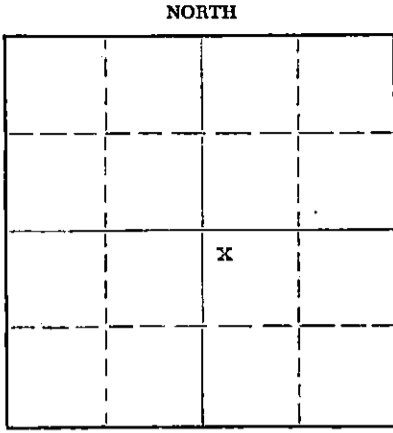


WELL PLUGGING RECORD

Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
211 No. Broadway  
Wichita, Kansas

Morton County, Sec. 17 Twp. 31S Rge. 41 (E) W (W)

Location as "NE/CNW%SW%" or footage from lines C NW NW SE  
Lease Owner Pan American Petroleum Corporation  
Lease Name Mansz Gas Unit Well No. 1  
Office Address Box 591, Tulsa, Oklahoma  
Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole  
Date well completed February 19 19 58  
Application for plugging filed February 21 19 58  
Application for plugging approved February 24 19 58  
Plugging commenced April 2 19 58  
Plugging completed April 4 19 58  
Reason for abandonment of well or producing formation Non Commercial



Locate well correctly on above Section Plat

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 Merle Rives, Garden City, Kansas  
Producing formation \_\_\_\_\_ Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well 5478 Feet  
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO DS	SIZE	PUT IN	PULLED OUT
Herington-Krider			2148	8-5/8"	1510	0
Winfield			2206	5-1/2"	2469	2097
Topeka			3149			
Greenwood Lansing			3483			
Missourian			3608			
Des Moines			4254			
Morrow			4853			
Mississippian			5328			

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.

Rigged up pulling unit. Plugged back with sand from 2240 to 2160'. Dumped 5 sacks cement at 2160'. Cement from 2160' to 2120'. Shot pipe at 2100'. Pulled 2097' of 5-1/2" casing. Service company pumped mud and filled hole back to 500'. Set rock bridge and dumped 20 sacks cement. Filled hole back to 35' of surface with mud and capped with 10 sacks cement to surface.

RECEIVED  
STATE CORPORATION COMMISSION  
4-16-58  
APR 16 1958  
CONSERVATION DIVISION  
WICHITA, KANSAS

(If additional description is necessary, use BACK of this sheet)  
Name of Plugging Contractor Southwest Casing Pulling Company  
Address Great Bend, Kansas

STATE OF Kansas COUNTY OF Grant, ss.  
Ralph Ludwick (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) Ralph Ludwick Field Supt.  
Box 507, Ulysses, Kansas  
(Address)

SUBSCRIBED AND SWORN TO before me this 11th day of April, 19 58

My commission expires November 12, 1958 J. G. Cherry Notary Public.

PLUGGING  
FILE SEC. 17 T. 31 R. 41  
BOOK PAGE 84 LINE 29

PAN AMERICAN PETROLEUM CORPORATION

15-129-10122-0000

WELL RECORD

SUPPLEMENTAL (ENTER "X" WHEN APPLICABLE)

Grid for well location mapping with handwritten number 17 in the center.

LOCATE WELL CORRECTLY

LEASE: Hess Gas Unit WELL NO. 1  
LOCATION OF WELL: 330 FT.  NORTH  SOUTH OF THE 330 FT.  NORTH  SOUTH LINE AND  
 EAST  WEST OF THE  EAST  WEST LINE OF THE 1/4 1/4 1/4 1/4  
OF SECTION 17 TOWNSHIP 31  NORTH  SOUTH. RANGE 41  EAST  WEST.  
COUNTY Horton STATE Kansas  
ELEVATION: G.L. 3413 S.F. 3421 S.D.S. 3423  
COMPLETED AS:  OIL WELL  GAS WELL  WATER WELL  DRY HOLE  
DRILLING COMMENCED 1-13- 19 50 COMPLETED 2-9- 19 50

OPERATING COMPANY Pan American Petroleum Corporation ADDRESS P.O. Box 591, Tulsa, Oklahoma

OIL OR GAS SANDS OR ZONES

Table with 6 columns: NAME, FROM, TO, NAME, FROM, TO. Rows include: 1. Burlington-Elbow (2140-2306), 2. Winfield (2306-2327), 3. Ft. Riley, 4. Greenwood Lensing (3463-4033), 5. Harrow (4033-5328), 6. Mississippian.

