15-025-10105-0000

STATE OF KANSAS
STATE CORPORATION COMMISSION

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

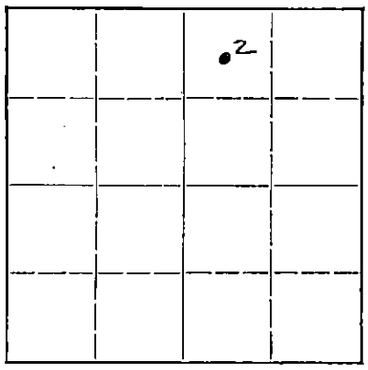
WELL PLUGGING RECORD

OR

FORMATION PLUGGING RECORD

Strike out upper line when reporting plugging off formations.

NORTH



Locate well correctly on above Section Plat

Clark County. Sec. 24 Twp. 34S Rge. (E) 21 (W)

Location as "NE¼NW¼SW¼" or footage from lines C NW NE

Lease Owner The Pure Oil Company

Lease Name Harper, J. C. "D" 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 2-21-57 19 57

Application for plugging filed 2-3 19 61

Application for plugging approved 2-8 19 61

Plugging commenced 2-14 19 61

Plugging completed 2-23 19 61

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

Name of Conservation Agent who supervised plugging of this well W. L. LacKamp

Producing formation Dry Hole Depth to top Bottom Total Depth of Well 5495 5472PB 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"	127'	-
				8-5/8"	1445'	-
				5½"	5530'	3664'

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.

Pumped 1/3 yard sand 5472-5410 and 4 sacks cement 5410-5382. Took 42" tension on 5½" casing, shot at 4408, 4315, 4221, 4127, 4001, 3906, 3813 and 3716 with no results. Shot 5½" casing at 3650 and pulled 117 joints (3664'). Filled hole with rotary mud 5382-550; set 20 sacks cement plug inside 8-5/8" casing at 550 and mudded to 40. Ran 10 sacks cement plug 40 to bottom of cellar and filled cellar to surface with soil. Screwed 16" steel cap on top of casing.

RECEIVED
STATE CORPORATION COMMISSION
MAR 1 1961 3-1-61
CONSERVATION DIVISION
Wichita, Kansas

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

Correspondence regarding this well should be addressed to 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 27 day of February, 19 61

John C. Stallard
Notary Public.

My commission expires 4-14-64

21-6858-RS 2-47—6M

FORM 301.34 3M 8-25-55

THE PURE OIL COMPANY 15-025-10105-0000

WELL LOG AND RELATED DATA

DIVISION S. W. Producing DISTRICT Buffalo LEASE Harper, J. C. "D"
ACRES 600 LEASE NO. 12107 AFE NO. 2333' ELEVATION Grd. 1766'; D.F. 1772' WELL NO. 2
SEC. 24 TWP. 34S RGE. 21W PRCT.-DIST.-TWP. -
SURVEY (Chester Prospect) COUNTY Clark STATE Kansas

