

**EXHIBIT 11**

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: QUAY VALLEY, INC.  
Address: P. O. BOX 10280, 1608 N. Big Spring, Midland, Texas 79702  
Contact party: Stella Swanson Phone: 915/687-4220
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ yes ☐ no  
If yes, give the Division order number authorizing the project R-4629.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any. None at this time.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. There are no water wells within one mile of any injection or disposal well.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Raymon D. Sharp Title President

Signature: Raymon D. Sharp Date: July 9, 1997

- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

## III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

## XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

# NEMU Injection Wells

**BEFORE THE  
OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico

Case No. 11826 Exhibit No. 11

Submitted by: Quay Valley, Inc.

Hearing Date: August 7, 1997

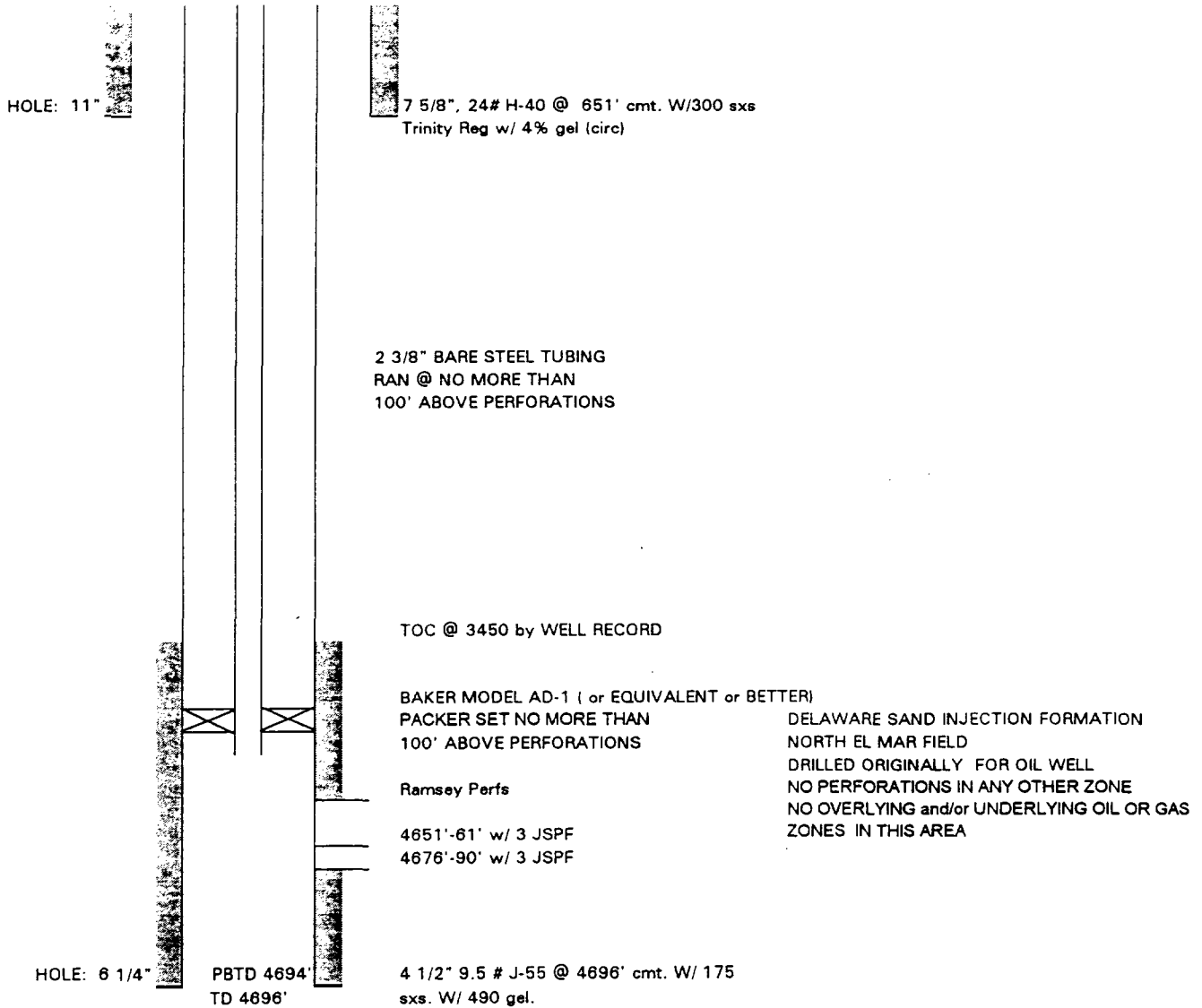
**QUAY VALLEY, INC**  
**North El Mar Unit #6**  
**FORMERLY CONTINENTAL OIL WILDER #9**  
(API# 30-025-082800)  
**PROPOSED CO2 INJECTION CONFIGURATION**

660' FNL & 2005' FEL  
Section 25, T-26-S, R-32-E  
Lea County, New Mexico

SPUD : 8/4/59 COMPLETION: 8/19/59  
Drilling comments:

KB: 11' AGL

Completion Comments:



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #6

Status	(WIWSI) Formerly: Wilder #9
County & State	Lea County, New Mexico
Spud Date:	08/04/59
Completion	08/19/59
Total Depth	4,696'
Surface Casing	7 5/8" @ 651' 300 sx TOC: Circ. to Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,696' 175 sx TOC: 3,450' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,651'-62'; 4,276'-90'
Packer Size & Type	Baker Model AD-1 (or equivalent or better). Packer set no more than 100' above perforations.
Bridge Plug, If one	

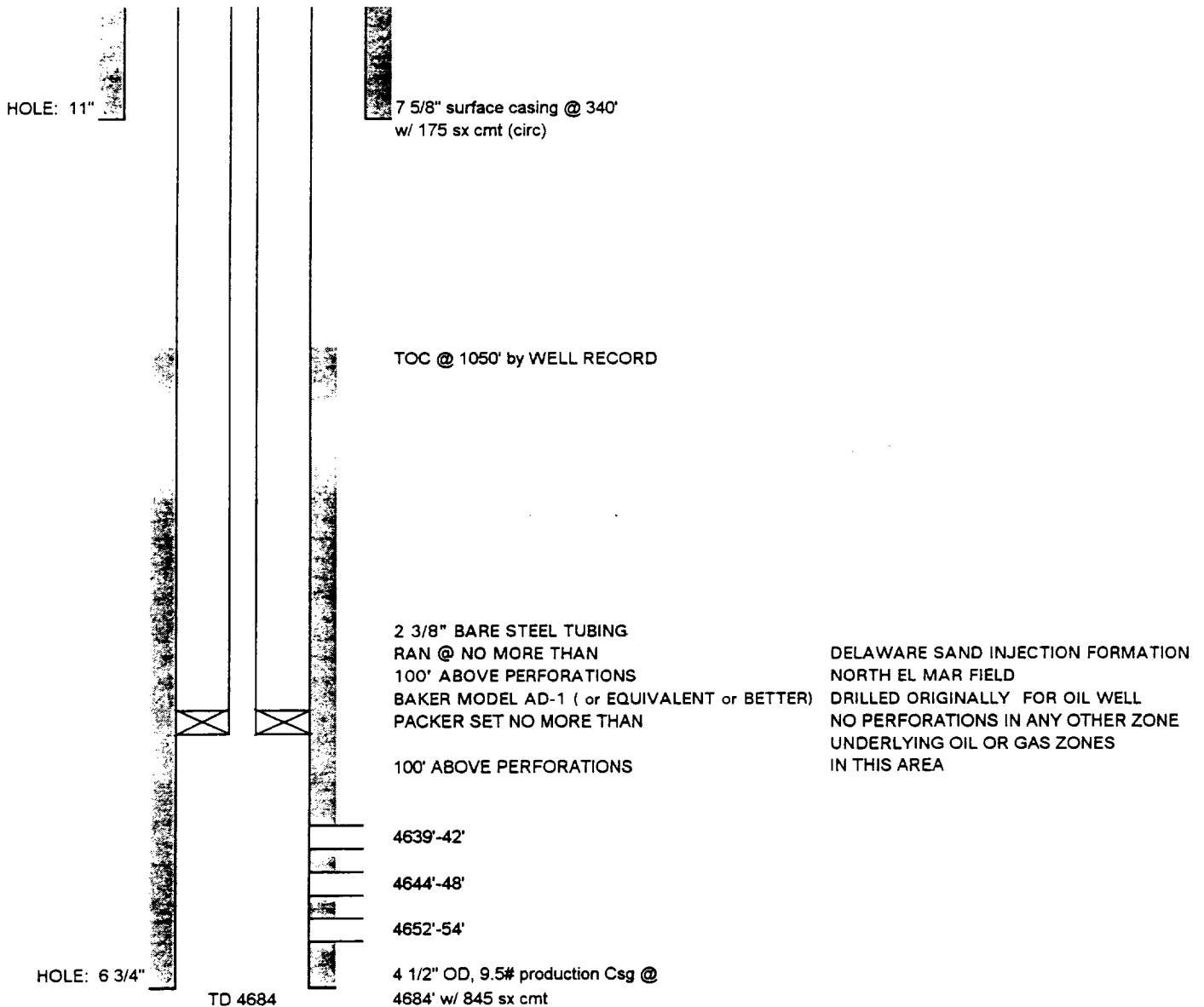
**QUAY VALLEY, INC**  
**North El Mar Unit #8**  
**FORMERLY CONTINENTAL OIL WILDER #23**  
 (API# 30-025-082870)  
**PROPOSED CO2 INJECTION CONFIGURATION**

