

SIDE ONE

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

Operator: License # 5598  
Name Pan Eastern Exploration  
Address P. O. Box 351  
City/State/Zip Liberal, KS. 67905-0351

Purchaser... N/A

Operator Contact Person M. L. Pease  
Phone (316) 624-6253

Contractor: License # 5342  
Name Gabbert-Jones, Inc.

Wellsite Geologist... N/A  
Phone

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If OWHG: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

3/5/97 3/9/87 N/A  
Spud Date Date Reached TD Completion Date

2310 2731  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 532 feet  
Multiple Stage Cementing Collar Used? Yes  No  
If yes, show depth set feet  
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt  
Cement Company Name  
Invoice #

API NO. 15-189-21004-0000

County Stevens

Approx. C NW 25 32S 39 East  
Sec. Twp. Rge.  West

3910 Ft North from Southeast Corner of Section  
4030 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name Armstrong "B" Well # 2H

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3206 KB

Section Plat

Table with 10 columns and 10 rows representing a section plat. The vertical axis is labeled with elevations: 5280, 4950, 4620, 4290, 3960, 3630, 3300, 2970, 2640, 2310, 1980, 1650, 1320, 990, 660, 330. The horizontal axis is labeled with elevations: 5280, 4950, 4620, 4290, 3960, 3630, 3300, 2970, 2640, 2310, 1980, 1650, 1320, 990, 660, 330. An 'X' is marked in the cell corresponding to 3960 on the vertical axis and 3960 on the horizontal axis.

RECEIVED  
STATE CORPORATION COMMISSION  
SEP 23 1987  
9-23-87  
CONSERVATION DIVISION  
Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket #  Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner  
(Well) Ft West from Southeast Corner of  
Sec Twp Rge East West

Surface Water Ft North from Southeast Corner  
(Stream, pond etc) Ft West from Southeast Corner  
Sec Twp Rge East West

Other (explain) Contractor provided water  
(purchased from city, R.W.D. #)

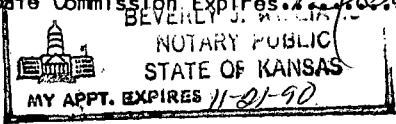
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential 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 drillers time log shall be attached with this form. 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 M. L. Pease  
Title Division Production Manager Date 9/22/87

Subscribed and sworn to before me this 22nd day of Sept 1987  
Notary Public Beverly J. Williams

Date Commission Expires November 21, 1990



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

Sec 25 Twp 33 Rge 39 W

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Purchaser N/A

Operator Contact Person M. L. Pease  
Phone (316) 624-6253

Contractor: License # 5842  
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Wellsite Geologist N/A  
Phone

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Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3206 KB

Section Plat

Table with 10 columns and 10 rows representing a section plat. The right side of the table lists elevations from 5280 to 330. An 'X' is marked in the 4th row, 4th column.

WATER SUPPLY INFORMATION

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Docket # Repressuring

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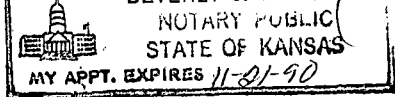
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Signature M. L. Pease  
Title Division Production Manager Date 9/22/87

Subscribed and sworn to before me this 22nd day of Sept 1987  
Notary Public Beverly J. Williams

Date Commission Expires November 21, 1990



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

Sec 32, Twp 32, Rge 39W

BW

GABBERT-JONES, INC.  
WICHITA, KAS.

DRILLERS WELL LOG

ARMSTRONG "B" #2H  
1370' FNL & 1250' FWL SEC. 25-32S-39W  
STEVENS COUNTY, KANSAS

COMMENCED: 3-5-87

COMPLETED: 3-10-87

OPERATOR: PAN EASTERN EXPLORATION COMPANY

DEPTH			
From	To	Formation	Remarks
0	100	Sand-Shale	Ran 12 jts. of 24# 8 5/8"
100	535	Surface Clay	csg. ID @ 532' w/160 sks.
535	1260	Shale	75/25 Posmix - 2% CC - 1/4# Celoflake
1260	1414	Glorieta Sand	150 sks. common - 3% CC
1414	1706	Shale	1/4# Celoflake. PD @ 7:45 AM
1706	2256	Shale - Lime	3-6-87
2256	2369	Lime - Shale	
2369	2810	Lime	Ran 69 jts. of 14# 5 1/2" csg. ID @ 2794' w/195 sks. Class "C" 20% Diesell 40 sks. Class "C" - 10% Diesell PD @ 1:00 AM 3-10-87.
	2810 TD		