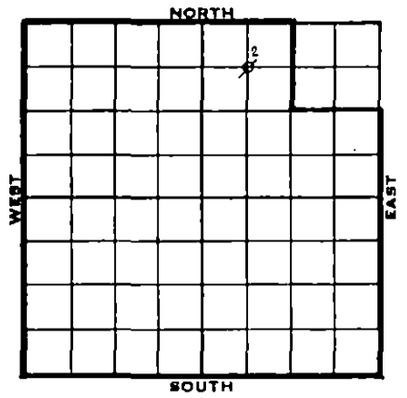
LOG

FROM	TO	TOTAL	FORMATION
(Sample data begin at 4400'.)			
0	408	408	Sand & Red Beds
408	544	136	Red Beds
544	771	227	Red Beds & Shells
771	1181	410	Red Beds, Shale & Salt
1181	1480	299	Red Beds & Shale
1480	1562	82	Red Beds
1562	2114	552	Shale & Lime
2114	2227	113	Shale & Shells
2227	2370	143	Shale & Lime
2370	2425	55	Lime
2425	2600	175	Lime & Shale
2600	2860	260	Lime
2860	4400	1540	Lime & Shale
4400	4454	54	Shale, gray
4454	LANSING-KANSAS CITY (Geol. Top)		
4454	5058	604	Lime, buff-crystalline cherty locally w/thin shale breaks
5058	MARMATON (Geol. Top)		
5058	5220	162	Lime, white-gray-buff, crystalline w/thin shale breaks
5220	CHEROKEE (Geol. Top)		
5220	5339	119	Shale, dark gray-black, w/thin lime streaks
5339	MORROW FORMATION (Geol. Top)		
5339	5377	38	Shale, green & gray, w/lime in upper part
5377	5388	11	Shale (See Core Record starting at 5377')
5388	MORROW "B" SAND (Geol. Top)		
5388	5414	26	Sand & Shale
5414	5417	3	Shale
5417	5441	24	Shale
5441	MORROW "C" SAND (Geol. Top)		
5441	5468	27	Sand & Shale
5468	MISSISSIPPIAN (Geol. Top)		
5468	5475	7	Lime
5475	5495	20	Lime, white, crystalline
5495			TOTAL DEPTH
	Plugged Back:		
5495	5472	23	Cement in 5½" casing
5472			TOTAL DEPTH-PB

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

LOCATION

1620 FEET NORTH OF SOUTH SECTION LINE
3243 FEET EAST OF WEST SECTION LINE
660 FEET SOUTH OF NORTH SECTION LINE
2073 FEET WEST OF EAST SECTION LINE



SCALE 2"=1 MILE

CASING AND CEMENTING RECORD

SIZE CASING	16"	8-5/8"	5-1/2"		
THREAD	8 Rd	8 Rd	8 Rd		
WEIGHT	65#	24#	14#&15#		
GRADE	J-55	J-55	J-55		
CONDITION	C/A	C/A	C/A		
SET AT	138'	1444'	5493'		
SACKS CEMENT	250	900	275		
SIZE OF HOLE	21"	12-1/4"	7-7/8"		

Temperature survey indicated top cmt. behind 5½" csg. @ 4415'

LINER RECORD

SIZE	WT.	COND.	LENGTH	BLANK	PERF.	SET AT

GUN PERFORATING RECORD

DATE	CASING	FROM	TO	SIZE SHOTS	NO. SHOTS
2/17/57	5-1/2"	5442	5446	Jet	16
2/17/57	5-1/2"	5452	5458	Jet	24

SHOT OR ACID RECORD

DATE	TOP	BOTTOM	SHOT-ACID	REMARKS
2/17/57	5442	5458	20 G. Control	flow with 50 bbls. oil
2/18/57	5442	5458	Acid Petrofrac:	10,000 G. & 7500# Sand

DRILLING: COMMENCED 1/21/57 COMPLETED 2/12/57
ELECTRICAL SURVEY BY Schlumberger (Gamma Ray-Neutron) DATE 2/13/57 (1)
DRILLED WITH (Unit Drilling Company) Rotary TOOLS
DRILLED IN WITH (Unit Drilling Company) Rotary TOOLS
FIRST PROD.—NAT. DATE ____ HRS. ____ BBLS. ____ OIL
____ WATER ____ M CU. FT. GAS ____ LBS. ROCK PRESS.
FIRST PROD. AFTER ACID—DATE 2/22/57 HRS. 15 (Swbg.) BBLS. .15 OIL
7.35 WATER - M CU. FT. GAS - LBS. ROCK PRESS.
GAS/OIL RATIO - POTENTIAL Dry Hole BBLS.
GRAVITY - TEMP. - GRADE -

(1) Lane-Wells (Gamma Ray-Neutron) 2/17/57.

