

STATE OF KANSAS
STATE CORPORATION COMMISSION
200 Colorado Derby Building
Wichita, Kansas 67202

WELL PLUGGING RECORD
K.A.R.-82-3-117

API NUMBER 15-009-19413-0001 N/A

LEASE NAME Bitter

WELL NUMBER 4

2970 Ft. from S Section Line

2970 Ft. from E Section Line

SEC. 8 TWP. 16S RGE. 13 (###) (W)

COUNTY Barton

Date Well Completed 2-2-88

Plugging Commenced 6-27-85

Plugging Completed 6-27-85

LEASE OPERATOR T.C. Johnson Est.

ADDRESS 205 Litwin Bldg., Wichita, KS 67202

PHONE#(316) 262-8427 OPERATORS LICENSE NO. 5274

Character of Well Oil

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

Did you notify the KCC/KDHE Joint District Office prior to plugging this well? Yes

Which KCC/KDHE Joint Office did you notify? Wichita

Is ACO-1 filed? Yes If not, is well log attached? _____

Producing Formation Arbuckle Depth to Top 3376 Bottom T.D. 3389

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put In	Pulled out
Arbuckle	O, G & W	0	622	10"	622'	-0-
		0	3382	7"	3382'	-0-

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet each set.

Tested 7" csg to 700# Max, SI @ 100 psi, Mixed 5sx hulls, 50sx cmt, 25sx gel, 1sx hulls, 100sx cement. Backside: Mixed 50sx cement (had no pressure) 200sx total as follows: 60/40 pozmix 6% gel, 3% cc, consisting of: 120sx common, 80sx pozmix, 37sx gel, 6sx chloride 6sx hulls.

(If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor T.C. Johnson Est.

Address 205 Litwin Bldg. Wichita, KS 67202

STATE OF Kansas COUNTY OF Sedgwick

C.W. Sebitts

(Employee of Operator or (Operator) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well, as filed that the same are true and correct, so help me God.

(Signature) C.W. Sebitts

(Address) 110 N. Market, Suite 205
Wichita, KS 67202

SUBSCRIBED AND SWORN TO before me this 5th day of July, 19 85

My Commission Expires: June 29, 1988

Notary Public
Katherine J. Rule

ROTARY DRILLING LOG

COMPANY: T. C. Johnson, Estate - #4 Bitter

Rotary Drilling Commenced 12-18-37

Rotary Drilling Completed 2-2-38

LOCATION: SE SE NW, Sec. 8-16S-13W
Barton County, Kansas

CONTRACTOR: Mitchell Drilling Company
Oklahoma City, Oklahoma

CASING RECORD: 10" at 622½' w/375 sx
7" at 3382' w/135 sx

LOG

(Figures indicate bottom of formation — measurements from top of rotary bushing.)

Clay & Shells	40	Sand	2210
Red Bed Shale	175	Shale	2240
Red Bed & Shale	340	Lime Brkn	2257
Shale & Shells	360	Lime & Shale	2345
Lime	395	Shale & Lime Shells	2408
Shale & Shells	455	Shale	2440
Pyrite	463	Brkn Lime	2455
Lime	470	Shale	2580
Pyrite - Hard	480	Shale & Lime Shells	2653
Pyrite	500	Shale	2675
Shale & Shells	608	Lime	2718
Shale & Lime	699	Lime & Shale	2770
Shale	715	Shale & Brkn Lime	2848
Pyrite	722	Brkn Lime	2882
Shale & Lime	835	Lime	3383
Lime - Hard	841	Dolomite	3389
Shale	915	RTD	3389
Anhydrite	930		
Lime	960		
Shale	1055		
Lime & Shale	1222		
Shale & Shells	1328		
Shale	1350		
Salt	1425		
Shale	1650		
Shale & Shells	1808		
Shale	1881		
Shale & Shells	1940		
Lime	1977		
Shale	1990		
Lime	2035		
Shale	2052		
Lime	2149		
Shale	2165		
Lime	2185		

The undersigned, C. W. Sebitts, Attorney-in-Fact for PICKRELL DRILLING COMPANY, hereby certifies in behalf of said Company, that the above is a true and correct log of the formation encountered in drilling the above well as reflected by the Daily Drilling Reports.

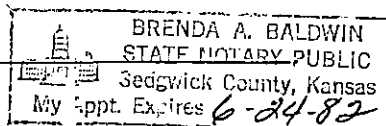
T. C. JOHNSON ESTATE
PICKRELL DRILLING COMPANY (Agent)
By [Signature]
C. W. Sebitts Attorney-in-Fact

STATE OF KANSAS }
COUNTY OF SEDGWICK } ss.:

On this 19 day of January, 19 81, before me the undersigned, a Notary Public, in and for the County and State aforesaid, personally appeared C. W. Sebitts, to me known to be the identical person who subscribed the name of PICKRELL DRILLING COMPANY to the foregoing instrument as its Attorney-in-Fact and acknowledged to me that he executed the same as his free and voluntary act and deed, and as the free and voluntary act and deed of such company, for the uses and purposes therein set forth.

Given under my hand and seal of office the day and year last above written.

My commission expires: _____



[Signature]
Brenda A. Baldwin
Notary Public