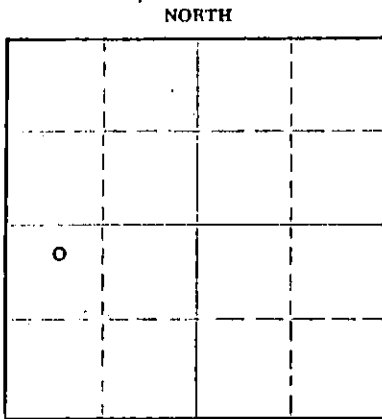


STATE OF KANSAS
STATE CORPORATION COMMISSION

Form CP-4

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

WELL PLUGGING RECORD



Locate well correctly on above
Section Plat

Stafford County, Sec. 6 Twp. 22 Rge. 12 (E) W (W)
Location as "NE/CNW/SW" or footage from lines. C NW/4 SW/4
Lease Owner Pan American Petroleum Corporation
Lease Name H. Krankenberg Well No. 4
Office Address P. O. Box 1654, Oklahoma City, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole) Oil
Date well completed 11-9-1943
Application for plugging filed 7-16-1964
Application for plugging approved 7-17-1964
Plugging commenced 9-7-1964
Plugging completed 9-9-1964
Reason for abandonment of well or producing formation Economically depleted.

If a producing well is abandoned, date of last production January, 1964
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 A. Elving
Producing formation Arbuckle Depth to top 3660 Bottom 3663 Total Depth of Well 3663 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
Arbuckle	Oil	3660	3663	8-5/8	243	None
	Depleted			5-1/2	3688	1003

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.

Filled with sand 3663' to 3650' topped with 5 sacks cement. Pulled pipe, set rock bridge at 240' and dumped 3 yards of concrete on bridge.

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SEP 30 1964

9-30-64
CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Barnes & Sons Pipe Pulling Company
Address Box 313, Russell, Kansas

STATE OF Kansas, COUNTY OF Seward, ss.
I, D. M. Liles (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) D. M. Liles
P. O. Box 432, Liberal, Kansas
(Address)

SUBSCRIBED AND SWORN to before me this 25th day of September, 1964

My commission expires February 11, 1968

R. W. Banks
R. W. BANKS Notary Public.

STANOLIND OIL AND GAS COMPANY

WELL RECORD

640 Acres
N R-12-W

	160				160
			6		
	160				160

Locate Well Correctly

T
22
S

COUNTY Stafford, SEC. 6, TWP. 22-S, RGE. 12-W
 COMPANY OPERATING Stanolind Oil and Gas Company
 OFFICE ADDRESS P. O. Box 591, Tulsa, Oklahoma
 FARM NAME H. Krankenberg WELL NO. 4
 DRILLING STARTED Oct. 16, 1943, DRILLING FINISHED Oct. 30, 1943
 WELL LOCATED 0 $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ 1980 ft. North of South
 Line and 573 ft. East of West Line of Quarter Section.
 ELEVATION (Relative to sea level) DERRICK FLR. 1876 GROUND 1873'3"
 CHARACTER OF WELL (Oil, gas or dry hole) Oil

OIL OR GAS SANDS OR ZONES

	Name	From	To	Name	From	To
1	Top Lansing	3323		4 Top Arbuckle	3560	
2	Top Conglomerate	3559				
3	Top Simpson	3593				

WATER SANDS

	Name	From	To	Water Level	Name	From	To	Water Level
1					4			
2					5			
3					6			

CASING RECORD

Size	Wt.	Thds.	Make	Amount Set		Amount Pulled		Packer Record			
				Ft.	In.	Ft.	In.	Size	Length	Depth Set	Make
8 5/8"	28#	8 VT	Used	241	3	Threads Off		(Landed at - 247'	1")		
5 1/2" OD	14#	8 RT	Grade H.	3664	4	Threads Off		(Landed at - 3667'	4")		
											SLM 3660'

Liner Record: Amount _____ Kind _____ Top _____ Bottom _____

CEMENTING AND MUDDING RECORD

Size	Amount Set		Sacks Cement	Chemical		Method Cementing	Amount	Mudding Method	Results (See Note)
	Feet	In.		Gal.	Make				
8 5/8"	243	3	220	Ash Grove		Halliburton			
5 1/2" OD	3683	4	100	Ash Grove		Halliburton			

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STATE CORPORATION COMMISSION

NOTE: What method was used to protect sands when outer strings were pulled?

