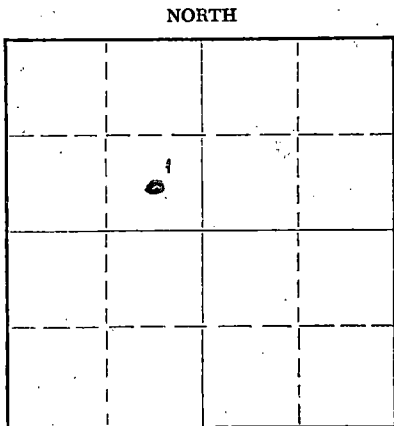


STATE OF KANSAS
STATE CORPORATION COMMISSION

15-025-00038-00-00
WELL PLUGGING RECORD

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

Clark County, Sec. 13 Twp. 34S Rge. (E) 21 (W)



Locate well correctly on above Section Plat

Location as "NE/CNW/SW" or footage from lines C SE NW
Lease Owner The Pure Oil Company
Lease Name J. C. Harper "E" 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 4-19- 19 57
Application for plugging filed 9-14 19 61
Application for plugging approved 9-21 19 61
Plugging commenced 10-2 19 61
Plugging completed 10-6 19 61
Reason for abandonment of well or producing formation Depleted

If a producing well is abandoned, date of last production 12-31 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. Lackamp, Jr.
Producing formation Morrow Depth to top 5405 Bottom 5515 Total Depth of Well 5480PB 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"	112	-
				13"	581	-
				8-5/8"	1454	-
				5 1/2"	5517	3577

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.

Sanded hole 5480-5435. Cemented w/5 sacks 5435-5400. Mudded hole 5400-465. Crushed rock 465-455. Cemented w/20 sacks 455-430. Mudded 430-40. Crushed rock 40-30. Cemented w/10 sacks 30-0. Steel cap on 8-5/8" casing.

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OCT 16 1961

CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Forbes Casing Pulling Company
Address 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 13 day of October, 19 61

My commission expires 4-14-64

John L. Stollard
Notary Public.

WELL LOG AND RELATED DATA

DIVISION S. V. Producing DISTRICT Buffalo LEASE Harper, J. C. "B"
 ACRES 180 LEASE NO. 12106 AFE NO. 2345 ELEVATION Grd. 1865' D.F. 1870' WELL NO. 1
 SURV. SEC. 13 TWP. 34 S RGE. 21 W PRCT.-DIST.-TWP. _____
 SURVEY (Chester Area) COUNTY Clark STATE Kansas

LOG			FORMATION
FROM	TO	TOTAL	
(Sample data begin at 4500')			
0	592	592	Sand & Shale
592	1020	428	Red Beds & Shells
1020	1262	242	Red Beds, Shale & Salt
1262	1381	119	Red Beds & Shale
1381	1460	79	Red Beds & Shells
1460	1480	20	Shale
1480	2025	545	Shale & Shells
2025	2117	122	Shale & Lime
2117	2146	299	Lime
2146	2770	124	Lime & Shale
2770	2991	221	Lime
2991	3149	158	Lime & Shale
3149	3225	76	Lime
3225	3767	542	Shale & Lime
3767	3880	113	Lime
3880	4500	620	Shale & Lime
4500	4544	44	Shale
4544	5000	456	LANSING-KANSAS CITY (Geol. Top) Lime, buff-crystalline, porous zones locally, cherty locally, thin shale breaks locally.
5000	5290	290	MARION (Geol. Top) Lime & Shale
5290	5405	115	CHICKS (Geol. Top) Shale, w/thin lime streaks
5405	5440	35	MORROW (Geol. Top) Shale, gray w/some shale, green. (See Core Record starting at 5440')
5440	5443	3	Shale
5443	5483	40	MORROW #1 SAND (Geol. Top) Sand
5483	5493	10	Shale & Sand
5493	5502	9	Sand & Shale
5502	5515	13	MORROW #2 SAND (Geol. Top) Sand & Shale
5515	5518	3	MISSISSIPPI (Geol. Top) Lime
5518	5518		TOTAL DEPTH
5518	5518		PLUGGED BACK
5518	5515	3	Cement in 5 1/2" csg.
5515	5480	35	C.I. Bridge Plug in 5 1/2" Csg.
5480	5480		TOTAL DEPTH-PB
(All measurements taken from top of derrick floor.)			
5480	5480		PAY ZONE

