

WICHITA BRANCH

10 15 36
7-2-36W

KANSAS DRILLERS LOG

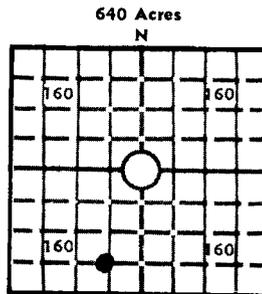
API No. 15 — 153 — 20,344
County Number

S. 7 T. 2 R. 36
100' W of Loc. C SE SW

Operator
Continental Gas Transmission Company

County Rawlins

Address
243 East 19th Ave., Suite 203 Denver, Colo 80203



Well No. #4 Lease Name Brumm

Elev.: Gr. 3370'

Footage Location
660' feet from (S) line 1880' feet from (W) line

Principal Contractor Geologist
Murfin Drilling Co W. LARSON

Spud Date Total Depth P.B.T.D.
2/4/79 4610'

Date Completed Oil Purchaser
3/8/79 Husky Oil Company

DF KB 3375'

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 ^{II}	376'	60/40 Poz	350	2% Gel 3% CC
Prod. Casing	7 7/8"	4 1/2"	10 1/2 ^{II}	4569'	50/50 Poz	625	2.5% SKS 2% gel 15% 400 SKS 10% Gilsonite

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			1	SSB DP	4216-4220'
			2	" "	4463-4469'

TUBING RECORD

Size	Setting depth	Packer set at
2 7/8"	4473'	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 GAL MCA,	4216-4220
500 GAL MCA, 1000 GAL CRA	4463-4469

INITIAL PRODUCTION

Date of first production 3-9-79	Producing method (flowing, pumping, gas lift, etc.) Pumping
RATE OF PRODUCTION PER 24 HOURS Oil 35 bbls. Gas — MCF Water 35 bbls.	Gas-oil ratio — CFPB
Disposition of gas (vented, used on lease or sold)	Producing interval(s) 4216-4220, 4463-4469

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, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. 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 Continental GAS TRANSMISSION Company DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: OIL

Well No. 4 Lease Name BRUMM

S 7 T 2 R 36 W 100' W of C SE SW

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
DST #1 4160' to 4240' (DREAD) 30-60-60-60 IHP 2200# FFP 90-144# ISIP 1185# FFP 162-251# FSIP 1077# FHP 2018# BHT 137°F	4214'	Opened with Good blow, 2nd Opening to good Recovered	with weak blow incr. 375' oil cut watery mud	
DST #2 4292-4390 (LKC A & B) 30-60-60-60 IHP 2200# IFP 90-458# ISIP 1077# FFP 458-736# FSIP 1059# FHP 2182# BHT 135°F	A-4298' B-4360'	Opened with Strong blow off bucket. Second opening blow off bottom of bucket. Recovered	1515' muddy	off bottom of bucket with strong SALT water RW = 0.10
DST #3 4400-4485 (LKC C & D) 30-60-60-90 IHP 2292# IFP 54-72# ISIP 1347# FFP 72-90# FSIP 1329# FHP 2273# BHT 135°F	C-4414' D-4457'	Opened with weak blow, 2d Opening weak blow. Recovered	20' clean oil (32%) 80' oil cut mud No water.	50% oil

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

Date Received	 Signature
	Vice President Title
	7-6-79 Date

State Geological Survey
WICHITA, BRANCH

COPY
WELL LOG

15-153-20344
7-2-36W

COMPANY Continental Gas Transmission

SEC. 7 T. 2S R. 36W
LOC. C SE SW

FARM BRUMM

NO. 4

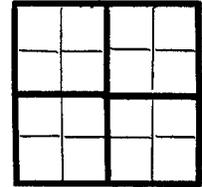
RIG. NO. 7

TOTAL DEPTH 4610'

COMM. February 4, 1979

COMP. February 14, 1979

COUNTY Rawlins
KANSAS



CONTRACTOR Murfin Drilling Company

CASING

20	10	
15	8	-5/8" @ 277' w/350 sx.
12	6	
13	5	
		4 1/2" @ 4569' w/525 sx.

ELEVATION

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

340'	Surface soils, Sand & Rock
2640'	Shale
3264'	Shale & Sand
3304'	Anhydrite
3315'	Shale & Sand
3667'	Shale & Lime
4035'	Lime & Shale
4210'	Shale & Lime
4250'	Lime
4390'	Lime & Shale
4400'	Shale & Lime
4485'	Lime & Shale
4610'	Lime RTD

STATE RECEIVED
STATE GEOLOGICAL SURVEY
MAR 21 1979
CONSERVATION DIVISION
WICHITA, KANSAS