15-025-00014-00-00

STATE OF KANSAS
STATE CORPORATION COMMISSION

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

WELL PLUGGING RECORD

OR

FORMATION PLUGGING RECORD

Strike out upper line when reporting plugging off formations.

Clark County. Sec. 14 Twp. 34S Rge. (E) 21 (W)

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

Lease Owner The Pure Oil Company

Lease Name J. C. Harper "B" Well No. 1

Office Address Box 9545 - Oklahoma City 18, Oklahoma

Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole

Date well completed 4-13-55 19

Application for plugging filed 2- 3-61 19

Application for plugging approved 2- 8-61 19

Plugging commenced 2-25-61 19

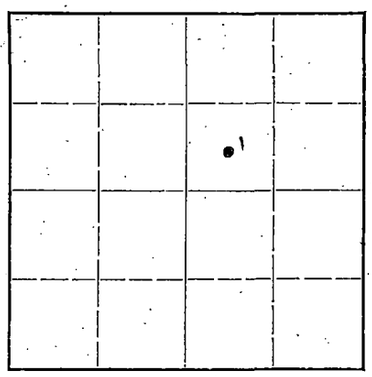
Plugging completed 3- 9-61 19

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

NORTH



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
				16"	66'	-
				10-3/4"	559'	-
				5½"	5560'	3044'

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.

Mudded hole 5478-5419. Dumped 30 gal pea gravel at 5419. Ran 5 sacks cement 5419-5380. Shot 5½" casing at 3910, 3789, 3497, 3233 and 3121 - no results. Shot off 5½" casing at 3030 and pulled 92 joints (3044'). Mudded hole 5380-550. Dumped 10' crushed rock 550-540; 30 sacks cement 540-490; mudded 490-30; 10' crushed rock 30-20; 15 sacks cement 20' to bottom of cellar. Screwed steel cap on 10-3/4" casing and filled cellar with soil.

RECEIVED
STATE CORPORATION COMMISSION
MAR 17 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

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 19 61

John C. Stallard
Notary Public.

My commission expires 4-14-64

21-6858-RS 2-47—6M

FORM 301.34 3M 8-9-54

15-025-00014-00-00

THE PURE OIL COMPANY

WELL LOG AND RELATED DATA

DIVISION S. W. Producing DISTRICT Buffalo LEASE Harper, J. C. "B"

ACRES 640 LEASE NO. 12104 AFE No. 2186 ELEVATION Grd. 1800' D.F. 1809 WELL NO. 1

SEC. 14 TWP. 34S RGE. 21W PRCT.-DIST.-TWP. -

SURVEY (Harper Ranch) COUNTY Clark STATE Kansas

LOG

FROM	TO	TOTAL	FORMATION
(Sample data begin at 4489'.)			
0	20	20	Surface clay
20	90	70	Sand & Shale
90	228	138	Sand & Salt
228	440	212	Shale & Shells
440	540	100	Red Bed & Sand
540	600	60	Red Bed
600	865	265	Red Bed & Shale
865	1150	285	Red Bed & Salt
1150	1488	338	Shale & Shells
1488	1760	272	Shale & Sand
1760	2195	435	Shale & Anhydrite
2195	2487	292	Anhydrite
2487	2657	170	Lime
2657	4033	1376	Shale & Lime
4033	4145	112	Shale
4145	4489	344	Lime & Shale
4489	LANSING-KANSAS CITY (Geol. Top)		
4489	5088	599	Limestone, white-gray-light tan, crystalline to chalky, sandy in p part, porous to tight, w/occassional shale breaks, gray.
5088	MARMATON (Geol. Top)		
5088	5246	158	Lime, white, crystalline, slightly sandy & oolitic to white, tan, sandy, porous
5246	CHEROKEE (Geol. Top)		
5246	5374	128	Shale, gray-black & Lime, gray to tan, hard, tight w/ occasional trace of porosity.
5374	MORROW (Geol. Top)		
5374	5388	14	Shale, gray w/Lime-stone streaks (See Core Record starting at 5380'.)
5388	5394	6	Limestone, tan-gray, hard, fossiliferous.
5394	5406	12	Shale, green-gray, rotten.
5406	5423	17	Sand, fine grained, hard, tight, limy, glauconitic w/occasional porous streaks having light stain & fluorescence, bleeding oil & gas.
5423	5431	8	Shale, dark grey, soft.
5431	5457	26	Sand, fine grained, hard, tight, limy, pyritic, shaley, good fluorescence bleeding oil & gas good porosity & permeability last 10 feet.
5457	5472	15	Shale, gray

