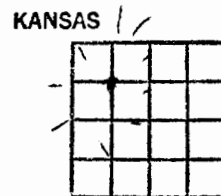


WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY 16-31-33W
 503 East Murdock, Wichita, Kansas

Company- PAN AMERICAN PETROLEUM CORP.
 Farm- Toland Gas Unit No. 1
 2

SEC. 16 T. 31 R. 33W
 C NW/4
 1320' N of SL, 1320' E of
 WL of NW/4
 County Seward

Total Depth, 2748'
 Comm. 12-13-57 Comp. 12-19-57
 Shot or Treated.
 Contractor.
 Issued. 6-21-58



Elevation. 2898' DF

Production. 4,245,000 CFG

CASING:

8 5/8" 645' cem w/400 sx.
 5 1/2" 2742' cem w/800 sx.

Figures indicate Bottom of Formations.

| | |
|---------------------|------|
| surface sands | 618 |
| red bed | 1019 |
| red bed - shale | 1500 |
| gyp-shale-red bed | 1709 |
| gyp-shale-anhydrite | 1867 |
| gyp-shale | 2170 |
| lime-shale | 2368 |
| lime | 2677 |
| lime-sand | 2748 |
| Total Depth | |

TOPS:

| | |
|-----------|------|
| Herington | 2601 |
| Krider | 2636 |
| Winfield | 2680 |
| Towanda | 2724 |

Ran Schlumberger

Perforated 2728-2733 w/8 JSPF, no show
 gas or water.

Loaded hole with treated water and established
 injection, 10,000 gal water w/10,000# 20-40 sand,
 flushed w/3000 gal treated water. Max. pressure
 2100#, treating pressure 600#, time on treatment
 8 min., injection rate 44.6 BPM.

Perforated 2687-2692 with 8 JSPF, no show
 of gas.

Perforated 2650-2654, 2638-2642, 2606-09
 with 6 JSPF, well gauged 1358 MCFG natural.

COPY

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5952

Name: Amoco Production Company

Address PO Box 800 Room 924

City/State/Zip Denver, CO 80201

Purchaser: Williams Natural Gas

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Eldredge Well Service

License: 9567

Wellsite Geologist: N/A

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic Protection)

If Workover:

Operator: Amoco Production Company

Well Name: Toland Gas Unit #2

Comp. Date 12/19/57 Old Total Depth 2748

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
 (Frac and Acid Jobs)

5/29/97 7/8/97
Start Date of Re-Entry Date Reached TD Completion Date of Re-Entry

API NO. 15- N/A
County Seward
- - C - NW Sec. 16 Twp. 31S Rge. 33 X W
1320 Feet from S/N (circle one) Line of Section
1320 Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Toland Gas Unit Well # 2HI
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 2896' KB 2898'
Total Depth 2748' PBDT 2700'
Amount of Surface Pipe Set and Cemented at 645 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Pit Not Needed. **REENTRY 2X**
(Data must be collected from the Reserve Pit) **9-17-97**

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

RECEIVED
SEP 16 1997
KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WICHTA

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Juan R. Bito

Title Senior Staff Assistant Date 9/15/97

Subscribed and sworn to before me this 15th day of September 1997.

Notary Public _____

Notary Commission Expires January 4, 2001

1510 BROADWAY
DENVER, CO 80202

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Operator Name Amoco Production Company Lease Name Toland Gas Unit Well # 2

Sec. 16 Twp. 31S Rge. 33 East West County Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

| | | | |
|---|---|--|---------------------------------|
| Drill Stem Tests Taken (Attach Additional Sheets.) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> (From Original Completion) <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Name | Top Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Herington | 2601' |
| Electric Log Run (Submit Copy.) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Krider | 2636' |
| List All E.Logs Run: | | Winfield | 2680' |
| | | Towanda | 2724' |

| CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> (From Original Completion) Used | | | | | | | |
|--|-------------------|---------------------------|-----------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface | 12.25" | 8.625" | 24 | 645' | HOWCO POZMIX | 400 | N/A |
| Production | 7.875" | 5.5" | 14 | 2742' | HOWCO POZMIX | 800 | N/A |
| | | | | | | | |

| ADDITIONAL CEMENTING/SQUEEZE RECORD | | | | |
|---|------------------|----------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth | |
|----------------|--|--|--------------------|
| | | 8 | 2728-33'; 2687-92' |
| 6 | 2650-54'; 2638-42'; 2606-09'; | 23 bbls. 2% Potassium Chloride. | |
| | | FRAC w/ 64,500 lbs. 12/20 sand and 571 | 2606-2692' |
| | | bbls. N2 foam. | |

| | | | | |
|---|--|-----------------|-----------|---|
| TUBING RECORD | Size 2.375" 4.7# J-55 EUE T&C | Set At 2683' | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Inj. Resumed Production 7/9/97 | Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas 65 MCFD | Mcf | Water 5 BWPD |
| | | | | Gas-Oil Ratio Gravity |

Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2606-2692'

(If vented, submit ACO-18.) Other (Specify) _____