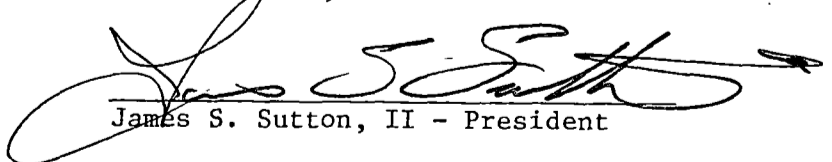
RECEIVED  
STATE CORPORATION COMMISSION

SEP 23 1987


CONSERVATION DIVISION  
Wichita, Kansas

STATE OF KANSAS )  
                          )  
COUNTY OF SEDGWICK) I, the undersigned, being duly sworn on oath, state that  
the above Drillers' Well Log is true and correct  
to the best of my knowledge and belief and according  
to the records of this office.

GABBERT-JONES, INC.

  
James S. Sutton, II - President

Subscribed & sworn to before me this 13th day of March 1987.

  
Lola Lenore Costa - Notary Public

My Commission expires 11-21-88

CEMENTING SERVICE REPORT

ORIGINAL

TREATMENT NUMBER	DATE
03-12-9421	3-9-87
STAGE	DISTRICT
1	ULYSSES Ks.

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. **ARMSTRONG B-2H** LOCATION (LEGAL) **Sec 25-32s-39W**

FIELD-POOL **ARMSTRONG** FORMATION

COUNTY/PARISH **STEVENS** STATE **Ks.** API. NO.

NAME **PAN EASTERN**

AND **RELEASED**

ADDRESS

ZIP CODE **66218**

RIG NAME: **GABBERT & JONES**

WELL DATA:	BOTTOM	TOP
BIT SIZE <b>7 1/8</b>	CSG/Liner Size <b>5 1/2</b>	
TOTAL WEIGHT <b>14#</b>		
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE <b>2803</b>	
MUD TYPE	GRADE <b>355</b>	
<input type="checkbox"/> BHST	THREAD <b>820</b>	
<input type="checkbox"/> BHCT		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	TOTAL
MUD VISC.	Disp. Capacity <b>68.4</b>	

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS

**FROM CONFIDENTIAL**

Foot	TYPE	TYPE
	DEPTH	DEPTH
Shoe	TYPE <b>BAKER</b>	TYPE
	DEPTH <b>2803</b>	DEPTH

Head & Plugs  TBG  D.P.  SQUEEZE JOB

Double  Single  Swage  Knockoff

SIZE  WEIGHT  GRADE  THREAD

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT **2500** PSI BUMP PLUG TO **1270** PSI

ROTATE **20** RPM RECIPROCATATE FT No. of Centralizers **14**

JOB SCHEDULED FOR TIME **2200** DATE **3-9-87** ARRIVE ON LOCATION TIME **2230** DATE **3-9-87** LEFT LOCATION TIME **0230** DATE **3-10-87**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								PRE-JOB SAFETY MEETING
2300		200						START RIG PUMP TO BREAK CIRCULATION
2355								STOP RIG PUMP/ HOOK TO TREATING LINE
0001		200	10		3	2% KCL	8.4	START 2% KCL SPACER
0004		230	30	10	4		8.3	START CHEMICAL WASH
0011		300	10	40	4		8.4	START 2% KCL SPACER
0014		290	93 1/2	50	4	CMT	12.0	START LEAD CEMENT - 195SX
0035		100	14	143	4	CMT	13.0	START TAIL CEMENT - 40SX
0039		100		157				STOP PUMP/ WASH LINE / DROP PLUG
0043		100	68 1/2		5	H2O	8.3	START DISPLACEMENT
0056		540		60	2			SHOW PUMP RATE
0101		1270		68 1/2				STOP PUMP/ PLUG DOWN
								INSERT HELD

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	195	2.69	CLASS C, 20% D56, 2% CaCl, 1/4" D29				93.4	12
2.	40	1.97	CLASS C, 10% D56, 2% CaCl, 1/4" D29				14	13
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX **270** MIN:

HESITATION SQ.  BONNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO Bbls.

