

KANSAS

IMPORTANT

Kans. Geo. Survey request
Samples on this well.

State Geological Survey

S. 27 T. 32S R. 19 W

WICHITA, BRANCH

Loc. C E/2 SW/4

WELL COMPLETION REPORT AND
DRILLER'S LOGAPI No. 15 — 033 — 20397
County Number

Operator

Tuthill & Barbee

Address

300 Fisk Bldg., Amarillo, Texas 79101

Well No.

1-27

Lease Name

Pierce

Footage Location

1320 feet from (N) (S) line 1980 feet from (E) (W) line

Principal Contractor

Sage Drilling Co.

Geologist

Louis S. Bird

Spud Date

12-12-80

Date Completed

1-14-81

Total Depth

6160

P.B.T.D.

5240

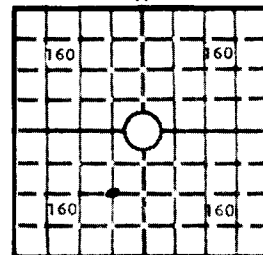
Directional Deviation

Oil and/or Gas Purchaser

County Comanche

640 Acres

N



Locate well correctly

Elev.: Gr. 1942

DF KB 1952

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	716	Howco lite	450	3% CaCl
Production	7 7/8	4 1/2	10.5	5240	50-50 Pozmix	150	10% Salt 12 1/2#/sx Gilsonite

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			1	.49 Jet	5120-24
TUBING RECORD					5126-28
					5130-40
					5144-48
Size	Setting depth	Packer set at			
2 3/8	5008	5015			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
2,000 gals. 15% acid	5120-5148

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
2-9-81		Flowing			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	None bbls.	1524 MCF	None bbls.	— CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
Sold			5120-5148		

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 an open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

erator

DESIGNATE TYPE OF COMP.: OIL, GAS,
DRY HOLE, SWDW, ETC.:

Tuthill & Barbee

Well No.

1-27

Lease Name

Pierce

Gas

S 27 T 32S R 19 E
W

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
Sand	0	158	Heebner Shale	4201
Sand & Red Bed	158	814	Toronto Lime	4214
Red Bed & Anhydrite	814	1810	Douglas Lime	4230
Shale & Lime	1810	2320	Brown Lime	4382
Lime & Shale	2320	3574	Lansing	4403
Shale & Lime	3574	5157	Stark Shale	4780
Lime, Shale & Sand	5157	6160	Swope Lime	4797
			Base/KC	4864
			Marmaton	4878
			Ft. Scott Lime	5008
			Cherokee Shale	5021
			Mississippian	5114
			Viola	5827
			Simpson Sand	5982

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

Date Received

D. E. Helmsley

Signature

Engineer

Title

2-20-81

Date

STATE OF KANSAS - CORPORATION COMMISSION

MULTIPOINT BACK PRESSURE TEST

0C13618

TYPE TEST $\frac{1}{4}$ PT. ☐ Initial ☐ Annual ☐ Special TEST DATE: 2-9-81

COMPANY Tuthill Barbee LEASE Pirce WELL NO. 1-27

COUNTY Comanche LOCATION C-E/ 2- 5W/4 SECTION 27 TWP 32 35 S RNG 19 W ACRES

FIELD RESEVOIR MISSISSIPPI PIPELINE CONNECTION

COMPLETION DATE PLUG BACK TOTAL DEPTH 5015 PACKER SET AT

CASING SIZE WT. ID SET AT PERF. TO
4 1/2" 10.5 4.052 5240 5120 5148

TUBING SIZE WT. ID SET AT PERF. TO
2 3/8" 4.7 1.995 5008

TYPE COMPLETION (Describe) Single Gas TYPE FLUID PRODUCTION WATER

PRODUCING THRU tubing RESERVOIR TEMPERATURE F BAR PRESS - P_a 14.4 Psia

GAS GRAVITY - G_g .700 (est.) % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID

VERTICAL DEPTH (H) TYPE METER CONN. Merla Tester (METER RUN) (PROVER) SIZE 2"

REMARKS State Geological Survey WICHITA, BRANCH

OBSERVED DATA

DURATION OF SHUT-IN HR.

RATE NO.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIEF. (h _w) (h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _o) psia	psig	(P _w)(P _i)(P _o) psia		
SHUT IN						PKR		1653	1667.4		
1	1/2	143		42		"		1559	1573.4	1	
2	1/2	170		46		"		1498	1512.4	1	
3	1/2	222		36		"		1439	1453.4	1	
4	1/2	262		46		"		1302	1316.4	1	
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _o) (F _p) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW Q Mcfd	GOR	Q _m
1	4.388	157.4		1.195	1.018	1.021	858		
2	4.388	184.4		1.195	1.014	1.024	1004		
3	4.388	236.4		1.195	1.024	1.032	1310		
4	4.388	276.4		1.195	1.014	1.037	1524		
5									

