



W.F

PRODUCING DEPARTMENT  
CENTRAL UNITED STATES  
MIDLAND DIVISION

PETROLEUM PRODUCTS

April 12, 1973

TEXACO INC.  
P. O. BOX 3109  
MIDLAND, TEXAS 79701

REQUEST FOR HEARING  
UNITIZATION AND WATERFLOOD  
NORTH BENSON QUEEN GRAYBURG POOL  
EDDY COUNTY, NEW MEXICO

*Case 4964*

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 88750

Attention: Mr. A. L. Porter  
Secretary Director

Gentlemen:

Texaco Inc. respectfully requests that evidence be considered at the Examiner Hearing in Santa Fe, New Mexico for an application to:

1. Unitize 1800 acres, more or less, in the North Benson Queen Grayburg Pool.
2. Initiate waterflood operations.
3. Expand the proposed Unit area and to drill and/or convert additional wells in the proposed Unit area without notice and hearing subject to administrative approval by the Commission.

The proposed Unit area is comprised of:

Section 27: W 1/2 and SW 1/4 NE 1/4 and SW 1/4 SE 1/4  
Section 28: S 1/2 and S 1/2 NE 1/4 and E 1/2 NW 1/4  
Section 29: SE 1/4 and E 1/2 SW 1/4 and SE 1/4 NW 1/4  
Section 31: NE 1/4 NE 1/4  
Section 32: NW 1/4 and NE 1/4 SW 1/4  
Section 33: N 1/2 NE 1/4 and SE 1/4 NE 1/4 and NE 1/4 SE 1/4  
Section 34: NW 1/4 and W 1/2 NE 1/4

All of Township 18 South, Range 30 East, Eddy County, New Mexico.

The proposed waterflood will consist of an 80-acre five-spot flood pattern. Injection will be into the Queen formation at an average depth of 2650 to 3250 feet. Injection will be down tubing with a packer set above the injection interval. Initial injection will be 380 barrels of water per day per well. Injection fluid will be fresh water purchased from a commercial water company.

DOCKET *MAILED*

Date 4-26-73


April 12, 1973

Attached is a plat of the proposed project area, a diagrammatic sketch of a typical injection well, and a list of offset operators. Detailed information supporting this application will be presented at the hearing.

A copy of this letter is being mailed to each offset operator, to the United States Geological Survey in Roswell, New Mexico, and the Commissioner of Public Lands in Santa Fe, New Mexico. The United States Geological Survey and Commissioner of Public Lands, have, by letters dated October 4, 1972 and October 16, 1972, respectively, approved the proposed North Benson Queen Unit Agreement as to form and content.

Yours very truly,

Darrell Smith  
Division Manager

By   
R. G. Brown  
Assistant to Division Manager

GRW/sl

Attachments

cc: United States Geological Survey

Commissioner of Public Lands

All Offset Operators (List Attached)

OFFSET OPERATORS

*Case 4464*

PROPOSED NORTH BENSON QUEEN UNIT  
NORTH BENSON QUEEN GRAYBURG POOL  
EDDY COUNTY, NEW MEXICO

Olen F. Featherstone  
1717 West 2nd Street  
Roswell, New Mexico 88201

Franklin, Aston & Fair, Inc.  
P. O. Box 1090  
Roswell, New Mexico 88201

PAN GEO ATLAS CORP.

