

15-095-00967-0000

*File
Endicott*

STATE OF KANSAS
STATE CORPORATION COMMISSION

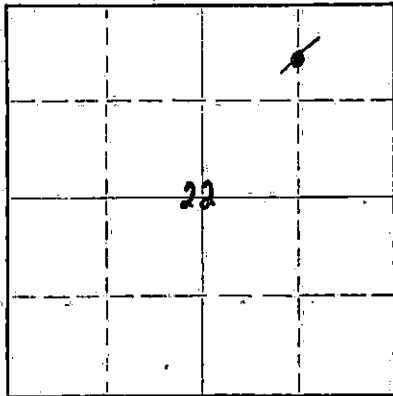
WELL PLUGGING RECORD

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. 22 Twp. 29S Rge. 7W (E) (W)

Location as "NE/CNW/SW" or footage from lines N/2 NE/4 NE/4
Lease Owner Robert F. White (was Galapp & Everly)
Lease Name Endicott Well No. 1
Office Address 714 Union Center, Wichita, Kansas 67202
Character of Well (completed as Oil, Gas or Dry Hole) Oil
Date well completed June 16 19 62
Application for plugging filed April 7 19 67
Application for plugging approved _____ 19 _____
Plugging commenced 12/19/67 19 _____
Plugging completed 12/30/67 19 _____
Reason for abandonment of well or producing formation depleted.
No longer economic
If a producing well is abandoned, date of last production January 1 1967
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

NORTH



Locate well correctly on above Section Plat

Name of Conservation Agent who supervised plugging of this well _____
Producing formation Viola Depth to top 4486' Bottom 4497' Total Depth of Well 4497' Feet
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
Surface Casing		0	375	8-5/8	375	0
Production String		0	4486	5-1/2	4486	3907'

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.

Checked hole to 4497', ran sand, dug cellar. Loaded hole, checked hole to 2400' and was sand bridged. Ran bailer, put stinger on sand pump got bridge out. Checked hole and ran 5 sacks of cement. Shot pipe at 3983', and 3890', worked pipe loose and pulled 94 joints of 5 1/2" casing. Set 10' rock bridge at 300' and ran 25 sacks of cement. Mudded hole to 40', set 10' rock bridge and ran 10 sacks of cement.

PLUGGING COMPLETE.

RECEIVED
STATE CORPORATION COMMISSION
JAN 24 1968
CONSERVATION DIVISION
Wichita, Kansas
1-24-68

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor KNIGHT CASING PULLING COMPANY, INC.
Address CHASE, KANSAS

STATE OF KANSAS COUNTY OF RICE, ss.
NOEL J. KNIGHT (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) Noel Knight
CHASE, KANSAS
(Address)

SUBSCRIBED AND SWORN TO before me this 31st day of December, 19 67

My commission expires February 15, 1971

Margaret Melcher
Notary Public.

GEORGE R. McNEISH
GEOLOGICAL ENGINEER
524 STATE BANK BLDG.
WINFIELD, KANSAS

WELL: Endicott #1

LOCATION: N/2 NE NE, Sec. 22-29S-7W
Kingman County, Kansas

OPERATOR: Gralapp & Everly

CONTRACTOR: Prime Drilling Co.

DRILLING COMMENCED: May 22, 1962

DRILLING COMPLETED: June 6, 1962

PRODUCTION:

ELEVATION: 1580 KB
1578 DF
1575 GL

DATUM: All measurements are
taken from the rotary
bushing, 5' above ground
level.

TOTAL ROTARY DEPTH: 4487 feet

Gralapp & Everly,
528 State Bank Bldg.,
Winfield, Kansas.

Re: Endicott #1

Gentlemen:

The following report covers facts pertinent to the drilling of your Endicott #1 well. It includes geological tops as determined from sample analysis and correlated with Schlumberger electric log and drilling time log information, daily drilling depths, casing record, testing data, structural data and sample description. Rotary depths are the same as Schlumberger measurements.

FORMATION TOPS

<u>Formation</u>	<u>Depth</u>	<u>Sub-Sea Datum</u>
Heebner	3096	-1516
Toronto	3112	-1532
Douglas	3134	-1554
Douglas Sand	3252	-1672
Lansing	3328	-1748
Base of Kansas City	3822	-2242
Marmaton	3880	-2300
Cherokee	4024	-2444
Mississippi	4112	-2532
Kinderhook	4384	-2804
Viola	4486	-2906
Total Depth	4487	-2907