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **68 1/2** Bbls TYPE OF WELL  OIL  GAS  STORAGE  INJECTION  BRINE WATER  WILDCAT

Washed Thru Perfs  YES  NO TO FT MEASURED DISPLACEMENT  WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE **M. KINEHART** SUPERVISOR **D. J. SHARP**

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER, INCORPORATED

TREATMENT NUMBER 03-12-9412 DATE 3/6/87  
 STAGE DS DISTRICT Ulysses Kansas

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. Armstrong B LOCATION (LEGAL) S25 T32S R39W  
 FIELD-POOL Surface FORMATION  
 COUNTY/PARISH Stevens STATE Kansas API. NO. 15189 21004

RIG NAME: AL Gabbert - Jones #12  
 WELL DATA: BIT SIZE 12 1/4 CSG/Liner Size 8 5/8  
 TOTAL LENGTH 530 WEIGHT 24  
 ROT  CABLE FOOTAGE 530  
 MUD TYPE NEW GRADE  
 BHST  BHCT THREAD BR  
 MUD DENSITY 143.90 LESS FOOTAGE SHOE JOINT(S)  
 MUD VISC. Disp. Capacity  
 NOTE: Include Footage From Ground Level To Head In Disp. Capacity

NAME Pan Eastern RELEASED  
 AND FEB 18 1991  
 ADDRESS FROM CONFIDENTIAL

SPECIAL INSTRUCTIONS

Cement 8 5/8 per customer's instructions  
(0.0637 BBL/FT CSG)

IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE 220 PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT 1500 PSI BUMP PLUG TO PSI  
 ROTATE        RPM RECIPROCATATE FT No. of Centralizers 2

Head & Plugs  TBG  D.P. SQUEEZE JOB  
 Double SIZE TYPE  
 Single  WEIGHT DEPTH  
 Swage  GRADE TAIL PIPE: SIZE DEPTH  
 Knockoff  THREAD TUBING VOLUME Bbls  
 TOP  R  W  NEW  USED CASING VOL. BELOW TOOL Bbls  
 BOT  R  W DEPTH TOTAL Bbls  
 ANNUAL VOLUME Bbls

TIME PRESSURE VOLUME PUMPED BBL JOB SCHEDULED FOR TIME 0300 DATE: 3/6 ARRIVE ON LOCATION TIME: 0300 DATE: 3/6 LEFT LOCATION TIME: 0830 DATE: 3/6/87

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								PRE-JOB SAFETY MEETING
0645								START Water Ahead
0710		0	3		5	H <sub>2</sub> O		START light weight (Tail in cem)
		0	33	3	5	CMT	15.3	START class H
		0	30	36	5	CMT	15.9	SHUT Down + Trip Top Plug
		0		66	0			Start Displacement
0745		500		98	0			Plug Down + Bumped + Shutdown Rig Down

RECEIVED  
 STATE CONSERVATION COMMISSION  
 FEB 18 1991  
 CONSERVATION DIVISION  
 Wichita, Kansas

REMARKS pH = 6.5 Temp = 49 °F Annular Volume = 39 Bbls

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	160	1.13	DS Tail in + 2% S1 + 1/4 16/sk Flake		32	15.3
2.	150	1.05	Premium + 3% S1 + 1/4 16/sk Flake		28	16.4
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. 500 MIN: 0  
 HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf:  YES  NO 25 Bbls.  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 32 Bbls TYPE  OIL  STORAGE  BRINE WATER  
 Washed Thru Perfs  YES  NO TO FT MEASURED DISPLACEMENT  WIRELINE WELL  GAS  INJECTION  WILDCAT  
 PERFORATIONS CUSTOMER REPRESENTATIVE DS SUPERVISOR  
(Rig Foreman) Jim Barlow Gary E. McChesney

ORIGINAL

RELEASED

FEB 18 1991

FROM CONFIDENTIAL

Attachment

API NUMBER: 15-189-21,004  
Armstrong "B" No. 2H  
Approx. C NW  
Section 25-32S-39W  
Stevens County, Kansas

FORMATION

Blaine  
Cedar Hills  
Stone Corral  
Chase  
Council Grove  
TD

TOP

1138  
1258  
1683  
2450  
NA

BOTTOM

1226  
1420  
1720  
NA  
NA  
2810

RECEIVED  
STATE OF KANSAS COMMISSIONER OF

FEB 18 1991

CONSERVATION DIVISION  
Topeka, Kansas