

STATE OF KANSAS  
STATE CORPORATION COMMISSION

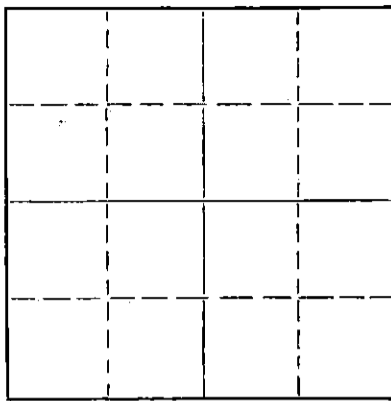
Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
212 North Market, Insurance Bldg.  
Wichita, Kansas

WELL PLUGGING RECORD

Comanche County. Sec. 6 Twp. 35S Rge. 20 ~~18E~~ (W)

Location as "NE/CNW/SW" or footage from lines C SW SW  
Lease Owner The Pure Oil Company  
Lease Name C. H. Tuttle "B" Well No. 1  
Office Address Box 9545 - Oklahoma City 18, Oklahoma  
Character of Well (completed as Oil, Gas or Dry Hole) Gas  
Date well completed 5-20 19 57  
Application for plugging filed 7-7 19 61  
Application for plugging approved 7-13 19 61  
Plugging commenced 7-20 19 61  
Plugging completed 7-30 19 61  
Reason for abandonment of well or producing formation Well dead

NORTH



Locate well correctly on above  
Section Plat

If a producing well is abandoned, date of last production July 19 60  
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 W. L. Lac Kamp, Jr.  
Producing formation Morrow Depth to top 5443 Bottom 5551 Total Depth of Well 5657PB 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
				16"	194	-
				8-5/8"	2503	-
				5 1/2"	5700	3257

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.

Mudded to 4150'. Cemented with 5 sacks 4150-4145'. Mudded 4145-600'. 10' crushed rock and 20 sacks cement 600-570'. Mudded 570-40'. 10' crushed rock and 10 sacks cement 40-0. Steel cap on 8-5/8" casing.

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Name of Plugging Contractor Forbes Casing Pulling Company  
Address Box 221 - Great Bend, Kansas

STATE OF Oklahoma COUNTY OF Oklahoma, ss.  
J. J. Wasicek (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) J. J. Wasicek  
Box 9545 - Oklahoma City 18, Oklahoma (Address)

SUBSCRIBED AND SWORN TO before me this 14 day of August, 19 61

My commission expires 4-14-64

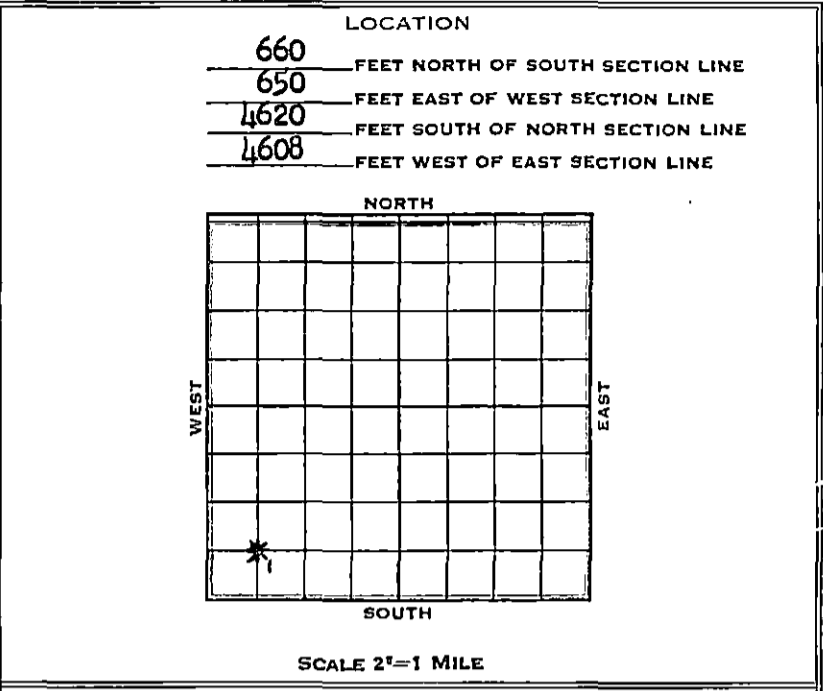
Notary Public.



