SIDE ONE

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

API NO. 15- 047-21,384

County Edwards

E/2 SW NW Sec. 30 Twp. 25S Rge. 20 ___ East X West

3300' Ft. North from Southeast Corner of Section

4290' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

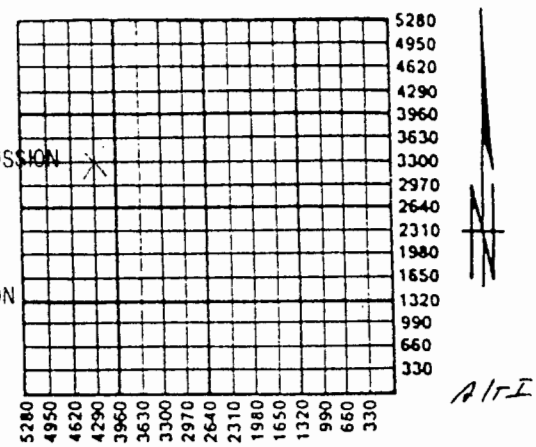
Lease Name Herrmann 'B' Well # 1

Field Name

Producing Formation Lower Cherokee

Elevation: Ground 2270' KB 2275'

Total Depth 4820' PBTD 4735'



Operator: License # 5422

Name: Abercrombie Drilling, Inc.

Address 150 N. Main, Suite 801

City/State/Zip Wichita, KS 67202

Purchaser:

Operator Contact Person: Jerry A. Langrehr

Phone (316) 262-1841

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist: Steve Frankamp

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STATE CORPORATION COMMISSION
SEP 03 1991
CONSERVATION DIVISION
Wichita, Kansas

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

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

If OWWO: old well info as follows:
Operator: N/A

Well Name:

Comp. Date ___ Old Total Depth ___

Drilling Method:
X Mud Rotary ___ Air Rotary ___ Cable

6-20-91	6-29-91	7-15-91
Spud Date	Date Reached TD	Completion Date

Amount of Surface Pipe Set and Cemented at 355.40' Feet

Multiple Stage Cementing Collar Used? ___ Yes X 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 [illegible]

Title [illegible] Date August 23, 1991

Subscribed and sworn to before me this 23rd day of August, 19 91.

Notary Public Angela Woodard

Date Commission Expires March 20, 1993

ANGELA WOODARD
State of Kansas
My Appt. Exp. Mar. 20, 1993

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)

Form ACO-1 (7-89)

SIDE TWO

Operator Name Abercrombie Drilling, Inc. Lease Name Herrmann 'B' Well # 1

Sec. 30 Twp. 25S Rge. 20 ☐ East ☒ West County Edwards

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.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

DST #1 4672'-4702' (Cherokee Limestone)
30-45-60-45
Gas to surface 2 minutes into 2nd open period;
Max guage 8560' CFGPD.
Rec. 2520' clean gassy oil, (42°) 180' OCM
IFPs 200-388 ISIP 1073
FFPs 444-687 FSIP 1050
DSTs #2 & #3 on attached sheet.

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	1380'	(+895')
Base Anhydrite	1400'	(+875')
Heebner	4000'	(-1725')
Brown Lime	4109'	(-1834')
Lansing	4119'	(-1844')
B/KC	4505'	(-2230')
Marmaton	4512'	(-2237')
Fort Scott	4628'	(-2353')
Upper Cherokee	4643'	(-2368')
Lower Cherokee	4678'	(-2403')

CASING RECORD ☐ New ☐ Used

Continued on attached sheet

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"	23#	355.40	60-40 posmix	200	2% gel 3% cc
Production	7 7/8"	5½"	14#	4822	50-50 posmix	60	7⅓ gilsinite/sx
					Common	150	D-29

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4744'-4746'	500 gallons 15% INS	4783'
	Baker CIBP @ 4735'		
4	4697'-4700'	500 gallons 7½% HCF	4735'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	4732'		☐ Yes ☐ No

Date of First Production	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)
Estimated Production Per 24 Hours State Test 8-15-91	Oil 77 Bbls. Gas Mcf Water trace Bbls. Gas-Oil Ratio Gravity

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 4697'-4700'