

**1305 Commerce Street
Dallas 1, Texas**

REFERENCE No. A 400-A

LANE RADIOACTIVITY LOG WELLS

Location of Well	COMPANY: TEXAS-GULF PROD. CO.	LOCATION:	COMPANY: TEXAS-GULF PROD. CO.
	WELL: STATE B NO. 3 FILE:		WELL: STATE B NO. 3 FILE:
	FIELD: WEST VACUUM		FIELD: WEST VACUUM
	COUNTY: LEA STATE: N.M.		COUNTY: LEA STATE: N.M.
	LOCATION: 1989' FWL 660' FWL		
	SEC 32-17S-34E		
4083'DF			
LOG MEASURED FROM ROTARY TABLE ELEVATION 4084.5'			
DRILLING MEASURED FROM ROTARY T. ELEVATION 4084.5'			
PERMANENT DATUM @ 5/8" BRADEN H. ELEVATION 4073.00'			

	1	2
RUN NUMBER	GAMMA RAY	NEUTRON
TYPE OF LOG	APR. 25-49	APR. 25-49
DATE	4749'	4749'
COMPANY DEPTH	4749.5'	4749.5'
RACK	OIL	OIL
MAXIMUM DEPTH REACHED	FULL	FULL
WELL FLUID		
FLUID LEVEL		
MAXIMUM TEMPERATURE		
O.D. OF INSTRUMENT—INCHES	3 5/8	3 5/8
SENSITIVITY REFERENCE	274	275
RECORDED BY	KELLY	KELLY
WITNESSED BY	MICHAELSON	MICHAELSON

CASING RECORD				OPEN HOLE RECORD	
RUN NO.	SIZE IN.	WT. LB.	INTERVAL	BIT SIZE IN.	INTERVAL
2	5 1/8	LINER	1410' TO 4552'	4 3/4	4552' TO T.D.
			TO		TO
			TO		TO
			TO		TO
			TO		TO

REMARKS OR OTHER DATA:

GAMMA RAY

NEUTRON

CAS
COL
DEP

REPRODUCED BY
WEST TEXAS ELECTRICAL LOG SERVICE

1305 Commerce Street
Dallas 1, Texas

REFERENCE No. A 327-C

LANE RADIOACTIVITY LOG WELLS COMPANY

Location of Well 4066'DB 4067'RT	COMPANY: TEXAS-GULF PROD. CO.	LOCATION: COUNTY: T&A STATE: N.M. FIELD: WEST VACUUM WELL: STATE C NO. 1 FILE
	WELL: STATE C NO. 1 FILE:	
	FIELD: WEST VACUUM	
	COUNTY: T&A STATE: N.M.	
	LOCATION: 1980' FSL 660' FEL SE/4 OF SEC 32-17S-34E	

LOG MEASURED FROM ROTARY TABLE ELEVATION 4067'
DRILLING MEASURED FROM ROTARY T. ELEVATION 4067'
PERMANENT DATUM 7 5/8" BRADEN H. ELEVATION 4053.2'

RUN NUMBER	1	1		
TYPE OF LOG	GAMMA RAY	NEUTRON		
DATE	JAN 21-48	JAN 21-48		
COMPANY DEPTH	4710'	4710'		
MAXIMUM DEPTH REACHED	4713.5'	4713.5'		
WELL FLUID	OIL	OIL		
FLUID LEVEL	FULL	FULL		
MAXIMUM TEMPERATURE				
O.D. OF INSTRUMENT—INCHES	3 5/8"	3 5/8"		
SENSITIVITY REFERENCE	274	275		
RECORDED BY	MORRIS	MORRIS		
WITNESSED BY	GREEN	GREEN		

CASING RECORD				OPEN HOLE RECORD			
RUN NO.	SIZE—IN.	WT.—LB.	INTERVAL	RUN NO.	SIZE—IN.	WT.—LB.	INTERVAL
1	7 5/8		SURF TO 2922.5'	1	4 3/4		4361' TO T.D.
2	5 1/2		28151 TO 4361'				TO
			TO				TO
			TO				TO
			TO				TO

REMARKS OR OTHER DATA

GAMMA RAY  RADIATION INTENSITY INCREASES	NEUTRON  RADIATION INTENSITY INCREASES
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REPRODUCED BY
WEST TEXAS ELECTRICAL LOG SERVICE

1305 Commerce Street
Dallas 1, Texas

REFERENCE No. A 410-D

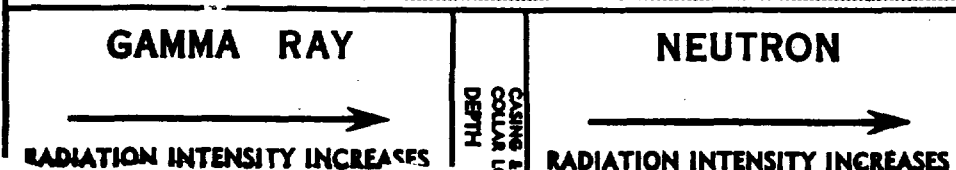
LANE RADIOACTIVITY LOG WE COMPANY

Location of Well	COMPANY: TEXAS-GULF PROD. CO.	LOCATION:	COUNTY: IEA	FIELD: VACUUM	WELL: STATE C NO. 3	FILE:
	WELL: STATE C NO. 3					
	FIELD: VACUUM					
	COUNTY: IEA					
	LOCATION: 1980' FS&WL 380 38,					
EL. 4084' DP	T-178, R-34E	STATE: N.M.				
LOG MEASURED FROM TOP ROTARY ELEVATION 4085.5'						
DRILLING MEASURED FROM TOP ROTARY ELEVATION 4085.5'						
PERMANENT DATUM 8 5/8" BH ELEVATION 4075.15'						