PRESSURE CALCULATIONS

RATE NO.	P _i psia	P _o psia	P _w psia	(P _o) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTING POINTS		% SHUT-IN $100 \left[\frac{P_w - P_a}{P_o - P_a} \right]$
						(P _o) ² - (P _w) ² THOUSANDS	Q Mcfd	
1		1667.4	1573.4	2780.2	2475.6	304.6	858	94%
2		1667.4	1512.4	2780.2	2287.4	492.8	1004	91%
3		1667.4	1453.4	2780.2	2112.4	667.8	1310	87%
4		1667.4	1316.4	2780.2	1732.9	1047.3	1524	79%
5								

INDICATED WELLHEAD OPEN FLOW 2469

Mcfd @ 14.65 psia

"n" = .494

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Executed this the 16th day of FEBURARY, 1981.

Harold R. Hayes
HAROLD R. HAYES

RAINBO SERVICE CO.

For Company

Witness (if any)

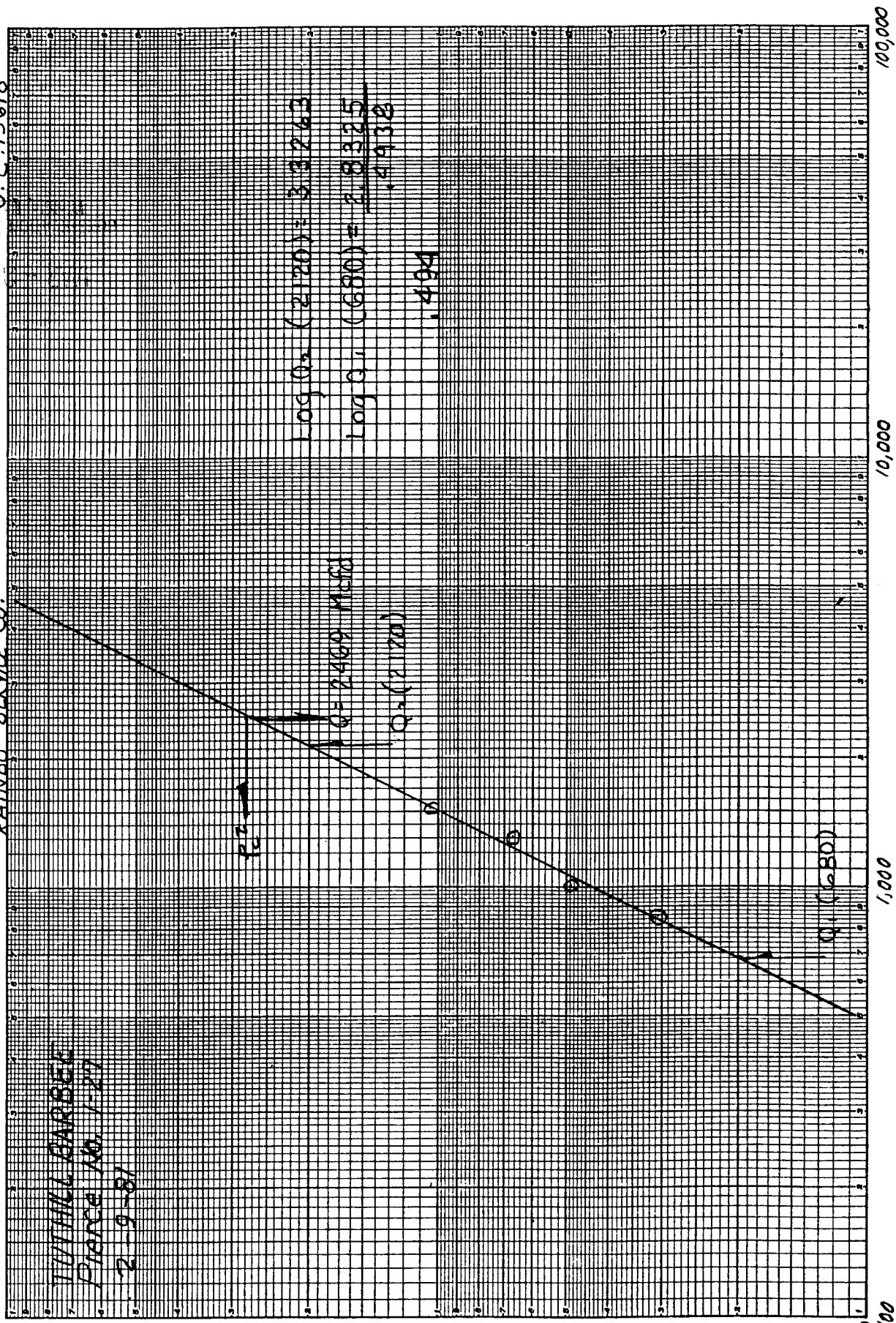


RAINBOW SERVICE CO.

TUTHILL BARBER
Pierce No. 1-27
2-9-81

State Geological Survey
WICHITA, KANSAS

P₂-P₂ (thousands)



P₂ 10