15-025-00022-0000

STATE OF KANSAS
STATE CORPORATION COMMISSION

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

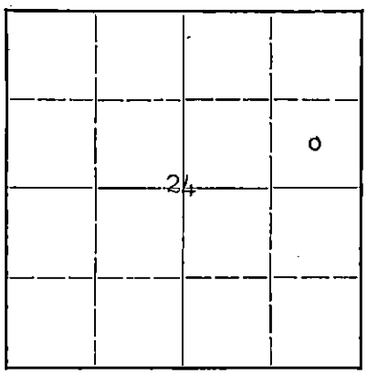
WELL PLUGGING RECORD

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. 34 S Rge. ~~E~~ W 21 (W)

Location as "NE¼NW¼SW¼" or footage from lines C-SE-NE

Lease Owner The Pure Oil Company

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

Office Address P.O. Box #9545, Oklahoma City 18, Oklahoma

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

Date well completed October 31, 19 56

Application for plugging filed yes 19

Application for plugging approved yes 19

Plugging commenced November 16, 19 60

Plugging completed November 30, 19 60

Reason for abandonment of well or producing formation Dry Hole

If a producing well is abandoned, date of last production Dry Hole 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, Jr.

Producing formation Morrow Depth to top 5480 Bottom 5496 Total Depth of Well 5612 Feet
5504' PB

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
				20"	120'	-0-
				8-5/8"	592'	-0-
				5-1/2"	5610'	3675

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.

Dry Hole: Hole filled to surface with salt water. Spotted 10 sx. cement plug 5380-5431. Pulled 114 jts. (3675') 5-1/2" casing. Hole filled with mud and spotted crushed rock and 20 sx. cement plug @ 550'. Hole filled with mud to bottom of cellar. Capped with 10 sx. cement plug.

RECEIVED
STATE CORPORATION COMMISSION
DEC 7 1960
12-7-60
CONSERVATION DIVISION
Wichita, Kansas

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

Correspondence regarding this well should be addressed to Mr. J. E. Seigler

Address % The Pure Oil Company, P.O. 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.

J. E. Seigler (Signature) J. E. Seigler District Supt.

The Pure Oil Co., P.O. Box #9545, Okla. City 18, Okla
(Address)

SUBSCRIBED AND SWORN TO before me this 7th day of December, 19 60

John C. Stallard
Notary Public.

My commission expires April 14, 1964

21-6858-RS 2-47—6M

Form 301.34 3M 6-25-55

THE PURE OIL COMPANY

WELL LOG AND RELATED DATA

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

ACRES 600 LEASE NO. 12107 AFE NO. 2317 ELEVATION Grd. 1811'; D.F. 1820' WELL NO. 1

SEC. 24 TWP. 34S RGE. 21W PRCT.-DIST.-TWP. -

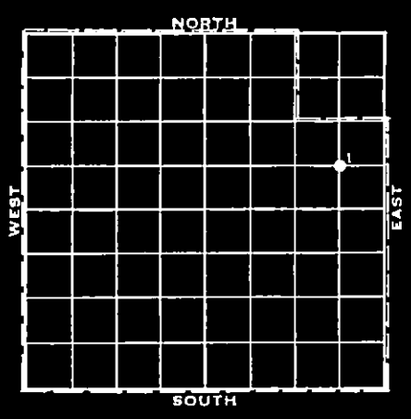
SURVEY (Chester Prospect) COUNTY Clark STATE Kansas

