SIDE ONE

18-10-24W

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

API NO. 15-065-22-490

County Graham

SW SW SW Sec. 18 Twp. 10S Rge. 24 __ East X West

330 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Ruder "A" Well # 2

Field Name WC

Producing Formation

Elevation: Ground ~~2460~~ 2390 KB 2395

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

Purchaser

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

Contractor: License # 5422
Name Abercrombie Drilling, Inc.

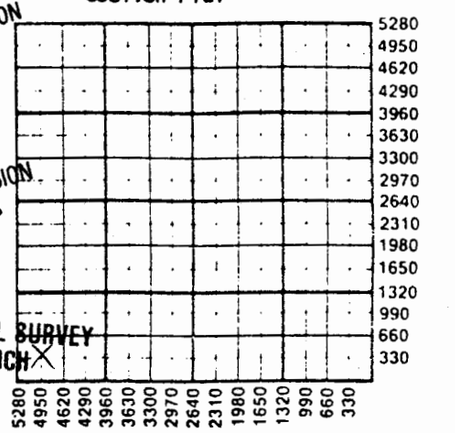
Wellsite Geologist
Phone

RECEIVED
STATE CORPORATION COMMISSION
NOV 7 1988
CONSERVATION DIVISION
Wichita, Kansas

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

NOV 29 1988

Section Plat



Designate Type of Completion
X New Well __ Re-Entry __ Workover

__ Oil __ SWD __ Temp Abd
__ Gas __ Inj __ Delayed Comp.
X Dry __ Other (Core, Water Supply etc.)

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

WELL HISTORY

Drilling Method:
X Mud Rotary __ Air Rotary __ Cable

9-27-88	10-03-88	10-03-88
Spud Date	Date Reached TD	Completion Date
3960'		
Total Depth	PBTD	

Amount of Surface Pipe Set and Cemented at 271.15' feet
Multiple Stage Cementing Collar Used? __ Yes X No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt
Cement Company Name Allied Cementing
Invoice # 52591

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 # T 88-484

X Groundwater 5000 Ft North from Southeast Corner
(Well) 200 Ft West from Southeast Corner of
Sec 13 Twp 10S Rge 25 __ East X 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
Burke B. Krueger
Title Vice-President Date 11/4/88

Subscribed and sworn to before me this 4th day of November, 19 88
Notary Public Gloria DeJesus
Gloria DeJesus
Date Commission Expires 3-25-92

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)

Sec. 18 Twp. 10 Rge. 24W

Form ACO-1 (5-86)

78634

W.A.S. 10-18-81

SIDE TWO

Operator Name Thunderbird Drilling, Inc. Lease Name Ruder "A" Well # 2

Sec. 18 Twp. 10S Rge. 24 ☐ East ☒ West County Graham

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, 3730-3777/30-30-30-30, rec. 1' mud, IFP 44-44#, ISIP 826#, FFP 55-55# FSIP 820#

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	2055+	340
Topeka	3462-	1067
Heebner	3676-	1281
LKC	3716-	1321
BKC	3950-	1555
LTD	3959-	1564
RTD	3960-	1565

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	12¼"	8 5/8"	20#	271.15'	60/40pos	200	2% gel 3% cc

PERFORATION RECORD Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer at Liner Run ☐ Yes ☐ No

Date of First Production | Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION Production Interval

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