

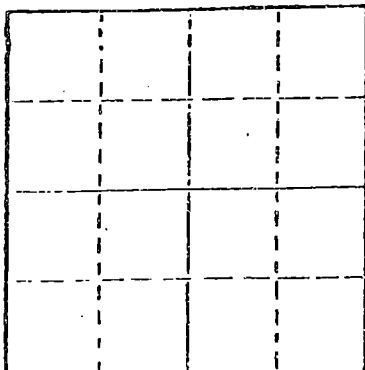
STATE OF KANSAS  
STATE CORPORATION COMMISSION

15-079-20367-0000

WELL PLUGGING RECORD

Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to  
Conservation Division  
State Corporation Comm.  
245 North Water  
Wichita, KS 67202

Harvey County, Sec. 10 Twp. 23S Rge. 3W E/W  
Location as "NE/CNW $\frac{1}{4}$ SW $\frac{1}{4}$ " or footage from lines  
900' SNL and 330' EWL - NE/4  
Lease Owner Tom Schrag  
Lease Name Schrag #1 Well No. \_\_\_\_\_  
Office Address Route 2, Burrton, Ks. 67020  
Character of Well (Completed as Oil, Gas or Dry Hole) \_\_\_\_\_



Locate well correctly on above  
Section Plot

Date Well completed 19  
Application for plugging filed 19  
Application for plugging approved 19  
Plugging commenced 11/6/80 19  
Plugging completed 11/6/80 19  
Reason for abandonment of well or producing formation  
Depleted

If a producing well is abandoned, date of last production 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 Don Thompson  
Producing formation \_\_\_\_\_ Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well 3366'  
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
				8-5/8"	272	None
				4-1/2"	3364	2870'

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 hold. If cement or other plugs were used, state the character of same and depth placed, from \_\_\_\_\_ feet to \_\_\_\_\_ feet for each plug set.

Squeezed hole with 4 sacks hulls, 20 sacks gel and 2 sacks hulls. Released plug and displaced with 135 sacks 50/50 pos 4% gel.

Plugging complete.

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STATE CORPORATION COMMISSION  
11-13-80  
NOV 13 1980

(If additional description is necessary, use BACK of this sheet)  
Name of Plugging Contractor KELSO CASING PULLING  
CHASE, KANSAS  
CONSERVATION DIVISION  
Wichita, Kansas

STATE OF Kansas COUNTY OF Rice, ss.  
R. Darrell Kelso (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) R. Darrell Kelso  
Chase, Kansas (Address)

SUBSCRIBED AND SWORN TO before me this 10th day of November, 19 80

My commission expires



Joan Kelso  
Notary Public.

H. C. HOPKINS  
PETROLEUM GEOLOGIST  
8801 MAPLE DRIVE  
OVERLAND PARK, KANSAS 66207  
913-648-5439

15-079-20367-0000

TOM SCHRAG  
NO. 1 SCHRAG

Sample Analysis Report  
By  
H. C. Hopkins

Tom Schrag  
No. 1 Schrag  
900' SNL-330' EWL-NE/4  
Sec. 10-23S-3W  
Harvey County, Kansas

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JUL 31 1980  
CONSERVATION DIVISION  
Wichita, Kansas

*Drilling time  
on Back*

H. C. HOPKINS  
PETROLEUM GEOLOGIST  
8801 MAPLE DRIVE  
OVERLAND PARK, KANSAS 66207  
913-648-5439

Tom Schrag  
No. 1 Schrag  
900' SNL-330' EWL-NE/4                      Elevation: 1474 RB  
Sec. 10-23S-3W    1471 DF  
Harvey County, Kansas    1469 GL

Spudded: July 14, 1978

Surface Casing: 8 5/8" 28# @ 272' with 250 sacks common cement,  
2% Gel, 3% CaCl<sub>2</sub>

Drilling Contractor: Bergman Drilling, Inc.

Rotary Total Depth: 3366 feet

SAMPLE ANALYSIS REPORT

One (1') foot drilling time was recorded from 2200 feet to rotary total depth. Ten (10') foot samples were kept from 2200 to 3200 feet and five (5') foot samples were kept from 3200 feet to rotary total depth.

The following data was compiled from sample analysis, time log and electric log interpretation and correlation. All tops and zones of porosity are corrected to rotary bushing measurements.

Samples were examined from 2200 feet to total depth. The test well was under geological supervision from 2875 feet to total depth of 3366 feet.

Heebner Shale	2232	(- 758)
Douglas	2295	(- 821)
Lansing	2532	(-1058)
Kansas City	2609	(-1135)

Several zones of porosity were observed in the samples through this series. All the zones were barren.

The porosity zone 2912-2919: Gas logged this zone, Cable Tool hole drilled 1926.

Base Kansas City	3045	(-1571)
Cherokee	3190	(-1716)
Conglomerate	3238	(-1764)
Mississippi (Warsaw)	3251	(-1777)

3251-3255 Limestone, cream-brown, medium crystalline, slightly dolomitic, trace white chert, dense, trace of glauconite, no show.

