

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM  
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 5565  
Name National Cooperative Refinery Assoc.  
Address P. O. Box 6  
Great Bend, Kansas 67530

Purchaser.....

Operator Contact Person I. J. Gotsche  
Phone 316 793-7824

Contractor: License # 5302  
Name Red Tiger Drilling Company

Wellsite Geologist Paul Gerlach  
Phone 316 269-2083

Designate Type of Completion

- New Well     Re-Entry     Workover
- Oil     SWD     Temp Abd
- Gas     Inj     Delayed Comp.
- Dry     Other (Core, Water Supply etc.)

If OWMO: old well info as follows:

Operator.....  
Well Name.....  
Comp. Date.....Old Total Depth.....

WELL HISTORY

Drilling Method:

- Mud Rotary     Air Rotary     Cable

3/4/87                      3/12/87                      3/13/87  
.....                      .....                      .....  
Spud Date                      Date Reached TD                      Completion Date  
4,200'  
.....  
Total Depth                      PBTD

Amount of Surface Pipe Set and Cemented at 450 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from 450 feet depth to GL w/ 250 SX cmf

API NO. 15-135-23,099-00-00  
County Ness  
C NW/4 SE/4    14    17S    21W     East  
..... Sec..... Twp..... Rge.....  West

1980 Ft North from Southeast Corner of Section  
1980 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

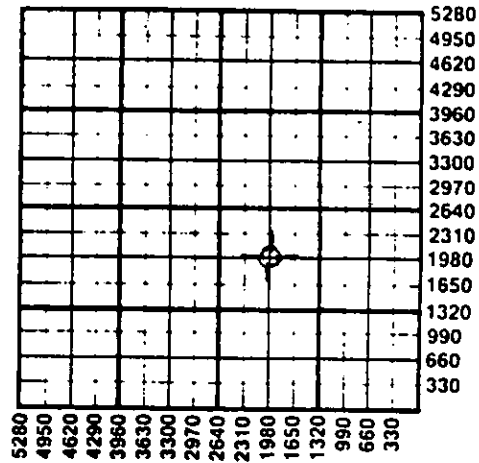
Lease Name Higgins Well # 1

Field Name.....

Producing Formation Dry hole

Elevation: Ground 2176 KB 2181

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket # .....  Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #.....

Groundwater.....Ft North from Southeast Corner  
(Well) .....Ft West from Southeast Corner of  
Sec    Twp    Rge     East     West

Surface Water 2000 Ft North from Southeast Corner  
(Stream, pond etc.) 1000 Ft West from Southeast Corner  
Sec 9 Twp 17S Rge 21  East  West

Helena McCaughey, McCracken, Kansas 67556  
 Other (explain).....  
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 Irving J. Gotsche  
Title District Superintendent Date 3/17/87

NOTARY PUBLIC - State of Kansas  
PATRICIA SCHULTZ  
Subscribed and sworn to before me this 17th day of March  
1987  
Notary Public Patricia Schultz  
Date Commission Expires January 29, 1989

K.C.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Drillers Timelog Received  
Distribution  
 KCC     SWD/Rep     NGPA  
 KGS     Plug     Other  
(Specify)  
MAY 21 1987  
Form ACO-1 (7-84)

03-23-1987

Sec 14 Twp 17 Rge 21 W

SIDE TWO

Operator Name National Cooperative Refinery Assoc. Lease Name Higgins Well # 1

Sec. 14 Twp. 17S Rge. 21W County Ness  
 East  West

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

DST #1 4070-4097, 10-30-60-120, Rec. 964' SW, IHP 1976, IFP 56-187, ISIP 431, FFP 187-337, FSIP 450, FHP 1976, Temp 110.  
DST #2 4114-4124, 10-30-30-100 Rec. 30' Mud, IHP 2051, IFP 38-38, ISIP 598, FFP 38-75 FSIP 598, FHP 2013.

Name	Top	Bottom
Anhydrite	1449'	
Heebner	3577'	
Lansing	3617'	3885'
Pawnee	3985'	
Fort Scott	4024'	
Cherokee Shale	4073'	
Cherokee Sand	4082'	
Mississippi	4182'	

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#	450'	Common	250	3% CC
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	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	Gas	Water	Gas-Oil Ratio	Gravity		
	Bbls	MCF		APR 19 1988	FROM CONFIDENTIAL		

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed .....  
 Commingled .....