DAILY DRILLING DEPTH

<u>Date</u>	<u>Depth @ 8 A.M.</u>	<u>Footage Made Previous 24 Hrs.</u>
May 22, 1962	Move in	-0-
" 23, "	375 (Set surface csg. @ 10:30 A.M.)	375
" 24, "	1160 (drill plug @ 8 P.M.)	785
" 25, "	1725	565
" 26, "	2175	450
" 27, "	2676	500
" 28, "	2915	240
" 29, "	3325	410
" 30, "	3528	203
" 31, "	3743	215
June 1, "	3905	162
" 2, "	4130	225
" 3, "	4165	35
" 4, "	4285	120
" 5, "	4360	85
" 6, "	4487 T.D. @ 7:36 A.M.	127

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BIT RECORD

Endicott #1

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Serial</u>	<u>Depth</u>		<u>Feet</u>	<u>Hrs.</u>
					<u>From</u>	<u>To</u>		
1	7-7/8	HTC	OSG3A	17194	375	1552	1177	23 1/2
2	"	"	OWV	47314	1552	1846	294	15 1/4
3	"	"	OSC-3	92157	1846	2393	547	22 3/4
4	"	"	OSC	53977	2393	2910	517	20 1/4
5	"	"	OWV	6562	2910	3395	315	27 1/2
6	"	"	"	47311	3395	3538	143	13 1/2
7	"	"	"	3849	3538	3787	249	25 1/2
8	"	"	"	24271	2787	3997	210	21
9	"	"	"	49567	3997	4140	143	11
10	"	"	W7	62660	4140	4245	105	15 1/4
11	"	"	W7	63457	4245	4341	96	15 1/2 Twist Off
12	"	"	OWV	45978	4341	4365	24	4 1/2
13	"	"	W7	63565	4365	4487	122	16 1/2

CASING RECORD

<u>Type</u>	<u>Footage</u>	<u>Size</u>	<u>Wt.</u>	<u>Thd.</u>	<u>Type</u>	<u>Set @</u>	<u>Cam. With</u>
Surface	375'	8-5/8"				375'	300 sacks
Prod.	4487'	5-1/2"	14#	8 Rd.	Smls.	4486'	100 sacks

TESTING DATA

The well was drill stem tested from a depth of 4118 to 4137 feet. (3' of cavings kept tool from going to bottom.) The tool was open 1 hour with a strong blow throughout. Recovery was: Gas to the surface in 3 minutes. Gas gauged 280,000 Bf, decreasing to 235,000 cf after 20 minutes, stabilizing at that point; 65 feet of gas cut-mud. Flow pressures were from 55# to 40#. Bottom hold pressure was 1545# initial and 1465# final in 30 minutes.

STRUCTURAL DATA

The following table gives the structural relationship between the Endicott #1 and surrounding wells on the various formations listed. Plus (+) footage indicates the Endicott #1 was higher, and minus (-) footage indicates it was lower than the given well.

	<u>Hanscome #1</u>	<u>Voran #1</u>	<u>Whitelaw #1</u>
	NW NW NE	S/2 N/2 SE	W/2 SW SW
	<u>22-29S-7W</u>	<u>15-29S-7W</u>	<u>14-29S-7W</u>
Lansing	-0-	-9	-7
Marmaton	-1	-13	-7
Mississippi	+8	-6	-4
Viola	+1	-11	+2

SAMPLE ANALYSIS

Depth		<u>Formation Description</u>	<u>Remarks</u>
<u>From</u>	<u>To</u>		
2700	2725	shale, gray	
2725	2747	lime, tan to brown, mottled, dense to crystalline, some fossiliferous and oolitic	
2747	2758	shale, gray, limey	
2758	2794	lime, tan, chalky to fine crystalline, soft	
2794	2839	lime, tan, dense to fine crystalline	
2839	2842	shale, gray	
2842	2862	lime, white, fine crystalline, with pin-point porosity	No show
2862	2876	shale, gray, with some lime	
2876	2896	lime, white, fine crystalline	
2896	2948	lime, tan and light tan, dense to fine crystalline	
2948	2978	shale, gray	
2978	2998	lime, light tan to white, chalky to fine crystalline	
2998	3005	shale, gray	
3005	3058	lime, light tan, dense to crystalline	
3058	3081	shale, gray	
3081	3085	lime, light tan, chalky to fine crystalline	
3085	3090	shale, gray	
3090	3096	lime, light tan, chalky to fine crystalline	
3096	3102	shale, gray	Heebner
3102	3104	lime, white to light tan, dense to chalky	
3104	3112	shale, gray	
3112	3134	lime, white to light tan, dense to chalky	Toronto
3134	3200	shale, gray	Douglas
3200	3206	lime, white, with shale lamination	
3206	3252	shale, gray	
3252	3306	sand, gray-white, fine grained, silty, with shale lamination	Douglas Sand
3306	3328	shale, gray	
3328	3333	lime, tan, dense	Lansing
3333	3342	lime, tan and light tan, dense	
3342	3346	lime, tan, some crystalline, with trace of pin-point porosity	No show.
3346	3368	lime, white to light tan, chalky to fine crystalline, no porosity	
3368	3374	shale, gray	
3374	3394	lime, white to light tan, chalky to crystalline and dense	
3394	3396	shale, gray	
3396	3408	lime, as above	
3408	3414	shale, gray	
3414	3436	lime, light tan, dense to crystalline	