990' FNL & 990' FWL  
 Section 25, T-26-S, R-32-E  
 Lea County, New Mexico

SPUD: 5/19/60 COMPLETION: 6/6/60  
**Drilling comments:**

GL: 3122 KB: 3133

**Completion Comments:**



**QUAY VALLEY, INC.**  
**JULY, 1996**

Bobby Gray/Gray Pumping  
915/943-4397

**NEMU #8**

Status	(WIWSI)	Formerly: Wilder #23
County & State	Lea County, New Mexico	
Spud Date:	05/19/60	
Completion	06/06/60	
Total Depth	4,684'	
Surface Casing	7 5/8" @ 340' 175sx	TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,684' 2,275 cu '	TOC: 1,050' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.	
Perforations	4,639'-42', 4,644'-48', 4,652'-54'	
Packer Size & Type	Baker Model AD-1 (or equivalent or better). Packer set no more than 100' above perforations.	
Bridge Plug, If one		

# QUAY VALLEY, INC

North El Mar Unit #12

FORMERLY CONTINENTAL OIL WILDER #21

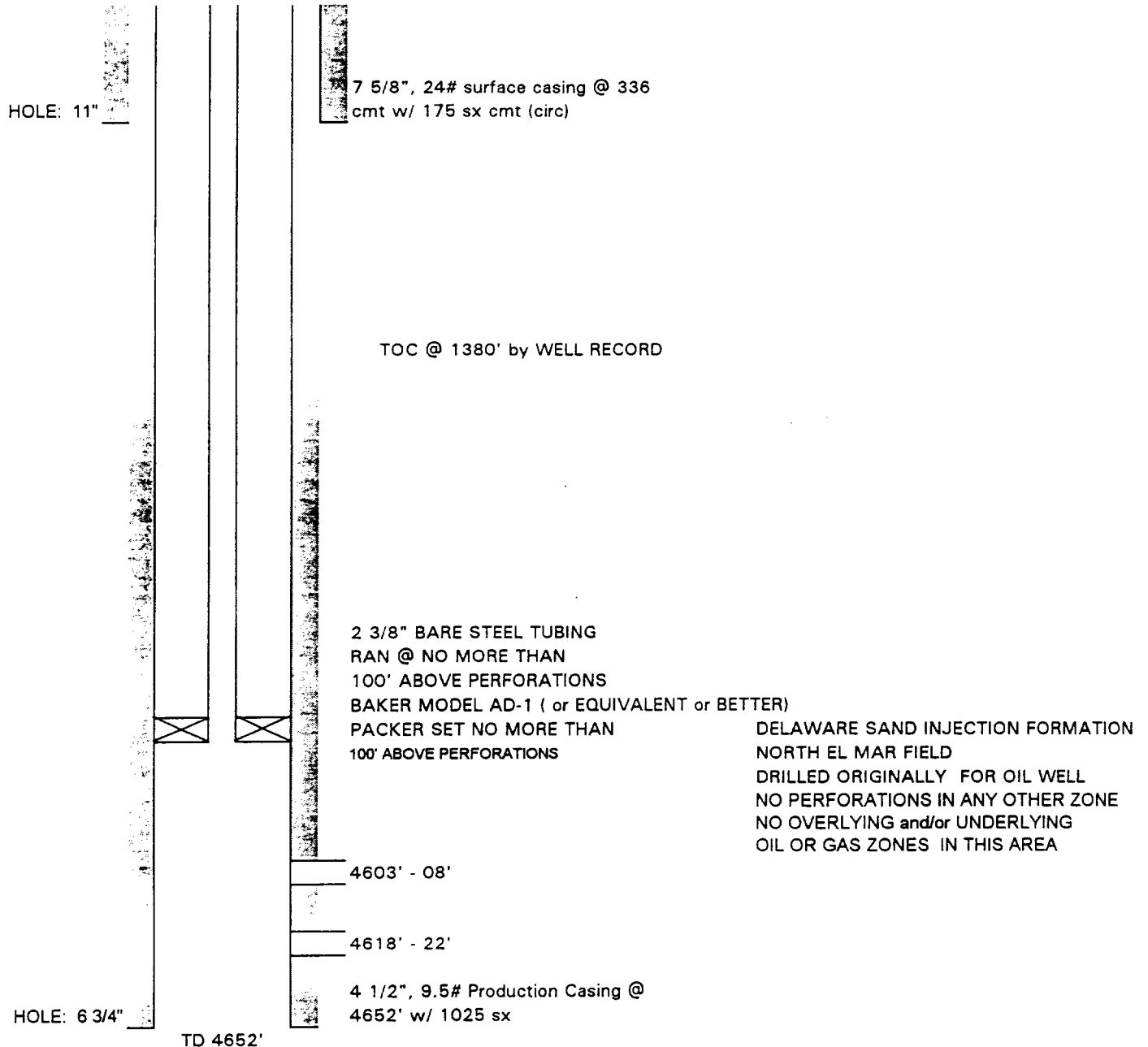
(API# 30-025-082940)

1980' FNL & 660' FEL  
ection 26, T-26-S, R-32  
Lea County, New Mexico  
Unit H,  
3110' GL 3121'DF

SPUD: 4/29/60 COMPLETION: 5/16/60

Drilling comments:

Completion Comments:



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #12

Status	(WIWSI) Formerly: Wilder #21
County & State	Lea County, New Mexico
Spud Date:	04/29/60
Completion	05/16/60
Total Depth	4,652'
Surface Casing	7 5/8" @ 336' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,652' 1025 sx TOC: 1,380' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,603'-22'
Packer Size & Type	Baker Model AD-1 (or equivalent or better). Packer set no more than 100' above perforations.
Bridge Plug, If one	

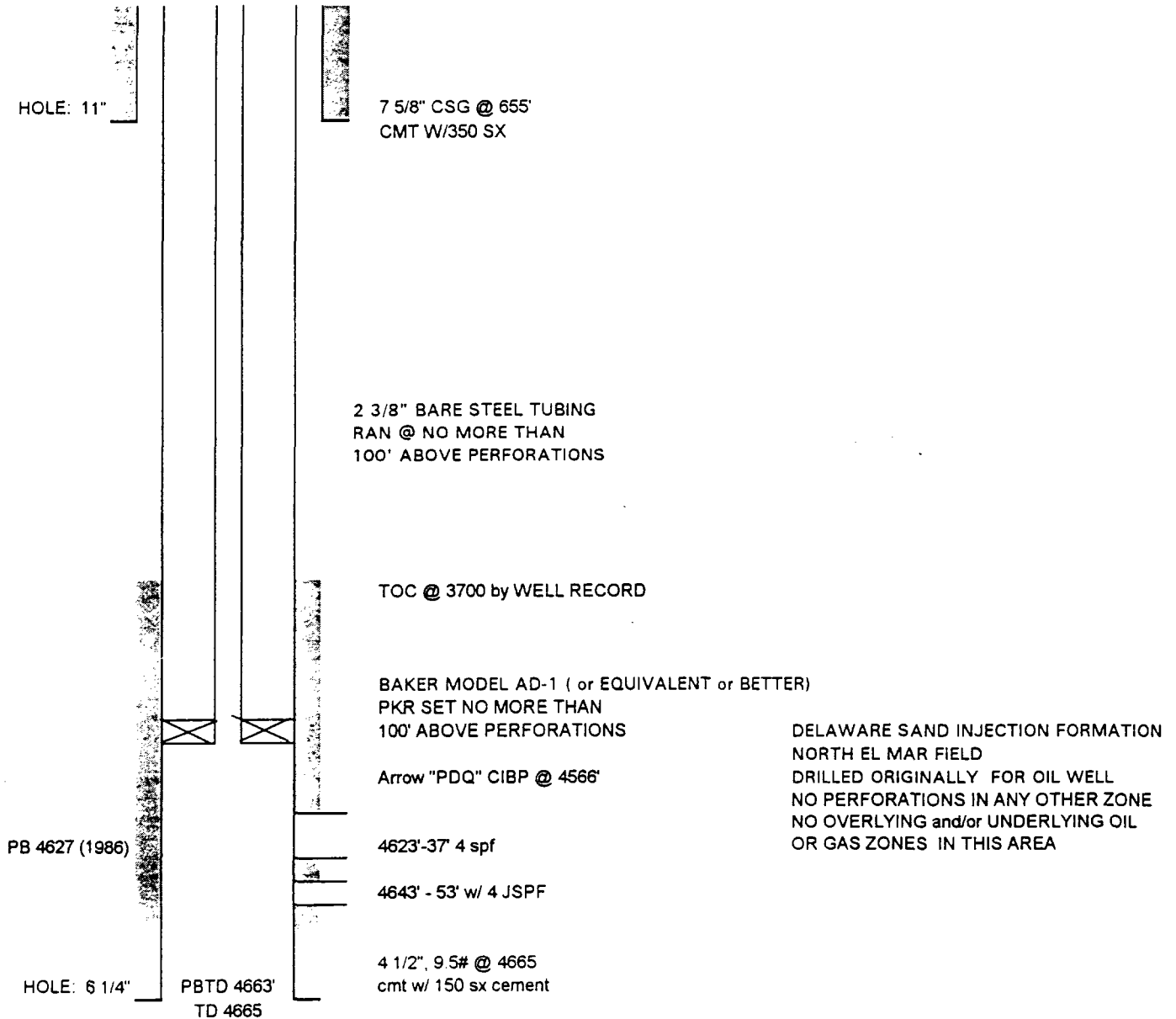
**QUAY VALLEY, INC**  
North El Mar Unit #14  
**FORMERLY CONTINENTAL OIL WILDER #6**  
(API# 30-025-082770)  
**PROPOSED CO2 INJECTION CONFIGURATION**