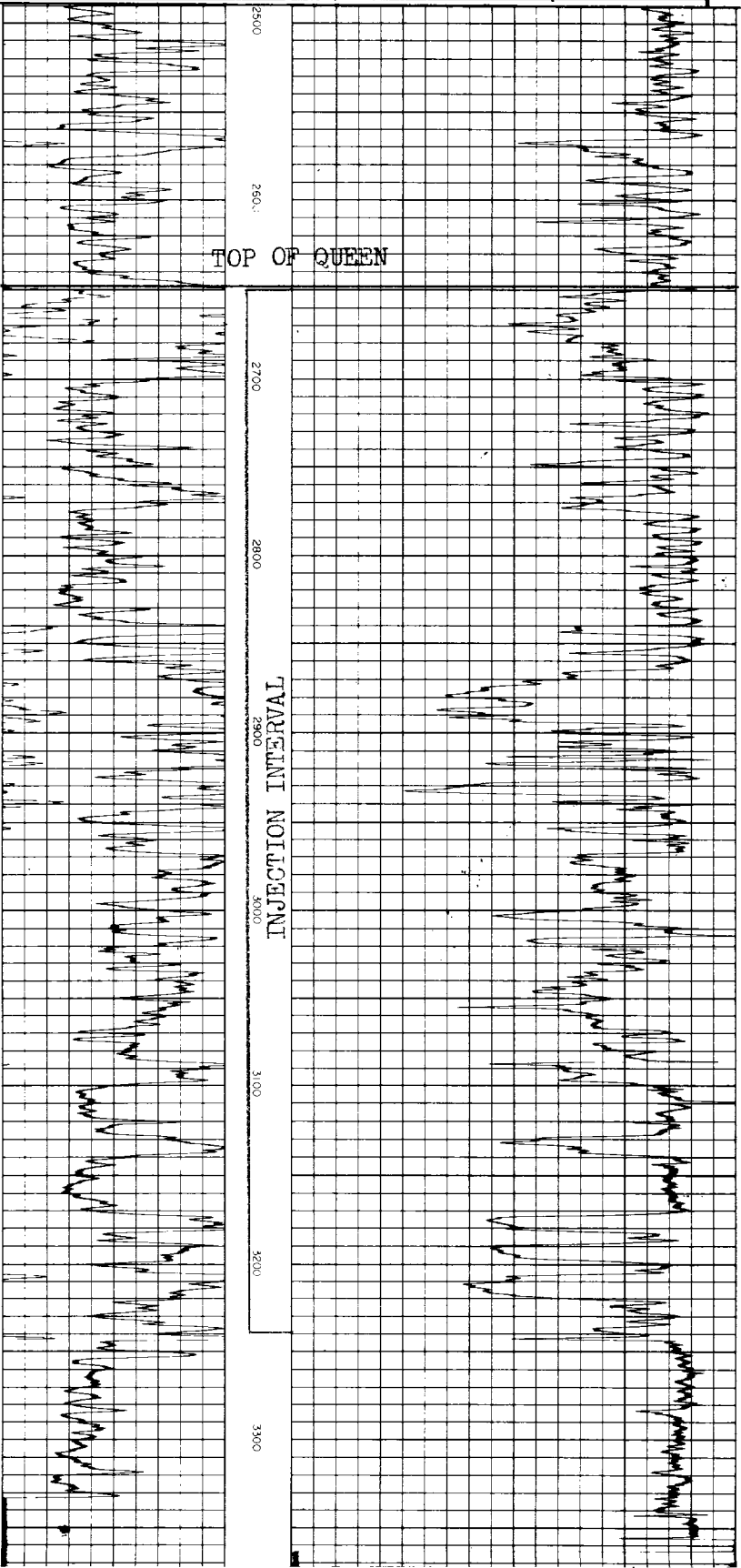
P G A C Acoustic-Gamma Ray Log

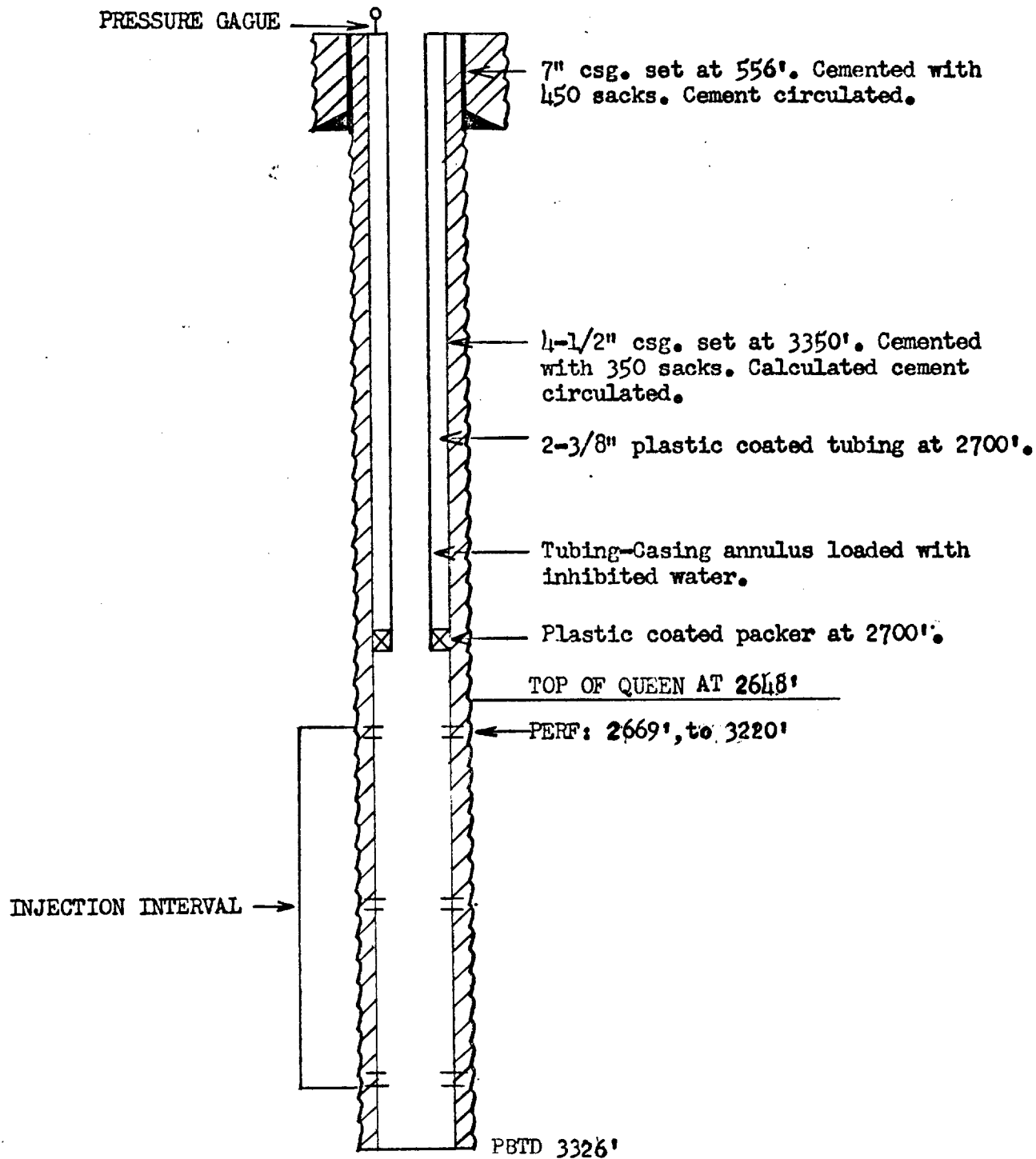
FILE NO.			
COMPANY	TEXACO INCORPORATED		
WELL	L.R. MANNING FEDERAL "B" (NOT-I) NO. 7		
FIELD	NORTH BENSON (QUEEN)		
COUNTY	LEA	STATE	NEW MEXICO
LOCATION:	1980' FSL & 1980' FWL		
Other Services			
SEC	28	TWP	18-S
		RGE	30-E

999 1/2  
8 ft 6  
89 m  
18 - 3.18

Permanent Datum	GROUND LEVEL	Elev.	34.23	Eligibility:
Log Measured from	K.B.	11' ft. Above Permanent Datum		K3 34.24
Drilling Measured from	K.B.			DF 34.23
				CL 34.23
Date	9/21/63			
Run No.	ONE			
Total Depth Driller	3350			
Total Depth RGAC	3349			
Bottom Logged Interval	3343			
Coring Driller	556			
Coring RGAC	-			
Footage Logged	3243			
Mud Type	SALT BASE			
Density				
Visc.	10.2	33		
Max. Temp. (°F)	95.0			
Rec. To Rec. Spacing	1'			
Trans. To Rec. Spacing	4'			
Logging Instrument	TEL B-20-15473-27-6381			
Equip. No.	EL-25 H0885			
Recorded By	CAREY			
Witnessed By	MR. DAWSON & MR. MORRISON			

BORE HOLE RECORD				CASINO RECORD			
Bit Size	From	To	Cir. Size	Cir. Wt.	From	To	
9 7/8	SURF.	556	7"	-	SURF.	556	
6 1/4		3350					





DIAGRAMMATIC SKETCH  
TYPICAL INJECTION WELL  
TEXACO INC.  
L.R. MANNING "B" (NCT-1) WELL NO. 7  
NORTH BENSON (QUEEN) POOL  
EDDY COUNTY, NEW MEXICO

*Case 4964*