3263-3269 Limestone, light gray, very fine crystalline, dolomitic, trace chert, fair scattered pin point porosity, trace gas in wet sample, no stain, no odor.

Tom Schrag  
No. 1 Schrag  
Sec. 10-23S-3W  
Harvey County, Kansas

3274-3281 Limestone, buff-cream, fine crystalline, very poor pin point porosity, light stain, good show gas and free oil, good odor.

DRILL STEM TEST

Packer set at 3260', total depth 3286', 26 feet of anchor. Time intervals 25"-30"-30"-30". Tool opened with strong blow. Gas to surface 2". (Gas will burn)

First Opening:	5 min. Gauge	3/4 choke	245,000 CFG
	15 min. Gauge	3/4 choke	211,000 CFG
	25 min. Gauge	3/4 choke	175,000 CFG
Second Opening:	10 min. Gauge	3/4 choke	133,000 CFG
	20 min. Gauge	3/4 choke	93,000 CFG
	30 min. Gauge	3/4 choke	93,000 CFG

Recovered 30 feet gas cut mud.

IF 70#-35# ICIP 229#/30" FF 53#-35# FCIP 194#/30"  
Temperature: 100°

3293-3302 Limestone, white-buff, medium crystalline, trace fair scattered vugular porosity, trace scattered stain, free gassy oil, fair odor, with dolomite streaks, tan, very fine crystalline, poor intercrystalline porosity, good even stain, good show free oil.

3305-3310 Dolomite, tan, very fine crystalline, trace poor pin point porosity, good even stain, free oil, good odor.

3319-3321 Dolomite, tan, fine crystalline, trace poor pin point porosity, good even stain, trace free oil, fair odor.

3324-3326 Same description as 3319-3321.

Osage 3330 (-1856)

3330-3335 Chert, white, sharp, angular, china, fair vugular porosity, trace poor scattered light stain, trace free oil, no odor.

3337-3366 Chert, white, sharp, angular, china, good vugular porosity, no show.

Rotary Total Depth: 3366 feet.

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Tom Schrag  
No. 1 Schrag  
Sec. 10-23S-3W  
Harvey County, Kansas

COMMENTS AND RECOMMENDATIONS

The Tom Schrag No. 1 Schrag was drilled to a total depth of 3366 feet.

The test well was structurally higher than offsetting producing wells and encountered excellent shows of gas and oil in the Mississippi formation. The recovery of gas in the drill stem test indicated probable commercial production, therefore it was recommended that 4½" casing be set for production tests.

Correlation of time log and sample data reveal that five separate zones within the Mississippi offer the best prospects for production. They are as follows:

Zone 1 3324-3326, 3319-3321  
Zone 2 3305-3310  
Zone 3 3293-3302  
Zone 4 3274-3281  
Zone 5 3263-3269

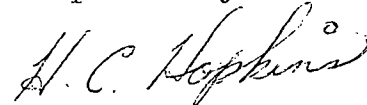
Melding of all data indicates that Zone 1 should be productive of oil with water. Zone 2 should be productive of oil, probably with water. Zone 3 should be productive of oil and a volume of gas after stimulative treatment. Zone 4 and Zone 5 should be productive of gas, probably large volume after stimulative treatment.

The low bottom hole pressure as indicated by the drill stem test may require some type of compressor to raise production to pipe line pressure.

The five zones should be evaluated on the N-GR Log, perforated and tested. The zone 2912-2919 should be tested before final abandonment.

Production casing, 4½" 9#, was set and cemented at 3364 feet with 75 sacks of 60/40 Pozmix.