1980' FNL & 1980' FWL  
Section 25, T-26-S, R-32-E  
Lea County, New Mexico

SPUD: 7/1/59 COMPLETION: 7/11/59  
**Drilling comments:**

Elv 3124' GL 3135 KB

**Completion Comments:**



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

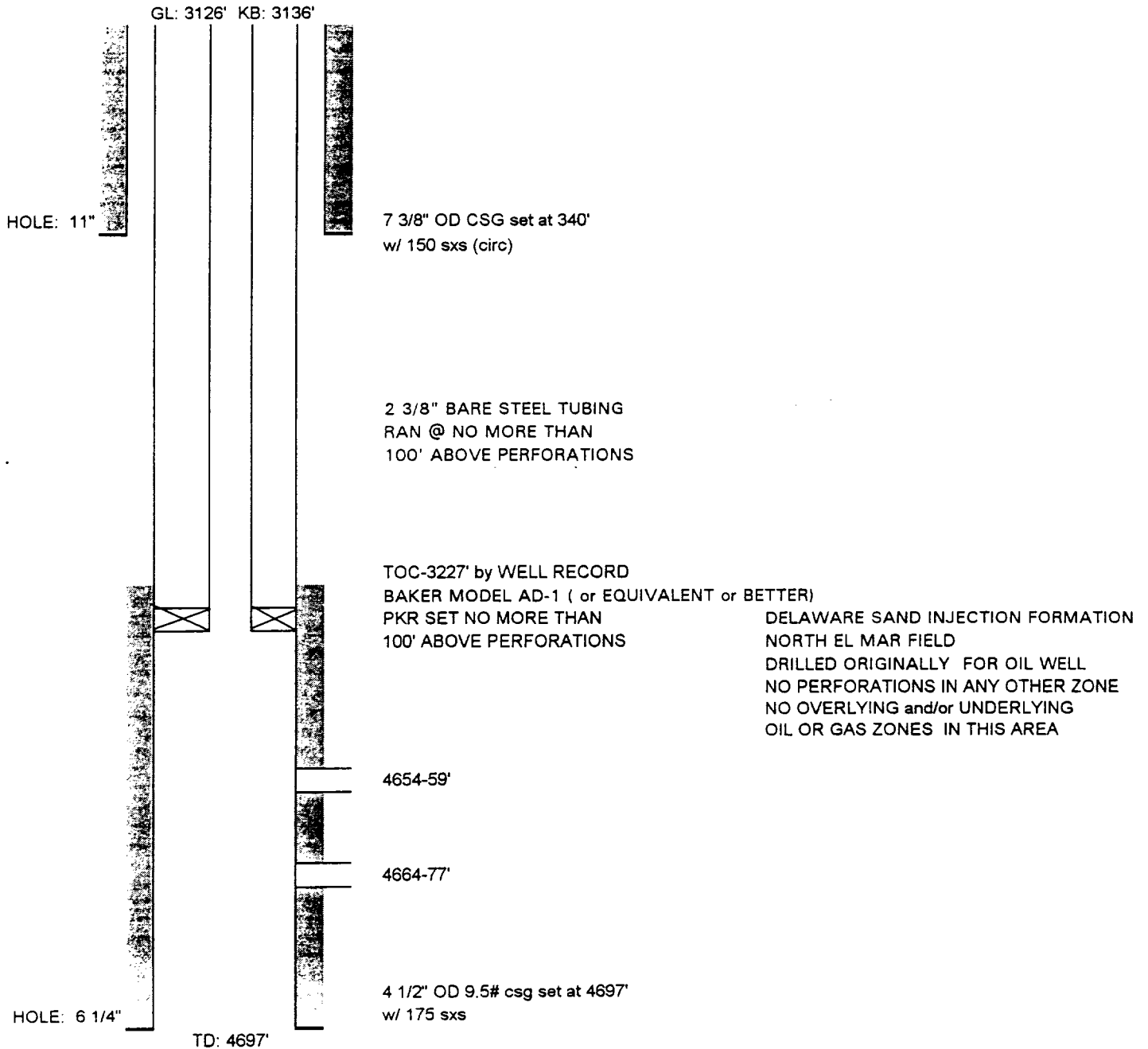
NEMU #14

Status	(WIWSI)	Formerly: Wilder # 6
County & State	Lea County, New Mexico	
Spud Date:	07/01/59	
Completion	07/11/59	
Total Depth	4,665'	
Surface Casing	7 5/8" @ 655' 350 sx	TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,655' 150 sx	TOC: 3,700' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.	
Perforations	4,623'-37', 4,643-53'	
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.	
Bridge Plug, If one		

**Quay Valley**  
North El Mar Unit #16  
**FORMERLY CONTINENTAL OIL WILDER #10**  
( API# 30-025-082810)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 8/16/59 Completion:  
8/25/59

1880' FNL & 660' FWL  
Section 30, Township 65 South, Range 33 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

**NEMU #16**

Status	(WIWSI) Formerly: Wilder #10
County & State	Lea County, New Mexico
Spud Date:	08/16/59
Completion	08/25/59
Total Depth	4,697'
Surface Casing	7 5/8" @ 340' 150 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,697' 175 sx TOC: 3,227' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations
Perforations	4,654'-59, 4,664'-77'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

# Quay Valley

North El Mar Unit #20

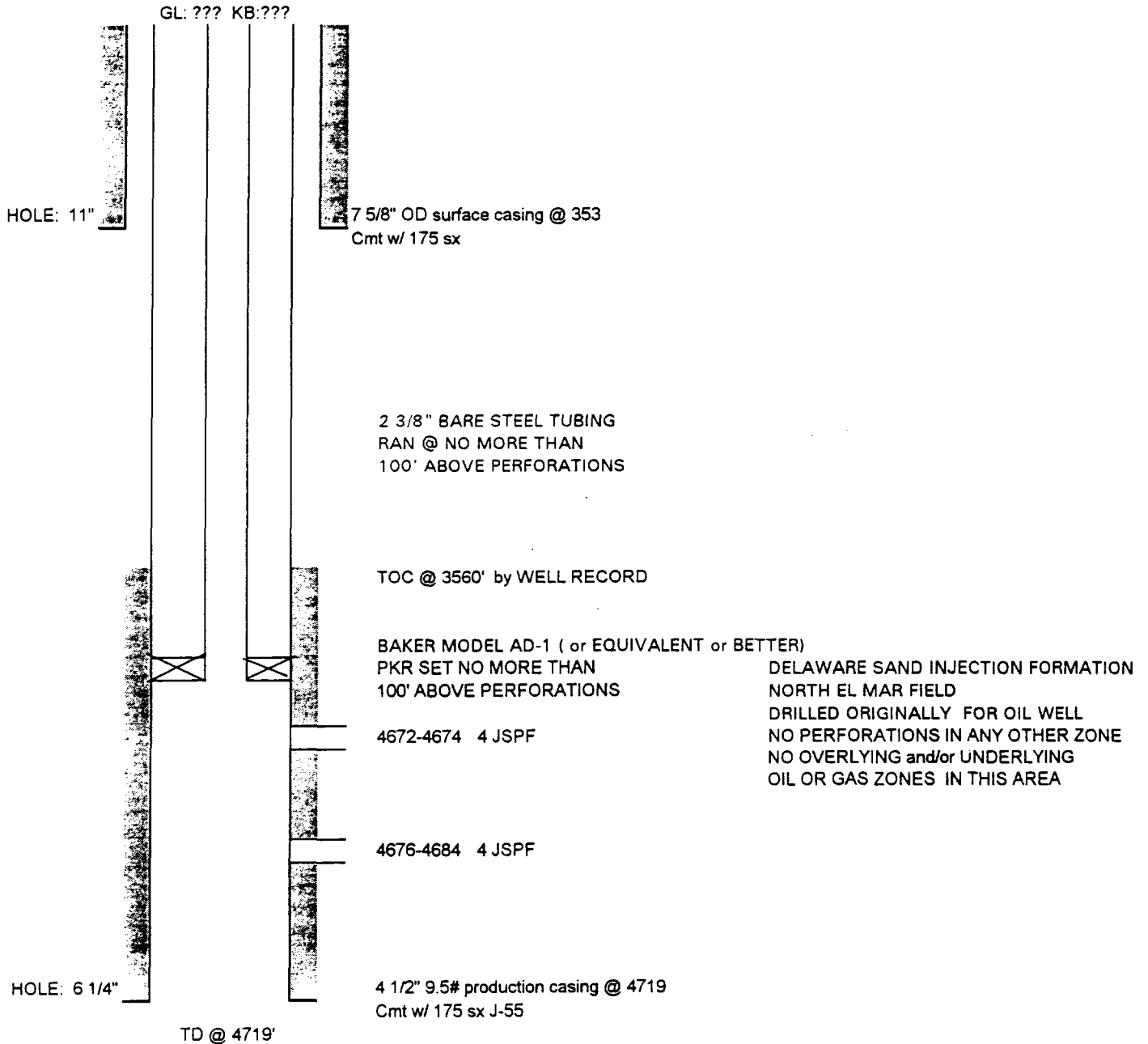
FORMERLY CONTINENTAL OIL PAYNE #3

(API# 30-025-084310)

PROPOSED CO2 INJECTION CONFIGURATION

Spud Date: 1/10/60 Completion: 1/20/60

1980' FNL & 660' FEL  
Section 30, Township 26 South, Range 33 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