WATER SANDS

Table with 8 columns: NAME, FROM, TO, WATER LEVEL, NAME, FROM, TO, WATER LEVEL. Row 1: Unconsolidated (3-4).

CASING RECORD (OVERALL MEASUREMENT)

LINER-SCREEN RECORD

Tables for casing and liner-screen records. Casing record columns: CSG. SIZE, WEIGHT, THREADS, MAKE - GRADE, QUANTITY FEET. Liner-screen record columns: SIZE, QUANTITY FEET, SET AT (TOP, BOTTOM), MAKE AND TYPE.

PACKER RECORD

Table for packer record with columns: SIZE, LENGTH, SET AT, MAKE AND TYPE.

CEMENTING RECORD

MUDDING RECORD

Tables for cementing and mudding records. Cementing record columns: SIZE, WHERE SET FEET, SACKS, CEMENT BRAND, TYPE, METHOD, FINAL PRESS. Mudding record columns: METHOD, RESULTS.

WHAT METHOD WAS USED TO PROTECT SANDS WHEN OUTER STRINGS WERE PULLED? Run - High Rig

WERE BOTTOM HOLE PLUGS USED? Run

IF SO. STATE KIND, DEPTH SET. AND RESULTS OBTAINED Run

ROTARY TOOLS WERE USED FROM 0 FEET TO 3470 FEET. AND FROM Run FEET TO Run FEET

CABLE TOOLS WERE USED FROM Run FEET TO Run FEET. AND FROM Run FEET TO Run FEET

24-HOUR PRODUCTION OR POTENTIAL TEST Run

WATER Run BBLs.

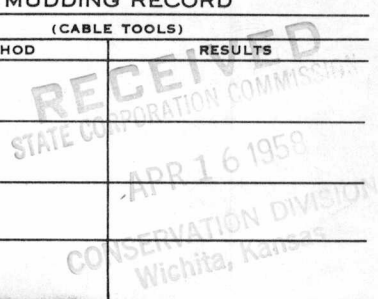
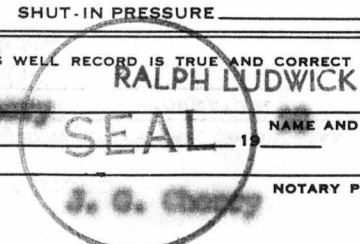
IF GAS WELL. CUBIC FEET PER 24 HOURS Run SHUT-IN PRESSURE Run LBS. PER SQUARE IN.

I, THE UNDERSIGNED, BEING FIRST DULY SWORN UPON OATH, STATE THAT THIS WELL RECORD IS TRUE AND CORRECT ACCORDING TO THE RECORDS OF THIS OFFICE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SUBSCRIBED AND SWORN TO BEFORE ME THIS 17th DAY OF February 19 50 NAME AND TITLE RALPH LUDWICK Field Sup.

MY COMMISSION EXPIRES Run ORIGINAL SIGNED BY J. G. CHERRY NOTARY PUBLIC

PLUGGING FILE SEC. 17T 3/R 4/6 BOOK PAGE 84 LINE 29



FORMATION RECORD

DESCRIBE EACH FORMATION DRILLED. INDICATE THICKNESS, CONTENT AND WHETHER DRY, OR OIL, GAS, OR WATER BEARING.

FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM
Surface Seals	0	220			
Shale-Shells-and Sand	220	400			
Sand Shell-Shale-Gyp	400	1120			
Shale	1120	1435			
Shale-Anhydrite	1435	1514			
Anhydrite	1514	1555			
Shale	1555	2635			
Lime-Shale	2635	3225			
Chalk	3225	3262			
Lime-Shale	3262	4500			
Lime	4500	4505			
Lime-Shale	4505	4944			
Shale-Lime	4944	4945			
Lime-Shale	4945	5000			
Shale	5000	5100			
Shale-Lime	5100	5195			
Lime - Shale	5195	5206			
Shale-Lime	5206	5400			
Lime-Shale	5400	5470			

Summary of Drilling and Completion Operations

Operations commenced 1-10-58  
Spudded 6:00 P.M. 1-15-58

Ground Level to Herrick Floor 6'  
Herrick Floor to Rotary Drive Bushing 2.5'

Elevations:

Ground Level	3415
Herrick Floor	3421
Rotary Drive Bushing	3423

8-5/8" casing set at 1311' w/1000 sacks Formin #1 cement w/2% Calcium Chloride. Cement did not circulate. Grouted down outside of casing with 100 sacks.