RUN NUMBER	1	1		
TYPE OF LOG	GAMMA RAY	NEUTRON		
DATE	MAY 20-48	MAY 20-48		
COMPANY DEPTH	4738'	4738'		
MAXIMUM DEPTH REACHED	4743'	4743'		
WELL FLUID	OIL	OIL		
FLUID LEVEL	FULL	FULL		
MAXIMUM TEMPERATURE				
O.D. OF INSTRUMENT—INCHES	3 5/8	3 5/8		
SENSITIVITY REFERENCE	274	275		
RECORDED BY	RUNION	RUNION		
WITNESSED BY	MICHAELSON	MICHAELSON		

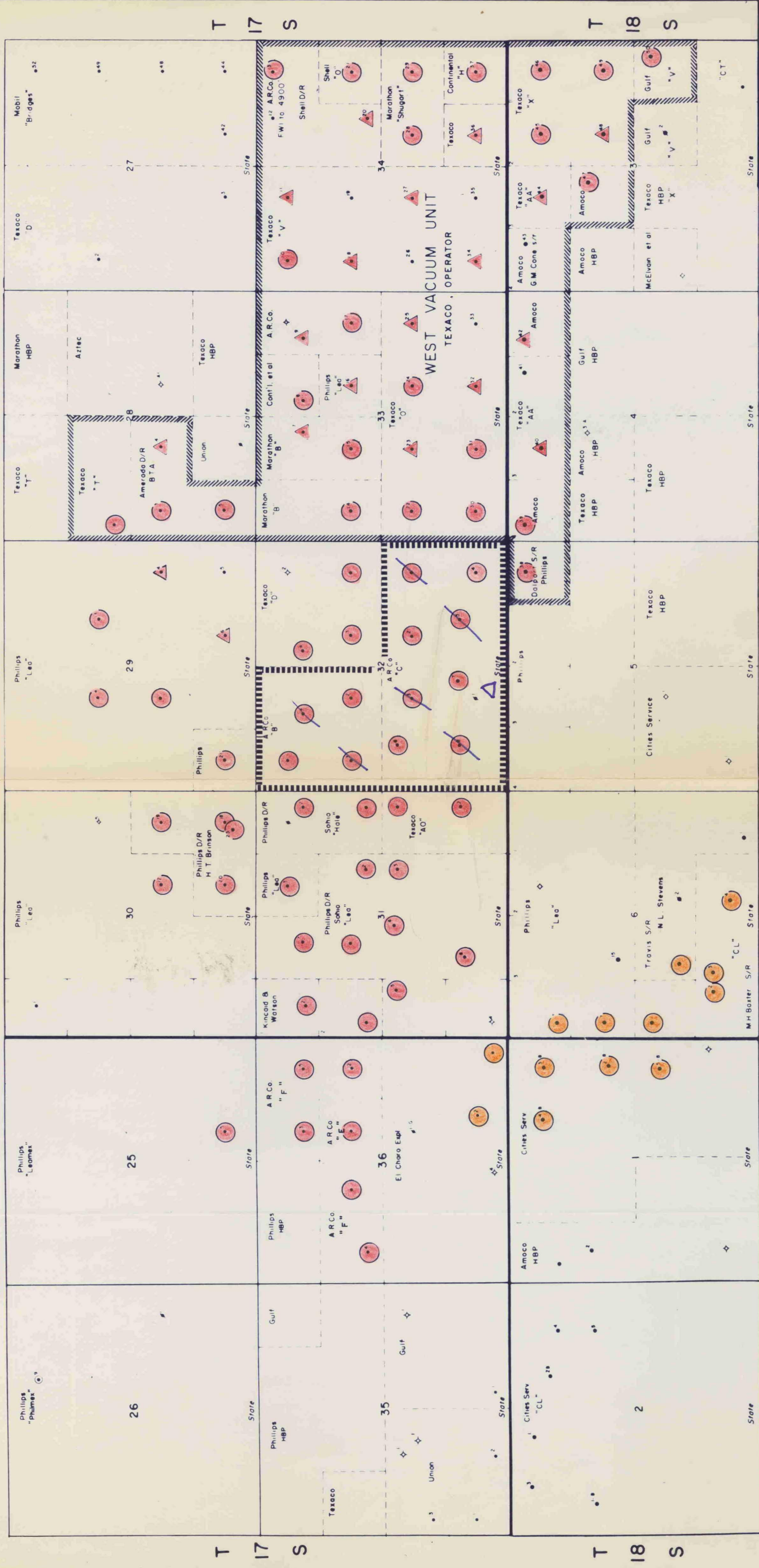
CASING RECORD				OPEN HOLE RECORD			
RUN NO.	SIZE—IN.	WT.—LB.	INTERVAL	BIT SIZE—IN.	INTERVAL		
1	8 5/8		SURF. TO 1484'	4 3/4	4500'	TO T.D.	
2	8 1/2	LINER	1484' TO 4500'			TO	
			TO			TO	
			TO			TO	
			TO			TO	

REMARKS OR OTHER DATA



R-33-E

R-34-E



L E G E N D

■■■■■■■■■■ BOUNDARY OF PROPOSED
STATE B & C WATERFLOOD

//// //// BOUNDARY OF WEST
VACUUM UNIT
TEXACO, OPERATOR

 SAN ANDRES PRODUCERS
 SAN ANDRES INJECTORS
 QUEEN PRODUCERS


Atlantic Richfield Company
North American Producing Division
Permian District, Midland Texas

VACUUM FIELD
Lea County, New Mexico
STATE B & C WATERFLOOD

SCALE: 1"=2000'	
R.M. MALAISE	10000
7-75	10000
WEST AREA ENGR.	10000

EXHIBIT 1

EXHIBIT "A"