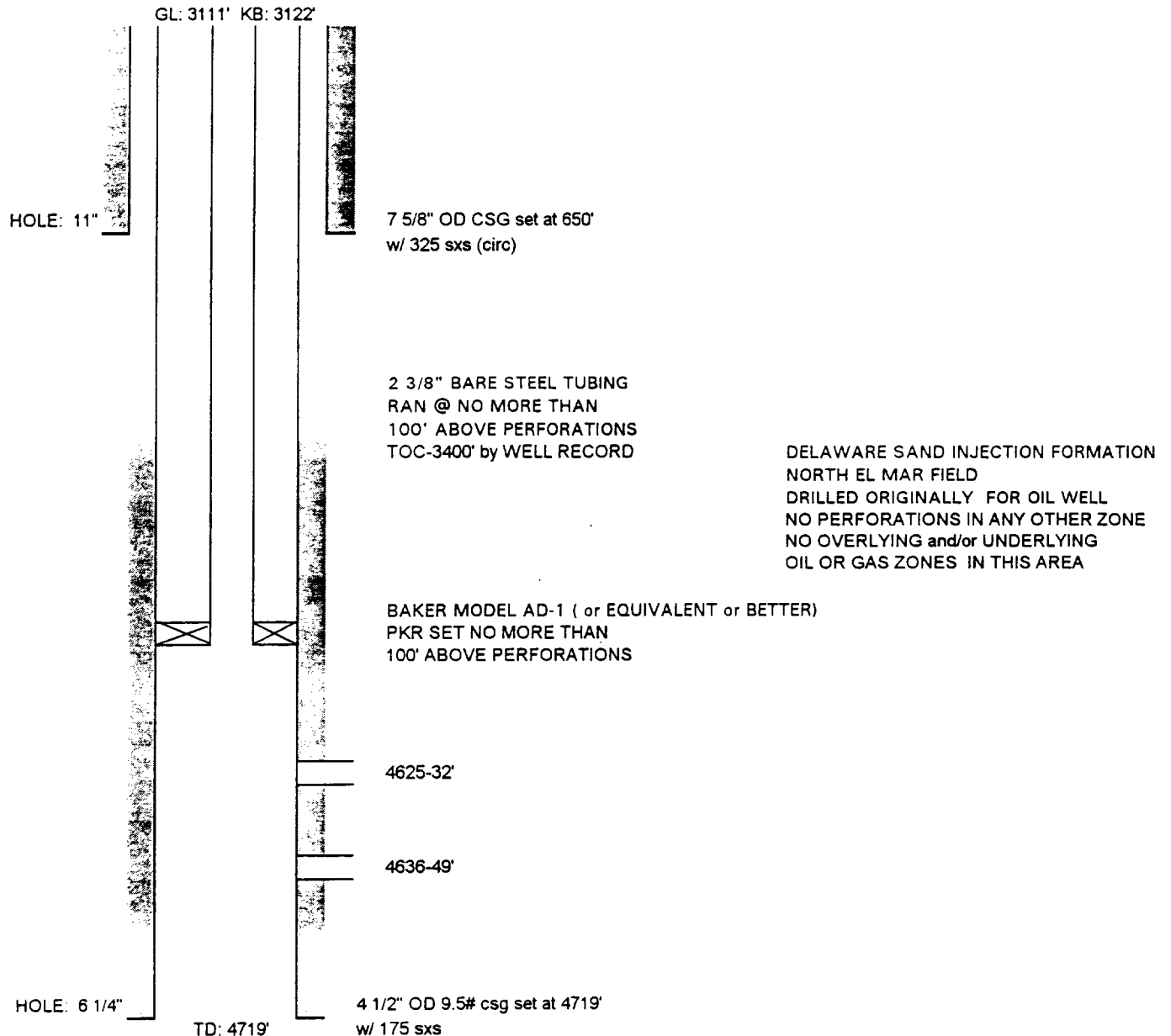
NEMU #20

Status	(WIWSI) Formerly: Payne #3
County & State	Lea County, New Mexico
Spud Date:	01/10/60
Completion	01/20/60
Total Depth	4,719'
Surface Casing	7 5/8" @ 353' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,719' 175 sx TOC: 3,560' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,672'-74', 4,676'-84'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #22  
**FORMERLY CONTINENTAL OIL WILDER #7**  
(API# 30-025-082780)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 7/12/59 Completion: 7/26/59

1980' FSL & 1980' FEL  
Section 25, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #22

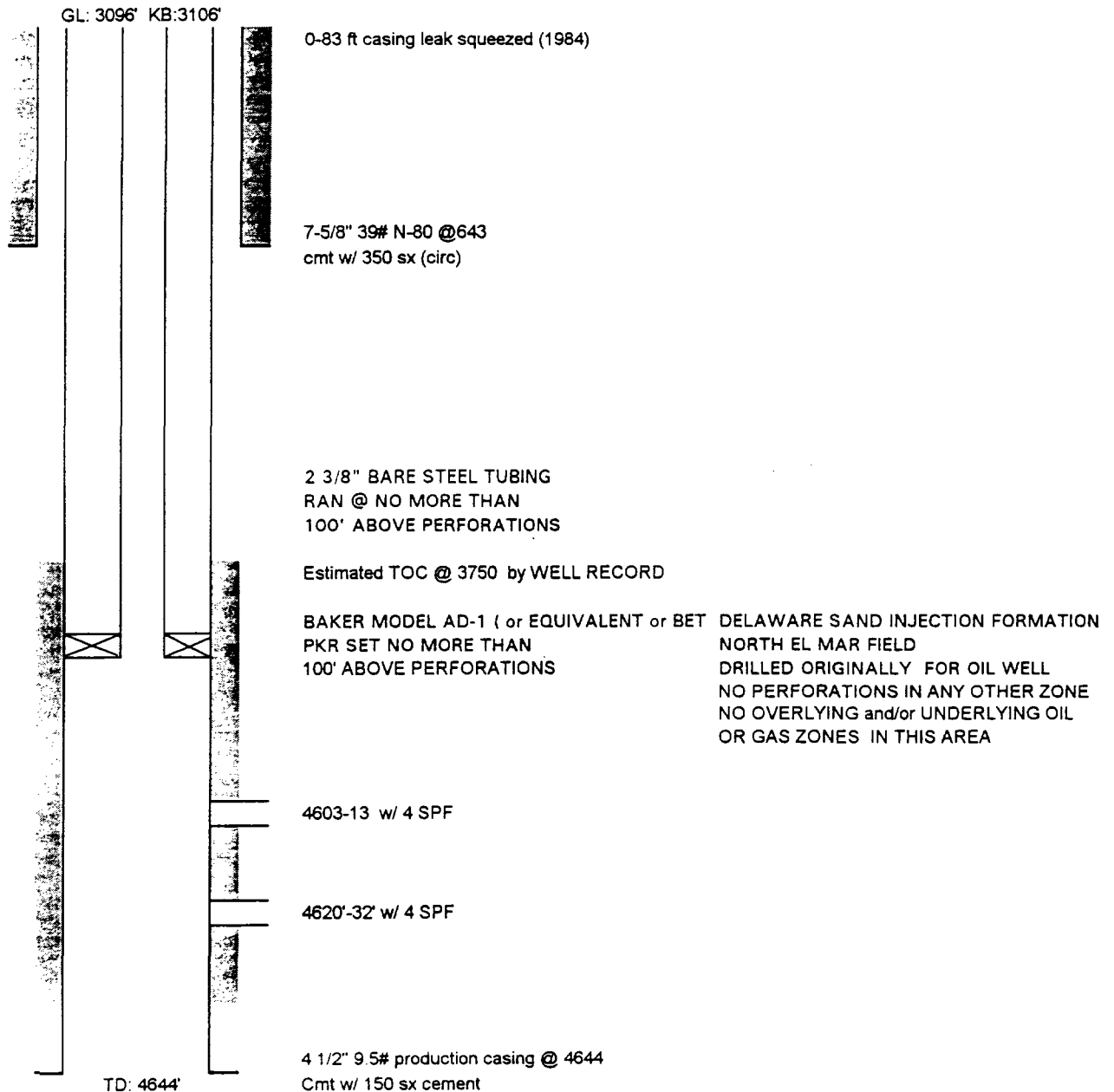
Status	(WIWSI)	Formerly: Wilder #7
County & State	Lea County, New Mexico	
Spud Date:	07/12/59	
Completion	07/26/59	
Total Depth	4,719'	
Surface Casing	7 5/8" @ 650' 325 sx	TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,719' 175 sx	TOC: 3,400' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg. ran @ no more than 100' above perforations.	
Perforations	4,625'-32', 4,636'-49'	
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.	
Bridge Plug, If one		

# Quay Valley

North El Mar Unit #24  
 FORMERLY CONTINENTAL OIL WILDER #3  
 (API# 30-025-082750)  
 PROPOSED CO2 INJECTION CONFIGURATION

Spud Date: 6/8/59 Completion: 6/23/59

1980' FSL & 660' FWL  
 Section 25, Township 26 South, Range 32 East  
 Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