LOG

FROM	TO	TOTAL	FORMATION
(Sample data begin at 4000')			
0	85	85	Shale & Red Beds
85	615	530	Lime & Shale
615	1090	475	Shale & Red Beds
1090	1720	630	Shale
1720	2025	305	Shale & Salt
2025	2409	384	Shale & Lime
2409	2460	51	Lime
2460	2637	177	Shale & Lime
2637	2752	115	Shale
2752	3526	774	Lime & Shale
3526	3640	114	Lime
3640	4000	360	Lime & Shale
4000	4195	195	Shale, dark gray, w/occasional thin lime streaks
4195	4286	91	Shale, gray, w/thin streaks of gray, fine sand in upper part.
4286	HEEBNER		(Geol. Top)
4286	4350	64	Shale, gray w/thin streaks of lime
4350	4446	96	Lime, tan, crystalline to dense, w/thin shale breaks
4446	4513	67	Shale, gray
4513	LANSING-KANSAS CITY		(Geol. Top)
4513	4978	465	Lime, gray to tan, crystalline to dense, cherty locally, slightly sandy locally
4978	4990	12	Shale, black
4990	5090	100	Lime, white to gray, crystalline to dense, slightly cherty w/ shale breaks, black
5090	5120	30	Shale, black
5120	MARMATON		(Geol. Top)
5120	5306	186	Lime, tan, crystalline, cherty locally w/ occasional shale breaks, black
5306	CHEROKEE		(Geol. Top)
5306	5400	94	Shale, gray & black w/ scattered 4' to 10' lime zones.
5400	MORROW		(Geol. Top)
5400	5404	4	Shale, dark gray (See Core Record starting at 5404')
5404	5481	77	Shale & Limestone
5481	5495	14	Sand
5495	5500	5	Shale
5500	5512	12	Limestone
5512	MISSISSIPPIAN		(Geol. Top)
5512	5540	28	Lime, tan, crystalline to dense

LOCATION

3300 FEET NORTH OF SOUTH SECTION LINE
4648 FEET EAST OF WEST SECTION LINE
1980 FEET SOUTH OF NORTH SECTION LINE
660 FEET WEST OF EAST SECTION LINE



SCALE 2"=1 MILE

CASING AND CEMENTING RECORD

SIZE CASING	20"	8-5/8"	5-1/2"	
THREAD	-	8 Rd.	8 Rd.	
WEIGHT	65#	24#	14#&15#	
GRADE	Slip-it-Welded	J-55	J-55	
CONDITION	C/A	C/A	C/A	
SET AT	120'	592'	5610'	
SACKS CEMENT	225	300	325	
SIZE OF HOLE	26"	12-1/4"	7-7/8"	

Temperature Survey indicated top cmt. behind 5-1/2" csg. at 3700'

LINER RECORD

SIZE	WT.	COND.	LENGTH	BLANK	PERF.	SET AT

GUN PERFORATING RECORD

DATE	CASING	FROM	TO	SIZE SHOTS	NO. SHOTS
11/ 6/56	5-1/2"	5514	5538	3/8"	96(Blkd.off)
11/ 9/56	5-1/2"	5546	5576	3/8"	120(Blkd.off)
11/10/56	5-1/2"	5480	5496	3/8"	64

SHOT OR ACID RECORD

DATE	TOP	BOTTOM	SHOT-ACID	REMARKS
11/12/56	5480	5496	200 Gals.	Mud Acid
11/13/56	5480	5496	Petro-Frac:	10,000 G. & 5000# Sand

DRILLING: COMMENCED 10/ 5/56 COMPLETED 10/31/56

ELECTRICAL SURVEY BY Lane-Wells (Gamma Ray-Neutron) 11/ 5/56

DRILLED WITH (Unit Drilling Co.) Rotary TOOLS

DRILLED IN WITH (Unit Drilling Co.) Rotary TOOLS

FIRST PROD.—NAT. DATE 11/11/56 HRS. 20(Swbg.) BBLS. 58 OIL

No WATER ~~Acid~~ & Petro-Frac M CU. FT. GAS LBS. ROCK PRESS.

FIRST PROD. AFTER ACID—DATE 12/6/56 HRS. 8 BBLS. 120 OIL

No WATER - M CU. FT. GAS - LBS. ROCK PRESS.

GAS/OIL RATIO - POTENTIAL (1) 360 oil & no wtr. BBLS.

GRAVITY 37.9 TEMP. 60° GRADE (22/64" ck.)

(1) Based on State Productivity Test 12/ 6/56.

