

ORIGINAL

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

API NO. 15- 109-20,432 - 00-01

County Logan
N2
110°N- SW - SW - SW Sec. 26 Twp. 11S Rge. 33 X E W

440' 454 Feet from S/N (circle one) Line of Section

4950' 5000 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 Bertrand "E" Well # 2

Field Name Hubert Ext.

Producing Formation Injection Well

Elevation: Ground 3100' KB 3105'

Total Depth 4679' PBDT 4602

Amount of Surface Pipe Set and Cemented at 203 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set DV tool at 1706' Feet

If Alternate II completion, cement circulated from 1706'

feet depth to surface w/ 550 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

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.

Operator: License # 5393

Name: A.L. Abercrombie, Inc.

Address 150 N. Main, Suite #801

City/State/Zip Wichita, KS 67202

Purchaser:

Operator Contact Person: Steve Frankamp

Phone (316) 262-1841

Contractor: Name: R&C Drilling Co., Inc.

License: 9087

Wellsite Geologist: Thomas Funk

Designate Type of Completion
 New Well Re-Entry X Workover

 Oil SWD SIOW Temp. Abd.
 Gas X ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: A.L. Abercrombie, Inc.

Well Name: Bertrand "E" #2

Comp. Date 01-29-87 Old Total Depth 4680

 Deepening Re-perf. X Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No.
 Dual Completion Docket No.
X Other (SWD or Inj?) Docket No. E-27-393

01-17-87 01-29-87 05-30-97
Spud Date Date Reached TD Completion Date

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 Steve Frankamp

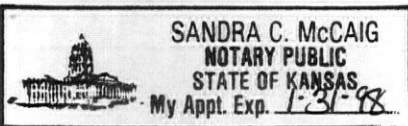
Title Steve Frankamp, Executive Vice-President Date 06-11-97

Subscribed and sworn to before me this 10th day of July, 19 97.

Notary Public Sandra C. McCaig

Date Commission Expires 1-31-98

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



SIDE TWO

Operator Name A.L. Abercrombie, Inc. Lease Name Bertrand "E" Well # 2

Sec. 26 Twp. 11S Rge. 33 East West
 County Logan

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SEE ATTACHED SHEET	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E.Logs Run:	Great Guns RA Guard, Great Guns Correlation, Log Tech Cement Bond Log		

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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 1/4"	8 5/8"	20#	203	60/40 pos	140	3% ca oil 6% gel
Production	7 7/8"	4 1/2	10.5	4677	common	180	D-29 5% oil/sack
DV Tool				1706	Lite	550	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3772/4602	Common	200 sx	None

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	
	4	4276-4278	500 gal 15% INS	4330
4	4200-4202	500 gal 15% INS	4214	
4	4117-4120	1500 gal 15% INS	4140	

TUBING RECORD		Size Seal/ite	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8"	3803'	3803'	
Date of First, Resumed Production, SWD or Inj.			Producing Method <input 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	Mcf	Water Bbls. Gas-Oil Ratio Gravity

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

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

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

**Bertrand "E" #2
110'N SW SW SW
Section 26-11S-33W
Logan County, Kansas**

Drill Stem Tests Taken:

DST #1: (4034-4105) 30-45-45-60; 40' OSM, 120' Mud; IFP 89-95#; FFP 116-122#; ISIP 1286# FSIP 1247#

DST #2: (4107-4130) 30-45-45-60; 520' CGO, 180' HCMGO; IFP 109-128#; FFP 217-296#; ISIP 1270# FSIP 1227#

DST #3: (4176-4210) 30-45-45-60; 70' GIP, 50' GOCM; IFP 77-80#; FFP 83-83#; ISIP 787# FSIP 803#

DST #4: (4210-4260) 30-30-30-30; 20' SOCM; IFP 65-65#; FFP 67-67#; ISIP 197# FSIP 79#

DST #5: (4260-4290) 30-45-45-60; 250' GIP, 30' CO, 120' OGCM, 60' MW; IFP 59-65#; FFP 93-108#; ISIP 1011# FSIP 990#

DST #6: (4541-4612) 30-45-45-60; GTS 20" into 2nd open, 60' OSGM, 120' HMCO, 120' SMCO, IFP 118-124#; FFP 178-186#; ISIP 306# FSIP 306#

Electric Log Tops:

Anhydrite	2586 (+519)
B/Anhydrite	2611 (+494)
Heebner	4003 (-898)
Lansing	4042 (-937)
Stark	4262 (-1157)
BKC	4341 (-1236)
Fort Scott	4515 (-1410)
Cherokee	4542 (-1437)
Johnson Zn	4587 (-1482)
Mississippian	4650 (-1545)
RTD	4680
LTD	4679

