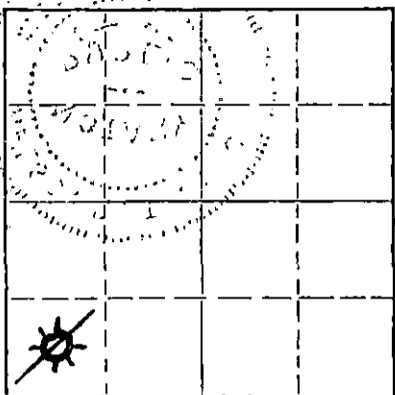


STATE OF KANSAS
STATE CORPORATION COMMISSION

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
211 No. Broadway
Wichita, Kansas

Kingman County. Sec. 1 Twp. 30 S Rge. 10 (E) W (W)
Location as "NE/CNW/SW" or footage from lines SW SW
Lease Owner Bachus Oil Company
Lease Name Bertholf Well No. 1
Office Address 721 E. Central, Wichita, Kansas
Character of Well (completed as Oil, Gas or Dry Hole) Gas
Date well completed 11/6/63 19
Application for plugging filed 7/6/70 19
Application for plugging approved 7/6/70 19
Plugging commenced 7/7/70 19
Plugging completed 7/9/70 19
Reason for abandonment of well or producing formation Depleted



Locate well correctly on above
Section Plat

If a producing well is abandoned, date of last production March 21, 1970 19
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well G. Russell Biberstein
Producing formation Indian Cave Depth to top 2519 Bottom 2550 Total Depth of Well 4675 Feet
Show depth and thickness of all water, oil and gas formations. Perforations 2523 to 2538

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
Surface Casing		Surface	226	8 5/8"	226	-0-
Indian Cave Sandstone	Gas	2519	2550	4 1/2"	4375	2300

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 for each plug set.
(Plug set at 2555 when well was completed)

Filled hole with chat from 2555 to 2505 and dumped 3 sacks of cement with dump bailer
Set a wood bridge plug at 210 and filled with rock to 200
Pumped 3 1/2 yards of Ready-Mix cement from 200 to surface

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CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Clarke Corporation
Address Box 187, Medicine Lodge, Kansas

STATE OF Kansas COUNTY OF Sedgwick, ss.
Dave Bachus (employee of owner) or (owner or operator) of the 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 and that the same are true and correct. So help me God.

(Signature) Dave Bachus
721 E. Central, Wichita, Kansas
(Address)

NELSON R. THOMAS
NOTARY
STATE OF KANSAS
SIGNED AND SWORN to before me this 21st day of July, 1970
My commission expires January 26, 1973

Nelson R. Thomas
Notary Public.

BERTHOLE No. 1

Casing Record:

8 5/8 " at 226
w 200 sacks cement
2% C₂ C₁
4 1/2" at 4375
w/225 sacks cement

Operator: Bachus Oil Company

Contractor: Bachus Oil Company

Commenced: September 14, 1963

Completed: October 1, 1963

Location: S7 SW
Sec. 1-305-10W
Kingman County
Kansas

Elevation: 1718 KB

Production:

Perforations:

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Wichita, Kansas

Formation:

From	To	Formation
0	140	Sand
140	229	Red Bed Shale & Shells
229	1090	Red Bed Sand & Shale
1090	1615	Shells & Lime
1615	1743	Shale & Lime
1743	1940	Lime with Shale
1940	2469	Lime & Shale
2469	2555	Lime Shale & Sand
2555	3216	Lime & Shale
3216	3309	Lime
3309	3409	Lime & Shale
3409	3709	Lime Shale & Sand
3709	3915	Lime
3915	3951	Lime & Chalk
3951	4001	Lime with Chert
4001	4135	Lime
4135	4285	Lime with Shale
4285	4292	Shale & Lime
4292	4387	Miss
4387	4563	Lime & Shale
4563	4605	Chert & Lime
4605	4628	Lime
4628	4675	Simpson Sand
	4675	Total Depth

Remarks

Formation Tops:

Formation	Depth	Equivalent
Heebner	3474	(-1756)
Douglas	3502	(-1784)
Brown Lime	3688	(-1970)
Lansing	3703	(-1985)
Mississippian	4284	(-2566)
Kinderhook	4380	(-2662)
Viola	4562	(-2844)
Simpson	4625	(-2907)
Total Depth	4675	(-2957)

DST No. 1:

1695-1713
Show gas 13 units
Open 1 hour fair blow
Recovered 65' watery mud
FP 47-52
BHP 172/30 121/30
RH 859-839
Temperature 84°

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Wichita, Kansas

DST No. 2:

2498-2555
Show gas 170 units
Open 2 hours good blow
Gas to surface 20 min. too small to measure
Recovered 210' gas cut mud and 120' gas cut
watery mud

Gauged

40 min.	164 MCF
45	175
60	190
75	240
90	310
105	350
120	403

Damage factor 4

FP 73-147
BHP 495-974
RH 1236-1229

DST No. 2: (con't)

Temperature 91°
BTU 971 N 13.7%
Fluid Analysis

Top
Mid.
Bot.

Mud

105,000 CI RECEIVED
110,000 CI STATE CORPORATION COMMISSION
118,000 CI JUL 7, 1970

120,000 CONSERVATION DIVISION
Wichita, Kansas

DST No. 3:

4292-4312

Show gas 60 units
Open 2 hours fair blow
Gas to surface 76 min. too small to measure
Recovered 75' Heavy mud cut water

FP 41-52

BHP 1472/30 - 1357/30

HH 2337-2305

Temperature 125°

BTU 1030

Fluid Analysis

Top
Mid.
Bot.

74,000 CI.
78,000
82,000

Mud

42,000

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Wichita, Kansas

DST No. 4:

4312-4327

Open 1 hour weak blow 25 min.
Recovered 35' watery mud

FP 30-45

BHP 1536/30

1099/30

HH 2316-2303

Temperature 124°

Fluid Analysis

Top
Bot.

65,000 CI.
58,000 CI.

Mud

45,000

I hereby certify that this is a true and correct copy of the above log to the best of my knowledge.

Nelson R. Thomas
Nelson R. Thomas

Subscribed and sworn to before me this 28th day of October, 1963.

My commission expires October 14, 1964.

Lovene C. Ehrsam
Lovene C. Ehrsam Notary Public