DATE ABANDONED—SOLD 19

FROM	TO	TOTAL	FORMATION
5540	5612	72	Lime, tan, crystalline to dense w/Lime, white to tan, granular, slight porosity.
5612			TOTAL DEPTH
	Plugged Back:		
5612	5504	108	Cast Iron Bridge Plug in 5-1/2" casing at 5504'.
5504			TOTAL DEPTH-PB

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

PAY ZONE:

5480 5496

ADDITIONAL WELL DATA:

ANGULAR DEVIATION:

Depth	Degrees Off Vertical	Depth	Degrees Off Vertical
1955	3/4	4127	2
2245	3/4	4532	1
2588	1	4815	1/2
3010	2	5214	1/2
3640	2 1/4		

CORE RECORD:

Core No.	Depth	Rec.	Description
1	5404-5462	58'	2½' Shale, dark gray, 1½' limestone, tan, dense, hard - 4' limestone conglomerate with green shale matrix - (5½' is called "A" sand section) - 1' limestone, tan, dense, hard - 1/2' limestone conglomerate with green shale matrix - 5-1/2' limestone, tan, dense, hard - 7' shale, dark gray with thin limestone laminae - 36' shale, dark gray.
2	5462-5520	58'	8' Shale, dark gray 3-1/2' Limestone, gray-tan, hard, dense, sandy - 4-1/2' Shale, dark gray - 4-1/2' Shale, dark gray, finely laminated tight streaks - 13-1/2' Sand, fine, white, good porosity and permeability light even stain, light yellow fluorescence when cut, bleeding oil and gas, bleeding trace salt water at 5489 - 5' Shale, dark gray, w/thin, tight, sand streaks - 4' Limestone, gray-tan, crystalline to dense, bleeding oil and gas along bedding plane - 2' Interbedded limestone and shale - 1' Limestone, tan, gray, vugular porosity, bleeding oil and gas - 4' Limestone, gray, dense, bleeding oil and gas along bedding plane - 8' Limestone, tan, crystalline.

DRILL STEM TESTS:

10/29/56 5487-5520 (Morrow)

Tool open 1 hr. air to surface immediately with good blow continuing throughout test - Gas to surface in 5 minutes, volume too small to measure - Recovered 1004' free oil and no water - IFP 155#, FFP 312#, 20 minute SI BHP 2028# (Hydro. 2615#)

10/31/56 5592-5612 (Miss.)

Packers failed to hold - Pulled drill pipe, found rubbers from both packers left in hole. Ran bit and cleaned out 60' of cavings. Schlumberger attempted to run Induction and Gamma Ray logs but instruments stopped at 1207. Ran drill pipe and knocked out bridge at 1300. Attempted to run log but instruments stopped at 1225. Reran drill pipe and cleaned out 50' of cavings.

11/ 1/56 (Miss.)

Tools stopped at 1231. Ran bit, knocked out bridge, and cleaned out 30' cavings to bottom. Schlumberger attempted to run Induction log but instruments stopped at 1217. Ran

FROM	TO	TOTAL	FORMATION

DRILL STEM TESTS:

11/ 1/56 (Cont'd)

bit, knocked out bridge and cleaned out 30' cavings to bottom. Attempted to run Induction log and instruments stopped at 1207. Ran bit, knocked out bridge, and cleaned out 30' of cavings.