WELL LOG AND RELATED DATA

DIVISION S. W. Producing DISTRICT Buffalo LEASE Tuttle, C. H. "B"  
 ACRES 598.4 (Pt. 2139.39) LEASE NO. Pt. 11846 AFE NO. 2367 ELEVATION Grd. 1771', D.F. 1780' WELL NO. 1  
 TWP. 35S RGE. 20W PRCT.-DIST.-TWP. -  
 SURVEY (Chester Prospect) COUNTY Comanche STATE Kansas

FROM	TO	TOTAL	FORMATION
(Sample data start @ 4100')			
0	145	145	Red Bed & Sand
145	348	203	Shale & Shells
348	1634	1286	Red Bed & Shells
1634	1965	331	Shale & Anhydrite
1965	2515	550	Anhydrite
2515	2577	62	Lime & Shale
2577	2665	88	Lime
2665	2852	187	Lime & Shale
2852	2900	48	Lime
2900	3207	307	Lime & Shale
3207	3283	76	Lime
3283	3393	110	Chalky Lime
3393	3502	109	Lime
3502	3875	373	Lime & Shale
3875	4087	212	Shale
4087	4170	83	Shale, gray
4170	<u>ELGIN (Geol. Top)</u>		
4170	4202	32	Sand, shaley, gray, tight glauconitic, trace scattered stain fluorescence
4202	4311	109	Shale
4311	<u>HEEBNER (Geol. Top)</u>		
4311	4398	87	Lime, gray-buff, crystalline, slightly chalky
4398	4506	108	Shale
4506	<u>LANSING-KANSAS CITY (Geol. Top)</u>		
4506	5141	635	Lime, w/thin shale breaks, porous locally cherty locally
5141	<u>MARMATON (Geol. Top)</u>		
5141	5303	162	Lime w/shale breaks
5303	<u>CHEROKEE (Geol. Top)</u>		
5303	5443	140	Shale w/thin lime streaks
5443	<u>MORROW (Geol. Top)</u>		
5443	5470	27	Shale
5470	5551	81	Sand & Shale (See core description 5470-5575)
5551	<u>MISS. CHESTER (Geol. Top)</u>		
5551	5621	70	Lime & Shale (See core description)
5621	<u>MISS. STE. GENEVIEVE (Geol. Top)</u>		
5621	5781	160	Lime, sandy & sand, limy
5781			TOTAL DEPTH
5781	<u>Plugged Back</u>		
5781	5657	124	Cement in 5 1/2" csg.
5657			TOTAL DEPTH-PB
(All measurements taken from top of rotary bushing which is 3' above derrick floor.)			
PAY ZONE:			
5538	5543		



CASING AND CEMENTING RECORD

SIZE CASING	16"	8-5/8"	5-1/2"
THREAD	8 Rd.	8 Rd.	8 Rd.
WEIGHT	65#	24&28#	14&15 1/2#
GRADE	H-40	J-55	J-55
CONDITION	C/A	C/A	C/A
SET AT	194	2503	5700
SACKS CEMENT	225	1400	425
SIZE OF HOLE	21"	11"	7-1/8"

(Temperature Survey indicated top cement behind 5 1/2" csg. at 3940'.)

LINER RECORD

SIZE	WT.	COND.	LENGTH	BLANK	PERF.	SET AT

(1) GUN PERFORATING RECORD

DATE	CASING	FROM	TO	SIZE SHOTS	NO. SHOTS
5/23/57	5 1/2"	4179	4183	1/2"	16(Sqzd.)
5/23/57	5 1/2"	4195	4201	1/2"	24(Sqzd.)
5/29/57	5 1/2"	4179	4183	1/2"	16(Sqzd.)
5/29/57	5 1/2"	4195	4201	1/2"	24(Sqzd.)

ACID RECORD

DATE	TOP	BOTTOM	ACID	REMARKS
5/30/57	4179	4201	500 G 7% Dowell Acid	
5/31/57	4179	4201	6,000 Petrofrac & 6,000# Sand	
2/ 1/60	5538	5543	300G. Acid, 5000G. PFrac, 5000#S.	