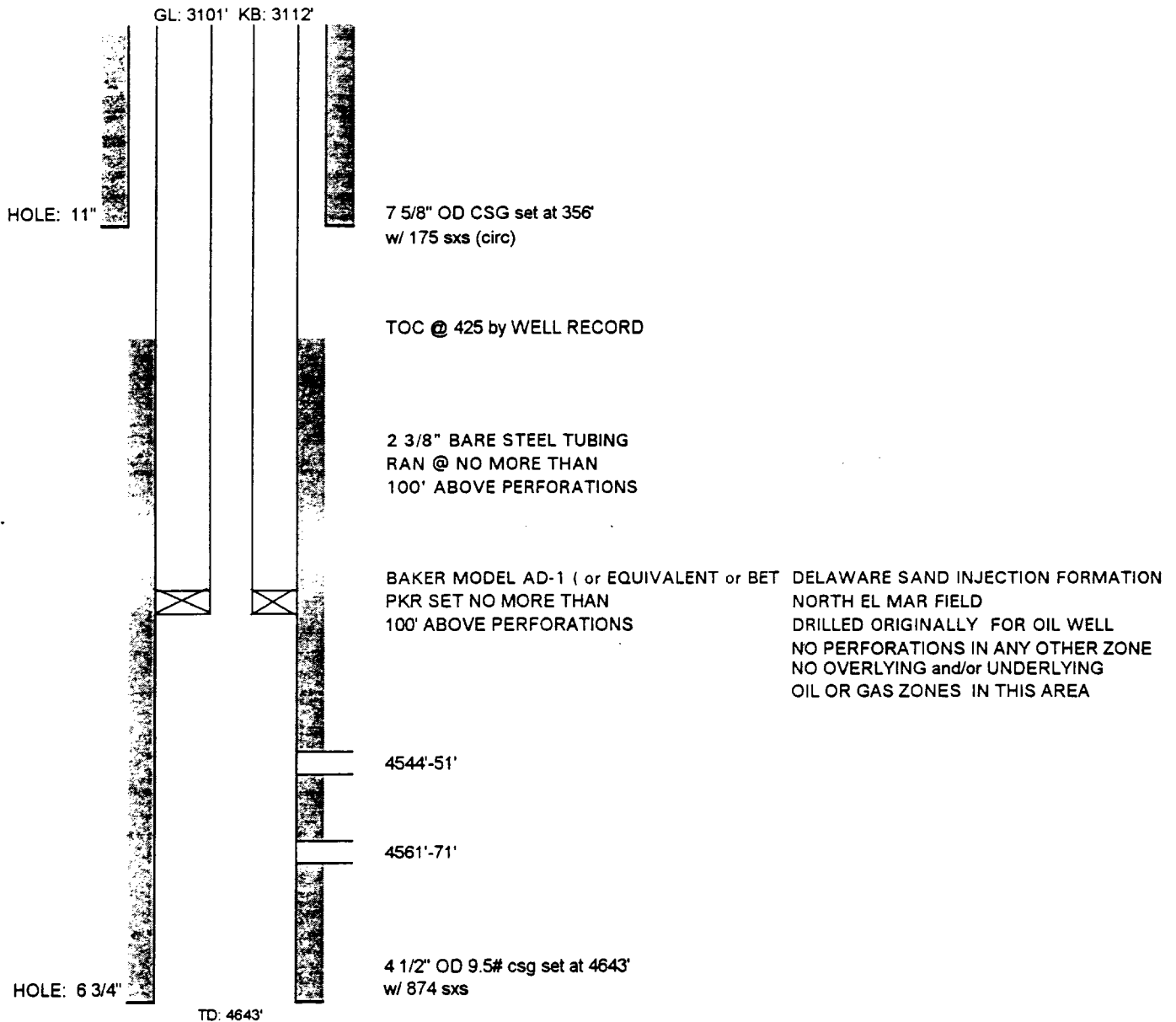
NEMU #24

Status	(WIWSI) Formerly: Wilder #3
County & State	Lea County, New Mexico
Spud Date:	06/08/59
Completion	06/23/59
Total Depth	4,644'
Surface Casing	7 5/8" @ 643' 350 sx TOC: Surface Hole Size:
Production Casing	4 1/2" @ 4,644' 150 sx TOC: 3,750' (est) Hole Size:
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,603'-13', 4,620'-32'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #26  
**FORMERLY CONTINENTAL OIL WILDER #20**  
(API# 30-025-082930)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 4/9/60 Completion: 4/25/60

1980' FSL & 1980' FEL  
Section 26, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

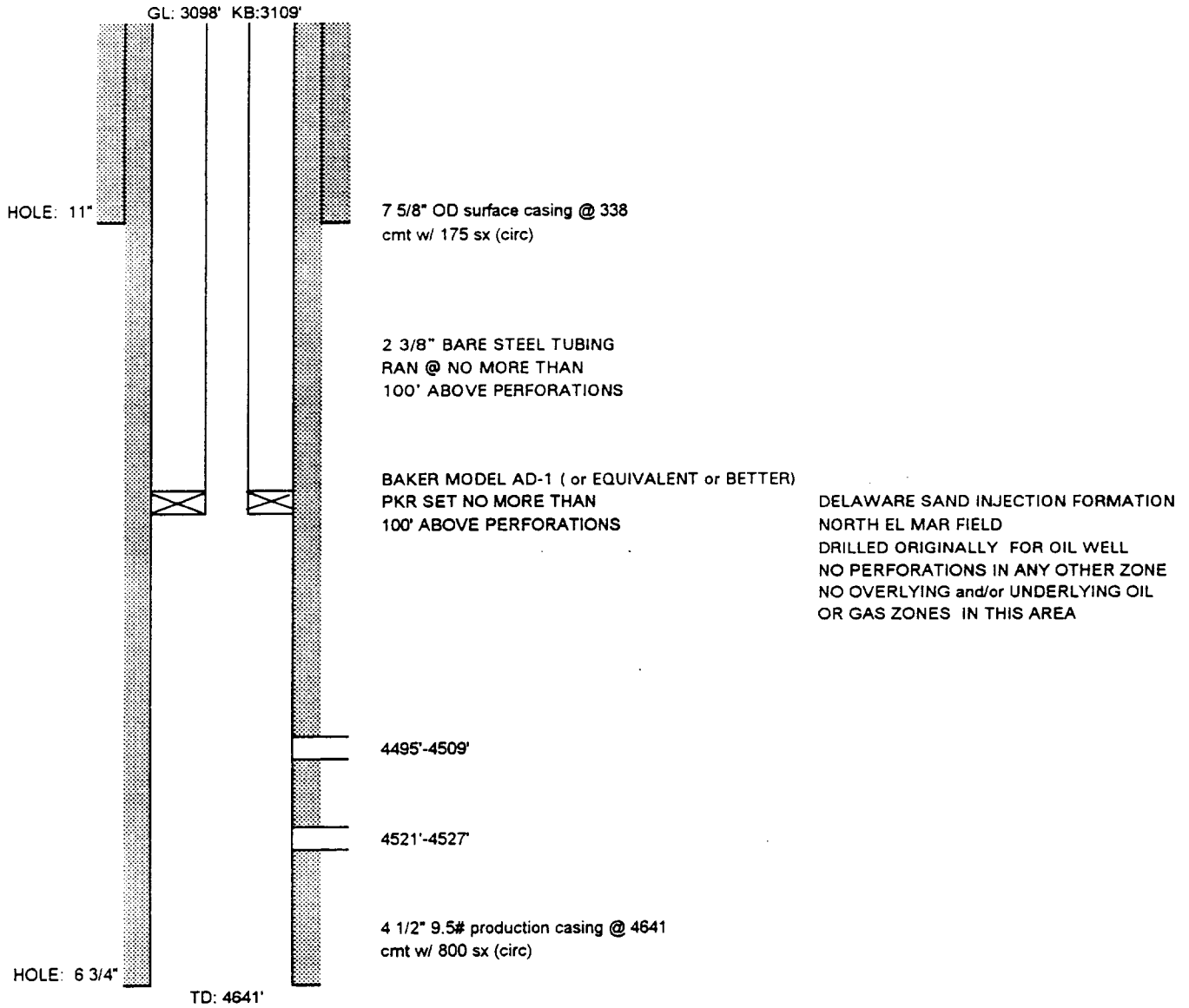
NEMU #26

Status	(WIW)	Formerly: Wilder #20
County & State	Lea County, New Mexico	
Spud Date:	04/09/60	
Completion	04/25/60	
Total Depth	4,643'	
Surface Casing	7 5/8" @ 356' 175 sx Hole Size: 11"	TOC: Surface (?)
Production Casing	4 1/2" @ 4,643" 874 sx Hole Size: 6 3/4"	TOC: 425'
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.	
Perforations	4,544'-51', 4,561'-71'	
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.	
Bridge Plug, If one		

**Quay Valley**  
North El Mar Unit #31  
**FORMERLY CONTINENTAL OIL WILDER #19**  
(API# 30-025-082920)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 3/17/60    Completion: 4/1/60

660' FEL & 1980' FSL  
Section 26, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #31

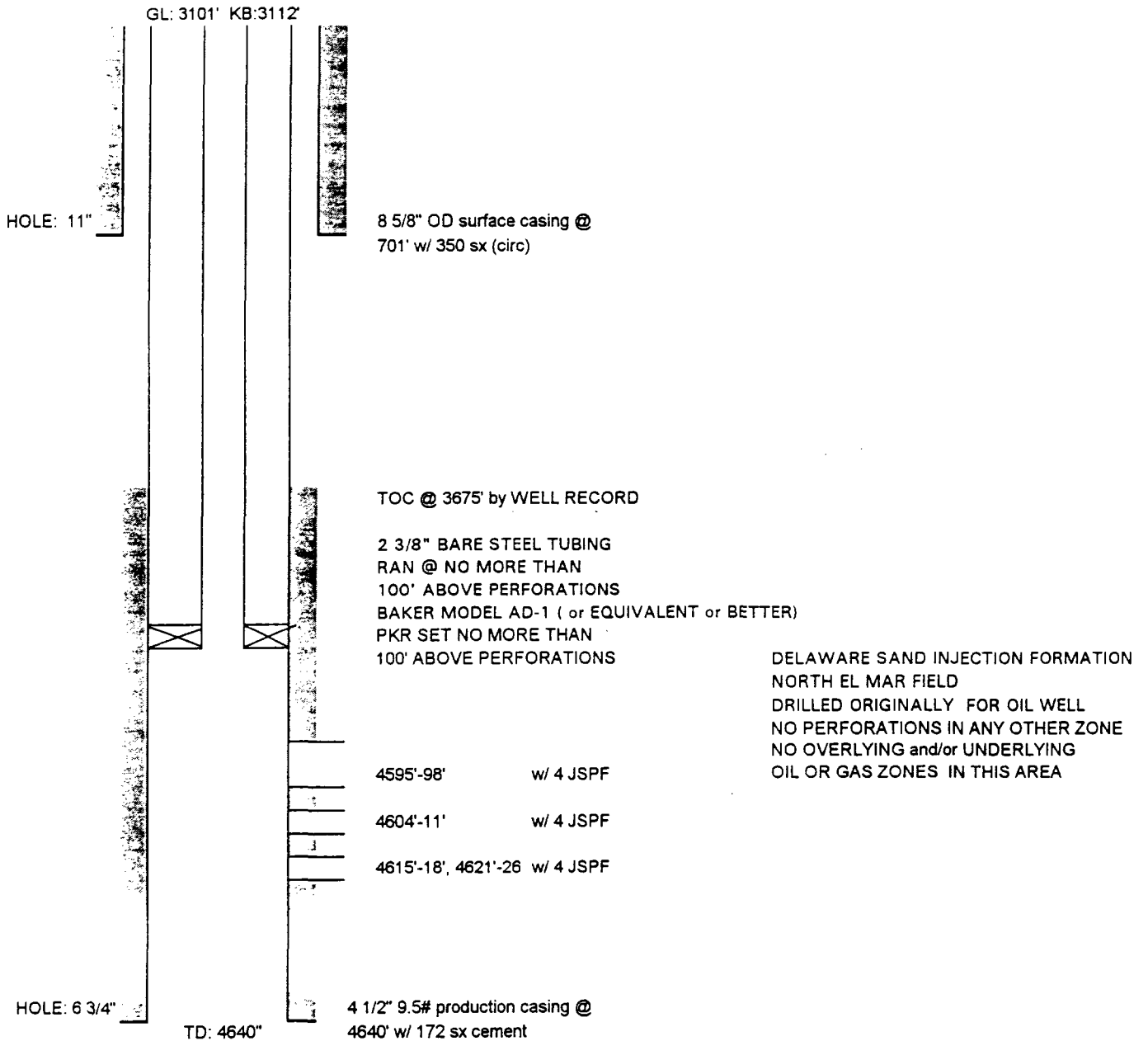
Status	(WIWSI) Formerly: Wilder #19
County & State	Lea County, New Mexico
Spud Date:	03/17/60
Completion	04/01/60
Total Depth	4,641'
Surface Casing	7 5/8" @ 338' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,641' 800 sx TOC: Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,495'-4,509', 4,521'-27'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