SET CASING, PERFORATED AND TESTED MISS.: 11/ 3/56 - 11/ 9/56

Set 5-1/2" casing at 5610. Pumped 286 sx. Magapak down 5-1/2" casing followed by 8 bbls. No-Bloc then 325 sx. Pozmix. Pumped plug to 5578, displacing No-Bloc from annulus and getting Magapak returns to surface. Drilled out plug at 5578 and tools swung free to 5608. Drilled out shoe and cleaned out to 5612. Lane-Wells ran Gamma Ray-Neutron log. Set Halliburton RTTS packer on 2-3/8" tubing at 5566'. Swabbed casing clean of mud. Tested 1 hr. - no fill-up. Reset Halliburton RTTS packer at 5487. Lane-Wells ran swing jet perforator through 2-3/8" tubing to 4800. Perforator would not go below 4800 due to viscosity of no-bloc mud. Opened circulation ports above packer and conditioned mud. Lane-Wells re-ran swing jet perforator through 2-3/8" tubing and perforated 5-1/2" casing in Miss. Lime with 96 shots, 4 shots per/ft. 5514-5538. Swabbed casing clean. Tested 1 hr. - no fill-up. Released and lowered packer to 5579 and conditioned mud. Reset packer at 5587. Lane-Wells ran swing jet perforator through 2-3/8" tubing but gun would not go below 5405. Circulated to clean tubing and condition mud. Reran perforating gun but could not go below 5405. Pulled tubing and packer. Found second joint above packer bent. Lane-Wells ran casing perforating gun and gun stopped at 5530. Ran 4-3/4" bit on 2-3/8" tubing and bit stopped at 5502. Worked tools down casing to 5537. Tubing twisted up indicating possible casing damage. Pulled tubing then reran with new 4-3/4" bit with 2,3-1/2" drill collars above bit -- bit stopped at 5537. Drilled out bridge caused by perforating gun 5537-5544 and tools swung free. Washed casing clean to 5612. Lane-Wells perforated 5-1/2" casing in Miss. Lime 5546-5576 with 120 shots, 4 shots/ft. Set Halliburton RTTS packer on 2-3/8" tubing at 5485. Swabbed hole clean and let set 2 hrs. -- no fill-up. Reset packer at 5542 to test for communication between perforated zones 5514-5538 and 5546-5576. Pressured up to 800# and held for 5 minuted OK. Pulled tubing and packer

P.B., PERFORATE & TEST: 11/10/56 - 11/11/56

Lane-Wells set 5-1/2" C.I. bridge plug at 5504, new plugged back total depth, then perforated 5-1/2" casing in Morrow formation 5480-5496 with 64 jet shots, 4 shots/ft. Set 2-3/8" tubing open-ended at 5475. Swabbed all drilling mud from casing. Well gasing and producing small amount of oil to pits while swabbing. Recovered estimated 2-1/2 bbls. oil and 1 bbl. mud per hr. On 24 hr. swab test recovered 68 bbls. oil and no water.

FROM	TO	TOTAL	FORMATION

ACID & PETRO FRAC: 11/12/56 - 11/13/56

Dowell made petro-frac treatment of Morrow formation through perforations in 5-1/2" csg. 5480-5496 as follows: 2-3/8" tubing set at 5475. Loaded hole with 115 bbls. oil. Spotted 250 gals. mud acid and perforations and let set 30 minutes. Pressure down formation with 15 bbls. oil at 4000# pressure decreasing to 3700#, pumped in total of 10,000 gals. petro-frac material and 5000# sand. Maximum treating pressure 4550#, minimum 2900#. Flushed tubing with 50 bbls. oil at 4500# pressure. Shut well in 5 minutes and pressure decreased to 1900# and after 30 minutes 900#. Opened well to test tank. Well failed to flow. Swabbed well in and well produced total of 696 bbls. gross oil and 254 bbls. net oil after deducting load oil due in 19½ hrs. through various chokes, 16/64" to 1".

Form 301.34 3M 8-25-55

THE PURE OIL COMPANY

WELL LOG AND RELATED DATA

DIVISION S. W. Producing DISTRICT Buffalo LEASE Harper, J. C. "D" WELL NO. 1

ACRES 600 LEASE NO. 12107 AFE NO. 2317 ELEVATION Grd. 1811'; D.F. 1820'

SEC. 24 TWP. 34S RGE. 21W PRCT.-DIST.-TWP. -

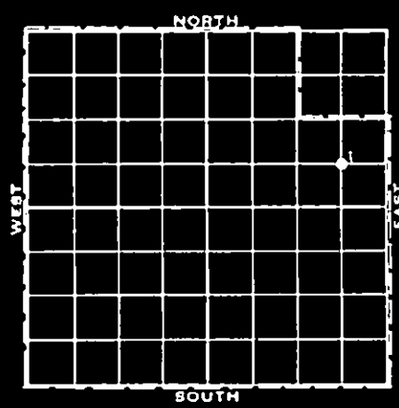
SURVEY (Chester Prospect) COUNTY Clark STATE Kansas