Respectfully submitted,



H. C. Hopkins  
Geologist

HCH:ih

Tom Schrag  
 No. 1 Schrag  
 Sec. 10-23S-3W  
 Harvey County, Kansas

DRILLING TIME LOG

Depth From	To	Time																Remarks				
2200	20	2	2	2	3	3	4	4	6	6	6	5	5	5	5	4	5	4	4	5	4	
	40	5	6	6	5	5	7	7	5	5	4	5	3	2	2	2	2	3	5	5	5	
	60	5	6	4	4	3	3	3	4	4	2	3	5	4	3	3	2	3	1	3		
	80	2	1	2	2	1	2	2	1	1	2	2	2	4	2	3	3	4	4	4	2	
2300	2	2	3	3	3	3	2	3	3	3	4	4	4	4	4	2	2	3	3	2		
	20	2	2	2	2	2	6	6	5	2	2	2	2	2	2	3	2	3	3	4		
	40	3	3	2	3	3	3	2	2	2	2	2	2	2	1	2	1	1	2	3		
	60	3	3	3	3	4	3	4	4	2	3	3	4	3	3	5	3	3	6	7		
	80	8	7	6	5	6	5	6	6	6	5	7	4	5	9	9	4	2	2	2		
2400	3	1	2	1	2	1	3	1	1	2	2	2	3	3	2	2	2	2	2	2		
	20	2	3	3	2	2	3	4	6	6	6	5	7	5	2	2	2	2	4	1		
	40	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	2		
	60	1	1	2	1	1	2	1	1	3	3	5	4	5	4	6	4	3	3	4		
	80	4	4	4	4	4	3	3	4	3	3	3	2	2	2	2	2	2	4	4		
2500	5	5	4	4	4	5	3	3	2	3	3	3	3	3	3	3	3	2	3	3		
	20	2	2	3	3	7	3	4	3	3	3	4	5	3	3	7	4	3	3	4		
	40	3	4	4	3	3	4	3	3	4	2	2	2	4	4	3	5	4	4	3		
	60	3	3	3			3	4	3	3	4	3	4	3	4	4	4	3	3	2		
	80	3	2	2	2	3	2	2	2	3	2	3	2	2	2	3	2	3	3	4		
2600	3	3	3	2	2	3	2	3	2	1	2	3	3	4	3	2	2	2	2	3		
	20	3	3	1	1	1	1	2	2	2	4	3	4	3	4	4	2	2	3	3		
	40	3	4	4	1	3	2	2	2	2	2	1	3	2	4	2	1	1	1	2		
	60	4	4	4	3	2	3	3	2	3	3	3	4	3	4	3	4	3	4	4		
	80	4	5	4	3	4	5	4	4	4	2	4	6	4	2	2	2	2	1	1		
2700	2	3	3	3	3	4	3	2	3	3	3	3	3	2	3	3	4	3	4	3		
	20	4	7	5	4	5	3	5	3	4	2	4	5	4	5	4	4	6	5	5		
	40	5	5	4	5	5	4	3	2	4	6	7	3	6	5	4	5	5	1	1		
	60	1	1	1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	2	4	5	6	5	6		
	80	6	6	6	6	6	5	5	5	5	6	5	5	5	4	5	6	3	1	1		
2800	1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	1	1	2	2	4	5	4	4	3	3	3	4	3		
	20	2	4	4	3	4	3	4	3	4	3	4	4	3	4	3	3	3	4	3		
	40	4	4	3	3	3	3	2	3	1	2	2	3	$\frac{1}{2}$	$\frac{1}{2}$	1	2	4	6	7		
	60	7	6	6	6	6	6	6	6	5	8	5	4	4	4	4	4	4	4	4		
	80	3	4	1	5	5	4	7	6	7	7	7	6	7	8	7	8	7	8	8		
2900	7	8	8	9	8	9	9	9	9	9	9	9	8	8	7	7	9	8	5	2		
	20	4	4	3	4	4	5	5	5	2	4	3	5	4	4	3	4	4	4	4		
	40	6	5	5	5	5	5	5	4	3	4	5	6	5	6	6	6	5	5	4		
	60	4	4	4	4	4	4	3	3	6	6	5	5	4	4	4	4	4	4	4		
	80	3	3	4	3	3	3	4	3	4	3	3	3	4	4	5	3	4	4	4		
3000	6	5	6	7	6	6	6	7	6	6	6	6	7	7	7	6	8	6	6	6		
	20	5	5	5	6	6	6	5	5	5	6	6	6	7	7	9	6	6	6	7		
	40	9	8	7	9	9	9	9	9	8	9	9	9	9	9	9	9	9	9	9		
	60	9	9	9	8	8	4	3	2	3	4	3	3	4	3	4	4	5	5	5		
	80	7	8	6	6	5	1	7	6	3	7	8	7	9	6	4	4	4	4	7		
3100	5	5	7	8	7	7	5	4	7	5	6	7	7	5	7	5	5	4	4	2		

Kelly Corr. 2544

Tom Schrag  
 No. 1 Schrag  
 Sec. 10-23S-3W  
 Harvey County, Kansas

DRILLING TIME LOG

Depth From	To	Time	Remarks
3100	20	7 7 8 7 5 8 8 7 7 9 8 8 7 5 6 6 6 6 5 8	
	40	7 7 9 7 8 7 8 7 7 8 8 4 7 5 5 5 4 4 4 5	
	60	4 5 5 4 6 5 6 7 8 6 8 8 9 8 7 5 6 5 5 4	
	80	5 4 4 4 5 7 9 5 5 7 8 8 7 7 8 6 8 9 9 7	
3200	8	7 7 7 6 7 7 6 7 7 5 5 4 6 7 6 7 7 5 6	
	20	7 6 6 6 6 6 6 6 6 5 4 5 5 4 4 6 6 6 6 5	
	40	5 5 5 6 5 7 7 7 6 7 8 6 6 6 6 8 7 6 7 6	
	60	<del>5 5 5 7 6 6 6 6 6 8 6 8 7 7 9 9 9 9 9 9</del>	
	80	9 9 6 5 5 5 <u>3 3 3</u> 6 6 8 5 5 <u>4 4 4 4 5 4</u>	
3300	4	5 5 6 6 5 5 7 5 6 5 7 7 3 2 1 2 1 2 2	DST 3260-86
	20	2 2 4 4 4 3 2 4 3 4 5 5 6 4 5 5 6 8 6 5	
	40	2 6 6 5 2 4 7 8 6 6 2 3 3 2 3 5 5 3 4 4	
	60	3 4 3 4 3 3 2 2 3 2 2 1 2 3 2 2 1 2 2 3	
	66	2 2 2 2 2 1	