P. 4		SAMPLE ANALYSIS (Cont'd)		Endicott #1
Depth				
From	To	Formation Description		Remarks
3436	3449	lime, tan and light tan, some crystalline		No show
3449	3472	lime, tan, dense		
3472	3475	shale, gray		
3475	2520	lime, tan and light tan, dense, to fine crystalline		
3520	3524	lime, tan to brown, with trace of chert		
3524	3540	lime, tan to brown, dense to crystalline		
3540	3550	shale, dark gray		
3550	3556	lime, tan to brown, dense		
3556	3558	shale, gray		
3558	3579	lime, tan to brown, dense, some shaley		
3579	3585	shale, gray		
3585	3596	lime, tan to brown, dense		
3596	2621	lime, tan to brown, dense, some crystalline		No show.
2621	3625	lime, tan, dense, some cherty		
3625	3633	shale, gray		
3633	3646	lime, tan to white, dense to crystalline		
3646	3648	shale, gray		
3648	3670	lime, tan, dense to crystalline, with some shale		
3670	3739	lime, tan to white, crystalline, and dense		
3739	3741	shale, black, lignitic		
3741	3745	lime, brown, dense		
3745	3750	lime, brown, fine crystalline, oolitic, some good oolitic porosity		No odor, stain or fluorescence. Slight taste of oil.
3750	3774	lime, tan, dense		
3774	3775	shale, black, lignitic		
3775	3780	lime, tan, dense		
3780	3782	shale, gray		
3782	3796	lime, tan, oolitic, fair to good oolitic porosity		No show.
3796	3822	lime, tan, dense, with some shale lamination		Base of Kansas City.
3822	3880	shale, gray, and dark gray		
3880	3889	lime, tan, dense		Marmaton
3889	3894	shale, dark gray		
3894	3932	lime, tan to brown, dense		
3932	3936	shale, gray and dark gray		
3936	3965	lime, tan to brown, dense		
3965	3968	shale, black, lignitic		
3968	3985	lime, tan to brown, dense		
3985	3990	shale, gray		

P. 5 Depth		SAMPLE ANALYSIS (Cont'd)	Endicott #1
From	To	Formation Description	Remarks
3990	4024	lime, tan, dense, and shale, gray	
4024	4090	shale, gray, with some lime streaks	Cherokee
4090	4112	shale, gray and red	
4112	4121	chert, white, weathered, soft, porous	Mississippi. No odor, spotted stain. No fluorescence. Gas zone.
4121	4123	shale, gray	
4123	4126	chert, as above	
4126	4143	chert, white and green, shaley, hard, some porous, shaley	
4143	4185	lime, white, calcitic, crystalline, with some chert	
4185	4190	chert, hard, milky, some weathered and lime, white	No show.
4190	4220	chert, and lime, white to tan, crystalline and dense	
4220	4264	lime, white to light tan, crystalline, some cherty	
4264	4275	lime, and shale streaks	
4275	4320	lime, white to tan, crystalline, and calcitic	
4320	4333	lime, tan, dense to crystalline	
4333	4342	lime and shale	
4342	4384	lime, tan and brown, dense, with trace of tan chert	Base of Mississippi.
4384	4410	shale, gray and red	Kinderhook.
4410	4443	shale, gray and red, with lime streaks	
4443	4486	shale, gray, brown and black (scratches brown)	
4486	4487 (RTD)	Dolomite, medium crystalline, gray, porous	Viola. Faint odor, fair stain & fluorescence. Slight show of free oil with black residual oil.

REMARKS

There was no show of oil in this well in the Kansas City zones producing in the wells to the north.

The upper portion of the Mississippian was well developed. A drill stem test on this zone indicated a probable gas producer after treatment. The section thinned up somewhat in the base of the Cherokee, making the well only slightly lower than the well to the northeast.

The well was drilled one foot into the Viola and casing was set off bottom. An attempt will be made to produce the Viola in the open hole with the possibility of having to drill a few more feet with cable tools.

After the Viola is tested, the Mississippian should be tested for gas production.

Yours truly,

George R. McNeish
George R. McNeish,
Geological Engineer.