LOG

FROM	TO	TOTAL	FORMATION
(Sample data begin at 4000')			
0	85	85	Shale & Red Beds
85	615	530	Lime & Shale
615	1090	475	Shale & Red Beds
1090	1720	630	Shale
1720	2025	305	Shale & Salt
2025	2409	384	Shale & Lime
2409	2460	51	Lime
2460	2637	177	Shale & Lime
2637	2752	115	Shale
2752	3526	774	Lime & Shale
3526	3640	114	Lime
3640	4000	360	Lime & Shale
4000	4195	195	Shale, dark gray, w/occasional thin lime streaks
4195	4286	91	Shale, gray, w/thin streaks of gray, fine sand in upper part.
4286	HEEBNER		(Geol. Top)
4286	4350	64	Shale, gray w/thin streaks of lime
4350	4446	96	Lime, tan, crystalline to dense, w/thin shale breaks
4446	4513	67	Shale, gray
4513	LANSING-KANSAS CITY		(Geol. Top)
4513	4978	465	Lime, gray to tan, crystalline to dense, cherty locally, slightly sandy locally
4978	4990	12	Shale, black
4990	5090	100	Lime, white to gray, crystalline to dense, slightly cherty w/ shale breaks, black
5090	5120	30	Shale, black
5120	MARMATON		(Geol. Top)
5120	5306	186	Lime, tan, crystalline, cherty locally w/ occasional shale breaks, black
5306	CHEROKEE		(Geol. Top)
5306	5400	94	Shale, gray & black w/ scattered 4' to 10' lime zones.
5400	MORROW		(Geol. Top)
5400	5404	4	Shale, dark gray (See Core Record starting at 5404')
5404	5481	77	Shale & Limestone
5481	5495	14	Sand
5495	5500	5	Shale
5500	5512	12	Limestone
5512	MISSISSIPPIAN		(Geol. Top)
5512	5540	28	Lime, tan, crystalline to dense

LOCATION

3300 FEET NORTH OF SOUTH SECTION LINE
4648 FEET EAST OF WEST SECTION LINE
1980 FEET SOUTH OF NORTH SECTION LINE
660 FEET WEST OF EAST SECTION LINE



SCALE 2"=1 MILE

CASING AND CEMENTING RECORD

SIZE CASING	20"	8-5/8"	5-1/2"		
THREAD	-	8 Rd.	8 Rd.		
WEIGHT	65#	24#	14#&15#		
GRADE	Slip-it-Welded	J-55	J-55		
CONDITION	C/A	C/A	C/A		
SET AT	120'	592'	5610'		
SACKS CEMENT	225	300	325		
SIZE OF HOLE	26"	12-1/4"	7-7/8"		

Temperature Survey indicated top cmt. behind 5-1/2" csg. at 3700'.

LINER RECORD

SIZE	WT.	COND.	LENGTH	BLANK	PERF.	SET AT

GUN PERFORATING RECORD

DATE	CASING	FROM	TO	SIZE SHOTS	NO. SHOTS
11/ 6/56	5-1/2"	5514	5538	3/8"	96(Blkd.off)
11/ 9/56	5-1/2"	5546	5576	3/8"	120(Blkd.off)
11/10/56	5-1/2"	5480	5496	3/8"	64

SHOT OR ACID RECORD

DATE	TOP	BOTTOM	SHOT-ACID	REMARKS
11/12/56	5480	5496	200 Gals.	Mud Acid
11/13/56	5480	5496	Petro-Frac:	10,000 G. & 5000# Sand

DRILLING: COMMENCED 10/ 5/56 COMPLETED 10/31/56

ELECTRICAL SURVEY BY Lane-Wells (Gamma Ray-Neutron) DATE 11/ 5/56

DRILLED WITH (Unit Drilling Co.) Rotary TOOLS

DRILLED IN WITH (Unit Drilling Co.) Rotary TOOLS

FIRST PROD.—NAT. DATE 11/11/56 HRS. 20(Swbg.) BBLS. 58 OIL

No WATER ~~X~~ Petro-Frac M CU. FT. GAS - LBS. ROCK PRESS.

