

RELEASED
KANSAS CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
FROM CONFIDENTIAL
DESCRIPTION OF WELL AND LEASE

Operator: License # 5131
 Name Thunderbird Drilling, Inc.
 Address P.O. Box 780407
 City/State/Zip Wichita, Kansas 67278

Purchaser National Cooperative Refinery
 Association

Operator Contact Person Burke Krueger
 Phone (316) 685-1441

Contractor: License # 5302
 Name Red Tiger Drlg. Co.

Wellsite Geologist Steve Parker
 Phone (316) 263-5172

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

If **OWNO**: old well info as follows:
 Operator
 Well Name
 Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
☒ Mud Rotary ☐ Air Rotary ☐ Cable
 6/29/87 7-10-87 7/20/87
 Spud Date Date Reached TD Completion Date
 4354
 Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1198 feet
 Multiple Stage Cementing Collar Used? Yes ☒ No
 If yes, show depth set feet
 If alternate 2 completion, cement circulated
 from 0 feet depth to 1198 w/ 450 SX cmt
 Cement Company Name Allied Cementing
 Invoice # 49105

API NO. 15-145-21,256
 County Pawnee
 Sec. 28 Twp. 21S Rge. 19W East
 510 Ft North from Southeast Corner of Section
 2110 Ft West from Southeast Corner of Section
 (Note: Locate well in section plat below)

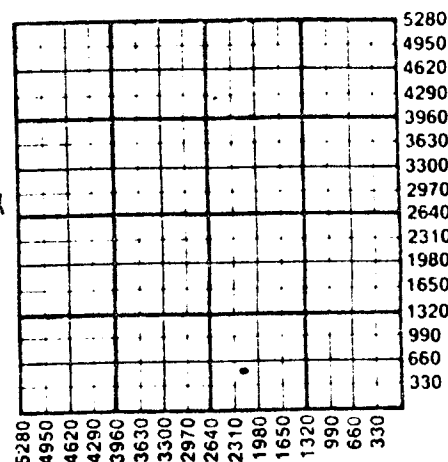
Lease Name WIEDEMANN Well # 1

Field Name WC

Producing Formation Lansing-KC

Elevation: Ground 2073 KB 2078

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 # 87-244

☒ Groundwater 150' Ft North from Southeast Corner
 (Well) 2400' Ft West from Southeast Corner of
 Sec 28 Twp 21S Rge 19 East ☒ West

Surface Water Ft North from Southeast Corner
 (Stream, pond etc) Ft West from Southeast Corner
 Sec Twp Rge East West

Other (explain)
 (purchased from city, R.W.D. #)

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. 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

Vice-President

Date 7/24/87

GLORIA DE JESUS
 NOTARY PUBLIC
 STATE OF KANSAS

Subscribed and sworn to before me this 24th day of July

Notary Public

Date Commission Expires 3-25-88

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)

Form ACO-1 (5-86)

KANSAS GEOLOGICAL SURVEY
 WICHITA BRANCH

NOV 10 1987

Operator NameThunderbird Drilling, Inc..... Lease Name.....WIEDEMAN..... Well #...1.....

Sec.....28..... Twp...21S... Rge...19..... ☐ East
☒ West County.....Pawnee.....

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

DST #1, 3826-3910/30-30-30-30, rec. 660' gip, 600' oil, 240' mc&wco, IFP 93-229#, FFP 270-343# BHP 1309-1278#
DST #2, 4006-4160/30-30-30-30, rec. 10' mud, IFP 41-41#, FFP 52-52#, BHP 93-83#
DST #3, 4174-4196/15", rec. 260' msw, IFP 83-114# no other pressures

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	1181 +	897
B/Anhydrite	1201 +	876
Topeka	3241 -	1163
Heebner	3615 -	1537
Toronto	3631 -	1553
Lansing-KC	3684 -	1606
BKC	4016 -	1938
Ck Sh	4145 -	2067
Miss	4267 -	2189
RTD	4354 -	2276
LTD	4354 -	2276

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#	1198'	com	450	2% gel, 3% ca
Production	7 7/8"	4 1/2"	10.5#	3969'	ASC	100	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated		Depth
	3836-3843	A 500 M.A. + A 2500 15% NE	3836-3843

TUBING RECORD		Liner Run ☐ Yes ☒ No	
Size	Set At	Packer at	
2 3/8"	2826'		

Date of First Production	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....				
	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	65 Bbls	none MCF	35 Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation
☐ Sold ☐ Other (Specify) 3836-3843....
☐ Used on Lease ☐ Dually Completed
☐ Commingled