**RECEIVED
KANSAS CORP COMM
1997 JUL 11 P 12 42**

ALLIED CEMENTING CO., INC. 7357

REMIT TO P.O. BOX 31
 RUSSELL, KANSAS 67665

SERVICE POINT: DAKLEY

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
8-8-96					12:00PM	12:30PM	3:00PM
BERTLAND LEASE				WELL # E-2		LOCATION DAKLEY 6W-735	
						COUNTY	STATE
						LOGAN	KS

OLD OR NEW (Circle one)

CONTRACTOR LEON'S WELL SERVICE OWNER SAINS
 TYPE OF JOB SQUEEZE CEMENT

HOLE SIZE _____ T.D. _____
 CASING SIZE 4 1/2 DEPTH _____ AMOUNT ORDERED 2005# (100#)
 TUBING SIZE 2 3/4 DEPTH 3772'
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____ COMMON _____ @ _____
 MEAS. LINE _____ SHOE JOINT _____ POZMIX _____ @ _____
 CEMENT LEFT IN CSG. _____ GEL _____ @ _____
 PERFS. Hole 3816 - 3819' CHLORIDE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER TERRY
 # 191 HELPER WAYNE
 BULK TRUCK _____
 # 315 DRIVER DEAN
 BULK TRUCK _____
 # _____ DRIVER _____
 TOTAL _____

REMARKS:

PRESSURE PLUG 1500 PSI HELD
SET PACKER AT 3772' PRESSURE BACK
SIDE TO 500. TAKE RATE 4 GBL PER MIN AT
1000 PSI. MIX 2005# CEMENT AN SQUEEZE
TO WELL AND VACUUM. TOOK CEMENT
DOWN TO BOTTOM OF HOLE.
THANK YOU

SERVICE

DEPTH OF JOB 3772'
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG _____ @ _____
 TOTAL _____

CHARGE TO: A.L. ABERCROMBIE INC.
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE B.E. Sowles

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

6-11-97

Att: K.H. Noah

RECEIVED
 KANSAS CORP COMM
 1997 JUL 11 P 12:42

GREAT GUNS

Correlation Log

FILING NO. _____

COMPANY Petrex Inc. - Abercrombie

WELL Bertrand "E" No. 2

FIELD _____

COUNTY Logan STATE Missouri

Location 100' N of SW-SW-SW Other Services _____

Sec. 26 Twp. 11^s Rge. 33^w

Permanent Datum Ground Level Elev. 3100 Elev.: K.B. 3105

Log Measured From Kelly Bushing, 5 Ft. Above Perm. Datum O.F. --

Drilling Measured From Kelly Bushing G.L. 3100

Date	<u>2-10-87</u>	
Run No.	<u>005</u>	<u>006</u>
Type Log	<u>Gamma Ray</u>	<u>CLL</u>
Depth—Driller	<u>4680</u>	<u>4680</u>
Depth—Logger	<u>4647</u>	<u>4647</u>
Bottom Logged Interval	<u>4646</u>	<u>4648.5</u>
Top Logged Interval	<u>4000</u>	<u>4000</u>
Type Fluid In Hole	<u>Water</u>	
Salinity, PPM Cl		
Density		
Level	<u>4200'</u>	
Max. Rec. Temp., Deg F.		
Operating Rig Time	<u>1 hr.</u>	
Equip No. & Location	<u>59 Hays</u>	
Recorded By	<u>D. Yunker</u>	
Witnessed By	<u>B. Soles</u>	

RUN	BORE-HOLE RECORD				CASING RECORD			
	No.	Size	From	To	Size	Wgt.	From	To
<u>005</u>	<u>12 1/4"</u>		<u>00</u>	<u>210</u>	<u>8 3/8"</u>	<u>24</u>	<u>00</u>	<u>206</u>
<u>TWO</u>	<u>7 1/2"</u>		<u>210</u>	<u>4680</u>	<u>4 1/2"</u>	<u>10.5</u>	<u>00</u>	<u>N.A.</u>