FIRST PROD. AFTER ACID—DATE 12/6/56 HRS. 8 BBLS. 120 OIL

No WATER - M CU. FT. GAS - LBS. ROCK PRESS.

GAS/OIL RATIO - POTENTIAL (1) 360 oil & no wtr. BBLS.

GRAVITY 37.9 TEMP. 60° GRADE (22/64"ck.)

(1) Based on State Productivity Test 12/ 6/56.

DATE ABANDONED—~~COMP~~ 11-30-60 19

FROM	TO	TOTAL	FORMATION
5540	5612	72	Lime, tan, crystalline to dense w/Lime, white to tan, granular, slight porosity.
5612			TOTAL DEPTH
	Plugged Back:		
5612	5504	108	Cast Iron Bridge Plug in 5-1/2" casing at 5504'.
5504			TOTAL DEPTH-PB

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

PAY ZONE:

5480	5496

ADDITIONAL WELL DATA:

ANGULAR DEVIATION:

Depth	Degrees Off Vertical	Depth	Degrees Off Vertical
1955	3/4	4127	2
2245	3/4	4532	1
2588	1	4815	1/2
3010	2	5214	1/2
3640	2 1/4		

CORE RECORD:

Core No.	Depth	Rec.	Description
1	5404-5462	58'	2½' Shale, dark gray, 1½' limestone, tan, dense, hard - 4' limestone conglomerate with green shale matrix - (5½' is called "A" sand section) - 1' limestone, tan, dense, hard - 1/2' limestone conglomerate with green shale matrix - 5-1/2' limestone, tan, dense, hard - 7' shale, dark gray with thin limestone laminae - 36' shale, dark gray.
2	5462-5520	58'	8' Shale, dark gray 3-1/2' Limestone, gray-tan, hard, dense, sandy - 4-1/2' Shale, dark gray - 4-1/2' Shale, dark gray, finely laminated tight streaks - 13-1/2' Sand, fine, white, good porosity and permeability light even stain, light yellow fluorescence when cut, bleeding oil and gas, bleeding trace salt water at 5489 - 5' Shale, dark gray, w/thin, tight, sand streaks - 4' Limestone, gray-tan, crystalline to dense, bleeding oil and gas along bedding plane - 2' Interbedded limestone and shale - 1' Limestone, tan, gray, vugular porosity, bleeding oil and gas - 4' Limestone, gray, dense, bleeding oil and gas along bedding plane - 8' Limestone, tan, crystalline.

DRILL STEM TESTS:

10/29/56 5487-5520 (Morrow)

Tool open 1 hr, air to surface immediately with good blow continuing throughout test - Gas to surface in 5 minutes, volume too small to measure - Recovered 1004' free oil and no water - IFP 155#, FFP 312#, 20 minute SI BHP 2028# (Hydro. 2615#)

10/31/56 5592-5612 (Miss.)

Packers failed to hold - Pulled drill pipe, found rubbers from both packers left in hole. Ran bit and cleaned out 60' of cavings. Schlumberger attempted to run Induction and Gamma Ray logs but instruments stopped at 1207. Ran drill pipe and knocked out bridge at 1300. Attempted to run log but instruments stopped at 1225. Reran drill pipe and cleaned out 50' of cavings.

11/ 1/56 (Miss.)

Tools stopped at 1231. Ran bit, knocked out bridge, and cleaned out 30' cavings to bottom. Schlumberger attempted to run Induction log but instruments stopped at 1217. Ran

FROM	TO	TOTAL	FORMATION

DRILL STEM TESTS:

11/ 1/56 (Cont'd)

bit, knocked out bridge and cleaned out 30' cavings to bottom. Attempted to run Induction log and instruments stopped at 1207. Ran bit, knocked out bridge, and cleaned out 30' of cavings.

