

SIDE ONE

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

S

API NO. 15-065-22-490
County Graham
SW SW SW Sec. 18 Twp. 10S Rge. 24 East
X West

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

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

Purchaser

Lease Name Ruder "A" Well # 2

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

Field Name WC

Producing Formation

Elevation: Ground 2460' 2390' 2395'

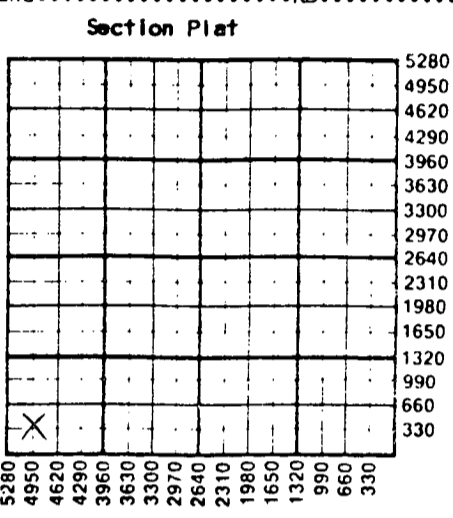
Contractor: License # 5422
Name Abercrombie Drilling, Inc.

RECEIVED
STATE CORPORATION COMMISSION
NOV 7 1988

Wellsite Geologist
Phone

CONSERVATION DIVISION
Wichita, Kansas

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

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

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

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 1988
Notary Public 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)
11-7-88
Form ACO-1 (5-86)

Sec 18 Twp 10Rge 24W

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

Formation Description
 Log Sample

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

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 <input 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"	20#	271.15'	60/40pos	200	2% gel, 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			
Size	Set At	Packer at					
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	Bbls	CFPB			

METHOD OF COMPLETION Production Interval

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