SEP 30 1961

NOTE Were bottom hole plugs used? _____ If so, state kind, depth set and results obtained _____

CONSERVATION DIVISION
Wichita, Kansas

TOOLS USED

Rotary tools were used from 0 feet to 3563 (D) feet, and from _____ feet to _____ feet
 Cable tools were used from to clean out feet to _____ feet, and from _____ feet to _____ feet
 Type Rig 94" Structural Steel.

Temp. Potential 418 BOPD effective Nov. 10, 1943 for daily allowable 25 BPD

Production first 24 hours _____ bbls. Gravity _____, Emulsion _____ per cent., Water _____ per cent
 Production second 24 hours _____ bbls. Gravity _____, Emulsion _____ per cent., Water _____ per cent

If gas well, cubic feet per 24 hours _____ Rock Pressure, lbs. per square inch _____

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

H. G. [Signature] Field Supt.
Name and Title

Subscribed and sworn to before me this the 15th day of November, 1943

My commission expires _____ Notary Public.

FORMATION RECORD

Give detailed description and thickness of all formations drilled through and contents of sand, whether dry, water, oil or gas.

Formation	Top	Bottom	Formation	Top	Bottom
Surface Dirt	0	30	<u>STANOLIND RECORD</u>		
Sand & Clay	30	190	Core #1	3645	3652
Red Bed	190	669	Full Recovery		
Anhydrite	669	712	Green Shale.		
Shale	712	945			
Shale & Shells	945	1180	Core #2	3652	3655
Sand & Shale	1180	1185	3/3 Rec.		
Shale	1185	1295	Green Shale		
Salt	1295	1463			
Salt & Shale	1463	1489	Core #3	3655	3660
Shale & Lime	1489	1565	5/8 Rec.		
Lime	1565	1755	Green Shale, streaks of Sli. Por. & Sli. Sat.		
Lime & Shale	1755	1877			
Lime	1877	1935	Core #4	3660	3663
Shale & Shells	1935	1950	3/3 Rec.		
Lime	1950	1970	Dolomite, good Por. & Sat. throughout.		
Broken Lime & Shale	1970	1990			
Lime	1990	2030			
Shale	2030	2040			
Lime	2040	2080	Drilled to 3663' TD in Arbuckle, topped at 3660'.		
Shale & Lime	2080	2150	5 1/2" OD casing, set at 3660' SIM.		
Lime	2150	2320	Acidized with 1000 gal., took acid 47 minutes,		
Lime & Shale	2320	2430	max. pressure 750 PSI. Swabbed 8 BOPH, no water		
Shale & Shells	2430	2493	off bottom, before acidizing. Three hour swab test		
Lime & Shale	2493	2545			
Shale	2545	2590	Date First Work	Oct. 8, 1943	*(see below)
Lime & Shale	2590	2655	Drilling Commenced	Oct. 16, 1943	
Broken Lime & Shale	2655	2785	Drilling Completed	Oct. 30, 1943	
Lime	2785	2792	Completed as Producer	Nov. 9, 1943	
Lime & Shale Streaks	2792	3062			
Lime	3062	3068	Permanent Bench Mark, Center 2" outlet on		
Lime & Shale	3068	3303	Braden Head, 1871'.		
Lime	3303	3453			
Lime & Shale Streaks	3453	3509			
Lime	3509	3537			
Lime & Shale	3537	3559	* 1500 feet from top, 23 BOPH. Two hour swab		
Conglomerate	3559	3597	test 1000 feet from top 10 BOPH, no water.		
Shale	3597	3699	Attempted to take drawdown potential, unable		
Lime & Shale	3600	3645	to stabilize.		
Shale	3645	3660	Established temporary potential 418 bbls. oil,		
Dolomite	3660	3663 TD	no water, effective Nov. 10 for daily allowable		
			25 BPD.		