

ORIGINAL

SIDE ONE

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

Operator's License # 5952
Name: Amoco Production Company
Address P.O. Box 800, Rm. 1833

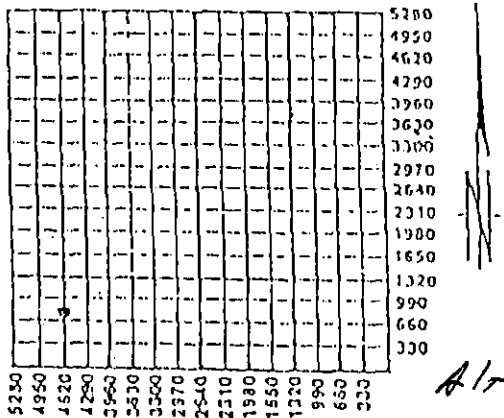
Denver, CO 80201
City/State/Zip
Purchaser: N/A
Operator Contact Person: J. A. Victor
Phone (303) 830-4009
Contractor's Name: Exeter Drilling
License: 3098
Wellsite Geologist: _____

Designate Type of Completion
 New Well Re-Entry Workover

 Oil SWD Temp. Abj.
 Gas Inj Delayed Comp.
 Dry Other (Corc, Water Supply, etc.)

If OWO: old well info as follows:
Operator: N/A
Well Name: _____
Comp. Date _____ Old Total Depth _____
Drilling Method:
 Mud Rotary Air Rotary Cable
8/29/89 9/7/89 6-14-90
Spud Date Date Reached ID. Completion Date

API NO. 15- 067-20935-50-01
County Grant
N/2 SW SW sec. 20 Twp. 29 Rge. 38 X East West
760 Ft. North from Southeast Corner of Section
4620 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Biernacki Well # 3HI
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3138' KB 3150'
Total Depth 5868' PBID 5648'



Amount of Surface Pipe Set and Cemented at 1755 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 3089 feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cont.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 02-3-130, 02-3-107 and 02-3-106 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 02-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 J. L. Hampton STATE CORPORATION COMMISSION
Title Sr. Staff Admin. Supv. DEC 10 1990
Subscribed and sworn to before me this 3 day of December 19 90.
Notary Public Julie A. Victor
Date Commission Expires: 4/7/94

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

PI

SIDE TWO

Operator Name Amoco Production Company Lease Name Biernacki Well # 3HI

Sec. 20 Twp. 29 Rge. 38 East County Grant 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom Chase 2309' Council Grove 2674' Morrow 5173' Chester 5516' St. Genevieve 5620' St. Louis 5698'
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	

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#	1755'	Lite C	620	
Production	7-7/8"	5-1/2"	15.5#	5868'	Neat C	150	
					50/50 POZ	190	
					65/35 POZ	220	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated		Depth
4 JSPF	2350-94'	Acid frac with 75 gals.	2350-2600'
4 JSPF	2412-56'	7.5% HCL	
4 JSPF	2474-2526'		
4 JSPF	2540-2600'	Frac with 191,430 gals. crosslink gel and 893,000# 8/16 Brady sand	

TUBING RECORD			Liner Run
Size	Set At	Packer At	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
None			

Date of First Production	Producing Method	Production Interval
waiting on pipeline	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	2350-2600'
Estimated Production Per 24 Hours	Oil bbls. Gas Mcf Water bbls. Gas-Oil-Ratio Gravity	
	1500	

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Conningled Other (Specify)