

SIDE ONE

4-15-13W COPY

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

Operator: License # 3613  
Name: HALLWOOD PETROLEUM, INC.  
Address P.O. Box 378111  
Denver, CO 80217  
City/State/Zip

Purchaser: Koch  
Operator Contact Person: George Hutton

Phone ( 316 ) 792-2756

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: Jim Musgrove

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp. Abd.  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, 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

4/10/91 4/17/91 5/8/91  
Date Date Reached TD Completion Date

API NO. 15- 167-22,969  
County Russell  
NE SE NW Sec. 4 Twp. 15 Rge. 13  East West  
3630 Ft. North from Southeast Corner of Section  
2970 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

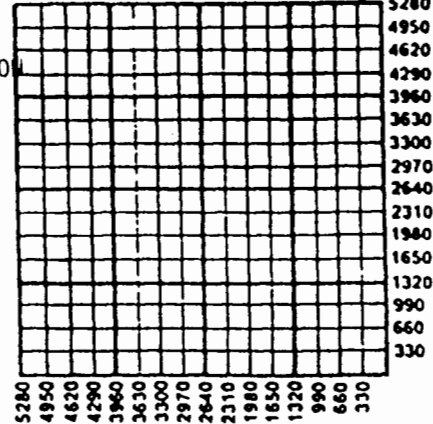
Lease Name HEFFERNAN Well # 2

Field Name Trapp

Producing Formation Arbuckle

Elevation: Ground 1753 KB 1758

Total Depth 3275 PBDT \_\_\_\_\_



Amount of Surface Pipe Set and Cemented at 731 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.

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 82-3-130, 82-3-107 and 82-3-106 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 82-3-107 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 [Signature]  
Title Sr. Engineering Technician Date 6/04/91

Subscribed and sworn to before me this 4th day of June, 1991.

Notary Public Judy E. Atkins

Date Commission Expires 4/19/93

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) IS

SIDE TWO

Operator Name HALLWOOD PETROLEUM, INC. Lease Name HEFFERNAN Well # 2

Sec. 4 Twp. 15 Rge. 13  East  West County Russell

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Formation Description</b>  <input type="checkbox"/> Log <input type="checkbox"/> Sample  <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Anhydrite</td><td>724</td><td></td></tr> <tr><td>Dover</td><td>2303</td><td></td></tr> <tr><td>Tarkio Lime</td><td>2351</td><td></td></tr> <tr><td>Topeka</td><td>2626</td><td></td></tr> <tr><td>Toronto</td><td>2873</td><td></td></tr> <tr><td>Lansing</td><td>2923</td><td></td></tr> <tr><td>Base Kansas City</td><td>3167</td><td></td></tr> <tr><td>Conglomerate</td><td>3197</td><td></td></tr> <tr><td>Arbuckle</td><td>3209</td><td></td></tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	724		Dover	2303		Tarkio Lime	2351		Topeka	2626		Toronto	2873		Lansing	2923		Base Kansas City	3167		Conglomerate	3197		Arbuckle	3209	
Name	Top		Bottom																													
Anhydrite	724																															
Dover	2303																															
Tarkio Lime	2351																															
Topeka	2626																															
Toronto	2873																															
Lansing	2923																															
Base Kansas City	3167																															
Conglomerate	3197																															
Arbuckle	3209																															
Samples Sent to Geological Survey	<input 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"	28#	731	60/40poz	350	3%cc 2%ge
PRODUCTION	7-7/8"	5-1/2"	14.5#	3268	60/40poz	100	3%cc
						225	

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2794-98		
4	2912-16		
4	2876-2880		
4	2953-73	2000 gal. acid	
4	3096-3100		
4	3119-3124	2000 gal. 15% NF	

**TUBING RECORD** Size 2 7/8" Set At 3134 Packer At 3114 Liner Run  Yes  No

Date of First Production 5/5/91 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40.58	0	15.01		

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

METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_