

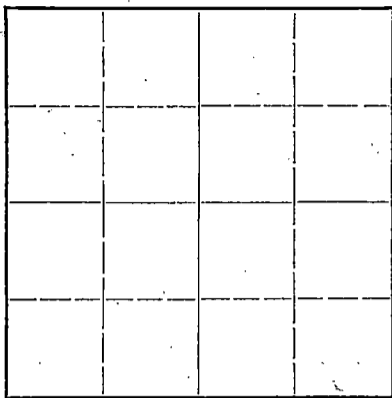
Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
800 Bitting Building
Wichita, Kansas

OR

FORMATION PLUGGING RECORD

Strike out upper line
when reporting plugging
of formations.

Clark County. Sec. 14 Twp. 34S Rge. (E) 21 (W)
Location as "NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ " or footage from lines C NW SW
Lease Owner The Pure Oil Company
Lease Name J. C. Harper "B" Well No. 2
Office Address Box 9545 - Oklahoma City 18, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole
Date well completed 1-18-56 19.
Application for plugging filed 2-3-61 19.
Application for plugging approved 2-8-61 19.
Plugging commenced 2-20-61 19.
Plugging completed 2-26-61 19.
Reason for abandonment of well or producing formation Dry Hole
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



Locate well correctly on above
Section Plat

Name of Conservation Agent who supervised plugging of this well W. L. Lackamp, Jr.
Producing formation Dry Hole Depth to top Bottom Total Depth of Well 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
				13-3/8"	81'	-
				8-5/8"	577'	-
				5 1/2"	5521'	3252'

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.

Dumped 1/2 yd sand 5439-5400; 5 sacks cement 5400-5365. Shot 5 1/2" casing at 3808, 3715, 3625, 3567, 3470 and 3366 - no results. Shot off 5 1/2" casing at 3238 and pulled 101 joints (3252'). Mudded hole 5365-550; dumped 10' crushed rock 550-540; 10 sacks cement 540-480; mudded hole 480-40; dumped 10' crushed rock 40-30 and 10 sacks cement 30 to bottom of cellar. Filled cellar to surface with soil and screwed steel cap on 8-5/8" casing

RECEIVED
STATE CORPORATION COMMISSION
MAR 15 1961
CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)

Correspondence regarding this well should be addressed to J. E. Seigler - The Pure Oil Company
Address Box 9545 - Oklahoma City 18, Oklahoma

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

SUBSCRIBED AND SWORN TO before me this 14 day of March, 1961.

Notary Public.

