



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 MASTER

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 4964

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

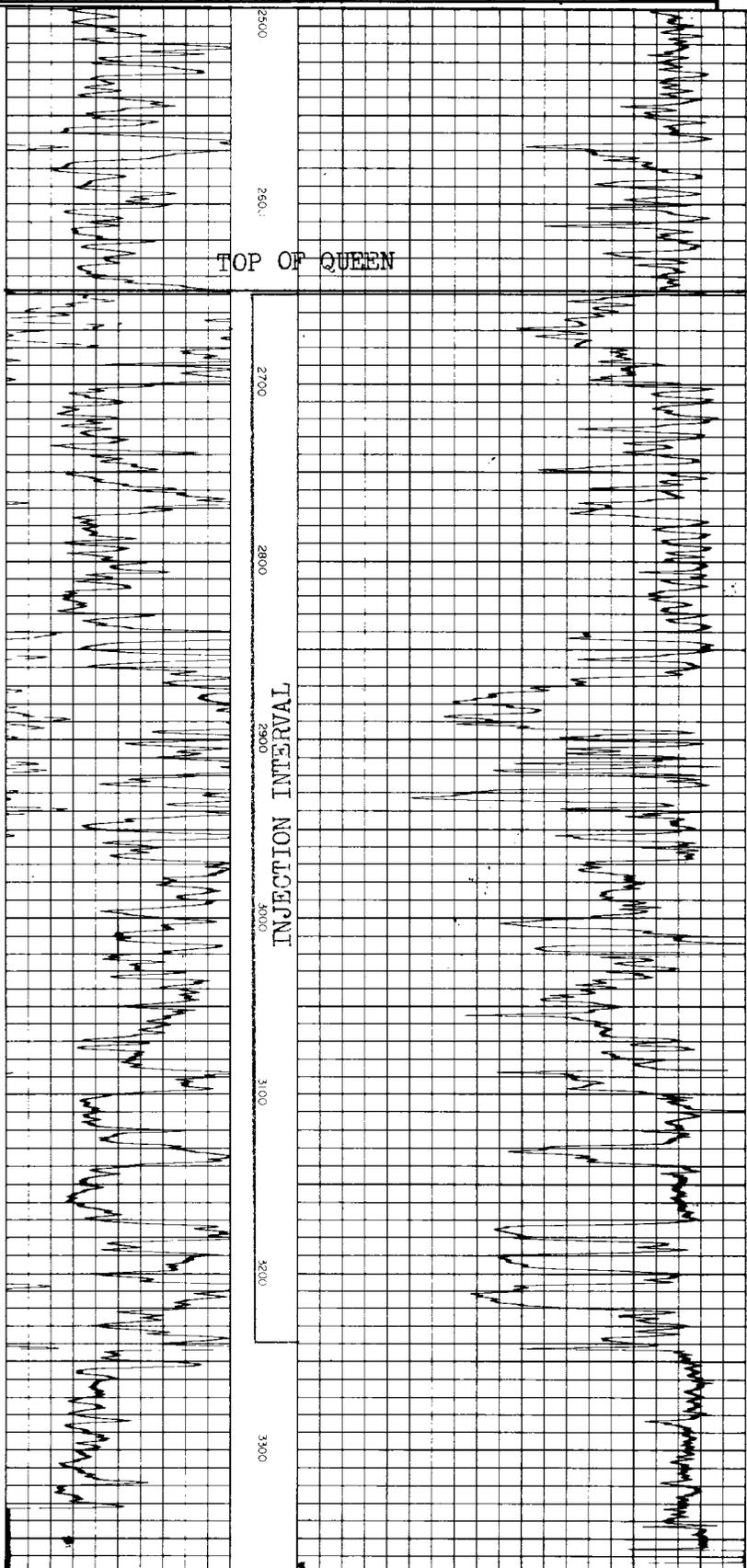
Olen F. Featherstone
1717 West 2nd Street
Roswell, New Mexico 88201

