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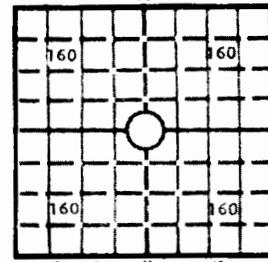
WELL COMPLETION REPORT AND
DRILLER'S LOG

State Geological Survey
WICHITA BRANCH

S. 32 T. 15 R. 21 E
Loc. 1190 SE, 165 WL/NE 1/4
NW NW SW NE
County Franklin
640 Acres
N
KCC

API No. 15 — 059 — 21, 981
County Number

Operator: John T. Casady
Address: Box 63 Wellsville, KS
Well No. 4 Lease Name Patterson
Footage Location: 490 SE 3861 ESE 2474 FEET NW 1/4
feet from (N) (S) line KCC feet from (E) (W) line
Principal Contractor: Casady Drilling Geologist: —
Spud Date: 5 Jun 81 Date Completed: 9 Jun 81 Total Depth: 778 P.B.T.D.:
Directional Deviation: Oil and/or Gas Purchaser: Square Deal



Elev.: Gr. _____
DF _____ KB _____

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	9	7		40	Portland	4	—
Casing	5/8	2	3.75	768	Portland	~90	—

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2		720 - 728
TUBING RECORD			1		728 - 734
Size	Setting depth	Packer set at			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
30 gal acid, 80 bbls H ₂ O, 30 sacks sand	720 - 734

INITIAL PRODUCTION

Date of first production: 5 Aug 81 Producing method (flowing, pumping, gas lift, etc.): Pump
 RATE OF PRODUCTION PER 24 HOURS: Oil 2 bbls. Gas MCF Water Gas-oil ratio CFPB
 Disposition of gas (vented, used on lease or sold): Vented Producing interval(s): 720 - 734

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator John T. Casady DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil

Well No. 4 Lease Name Patterson

S 32 T 15 R 21 E

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Soil to clay	0	16		
Shale	16	58		
Lime	58	130		
Shale	130	162		
Lime	162	201		
shale	201	257		
Lime	257	285		
shale	285	371		
Lime	371	443		
Shale	443	624		
Lime	624	631		
shale	631	685		
Lime	685	690		
shale	690	720		
sand, oil	720	739		
Sandy shale	739	741		
shale	741	778		

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received _____

John T. Casady Signature
 Owner
 Title
30 Nov 81 Date