LOCATION

3300 FEET NORTH OF SOUTH SECTION LINE
 1987 FEET EAST OF WEST SECTION LINE
 1980 FEET SOUTH OF NORTH SECTION LINE
 3313 FEET WEST OF EAST SECTION LINE

NORTH

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Wichita, Kansas			

SOUTH

SCALE 2"=1 MILE

CASING AND CEMENTING RECORD

SIZE CASING	16"	13"	8-5/8"	5 1/2"
THREAD	8rd	8rd	8rd	8rd
WEIGHT	65#	50#	24#	14.25.5#
GRADE	H-10	H-10	J-55	J-55
CONDITION	C/A	C/A	C/A	C/A
SET AT	112'	581'	1454'	5517'
SACKS CEMENT	200	325	800	300
SIZE OF HOLE	21"	15"	12 1/2"	7-7/8"

Temperature survey indicated top cut. behind 5 1/2" csg. 3610'

LINER RECORD

SIZE	WT.	COND.	LENGTH	BLANK	PERF.	SET AT

GUN PERFORMING RECORD

DATE	CASING	FROM	TO	SIZE SHOTS	NO. SHOTS
4-24-57	5 1/2"	5502	5512	1/2"	24
4-26-57	5 1/2"	5456	5462	1/2"	24
4-29-57	5 1/2"	5444	5450	1/2"	24

SHOT OR ACID RECORD

DATE	TOP	BOTTOM	AMOUNT-ACID	REMARKS
4-25-57	5502	5512	1000 gals.	Mod acid

DRILLING: COMMENCED 3-28-57 COMPLETED 4-19-57
 ELECTRICAL SURVEY BY Schlumberger (Induction) 4-19-57 (1)
 DRILLED WITH (Unit Drilling Company) Rotary TOOLS
 DRILLED IN WITH (Unit Drilling Company) Rotary TOOLS
 FIRST PROD.—NAT. DATE 4/30/57 HRS. 2 BBLs. None OIL
None WATER 2,820 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 2,820 MCFD Gas BBLs.
 GRAVITY _____ TEMP. _____ GRADE _____

(1) Welox (Gamma Ray-Neutron) 4/23/57

DATE ABANDONED—_____

FROM	TO	TOTAL	FORMATION
ADDITIONAL WELL DATA:			
ANGULAR DEVIATION:			
Depth	Degrees off Vertical	Depth	Degrees off Vertical
500	3/4	3131	3/4
750	1	3560	1
1040	3/4	3954	1 1/2
2200	3/4	4585	3/4
2620	1	4876	1
CORE RECORD			
Core No.	Depth	Rec.	Description
1	5410-5483	13'	3' Shale, 9' sand, green, fine, tight
			glauconitic, with some light staining, stain appears to be in streaks, some odor, pale blue fluorescence, shale, laminae. 4' sand, green, fine, tight, glauconitic, stain and yellow fluorescence, some odor. 10-1/2' sand, medium grained, light even stain, good porosity and permeability, pale, blue fluorescence, true fluorescence masked by no Blocc. 3-1/2' sand, green, fine, tight, no show. 1-1/2' sand, medium grained, fair to good porosity and permeability, possible faint stain, looks wet, pale blue fluorescence. 1' sand, medium grained, tight, bleeding water. 2' sand, medium grained, good porosity and permeability, possible faint stain, looks wet. 1-1/2' sand, fine to medium grained, tight, earthy, no show. 2' sand, fine to medium grained, poor to fair porosity and permeability, no show. 5' sand, green, fine, tight, no show, slight bleeding of water locally.
2	5493-5518	25'	3-1/2' Shale. 1-1/2' sand, fine
			tight, trace of scattered stain, faint odor. 2' sand, fine, tight, scattered stain and fluorescence, bleeding oil and gas along fractures. 2' sand, shaly, slight odor, no stain. 1' Shale, sandy. 1' Conglomerate, tight, faint odor, scattered stain, slight bleeding oil and gas in upper part. 6-1/2' sand, medium to coarse, trace of scattered stain and fluorescence, locally, some odor, slight bleeding oil and gas 5509-5510, fair porosity and permeability locally, limy and slight conglomerate locally. 3' shale. 1-1/2' sandy shale, tight, no show. 1/2' siltstone. 2-1/2' lime, buff and fossil, no show.

