

KANSAS Orig: State Geological Survey cc: R. E. Dowden-OK City office
 cc: Well file B. A. Conner-357 FPB

**WELL COMPLETION REPORT AND
 DRILLER'S LOG**

State Geological Survey
WICHITA BRANCH

S. 15 T. 13S R. 21 W

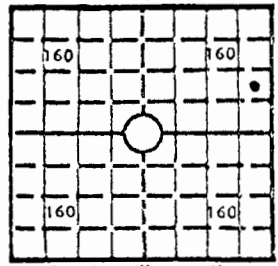
PI No. 15 — 195 — 20,853
 County Number

Loc. C NE SE NE
 County Trego

Operator Phillips Petroleum Company

640 Acres
 N

Address P.O. Box 287, Great Bend, Kansas 67530



Well No. 4 Lease Name Muhlheim "B"

Elev.: Gr. 2215'

Wellbore Location feet from (N) (S) line feet from (E) (W) line

Principal Contractor Slawson Drilling Company Geologist Lon Hudspeth

DF KB 2221'

Start Date 08-01-81 Date Completed 10-14-81 Total Depth 3961' P.B.T.D. 3890'

Sectional Deviation Oil and/or Gas Purchaser Permian

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	12 1/4"	8 5/8"	24#	324'	Regular	228	2% gel, 3% CaCl & 1/4# Flocele/sk
Production	7 7/8"	5 1/2"	15.5#	3960'	Howco Lite Regular	35 178	1/4# Flocele/sk 18% salt, 5% CalSeal, & 1% CFR-2.

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2 HPF	Goldenjet	3909' - 3918'
			2 HPF	Goldenjet	3840' - 3848'

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8"	3885'	---

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
350 gallons 15% HCL acid & squeezed w/60 sx Class "A" common cmt	3909' - 3918'
250 gallons 15% XXM-38. Squeezed w/35 sx Class "A" common cmt	3909' - 3911'

INITIAL PRODUCTION

Date of first production 10-14-81	Producing method (flowing, pumping, gas lift, etc.) Pumping
RATE OF PRODUCTION PER 24 HOURS	Oil 121 bbls. Gas --- MCF Water --- bbls. Gas-oil ratio --- CFPB
Disposition of gas (vented, used on lease or sold) -----	Producing interval(s) 3840' - 3848'

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 Log is to be returned to the State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator Phillips Petroleum Company DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. 4 Lease Name Muhlheim "B" Oil

S 15 T 13S R 21 W Trego County, Kansas

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
Surface	0'	326'		
Shale & shells	326'	540'		
Sand & shale	540'	1490'		
Sand & shale	1490'	1578'		
Anhydrite	1578'	1621'		
Sand & shale	1621'	1870'		
Shale & shells (salt)	1870'	2145'	Anhydrite	1580'
Shale & shells w/lime stringers	2145'	2270'	Heebner	3466'
Shale	2270'	2314'	Toronto	3485'
Shale & lime	2314'	2465'	LKC	3503'
Lime & shale	2465'	3110'	Marmaton	3806'
Lime	3110'	3445'	Arbuckle	3910'
Lime & shale	3445'	3570'		
Shale & lime	3570'	3770'		
Lime & shale	3770'	3790'		
Shale & lime	3790'	3920'		
Lime & shale	3920'	3961'		
Total Depth	3961'			

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

Date Received _____

Signature _____
 Office Supervisor
 Title _____
 Date 10-15-81