# Quay Valley

North El Mar Unit #33  
**FORMERLY CONTINENTAL OIL WILDER #5**  
 (API# 30-025-082880)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 4/29/59 Completion: 5/10/59

660' FLS & 660' FEL  
 Section 26, Township 26 South, Range 32 East  
 Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

**NEMU #33**

Status	(WIWSI)	Formerly: Wilder #5
County & State	Lea County, New Mexico	
Spud Date:	04/29/59	
Completion	05/10/59	
Total Depth	4,640'	
Surface Casing	8 5/8" @ 701 350 sx	TOC: Surface (?) Hole Size: 11" (?)
Production Casing	4 1/2" @ 4,640' 172 sx	TOC: 3,675 Hole Size: 6 3/4 (?)
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.	
Perforations	4,595'-98', 4,604'-11', 4,615'-18', 4,21'-4,626'	
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.	
Bridge Plug, If one		

# Quay Valley

North El Mar Unit #35

FORMERLY CONTINENTAL OIL WILDER #2

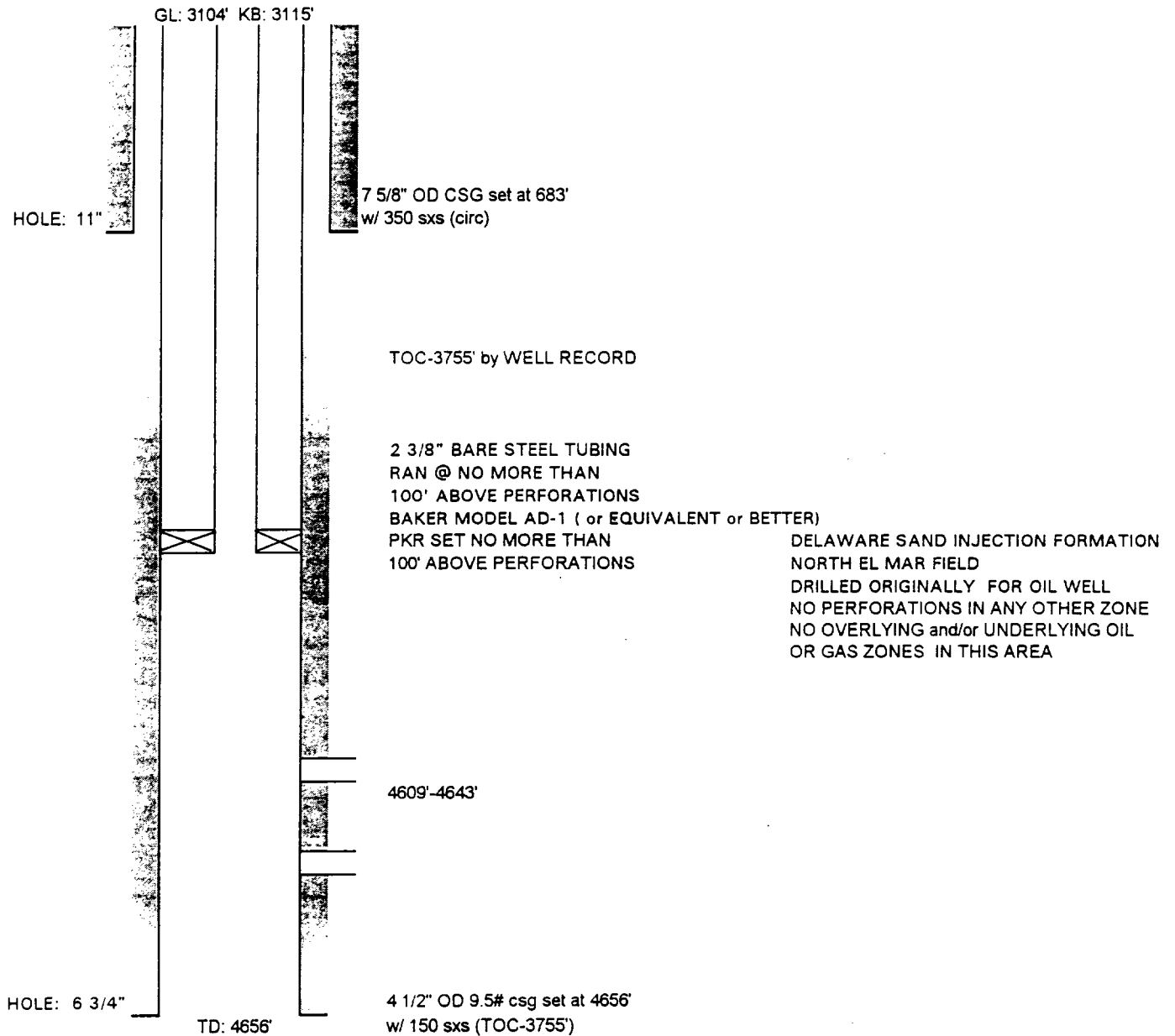
(API# 30-025-082740)

PROPOSED CO<sub>2</sub> INJECTION CONFIGURATION

Spud Date: 5/24/59

Completion: 6/6/59

1980' FSL & 1980' FEL  
Section 25, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