DATE ABANDONED—SOLD ____ 19____

15-025-10105-0000

FROM	TO	TOTAL	FORMATION

ADDITIONAL WELL DATA:

ANGULAR DEVIATION:

Depth	Degrees Off Vertical	Depth	Degrees Off Vertical
250	1/2	3220	2 3/4
600	3/4	3350	2 1/2
1000	1/4	3685	3
1770	1/4	4260	2 3/4
2400	1/2	4555	2
2865	1	5150	1 3/4

FROM	TO	TOTAL	FORMATION

CORE RECORD:

Core No.	Depth	Rec.	Description
1	5377-5414	36'	13' Shale dark gray, sandy at base - 1-1/2' Sand, green, fine grained, tight, faint stain and fluorescence - 1' Sand, green, fine grained, tight, uniform stain and fluorescence, bleeding oil and gas - 1/2' Sand, green, tight, no show - 3' Sand, green, fine grained, fair porosity and permeability, stain, spotted fluorescence - 8' Sand, green, fine grained, fair porosity and permeability, tight locally, no visible stain, no-bloe fluorescence - 4' Sand, green, fine to medium grained, very good porosity and permeability, friable, very light stain, no-bloe fluorescence - 3-1/2' Sand, green, fine grained, tight, no show - 1-1/2' Shale, black.
2	5417-5475	58'	24' Shale, dark gray - 2' Shaley sand, quartzitic, no show - 1-1/2' Shaley sand, stain and fluorescence, tight, bleeding oil and gas - 2' Sand, brown, fine, tight, bleeding oil and gas, stain, and fluorescence, vugs and vertical fractures - 5' Shale, dark gray, 1' Sand, gray, dirty, earthy, no show - 2' Shale, gray, silty - 7-1/2' Silty dirty sand, fine, tight, shaley, bottom 6" conglomeritic, no show. 6' Limey Dolomite, mottled, scattered stain and fluorescence 5463-64 - 2' Lime, coarse, crystalline, buff fossiliferous, no show - 3' Lime coarse crystalline, tight, very spotty stain and fluorescence, very spotted bleeding oil and gas - 2' Lime, crystalline, some vugular porosity, scattered stain and fluorescence, fairly uniform, bleeding oil and gas, vertical fractures.

DRILL STEM TESTS:

2/10/57 5380-5414 (Morrow)

Tool open 1-1/2 hrs., air to surface immediately - Strong blow throughout test - Recovered 150' gas-cut mud and 3750' slightly gas-cut salt water - IFP 1052#, FFP 2002#, 30 minute SI BHP 2058#.

2/13/57 5462-5495 (Miss.)

Tool open 1 hour, weak blow air to surface immediately and continued throughout test - Recovered 10' drilling mud - IFP 56#, FFP 38# - 20 minute SI BHP 394# (HP 2524#).

P.B. & PERFORATED: 2/15/57 - 2/17/57

Set 5-1/2' csg. at 5493 with 275 sx. Pozmix - Drilled cement plug 5451-5472, new plugged back total depth - Displaced mud in casing with 136 bbls. oil - Lane-Wells ran Gamma Ray-Neutron log, then perforated 5-1/2" casing in Morrow 5442-5446 and 5452-5458 with 40 shots, 4 shots/ft.

CONTROLFLOW & ACID PETROFRAC: 2/17 & 18/57

Dowell made controlflow treatment of Morrow through perforations 5442-5446 and 5452-5458 with 20 gals. controlflow mixed with 50 bbls. crude oil - Broke down formation at 2650#. Pressure

(Continued)

FROM	TO	TOTAL	FORMATION	FROM	TO	TOTAL	FORMATION
			CONTROLFLOW & ACID PETROFRAC: (Continued) broke back to 2100# while displacing controlflow into formation - Shut well in 6 hrs. then Dowell made acid petro-frac treatment as follows: Broke down formation at 2100# pressure and pumped in 10,000 gals. acid petro-frac material and 7500# sand - Formation took treatment at rate of 27 bbls. per minute - Maximum pressure 2100#, min. 1550# - Displaced frac material into formation with 163 bbls. crude oil.				