DRILLING: COMMENCED 4/14/57 COMPLETED 5/20/57  
 ELECTRICAL SURVEY BY Schlumberger (Caliper Elec. & Micro) DATE 5/18 & 5/29/57(2)  
 DRILLED WITH (Unit Drilling Co.) Rotary TOOLS  
 DRILLED IN WITH (Unit Drilling Co.) Rotary TOOLS  
 FIRST PROD. - NAT. DATE - HRS. - BBLs. - OIL  
 WATER - M CU. FT. GAS - LBS. ROCK PRESS.  
 (3) FIRST PROD. AFTER ACID - DATE 6/5/57 HRS. - BBLs. - OIL  
 WATER 2,000 M CU. FT. GAS - LBS. ROCK PRESS.  
 GAS/OIL RATIO - POTENTIAL 2,000,000 CFD BBLs.  
 GRAVITY - TEMP. - GRADE

- (1) Additional perforations: 6/ 4/57: 5 1/2": 5538-5543: 1/2", 20 shots.
- (2) Lane-Wells (Gamma-Ray) 5/23/57.
- (3) Date of potential test - Completed as shut-in gas well 6/ 6/57.

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FROM	TO	TOTAL	FORMATION	FROM	TO	TOTAL	FORMATION
				<u>ADDITIONAL WELL DATA:</u>			
				<u>ANGULAR DEVIATIONS: (Sure-Shot)</u>			
					Degrees		Degrees
				<u>Depth</u>	<u>Off Vertical</u>	<u>Depth</u>	<u>Off Vertical</u>
				519	1/2	2907	2 1/2
				775	1/2	3080	2
				1050	3/4	3630	3/4
				1500	1/4	3760	1
				1965	3/4	4637	3/4
						5060	3/4
				<u>CORE RECORD:</u>			
				<u>Core No.</u>	<u>Depth</u>	<u>Recovery</u>	<u>Description</u>
				1	5470-5495	22 1/2'	4' Limestone, tan, dense, wf dead oil stain along fracture - 8' Shale, green rotten - 10 1/2' Shale, dark gray, rotten.
				2	5495-5540	45'	40' Shale, black rotten, 1' Lime, gray, dense - 4' Sand, fine to med. grained, white, slightly glauconitic, fair odor, spotted fluorescence, no stain or cut, fractured.
				3	5540-5549	7 1/2'	2' Limestone, tan, dense, pyritic, hard, no show - 4 1/2' Shale, green, rotten - 1' Limestone, tan, dense & Shale, green.
				4	5549-5575	26'	1' Limestone, tan, fossiliferous & Shale, green - 6 1/2' Limestone, tan to green, fossiliferous, crystal - 3' Limestone, tan to green & shale, green - 3 1/2' Limestone, tan to green, very fossiliferous, crystalline, trace of bleeding gas - 12' Shale, green to maroon rotten
				<u>DRILL STEM TESTS:</u>			
				4/29/57		3406-3503 (Penn.)	
							Tool open 45 minutes. Slight blow air at surface immediately and died in 26 minutes. Recovered 10' mud. IFP and FFP zero. 30 minutes SI BHP 545#.
				5/ 3/57		4120-4190 (Elgin)	
							Tool open 1 hr., fair blow to surface very slowly increasing throughout test - Recovered 80' gas cut drilling mud, 90' oil and gas cut drilling mud. 20 minute Initial SI BHP 100#. 20 minute final BHP 595# (HP 2040#).
				5/ 7/57		4754-4785 (K.C. Lime)	
							Tool open 1 hour. Fair blow air to surface immediately and continued throughout test. Recovered 960' muddy salt water. 20-minute initial SI BHP 1943#, IFP 163#, FFP 515# - Final 20 minute SI BHP 1558#.
				5/19/57		5442-5625 (Morrow)	
							Tool open 1 hour. Good blow air to surface in 3 minutes and gas in 6 minutes. Initial test 1,930,000 CFD and after 30 minutes 2,930,000 CFD and remained at this volume throughout test. Recovered 420' heavy gas cut and slightly oi-cut mud. IFP 435#, FFP 435#. 30 minute SI BHP 2015#.
				<u>P.B. &amp; PERFORATE:</u>			
						5/21/57 - 5/23/57	
							Set 5 1/2" csg. at 5700' wf 425 ex. poz-mix - Top cement inside 5 1/2" csg. at ...