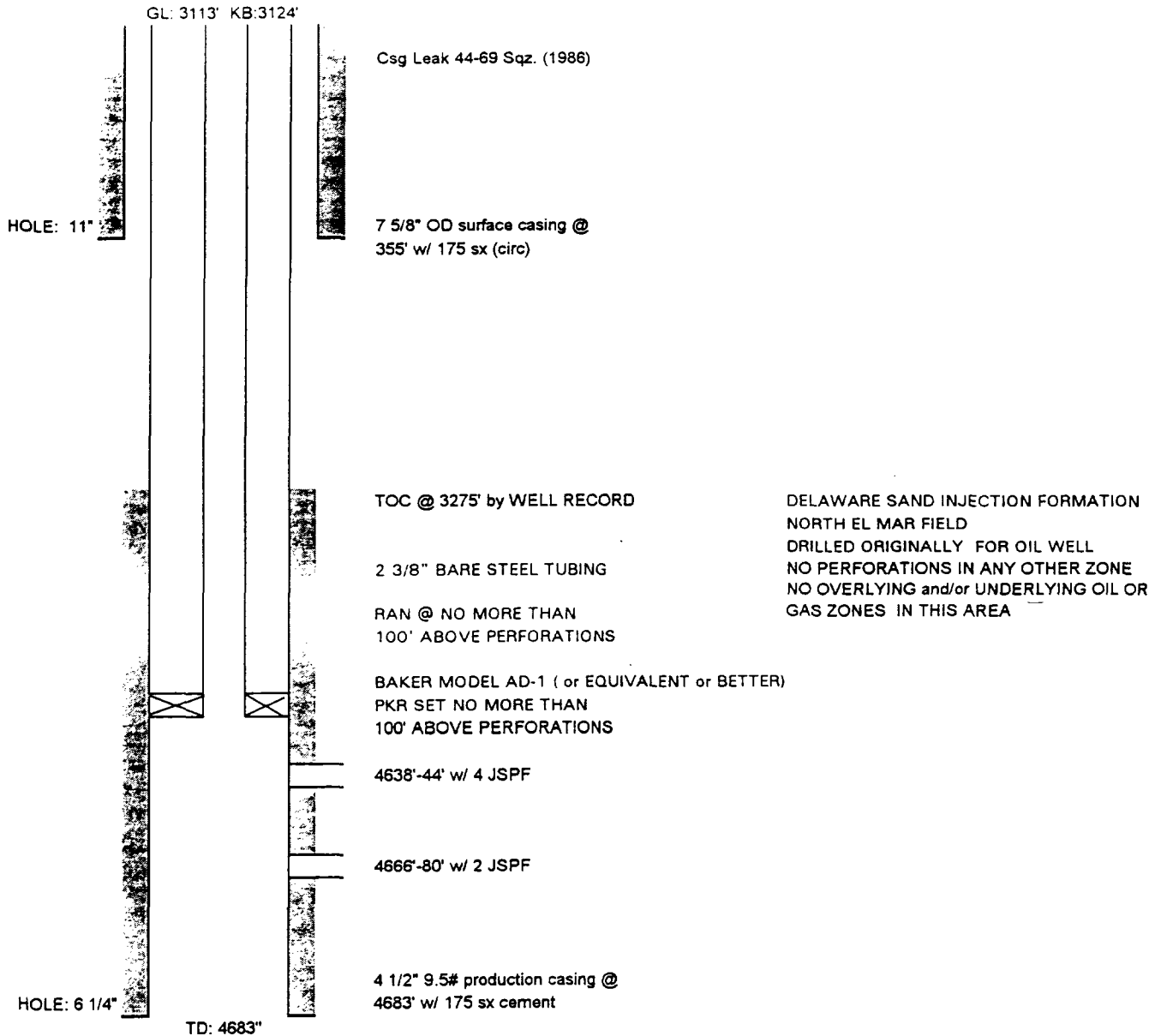
NEMU #35

Status	(WIWSI) Formerly: Wilder #2
County & State	Lea County, New Mexico
Spud Date:	05/24/59
Completion	06/06/59
Total Depth	4,656'
Surface Casing	7 5/8" @ 683' 350 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,656' 150 sx TOC: 3,755' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,609'-25', 4,635'-43'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #37  
**FORMERLY CONTINENTAL OIL WILDER #12**  
(API# 30-025-082830)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 9/19/59    Completion: 9/30/59

660' FLS & 660' FEL  
Section 25, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

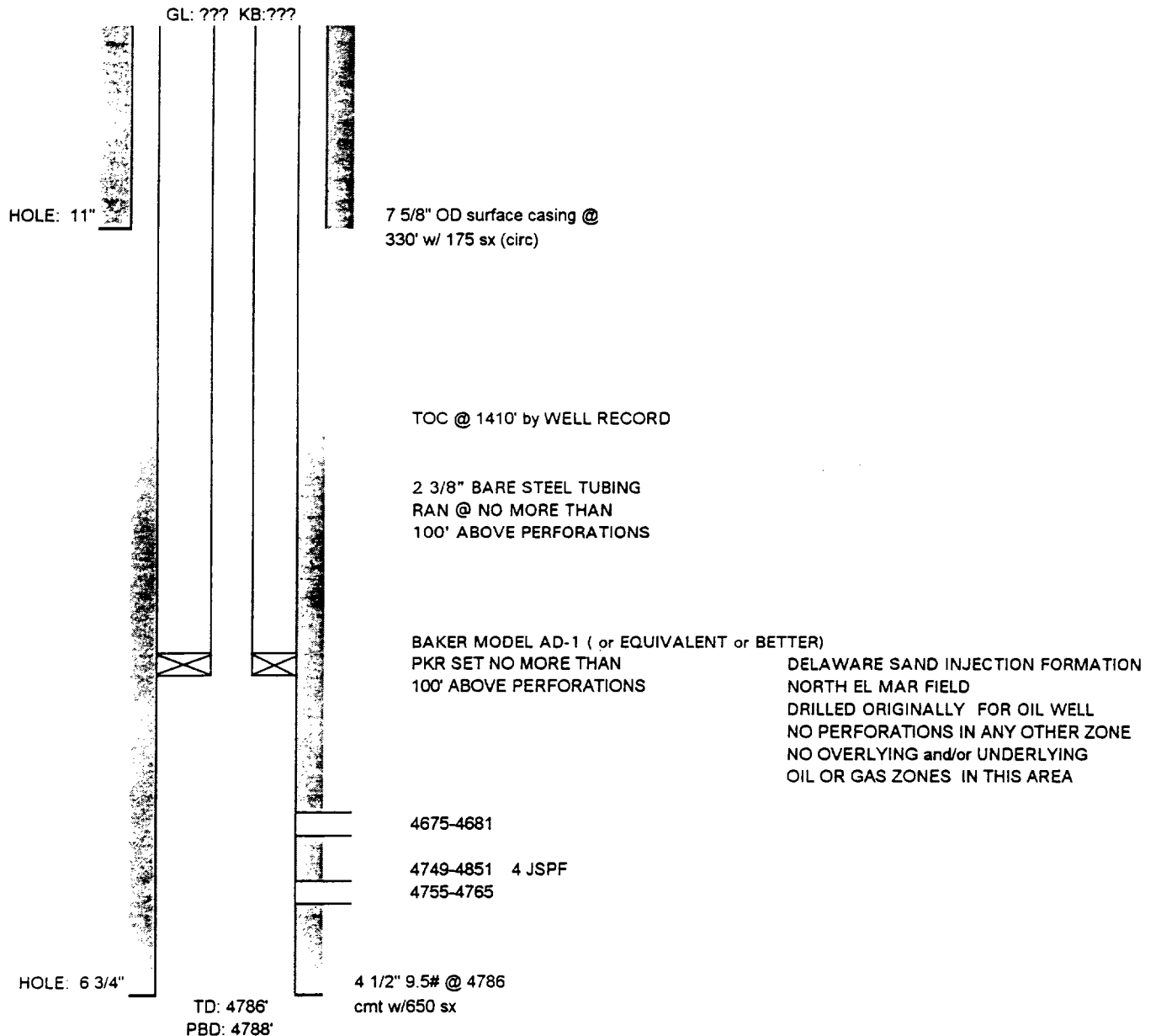
NEMU #37

Status	(WIWSI) Formerly: Wilder #12
County & State	Lea County, New Mexico
Spud Date:	09/19/59
Completion	09/30/59
Total Depth	4,683'
Surface Casing	7 5/8" @ 355' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,683' 175 sx TOC: 3,275' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,638'-44', 4,666'-80'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #39  
**FORMERLY CONTINENTAL OIL PAYNE #11**  
(API# 30-025-084350)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 7/13/60 Completion: 8/2/60

660' FSL & 1650' FWL  
Section 30, Township 26 South, Range 33 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

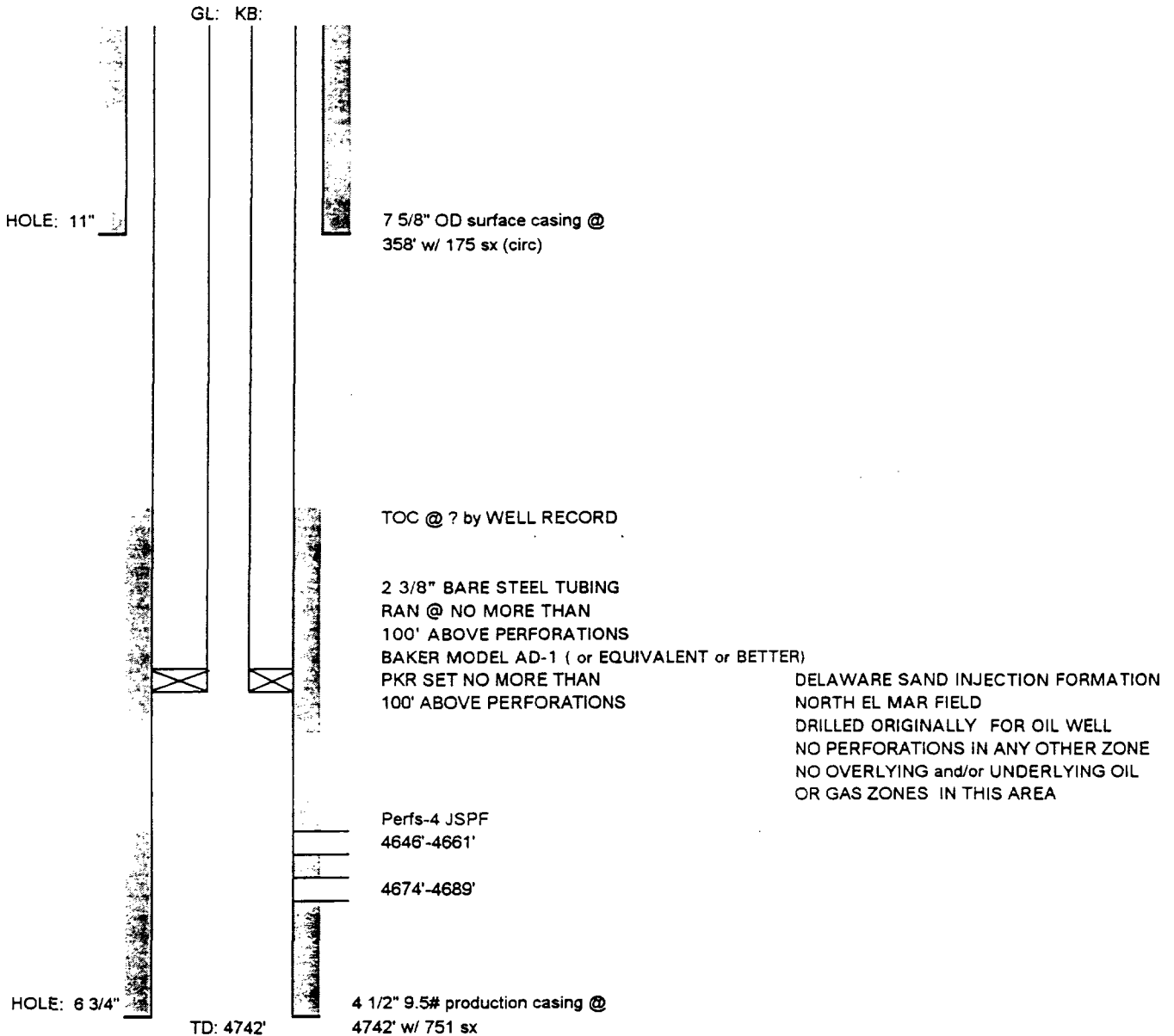
NEMU #39

Status	(WIWSI) Formerly: Payne #11
County & State	Lea County, New Mexico
Spud Date:	07/13/60
Completion	08/02/60
Total Depth	4,786'
Surface Casing	7 5/8" @ 330' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,786' 650 sx TOC: 1,410' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,675'-81', 4749'-51', 4755'-65'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #41  
**FORMERLY CONTINENTAL OIL PAYNE #7**  
(API# 30-025-084370)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 2/22/60    Completion: 3/3/60