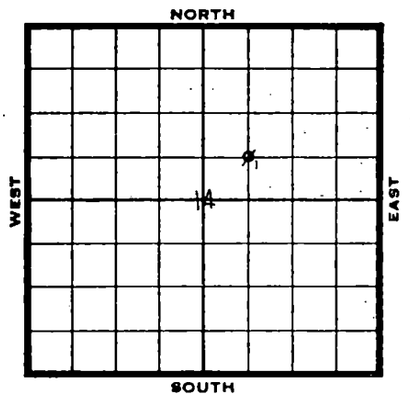
LOCATION

3300 FEET NORTH OF SOUTH SECTION LINE

3307 FEET EAST OF WEST SECTION LINE

1980 FEET SOUTH OF NORTH SECTION LINE

1984 FEET WEST OF EAST SECTION LINE



SCALE 2"=1 MILE

CASING AND CEMENTING RECORD

SIZE CASING	16"	10-3/4"	5-1/2"		
THREAD	8 Rd.	8 Rd.	8 Rd.		
WEIGHT	65#	40.5#	14#&15.5#		
GRADE	H-40	J-55	J-55		
CONDITION	C/A	C/A	C/A		
SET AT	80'	573'	5527'		
SACKS CEMENT	250	350	300		
SIZE OF HOLE	24"	13-3/4"	7-7/8"		

Temperature survey ind. top cmt. behind 5½" csg. @ 4007'.

LINER RECORD

SIZE	WT.	COND.	LENGTH	BLANK	PERF.	SET AT

GUN PERFORATING RECORD

DATE	CASING	FROM	TO	SIZE SHOTS	NO. SHOTS
(See 2nd sheet of log for perforation during testing.)					

SHOT OR ACID RECORD

DATE	TOP	BOTTOM	SHOT-ACID	REMARKS
(See 2nd sheet of log for acid & frac treatments during testing.)				

DRILLING: COMMENCED 3/20/55 COMPLETED 4/13/55

ELECTRICAL SURVEY BY *See below DATE

DRILLED WITH (Unit Drlg. Co.) Rotary TOOLS

DRILLED IN WITH (Unit Drlg. Co.) Rotary TOOLS

FIRST PROD.—NAT. DATE Dry Hole HRS. BBLS. OIL

WATER M CU. FT. GAS LBS. ROCK PRESS.

FIRST PROD. AFTER ACID—SHOT DATE Dry Hole HRS. BBLS. OIL

WATER M CU. FT. GAS LBS. ROCK PRESS.

GAS/OIL RATIO POTENTIAL Dry Hole BBLS.

GRAVITY TEMP. GRADE

*Schlumberger (Laberolog) 4/13/55
Welex (Gamma Ray) 4/18/55
Dowell (Radioactive Profile) 6/15/55 & 6/30/55.

