-2682

Production Interval: Other (Specify) _____

CEMENTING SERVICE REPORT

ORIGINAL



DOWELL SCHLUMBERGER INCORPORATED

15-055-2114-0000

TREATMENT NUMBER	0312-4512	DATE	6-10-92
STAGE	DS	DISTRICT	WYSSOS, KS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. Biernacki 2-16	LOCATION (LEGAL) Sec 16-24s-31W	RIG NAME: Cheyenne RIG 4
FIELD POOL Hugoton	FORMATION	WELL DATA: BOTTOM TOP
COUNTY/PARISH FINNEY	STATE KANSAS	APL. NO.
NAME Hugoton Energy	AND	ADDRESS
SPECIAL INSTRUCTIONS Cement #370 or 8-7/8 CASING		NOTE: Include Footage From Ground Level To Head In Disp. Capacity

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	LIFT PRESSURE 165 PSI	CASING WEIGHT + SURFACE AREA (3.14 x R ²)	TOOL TYPE ORIFICE FLAPPER	DEPTH 348 FT
PRESSURE LIMIT 2300 PSI	BUMP PLUG TO	PSI	TOOL TYPE Cement nose	DEPTH 390 FT
ROTATE <input type="checkbox"/> RPM <input type="checkbox"/> RECIPROCATE <input type="checkbox"/> FT	No. of Centralizers 3	Head & Plugs	<input type="checkbox"/> TBG	<input type="checkbox"/> D.P.
SQUEEZE JOB		<input type="checkbox"/> Double	SIZE	DEPTH
TUBING VOLUME		<input checked="" type="checkbox"/> Single	WEIGHT	DEPTH
CASING VOL. BELOW TOOL		<input type="checkbox"/> Swage	GRADE	DEPTH
TOTAL		<input type="checkbox"/> Knockoff	THREAD	DEPTH
ANNUAL VOLUME		<input type="checkbox"/> TOP <input checked="" type="checkbox"/> OW	NEW <input type="checkbox"/> USED	DEPTH
Bbl		<input type="checkbox"/> BOT. <input type="checkbox"/> OW	DEPTH	DEPTH

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: 10 2400											
2312							H ₂ O	8.32			
2370	150		10	0	6.0		H ₂ O	8.32			
2372	260		54	10	5.8		Cement	14.8			
2330				64							
2331	200		10	64	4.0		H ₂ O	8.32			
2335	170		17	74	4		H ₂ O	8.32			
2337	140		5	81	2						
2340	800			86							

RECEIVED
KANSAS CORPORATION COMMISSION
MAY 14 1993
CONSERVATION DIVISION
WICHITA, KS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	230	1.32	CLASS C + 2% S-1 + 1/4" K D-29		54.2	14.8
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
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
DISPLACEMENT VOL.	22.6	Bbls	TYPE OF WELL	<input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS	<input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION
MEASURED DISPLACEMENT			<input type="checkbox"/> WIRELINE	<input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT	
CUSTOMER REPRESENTATIVE	TAD	DAVIS	DS SUPERVISOR	Torrey Wetzel	



P.O. Box 4442
Houston, Texas 77210

15.055.21114-0000

CEMENTING LOG

STAGE NO. ORIGINAL

Date 6-12-92 District HAYS Ticket No. 070649
 Company Hugoton Energy Corp Rig Cheyenne
 Lease Bic R No Ri Well No. 2-16
 County FINNEY State KN
 Location 6 E 1/4 Garden city Field _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 4 1/2 Type _____ Weight 10.5 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 3/8 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 101.59 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 2406 Lin. ft./Bbl. 25
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time BD Lite 6 cello hrs. Type _____
 Amt. 400 Sks Yield 1.69 ft³/sk Density 13 PPG _____

TAIL: Pump Time Common 5% salt hrs. Type _____
 Amt. 100 Sks Yield 1.18 ft³/sk Density 15.2 PPG _____

WATER: Lead 5.2 gals/sk Tail 8.8 gals/sk Total 96 Bbls.

Pump Trucks Used 2034 - Dean
 Bulk Equip. 2030 - GRI
- Steve

Float Equip: Manufacturer BAKER
 Shoe: Type Cement nose welder Depth _____
 Float: Type Model C AFU Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. BAKER
 Disp. Fluid Type Water Amt. _____ Bbls. Weight 8.34 PPG _____
 Mud Type Chemical Weight _____ PPG _____

COMPANY REPRESENTATIVE TERRY Maxwell

GEMENTER Bill R. DeKam

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min.	
						Pipe set at 2770 Ride pt FASent 2744
9:30pm			833		5	Cement w/ 400 bbls lite 6 cello PPG
			12.2		5	follow w/ 100 pk "A" w/ 5% salt
			434		6	plug plug w/ bbls of water
						Lead plug at 434 PSI 1500
						Float did hold
						Cement did circulate
						plus down 10:15pm
						RECEIVED KANSAS CORPORATION COMMISSION
						MAY 14 1993
						CONSERVATION DIVISION WICHITA, KS
						Thank you, CALL AGAIR