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

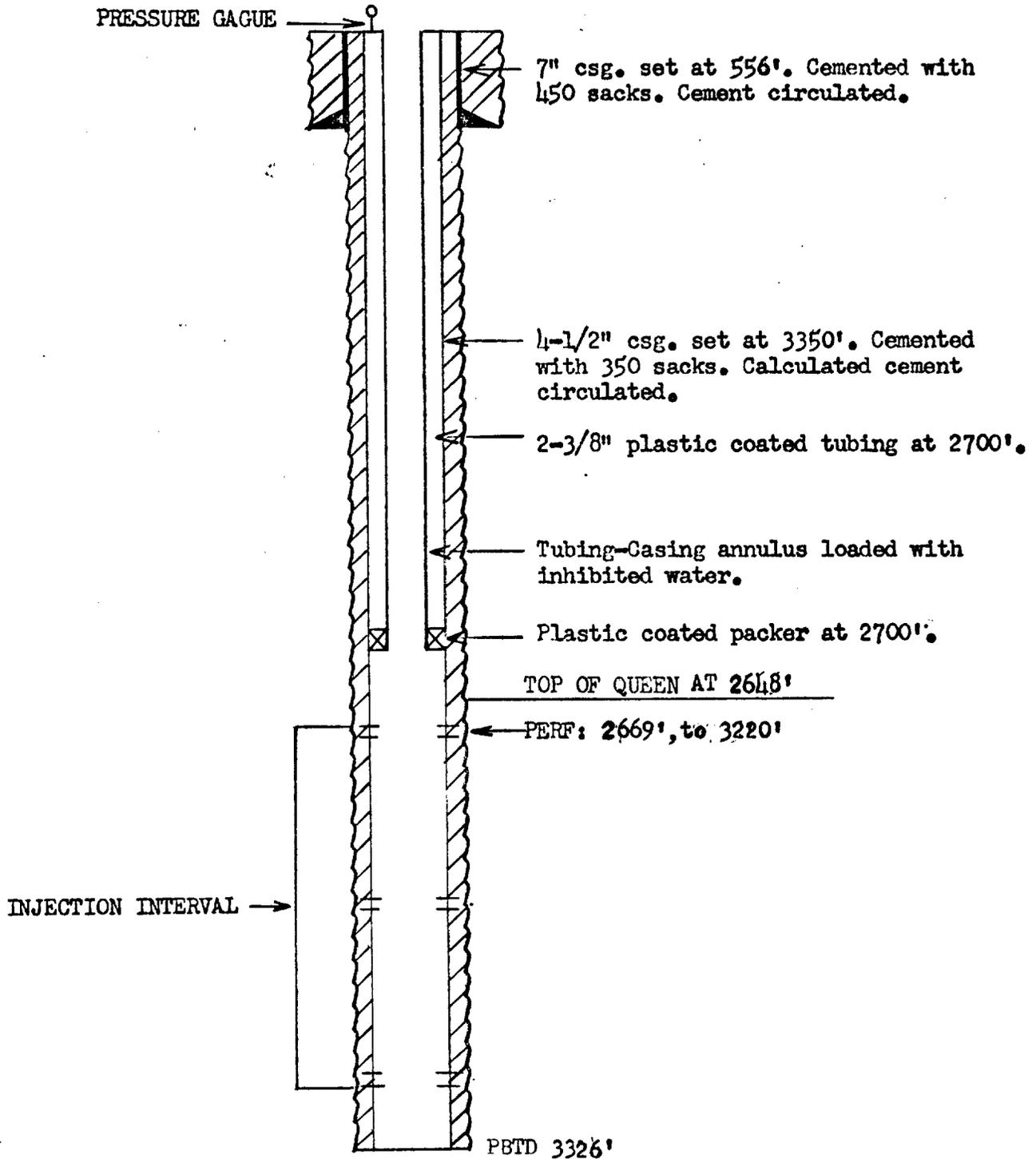
PAN GEO ATLAS CORP.
Acoustic-Gamma Ray Log

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
 9/21/63
 876
 897
 pg. 5. 1. 2

Date	9/21/63	Permanent Datum	GROUND LEVEL	Elev.	34.23	Log Measured from	K.B.	11' ft. Above Permanent Datum	Drilling Measured from	K.B.	
Run No.	ONE	Run No.	ONE	Run No.							
Total Depth Driller	3350	Total Depth Driller	3350	Total Depth Driller							
Total Depth RGAC	3343	Total Depth RGAC	3343	Total Depth RGAC							
Bottom Logged Interval	3343	Bottom Logged Interval	3343	Bottom Logged Interval							
Coring Driller	556	Coring Driller	556	Coring Driller							
Coring RGAC	556	Coring RGAC	556	Coring RGAC							
Footage Logged	32.43	Footage Logged	32.43	Footage Logged							
Mud Type	SALT BASE	Mud Type	SALT BASE	Mud Type							
Density	10.2	Density	10.2	Density	10.2	Density	10.2	Density	10.2	Density	
Visc.	33	Visc.	33	Visc.	33	Visc.	33	Visc.	33	Visc.	
Max. Temp. (°F)	95.0	Max. Temp. (°F)	95.0	Max. Temp. (°F)							
Rec. To Rec. Spacing	1'	Rec. To Rec. Spacing	1'	Rec. To Rec. Spacing							
From To Rec. Spacing	4'	From To Rec. Spacing	4'	From To Rec. Spacing							
Logging Instrument	TEL B-20-15173-27-63S1	Logging Instrument	TEL B-20-15173-27-63S1	Logging Instrument							
Equip. No.	EL-25 H0885	Equip. No.	EL-25 H0885	Equip. No.							
Recorded By	CAREY	Recorded By	CAREY	Recorded By							
Witnessed By	MR. DAWSON & MR. MORRISON	Witnessed By	MR. DAWSON & MR. MORRISON	Witnessed By	MR. DAWSON & MR. MORRISON	Witnessed By	MR. DAWSON & MR. MORRISON	Witnessed By	MR. DAWSON & MR. MORRISON	Witnessed By	
BORE HOLE RECORD		CASING RECORD		BORE HOLE RECORD		CASING RECORD		BORE HOLE RECORD		CASING RECORD	
Bit Size	9 7/8	From	556	To	556	From	556	To	556	From	556
Surf	6 1/4	From	3350	To	3350	From	3350	To	3350	From	3350



556



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