FROM	TO	TOTAL	FORMATION	FROM	TO	TOTAL	FORMATION
<b>ADDITIONAL WELL DATA: (Cont'd)</b>							Load oil & 1 bbl salt wtr, leaving 77 bbl
<b>P.B. &amp; PERFORATE: (Cont'd)</b>							Load oil due. Conn. to NNG - well would
			5657, new plugged back total depth - Displaced mud in csg. wf 115 bbls. oil - Lane-Wells ran Gamma-Ray Log then perforated 5 1/2" csg. in Elgin Sand 4179-4183 & 4195-4201 wf 4 shots per foot, total 40 shots.				not deliver against line press of 480#. Prod before - would not deliver against line press. Prod after - 34.6 MCFD gas - would not deliver against NNG line press of 480# Shut in pending decision on further rem- edial work. 76 bbls. load oil due.
<b>SQUEEZE:</b>							BEFORE: 13 MCFD - Would not deliver against line pressure.
			5/24/57 - 5/29/57 Well pressured up after perf. due to bad cement job. Halliburton cement- ed perforations 4179-4183 & 4195-4201 with 100 sx. Pozmix. Drilled out ce- ment 3900-4198. Perforations 4179- 4183 & 4195-4198 cemented off - Perforations 4198-4201 open - Set RTTS packer at 4168. Pumped 13 bbls. water into formation at 1000# pres- sure. Cement held above perforations. Squeezed perforations 4198-4201 with 38 sx. Pozmix at 4000# pressure. Drilled out cement 4165-4201. Pres- sured up on perforations 4179-4183 & 4195-4201 to 1400# pressure and per- forations broke down. Halliburton resqueezed perforations 4198-4201 with 59 sx. Pozmix at 4000#. Drilled out cement 4165-4201.				AFTER: 34.6 MCFD Gas, 15/64" choke- Would not deliver against line pressure.
<b>REPERFORATED:</b>							
			5/29/57 Lane-Wells reperforated 5 1/2" csg. in Elgin Sand wf 40, 1/2" shots, 4 shots per ft., 4179-4183 & 4195-4201.				
<b>ACID-PETROFRAC:</b>							
			5/31/57 Dowell made Acid Petrofrac treatment of Elgin Sand thru perforations in 5 1/2" csg. 4179-4183 and 4195-4201 as follows: Loaded tubing with 16 bbls. oil. Broke down formation at 1500# decreasing to 1200# as oil entered formation - Pumped in 500 gals. 7% acid followed by 6000 gals. acid petrofrac material and 6000# sand - Maximum pressure 4000#, minimum 3500# Flushed tubing with 36 bbls. crude ending flush at 3200#.				
<b>SQUEEZE:</b>							
			6/1/57 - 6/4/57 Halliburton squeezed perforations in Elgin Sand 4179-4183 and 4195-4201 with 92 sx. Pozmix at 4000# pressure. Drilled out cement 4166-4202. Pressur- ed up and formation took fluid at 1800#. Resqueezed with 30 add'l. sx. Pozmix at 1600# min. and 4000# max. pressure. Drilled cement 4165-4203.				
<b>PERFORATE:</b>							
			6/4/57 Lane-Wells perforated 5 1/2" csg. in Morrow with 20, 1/2" shots, 4 shots per ft., 5538-5543.				
<b>ACIDIZE &amp; PETROFRAC:</b>							
			2/1/60 - 2/25/60 Dowell made petrofrac treatment of Morrow thru perf in 5 1/2" csg 5538-5543 as follows: pumped in 300 gal mud acid and broke down form w/35 bbl oil @ 4150#. Pumped in 5000 gal petrofrac & 5000# sand at max 4200#, min 3550#. Flushed tubg w/28 bbl salt wtr, ending flush @ 3550#. Swabbed 19 days, recovering 75 bbl load oil, leaving 79 due. Prod 20 bbl salt wtr. Flwd 2 hrs thru 30/ 64" ck, prod 1 bbl load oil & died. Flwd 4 hrs thru 20.64" ck, prod 1 bbl				

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