DATE ABANDONED—SOLD 19

FROM	TO	TOTAL	FORMATION
5472	5479	7	Sand, fine-medium grained, fair porosity & perm., light stain & fluorescence, good odor.
5479	5510	31	Conglomerate, no show of oil.
5510			MISSISSIPPIAN (Geol. Top)
5510	5535	25	Limestone, gray, white, crystalline to chalky
5535			TOTAL DEPTH
	Plugged Back:		
5535	5478	57	Cement in 5½" casing
5478			TOTAL DEPTH-PB

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

ADDITIONAL WELL DATA:

ANGULAR DEVIATION: (Sure-shot)

Depth	Degrees Off Vertical	Depth	Degrees Off Vertical
130	1/2	1175	1
250	3/4	1730	1/4
400	2	1930	3/4
480	2 1/4	2200	1/2
510	2	2315	3/4
590	1 3/4	2650	1/4
720	1 3/4	2814	0
815	1 1/4	3956	1/2
1015	3/4	4600	3/4
1250	1 1/2	5090	1

CORE RECORD:

Core No.	Depth	Rec.	Description
1	5380-5404	24'	8' Shale, gray, w/limestone streaks 6' Limestone, tan to gray, hard and fossiliferous. 10' Shale.
2	5404-5454	50'	3' Shale, gray - 17' Sand, fine grained, hard, tight, glauconitic, occasional thin porous streaks bleeding oil & gas, lt. stain & fluorescence - 9' Shale, dark gray - 11' Sand, fine grained, hard, tight, limy, pyritic, bleeding oil & gas, porous streaks, good fluorescence - 10' Sand, fine grained, good porosity & permeability, light stain, odor & fluorescence.
3	5454-5480	26'	2½' Sand, fine, bleeding oil, 1½' Lime, hard, gas odor - 13' Shale, dark gray - 2' Sand & shale 5½' Sand, fine, light stain, oil odor. 1½' conglomerate.
4	5480-5491		3' Sandstone, fine to medium grained, conglomeritic, no show - 7' Conglomerate, no show.

DRILL STEM TESTS:

4/11/55 5408-5454
Tool open 45 minutes light air blow to surface immediately exhausted in 15 minutes - Picked up and reset tool - Recovered 750' of slightly gas-cut mud - 15 minute shut in BHP 1618#, IFP 252#, FFP 429#.

4/14/55 5452-5535
Tool open 1½ hrs. air to surface immediately, light air blow which continued throughout test - Recovered 180' rotary mud and 1105' salt water - 15 minute shut in BHP 1960#, IFP 100#, FFP 351#.

WELL WORK WHILE TESTING: 4/15/55 - 7/27/55

P.B. & PERFORATED: 5535-5509
Set 5½" csg. at 5527 with 300 sx. cement with 2% jel added. Drilled cement plug 5469-5509, new plugged back total depth. Displaced water in csg. with 130 bbls. crude oil. Welex ran Gamma Ray survey, then perforated 5½" csg. with 96 jet shots, 4 shots/ft., 5429-5453.