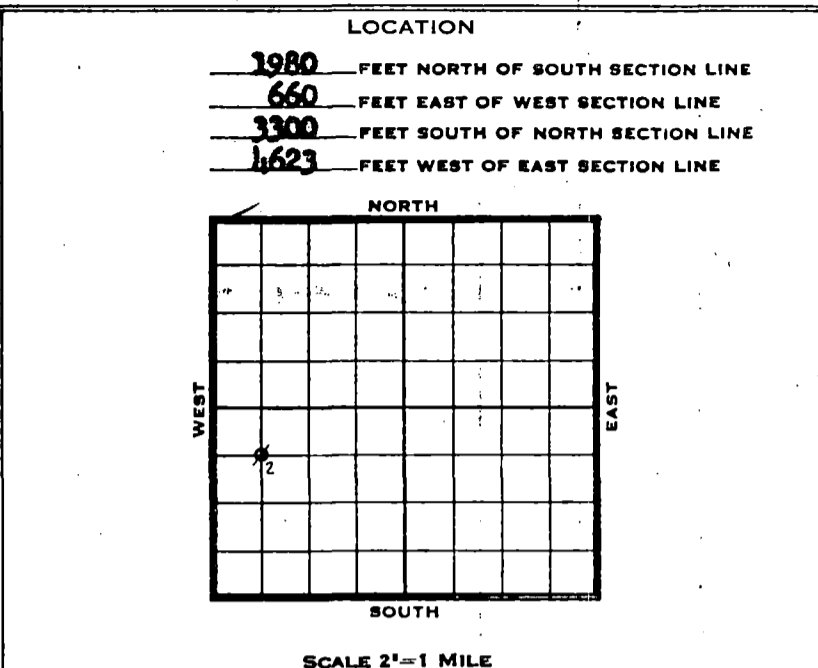
My commission expires _____

WELL LOG AND RELATED DATA

DIVISION **S. W. Producing** DISTRICT **Buffalo** LEASE **Harper, J. C. "B"**
 ACRES **610** LEASE NO. **12104** AFE NO. **2237** ELEVATION **Ord. 1784' D.F. 1790'** WELL NO. **2**
 SURV. SEC. **14** TWP. **34S** RGE. **21W** PRCT.-DIST.-TWP. **-**
 SURVEY **(Harper Ranch Area)** COUNTY **Clark** STATE **Kansas**

LOG			
FROM	TO	TOTAL	FORMATION
(Sample data begin at 1400')			
0	15	15	Shale
15	80	35	Sand & Shale
80	600	520	Shale & Red Beds
600	1120	520	Red Beds
1120	1827	707	Shale & Shells
1827	3375	1548	Shale & Lime
3375	3407	32	Lime
3407	3705	298	Shale & Lime
3705	3780	75	Lime
3780	4033	253	Shale & Lime
4033	4241	208	Shale
4241	4400	159	Shale & Lime
4400	4457	57	Shale, gray
4457	LANSING-KANSAS CITY (Geol. Top)		
4457	4920	463	Lime, tan to gray, thin shale streaks locally, cherty locally
4920	4938	18	Shale, black
4938	4984	46	Lime, gray, crystalline
4984	4990	6	Shale, black
4990	5040	50	Lime, tan to gray, crystalline
5040	5067	27	Shale, gray w/lime streaks
5067	MARIONTON (Geol. Top)		
5067	5209	142	Lime, gray, crystalline, w/thin shale streaks
5209	5212	3	Shale, black
5212	5228	16	Lime, dense
5228	5233	5	Shale, black
5233	CHEROKEE (Geol. Top)		
5233	5351	118	Alternating thin shale and lime streaks
5351	MORROW (Geol. Top)		
5351	5353	2	Shale w/lime streaks (See Cor's Record starting at 5353')
5353	5385	32	Shale
5385	5403	18	Sand
5403	5429	26	Shale
5429	5461	32	Sand
5461	5491	30	Shale
5491	5494	3	Shale, limy
5494	MISSISSIPPIAN (Geol. Top)		
5494	5505	11	Lime, gray, slightly fossiliferous
5505	TOTAL DEPTH		
Plugged Back:			
5505	5439	66	Cement in 5 1/2" csg.
5439	TOTAL DEPTH-PB		

(All measurements taken from top of rotary bushing which is 3'6" above derrick floor.)



CASING AND CEMENTING RECORD				
SIZE CASING	13-3/8"	8-5/8"	5-1/2"	
THREAD	8 rd.	8 rd.	8 rd.	
WEIGHT	48#	24#	14-15.5#	
GRADE	NSS	NSS	NSS	
CONDITION	C/A	C/A	C/A	
SET AT	81'	587'	5491'	
BACKS CEMENT	125	325	300	
SIZE OF HOLE	21"	12-1/4"	7-7/8"	

Temperature survey ind. top cnt. behind 5 1/2" csg.

LINER RECORD						
SIZE	WT.	COND.	LENGTH	BLANK	PERF.	SET AT
						3850'

GUN PERFORATING RECORD						
DATE	CASING	FROM	TO	SIZE SHOTS	NO. SHOTS	
1/22/56	5-1/2"	5452	5457	1/2" (Water)	20	
1/23/56	5-1/2"	5445	5449	1/2" (Water)	16	
1/27/56	5-1/2"	5428	5440	1/2" (Water)	48	

SHOT OR ACID RECORD				
DATE	TOP	BOTTOM	SHOT-ACID	REMARKS
1/29/56	5428	5440		Strata-Frac 50000-10,000# Sand
2/4/56	5431	5439		20 qts. SNO Ind. Temp. Co.
2/9/56	5431	5439		Control Flow 96 G. 450 bbls.
2/10/56	5428	5439		Petro-Frac 3,2500-87,2500# Sand