DRILL STEM TESTS:

4/17/57 5446 - 5468 (Morrow) Tool open 25 minutes. Good blow air to surface immediately, mud in 10 minutes, gas in 14 minutes. Pitot tube measurement of gas volume 8,000,000 CFD. Recovered 4050' drlg. mud. Excessive mud due to hole in drill pipe 47 stands down. Apparently hole came in pipe after test: IFF 1048# FFP 830# 1 hr. & 40 minute SI BHP 2405# (IP 2460#)

4/29/57 5504 - 5518 (Morrow "C") Tool open 1 hr. weak blow air to surface immediately and continued throughout test. Recovered 90' drlg. mud and lost circulation material. IFF not taken FFP 185# 30 minute SI BHP 270# (IP 2435#)

P.B.s: 4/21/57 - 4/24/57 Set 5-1/2" casing at 5517. Pumped 250 barrels Mag-O-Pac down casing followed by 300 ex. Pozmix. Displaced all No-Bloc from casing with Mag-O-Pac. Found top of cement at 5484. Drilled cement plug 5484-5515, now plugged-back total depth.

PERFORATE & ACIDIZE: 4/24/57 - 4/25/57 Welox perforated 5-1/2" casing in Morrow "C" sand with 24 shots, 4 shots/ft. 5502-5505 and 5509-5512. Set 2-3/8" tubing at 5490. Swabbed tubing from 5490, recovered 6 barrels drilling mud. Casing swabbed dry. Loaded casing with 115 bbls. No-Bloc mud. Dowell treated Morrow "C" sand thru perforations 5502-5505 and 5509-5512 with 1000 gals. mud acid. Maximum treating pressure 1400#, minimum 350#. Flushed with 22 bbls. No-Bloc drilling mud @ 500# pressure.

P.B. & PERFORATED: 4/26/57 Welox set cast iron bridge plug in 5-1/2" casing at 5480, now plugged-back total depth, then perforated 5-1/2" casing in Morrow "B" sand with 24 shots, 4 shots/ft. 5456-5462. Set 2-3/8" tubing at 5427. Swabbed tubing to 3500. Recovered 60 bbls. mud. Started swabbing salt water at rate of 45 bbls per hour. Hole filled to surface with salt water.

SQUEEZE: 4/27/57 Set RTTS packer on 2-3/8" tubing at 5473. Tested bridge plug for leak pressuring to 1700#. Plug O.K. Reset RTTS packer at 5410. Pressured up on perforations 5456-5462. Formation broke down at 1400#. Pumped 75 ex. Pozmix down tubg. and pressured to 4200# with 63 ex. in formation. Back washed 12 ex. Pozmix from tubing. Found top cement at 5411. Drilled out cement plug 5411-5462 & circulated to 5400.

PERFORATED: 4/29/57 Welox perforated 5-1/2" casing in Morrow "B" sand with 24 shots, 4 shots/ft. 5444-5450.