FROM	TO	TOTAL	FORMATION
			STRATA-FRAC: 4/25/55 Dowell made strata-frac treatment thru perforations in 5½" casing 5429-5453 as follows: Completed loading casing with 3 bbls. crude oil - Broke down formation with 16 additional bbls. crude at 2750# pressure, decreasing to 1250# as oil entered formation - Pumped in 300 gals. mud acid, 5000 gals. strata-frac material and 10,000# sand followed by 100 gals. Jel-X-830 Fix-a-Frac - Then pumped in additional 500 gals. strata-frac material and 1000# sand - Maximum pressure 3600#, minimum 1250# - Attempted to flush casing with 20 bbls. crude oil pumping in stages at 15 minute intervals at 3600# maximum pump pressure - 20 bbls. crude displaced strata-frac material in 5½" casing to 850' - Discontinued pumping - Total of 300 gals. mud acid, 5,500 gals. strata-frac material, 11,000# sand and 100 gals. Jel-X-830 Fix-a-Frac used. Found top of strata-frac sand at 5180 - Dowell pumped 150 bbls. crude oil down casing & back-washed frac sand 5180-5509 - Swabbed 3 days, recovered all but approx. 229 bbls. load oil.
			STRATA-FRAC: 5/ 2/55 Dowell loaded 5½" casing with 118 bbls. crude oil and pumped in 300 gals. Surface-Tension acid followed by 18 bbls. crude oil - Set Baker Retrievable Packer on 2-3/8" tubing at 5406' Dowell made Strata-Frac treatment thru perforations in 5-1/2" casing 5429-5453 in stages, as follows: Broke down formation with 20 bbls. crude oil at 2600# pressure - Pumped in 5000 gals. strata-frac material and 5000# Sand - Maximum treating pressure 2600#, minimum 2400# - Flushed tubing with 42 bbls. crude oil - Spotted 150 gals. Fix-a-Frac on formation with 34 bbls. crude oil at 3600# pressure, then pumped in 5000 acid-1 gals. Strata-frac material and 10,000# sand at max. 3600# pressure, min. 3200# - Flushed tubing with 50 bbls. crude oil at 3200# pressure - Total of 300 gals. surface-tension acid, 20,000 gals. Jel-X-500 Strata-frac material, 15,000# sand, 150 gals. Jel-X-830 Fixafrac and 282 bbls. crude oil used. Swabbed 2-3/8" tubing from 5200' and well started flowing. Flowed 12 hrs. thru open 2-3/8" tubing & produced 245 bbls. gross oil, then quit flowing - Swabbed acid-1 7 days, recovered all but approx. 152 bbls. load oil.
			PETRO-FRAC: 5/13 & 14/55 Tubing full of oil. Dowell made petro-frac treatment through perforations 5429-5453 as follows: Broke down formation with 10 additional bbls. crude oil at 2700# pressure, which did not decrease as oil entered formation - Spotted 200 gals. Fix-a-frac Jel-X-830 on formation with 10 bbls. crude oil at 4150# pressure, decreasing to 3650#. Pumped in 500 gals. Petro-jel material & 1000# sand at 4700# pressure - Gasket blew out of bonnet valve on head - Sand & Petrojel material back flowed from tubing
			PETRO-FRAC (Continued): 5/13 & 14/55 Replaced bonnet valve with 6000# Hi-pressure valve - Dowell continued Petrojel treatment using 29,500 acid-1 gals. Petrojel material and acid-1, 61,000# sand in stages as follows: Completed filling tubing and broke down formation with 10 bbls. crude oil at 3900# pressure, remaining content as oil entered formation - Pumped in 25,500 gals. Petrojel and 61,000# sand starting treatment with sand mixed 1# per gal. at 4000# pressure - Increased sand to 2# per gal. and pressure dropped to 3900# - Increased sand to 3# per gal. and pressure increased to 4500# - Attempted to flush tubing with 6 bbls. crude oil & pressure increased to 7000# - Blew well to pits to release pressure - Pumped in 4000 gals. Petrojel material & 4-mesh sand at max. 4600# pressure and minimum 4200#, then continued treatment using sand mixed 1/2# per gal. and pressure increased to 4600# - Increased sand to 2# per gal. & rest of treatment at max. 4350# pressure, min. 4000# - Flushed tubing with 70 bbls. crude oil ending flush at 4000# pressure - Total material used this complete treatment - 1,000 gals. Petrojel material 65,000# sand, 200 gals. Jel-X-830 Fix-a-Frac and 106 bbls. crude oil. Opened well flowed 24 hrs. thru open 2-3/8" tubing and produced 122 bbls. gross oil, then died. Swabbed & pumped on test 11 hrs. negative results.
			RADIOACTIVE PROFILE SURVEY: 6/15/55-6/ /55 Loaded hole with 130 bbls. water and broke down formation with 1400# pressure. Displaced Radioactive material into formation with 18 bbls. water. Recorder stopped working. Recovered recorder. Left well shut in 9 days, then swabbed all load oil but 460 bbls. C.O. free sand 5450-5480 - Loaded hole with 135 bbls. crude oil. Pumped in radio-active material mixed with 1 bbls. crude, displacing 23 bbls. crude out annulus to tank. Spotted radio-active material on formation through perforations in 5-1/2" casing 5429-5453 with 60 bbls. crude oil at max. 2200# pressure, min. 1500#. No show of radio-active material below 5453. Radio-active material channel shown behind csg. 5320-5430.
			SQUEEZE: 7/ 8/55 Set HRC packer at 5400 - Tubing and annulus full load oil. Halliburton broke down formation with 3 bbls. crude oil at 2300# pressure and squeezed perforations in 5-1/2" casing 5429-5453 of 50 sx. cement. Maximum pressure 3000#, min. 2000# - Drilled cement 5407-5444. Loaded hole with 65 bbls. crude and pressured to 2800# pressure held.