DRILLING COMMENCED **12-19-55** COMPLETED **1-18-56**
 ELECTRICAL SURVEY BY **(Water/Gamma Ray-Vartron)** DATE **1-22-56**
 DRILLED WITH **(Unit Drig. Co.) Rotary** TOOLS
 DRILLED IN WITH **(Unit Drig. Co.) Rotary** TOOLS
 FIRST PROD.—NAT. DATE _____ HRS. _____ BBLs. _____ OIL
 WATER _____ M CU. FT. GAS _____ LBS. ROCK PRESS.
 FIRST PROD. AFTER ACID—DATE _____ HRS. _____ BBLs. _____ OIL
 WATER _____ M CU. FT. GAS _____ LBS. ROCK PRESS.
 GAS/OIL RATIO _____ POTENTIAL **Dry Hole (1)** BBLs. _____
 GRAVITY _____ TEMP. _____ GRADE _____

(1) Not plugged and abandoned to be held for possible salt water disposal well.

FROM	TO	TOTAL	FORMATION	FROM	TO	TOTAL	FORMATION
<u>CORE RECORD (Continued)</u>							
<u>Core No.</u>	<u>Depth</u>	<u>Rec.</u>	<u>Description</u>				
3	5140-5152	12'	1/2' Sand, gray, medium, very tight quartzitic, no show - 7-1/2' Sand, gray, medium grained, fair porosity and permeability, good odor, fair to good fluorescence, very light stain, few carbonaceous partings - 4' Sand, gray, medium to coarse grained, fair porosity and permeability, very light stain, fair to good fluorescence, poor odor.				
4	5152-5191	39'	4' Sand, gray, medium to coarse grained, good porosity and permeability, good fluorescence and odor - 3' Sand, gray, medium grained, good porosity and permeability, scattered fluorescence, no odor - 2' Sand, medium grained, fair to poor porosity, slightly conglomeritic, scattered fluorescence - 30' Shale, black, few scattered sandstone laminations in top 10' with limestone partings in basal 7'.				
<u>DRILL STEM TESTS:</u>							
1/13/56				5131-5140 (Narrow)			
Tool open 45 minutes - Air to surface in 2 minutes, very light blow throughout test, no gas. Closed tool 20 minutes for BHP. Recovered 10' drilling mud. No test-tool plugged.							
1/15/56				5390-5152 (Narrow)			
Tool open 45 minutes - Strong blow air to surface immediately and continued throughout test - Gas to surface 2 minutes after closing tool, not enough to measure - Recovered 360' gas-cut mud, 150' gas and oil-cut mud, 600' free oil and 300' gassy oil-cut salt water - IFF 150#, FFP 670# - 25 minute shut in BHP 1790# (Hyd. press. 2820#)							
<u>PLUGGED BACK:</u>				5505-5165			
Set 5-1/2" casing at 5191 with 300 sz. Pomix - Drilled cement plug 5131-5165.							
<u>PERFORATED:</u>				1/22/56			
Wolax ran Gamma Ray-Neutron log, then perforated 5-1/2" casing with 20 shots 1 shot/ft., 5152-5157 in Narrow Sand.							
<u>TEST, P.B. & PERFORATE:</u>				1/23/56			
Halliburton broke down formation thru perforations 5152-5157 at 4200# pressure and pumped in 50 bbls. crude oil, pressure decreasing to 2000# as oil entered formation - Flushed tubing with 20 bbls. drilling mud ending flush at 800# - Shutted on test, recovered approx. 12 bbls. su/hr. Wolax set 5 1/2" C.I. available bridge plug at 5150, now plugged back total depth, then perforated 5 1/2" casing in Narrow sand 5145-5149 with 16 shots, 1 shot/ft., Shutted on test, recovered 8 bbls. gas-cut su/hr.							
<u>SQUEEZE:</u>				1/26/56			
Set Halliburton IM Cement retainer at 5143 - Loaded hole with water Halliburton broke down formation at 2000# pressure and squeezed perforations							
<u>ADDITIONAL WELL DATA:</u>							
<u>ANGULAR DEVIATION:</u>							
Degrees							
<u>Depth</u>	<u>Off Vertical</u>	<u>Depth</u>	<u>Off Vertical</u>	<u>Depth</u>	<u>Off Vertical</u>	<u>Depth</u>	<u>Off Vertical</u>
208	1/2	1400	1/2	1500	1	1850	1
1500	1	1450	1 1/2	1850	1	2160	1/2
1850	1	3760	1 3/4	2160	1/2	4380	3/4
<u>CORE RECORDS:</u>							
<u>Core No.</u>	<u>Depth</u>	<u>Rec.</u>	<u>Description</u>				
1	5353-5111	38'	12' Shale, gray, green and black, with scattered lign streaks - 18' Sand, gray, green fine grained, light, glauconitic, very shaly with pinpoint fluorescence and possible faint odor in upper 4' and no show in lower 14' - 8' Shale, black.				
2	5112-5140	29'	18 1/2' Shale, gray to black with thin glauconitic sand, laminations in upper 10' - 4 1/2' Sand, gray, medium to coarse grained, poor odor, light stain, dull spotted fluorescence, shale laminations, tight - 2 1/2' Sand, gray, coarse grained, light stain and fluorescence, slightly glauconitic, tight patches with no stain or fluorescence, some porosity, fair odor, vertical fractures - 3 1/2' Sand, medium to coarse grained, well sorted, good porosity and permeability, very light stain, fair to good fluorescence, strong odor in upper 2 1/2' no odor in bottom foot, asphaltic specks, locked net.				