Schlumberger ran Microlog and Induction Survey w/formation tops:

Herrington-Grider	2140
Winfield	2206
Ft. Riley	2327
Topoka	3149
Greenwood Lensing	3403
Missourian	3608
Des Moines	4254
Harrow	4833
Mississippian	5328

Run Schlumberger Formation Test #1, 5250-5250-1/2, Harrow. Harrow, coupler failed to open. Test #2, 5261-5261-1/2, Harrow, Tool open 19 min., closed 19 min. Initial flow press. 100 psi, final 50 psi. Shut in pressure 50 psi, Hydrostatic Head 2400 psi. No recovery.

Test #3, 5206-5206-1/2, Harrow, tool open 22 minutes, closed 20 minutes. Initial flow pressure and final 50 psi. Shut in pressure 1345 psi. Hydrostatic Head 2400 psi, no recovery.

BIT #1, HWCO, 5335-5470, Mississippian. Tool open for 30 min. for initial shut in pressure. Tool open to surface for 30 minutes. Had wash pipe for 20 minutes and died. Tool closed for final bottom hole pressure. Recovered 20' drilling mud. Initial bottom hole pressure 1000, final 5400, still raising. Initial flow pressure 300, final 500. Initial and final Hydrostatic Head 2400. Top choke 1", bottom 5/8".

BIT #2, Harrow, with straddle packer at 5190-5220. Tool open 30 min. for initial bottom hole pressure. Tool open to surface with fair pipe. Tool closed 30 min. for final bottom hole pressure. Recovered 150' drilling mud. Initial bottom hole pressure 1000, final 900. Initial flow pressure 700, final 1100. Initial Hydrostatic Head 2400, final 2315. Top choke 1", bottom 5/8".

5-1/2" casing set at 3463 ft. w/500 sacks HWCO Formin #1 cement. Lost circulation when cement all in hole and started pumping plugs.

Permanent Bench Mark 10 ft. above center of 3" side outlets in 8-5/8" head.

Total Depth 5470'

Plug Back Depth 2340'

Run temperature survey and found top of cement at 1400 feet.

(Continued on another page)

15-129-10122-0000

Moved in cable tools and swabbed casing dry. Casing tested O.K. Drilled out cement to 2417 feet. Ran Gamma Ray with Collar Locator.

PGAC perforated Ft. Riley 2339-2341 with 12 SPF. Acid Engineers treated down hole with 500 gal 15% acid, flushed with 2500 gal water. Maximum pressure 750#, broke to 200#. Swabbed hole dry, no show gas or water on 12 hour test.

PGAC set bridging plug at 2240 and perforated Winfield 2226-2229 with 10 SPF. Acid Engineers treated down hole with 500 gal 15% acid, flushed with 2500 gal water. Maximum pressure 900#, treating pressure 300#. Swabbed hole dry, no show gas or water. PGAC set plug at 2200 ft. and perforated Herington-Krider 2174-2176 with 12 SPF. Acid Engineers treated down hole with 500 gal 15% acid, flushed with 2500 gal water. Maximum pressure 1100#, treating pressure 300#. Swabbed hole dry on 24 hour test, no show gas or water.

Drilled out bridging plug at 2200 feet. Acid Engineers treated Herington-Krider and Winfield down hole with 2500 gal treated water, 20,000 gal water with 20,000# sand (40-60-mesh), flushed with 3100 gal treated water. Maximum pressure 800#, treating pressure 600#.

Pressure dropped to 300# when pumps shut down. Injection rate 35.9 BPM. On 18 hour swab test, swabbed 12 barrels treating fluid per hour, no gas. After 36 hours, swabbed 10 barrels water per hour, no gas. After 42 hours, swabbed 10 barrels water per hour, no gas.

Completed as dry hole 2-19-58.

PLUGGING  
HILL SEC. 17 T. 31 R. 71a  
BOOK PAGE 84 LINE 29