Form 248A and B Cont'd 1M 11-3-43

FROM	TO	TOTAL	FORMATION	FROM	TO	TOTAL	FORMATION

PERFORATED: 7/11/55
Welex perforated 5-1/2" casing with 20 shots, 2 shots/ft., 5448-5453 and 5435-5440.

STRATA-FRAC: 7/12/55
Set 2-3/8" tubing at 5433 - Dowell made strata-frac treatment thru perforations in 5-1/2" casing 5435-5453 in stages as follows: Loaded hole with 124 bbls. crude oil - Spotted 500 gals. mud acid on bottom and broke down formation with 5 bbls. crude oil at 1900# pressure, decreasing to 700# as acid entered formation - Pumped in 5000 gals. strata-frac material and 10,000# sand followed by 40 bbls. crude oil - Spotted 100 gals. Jel-I-630 Flu-e-frac on formation with 20 bbls. crude oil and pumped in additional 5000 gals. strata-frac material and 10,000# sand followed by 57 bbls. crude oil. Maximum treating pressure 2350#, minimum 1500# - Displaced frac material with 124 bbls. crude oil - Total of 10,000 gals. strata-frac material, 20,000# sand, 100 gals. flufrac, 500 gals. mud acid and 311 bbls. crude oil used. Tested with negative results

SQUEEZE: 7/15/55 - 7/21/55
Set BRC packer at 5405. Loaded hole with 35 bbls. oil. Halliburton pressured casing to 700# - Pumped in 5 bbls. water 750# to 800# pressure - Squeezed perforations 5435-5440 and 5448-5453 with 50 sx. cement. Max. squeeze pressure 3000#, Pressure held with no break-back. Drilled cement 5405-5468, now plugged back total depth. Pressured casing to 2800#, Pressure decreased to 2600# in 4 minutes. Pumped 2 bbls. water into formation at 2700# pressure. Set BRC at 5413. Halliburton pressured 5½" casing to 500# then pumped in 2 bbls. water at 2700# to break down formation. Spotted 25 sx. cement on bottom and squeezed into formation with 1900# minimum and 3150# maximum pressure. Reversed circulated 4 sx. cement then pulled tubing and packer. Drilled cement 5412-5468 and bailed sand from to 5478. Pressured casing to 2600# and held for 5 minutes with no decrease.

PERFORATED: 7/22/55
Welex perforated 5½" casing with 4" bear gun, 13 gram shells, 1 shot each at 5435, 5440, 5450, and 5456.

STRATA-FRAC: 7/23/55
Set 2-3/8" tubing at 5434 and loaded hole with 125 bbls. crude oil. Dowell made strata-frac treatment thru perforations in 5-1/2" casing 5435-5456 as follows: Spotted 200 gals. mud acid and let soak 1 hr. - Broke down formation with 5 bbls. crude oil at 2650# pressure decreasing to 1900# as oil entered formation - Pumped in 3000 gals. stratafrac material and 6000# sand - Maximum treating pressure 2600# and minimum 1900# - Flushed tubing with 50 bbls. crude oil - Total 180 bbls. oil used in treatment. Swabbed on test with negative results.