GREAT GUNS
LOGGING
DIGITAL LOG

R. A. GUARD
LOG

COMPANY: PETEX INC. - ABERCROMBIE
WELL: BERTRAND "E" # 2
FIELD:
COUNTY: LOGAN

FILE NO.: H-053271
STATE: KANSAS
COUNTRY: USA

LOCATION: 110' N OF SW SW SW

SEC: 26 TWP: 11S RGE: 33W

DATE: 1/28/87
RUN NO.: 1

PERMANENT DATUM: GL
DRILLING MEASURED FROM: KB
LOG MEASURED FROM: KB
ABOVE PERMANENT DATUM: 5.0

DEPTH--DRILLER: 4680.0
DEPTH--LOGGER: 4679.0
BOTTOM LOG INTERVAL: 4690.3
TOP LOG INTERVAL: 0

CASING DEPTH--DRILLER: 210.0
CASING DEPTH--LOGGER: 206.0
CASING DIAMETER: 8.825
BIT SIZE: 7.875

UNIT NO.: 64
LOCATION: HAYS
RECORDED BY: D. LEGLEITER
WITNESSED BY: THOMAS J. FUNK

ELEVATIONS:
KB: 3105.0
DF: 0
GL: 3100.0

SERVICES:
GR
ENPG

RECEIVED
KANSAS CORP COMM
FEB 26 11:05

SOFTWARE VERSION:
314D



Ph: (913) 625-3858

Sonic Cement Bond Log

File No.	Company A.L. Abercrombie, Inc.		Well Bertrand "E" #2		Field		County Logan		State Kansas	
	Location SW SW SW							Other Services		
	Sec: 26		Twp: 11S		Rge: 33W		Elevation			
Permanent Datum	Ground Level		Elevation 3100		Log Measured From		Kelly Bushing		5 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing						K.B. 3105		D.F. 3105	
							G.L. 3100			
Run Number	One									
Date Survey	2/18/1997									
Date Cementing	N/A									
Type Cementing Operation	Primary									
Depth Driller	4680									
Depth Logger	4600									
Logged Interval	3100 to 4600									
Casing Driller	4.5 @ TD									
Float Collar -- D.V. Tool	////		////							
Squeeze Depth	////									
Amount & Type Cement	////									
Amount & Type Admix	////									
Type Fluid In Hole	Water & Oil									
Fluid Level	2300									
Salinity PPM CL	////									
Weight lb/gal -- Vis.	////		////							
Approx. Logged Cement Top	3296									
Calculated Cement Top	////									
Max. Hole Temperature	124									
Tool No.	6									
Spacing Recorded	4'									
Equipment -- Location	007		Hays							
Recorded By	D. Legleiter									
Witnessed By	Portable Mast									

RECEIVED
 TO KANSAS
 @ 1:05
 FEB 26 1997
 CDMM

77-0

RECEIVED
KANSAS CORP COMM
1997 MAR -4 D 11:28

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR A.L. Abercrombie & Petex, Inc
 LEASE #2 Bertrand 'E' WELL NO. _____
 FIELD Hubert Ext.
 LOCATION 110' N / SW SW SW
 SEC. 26 TWSP. 11S RNG. 33W
 COUNTY Logan STATE KS

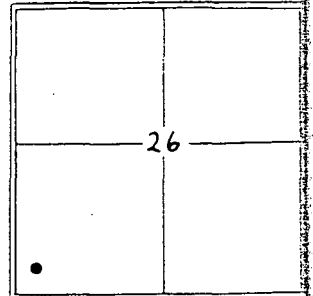
ELEVATIONS
 KB 3105
 DF 3103
 GL 3100
 MEASUREMENTS ARE A
 FROM K8

CONTRACTOR R.C. Drilling, Inc. Rig #2
 COMM. 1/17/87 COMP. 1/28/87
 RTD 4680 LOG TO 4679
 SAMPLES SAVED FROM 3700 TO TD
 DRILLING TIME KEPT FROM 3700 TO TD
 SAMPLES EXAMINED FROM 3700 TO TD
 GEOLOGICAL SUPERVISION FROM 3804 TO TD
 MUD UP 3529 TYPE MUD Chemical - Drispac
 WELL SITE GEOLOGIST Thomas Funk

CASING RECORD
 SURFACE 8 5/8" at 209
W/140 sks
 PRODUCTION 4 1/2" at

ELECTRICAL SURVEYS
Great Guns
RA Guard Log

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
Anhydrite	2586	(+519)	2589	(+516)	-6
B/Anhydrite	2611	(+494)	2615	(+490)	-6
Heebner	4003	(-898)	4005	(-900)	-2
Lansing	4042	(-937)	4043	(-938)	-3
Stark	4262	(-1157)	4266	(-1161)	-2
B/KC	4341	(-1236)	4345	(-1240)	-5
Marmaton	4359	(-1254)	4363	(-1258)	-6
Fort Scott	4515	(-1410)	4517	(-1412)	-5
Cherokee	4542	(-1437)	4546	(-1441)	-3
Johnson Zone	4587	(-1482)	4591	(-1486)	-6
Miss	4650	(-1545)	4653	(-1548)	-10
TD	4679	(-1574)	4680	(-1575)	



REFERENCE WELL FOR STRUCTURAL COMPARISON Abercrombie / Petex
#2 Wasse Miller N 1/2 S 1/2 SE sec 27, T.11S, R.33W, Logan, KS