FROM	TO	TOTAL	FORMATION	FROM	TO	TOTAL	FORMATION
SQUEEZE (Continued) 1/26/56							
5315-5319 with 60 wt. cement - Max. pressure 1000# - Pressure held with no breakback - Circulated and washed out cement to 5313, now plugged back total depth.							
PERFORATED 1/27/56							
Main job perforated 5" casing 5328-5319 with 1 shot/28", total 36 shots, in Narrow Sand.							
STRATA FRAC 1/29/56							
Displaced no-flow mud in casing with 151 bbls. crude oil - Dowell made strata-free treatment of Narrow Sand through perforations 5328-5319 as follows: Pumped down formation with 13 bbls. crude at 1000# pressure - Pumped in 5000 gals. strata-free material and 9000# Sand. Max. treating pressure 2600#, min. 2400# - Flushed tubing with 51 bbls. crude oil ending flush at 2400# pressure - Scrubbed on test, recovered all lead oil and estimated 5 bbls. net oil - Well making 8 bbls. fluid per hr. 95% water.							
SQUEEZE 1/3/56							
Set H2O pusher at 5315 - Halliburton broke down formation at 2600# pressure and spaced perforations 5328-5319 with 60 wt. - Pomix - Max. squeeze pressure 1000# - Drilled cement 5315-5319, now plugged back total depth.							
SHOT 2/3 & 4/56							
Independent Torpedo Co. ran 20 qts. SHU with zero hour time bomb and umbrellas bridge - Top of shot 5311, bottom 5319 - PB with 40 wt. - Calcoal 5311-5319 - Dumped 1/2 wt. cement with 1/2 calcium chloride added at 5399 - Top cement at 5367 - Shot went off at 10:32 PM 2/4/56 - Drilled cement 5315-5399 and calcoal 5399-5311 - Cleaned out shot hole and scrubbed on test, recovered 1 bbl. oil, out with water, per hour.							
CONTROL FLOW & STRATA FRAC 2/9 & 10/56							
Halliburton pumped 96 gals. Control Flow mixed with 50 bbls. crude oil into formation 5311-99 at 2000# pressure - Flushed tubing with 150 bbls. crude oil at 3000# - Scrubbed on test, recovered approx. 1 bbl. gross oil/hr. Dowell made Petro-free treatment of Narrow Sand 5328-5319 as follows: Loaded tubing with 15 bbls. crude oil and broke down formation at 3000# pressure - Pumped in 4000 gals. Free oil and 7,000# Sand at 3300# pressure - Flushed tubing with 60 bbls. crude oil - Scrubbed on test but could not recover lead oil - Well making 20 bbls. SH/hr. - Well held unplugged for possible use for salt water disposal.							