SET CASING, PERFORATED AND TESTED MISS.:

11/ 3/56 - 11/ 9/56

Set 5-1/2" casing at 5610. Pumped 286 sx. Magapak down 5-1/2" casing followed by 8 bbls. No-Bloc then 325 sx. Pozmix. Pumped plug to 5578, displacing No-Bloc from annulus and getting Magapak returns to surface. Drilled out plug at 5578 and tools swung free to 5608. Drilled out shoe and cleaned out to 5612. Lane-Wells ran Gamma Ray-Neutron log. Set Halliburton RTTS packer on 2-3/8" tubing at 5566'. Swabbed casing clean of mud. Tested 1 hr. - no fill-up. Reset Halliburton RTTS packer at 5487. Lane-Wells ran swing jet perforator through 2-3/8" tubing to 4800. Perforator would not go below 4800 due to viscosity of no-bloc mud. Opened circulation ports above packer and conditioned mud. Lane-Wells re-ran swing jet perforator through 2-3/8" tubing and perforated 5-1/2" casing in Miss. Lime with 96 shots, 4 shots per/ft. 5514-5538. Swabbed casing clean. Tested 1 hr. - no fill-up. Released and lowered packer to 5579 and conditioned mud. Reset packer at 5587. Lane-Wells ran swing jet perforator through 2-3/8" tubing but gun would not go below 5405. Circulated to clean tubing and condition mud. Reran perforating gun but could not go below 5405. Pulled tubing and packer. Found second joint above packer bent. Lane-Wells ran casing perforating gun and gun stopped at 5530. Ran 4-3/4" bit on 2-3/8" tubing and bit stopped at 5502. Worked tools down casing to 5537. Tubing twisted up indicating possible casing damage. Pulled tubing then reran with new 4-3/4" bit with 2,3-1/2" drill collars above bit -- bit stopped at 5537. Drilled out bridge caused by perforating gun 5537-5544 and tools swung free. Washed casing clean to 5612. Lane-Wells perforated 5-1/2" casing in Miss. Lime 5546-5576 with 120 shots, 4 shots/ft. Set Halliburton RTTS packer on 2-3/8" tubing at 5485. Swabbed hole clean and let set 2 hrs. -- no fill-up. Reset packer at 5542 to test for communication between perforated zones 5514-5538 and 5546-5576. Pressured up to 800# and held for 5 minuted OK. Pulled tubing and packer

P.B., PERFORATE & TEST: 11/10/56 - 11/11/56

Lane-Wells set 5-1/2" C.I. bridge plug at 5504, new plugged back total depth, then perforated 5-1/2" casing in Morrow formation 5480-5496 with 64 jet shots, 4 shots/ft. Set 2-3/8" tubing open-ended at 5475. Swabbed all drilling mud from casing. Well gasing and producing small amount of oil to pits while swabbing. Recovered estimated 2-1/2 bbls. oil and 1 bbl. mud per hr. On 24 hr. swab test recovered 68 bbls. oil and no water.

FROM	TO	TOTAL	FORMATION

ACID & PETRO FRAC: 11/12/56 - 11/13/56

Dowell made petro-frac treatment of Morrow formation through perforations in 5-1/2" csg. 5480-5496 as follows: 2-3/8" tubing set at 5475. Loaded hole with 115 bbls. oil. Spotted 250 gals. mud acid and perforations and let set 30 minutes. Pressure down formation with 15 bbls. oil at 4000# pressure decreasing to 3700#, pumped in total of 10,000 gals. petro-frac material and 5000# sand. Maximum treating pressure 4550#, minimum 2900#. Flushed tubing with 50 bbls. oil at 4500# pressure. Shut well in 5 minutes and pressure decreased to 1900# and after 30 minutes 900#. Opened well to test tank. Well failed to flow. Swabbed well in and well produced total of 696 bbls. gross oil and 254 bbls. net oil after deducting load oil due in 19½ hrs. through various chokes, 16/64" to 1".