660' FNL & 660' FWL  
Section 31, Township 26 South, Range 33 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

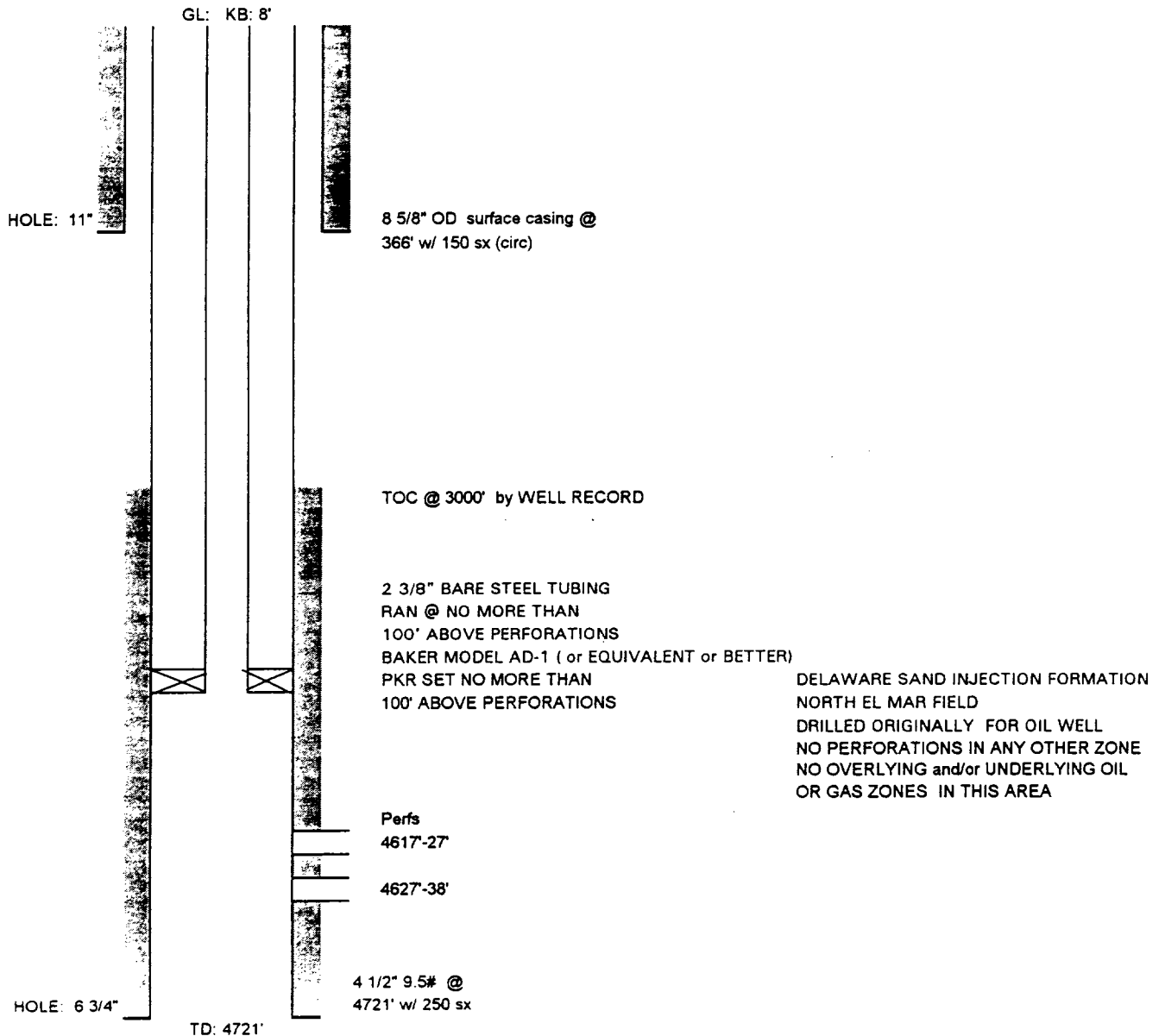
NEMU #41

Status	(WIWSI) Formerly: Payne #7
County & State	Lea County, New Mexico
Spud Date:	02/22/60
Completion	03/03/60
Total Depth	4,742'
Surface Casing	7 5/8" @ 358' 175 sx TOC: Surface (Circ) Hole Size: 11"
Production Casing	4 1/2" @ 4,742' 751 sx TOC: Surface (Circ) Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,646'-61', 4,674'-89'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #42  
**FORMERLY KERN COUNTY LAND STATE 36 #3**  
(API# 30-025-083160)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 10/6/59    Completion: 10/18/59

543' FNL & 1448' FEL  
Section 36, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #42

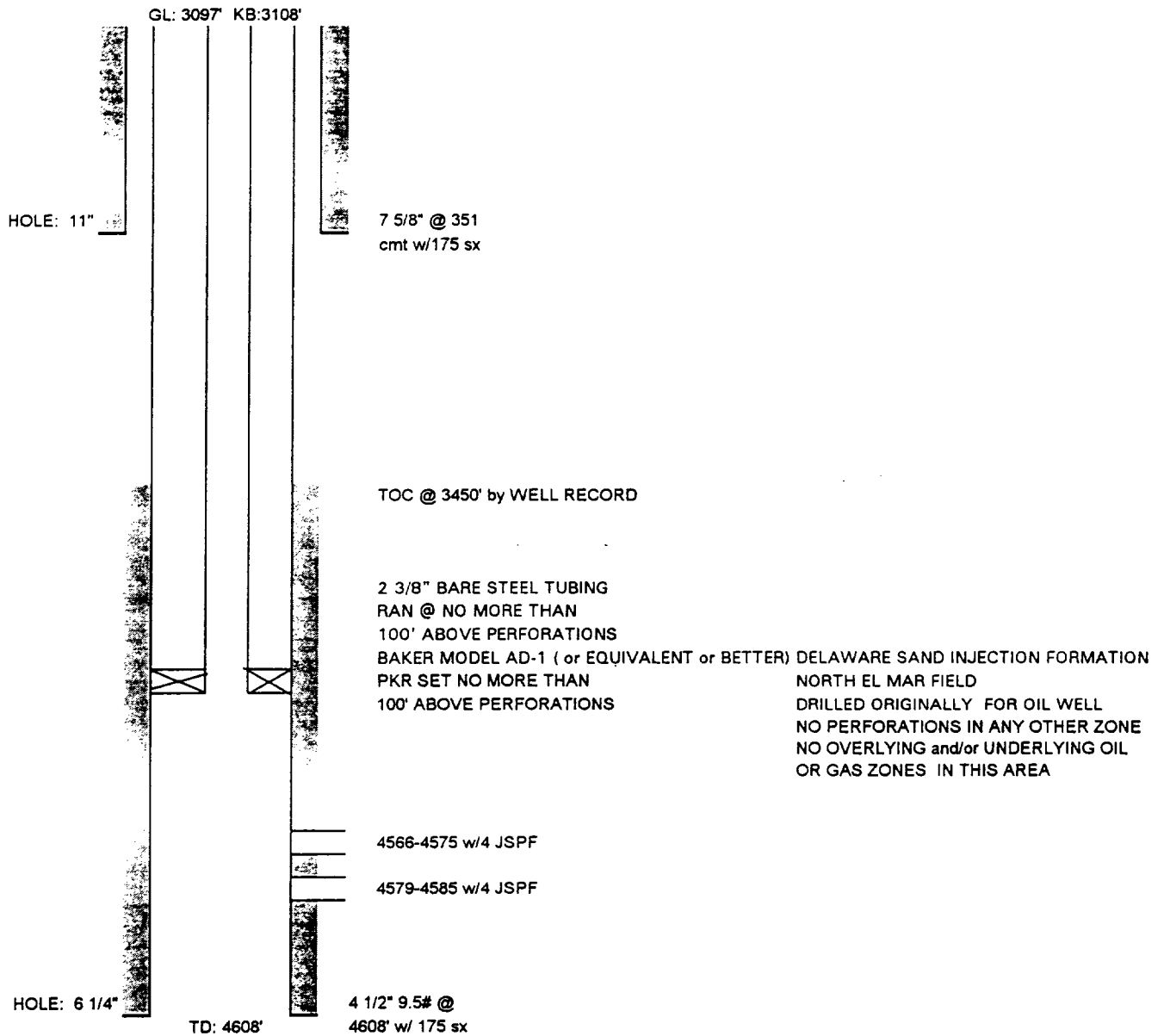
Status	(WIWSI) Formerly: State 36 #3
County & State	Lea County, New Mexico
Spud Date:	10/06/59
Completion	10/18/59
Total Depth	4,721'
Surface Casing	8 5/8" @ 366' 150 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,721' 250 sx TOC: 3,000' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,617'-27', 4,627'-38'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

# Quay Valley

North El Mar Unit #46  
**FORMERLY CONTINENTAL OIL BRADLEY 35 #4**  
 (API# 30-025-083110)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 12/30/59      Completion: 1/9/60

660' FWL & 1650' FEL  
 Section 35, Township 26 South, Range 32 East  
 Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #46

Status	(WIWSI) Formerly: Bradley 35 #4
County & State	Lea County, New Mexico
Spud Date:	12/30/59
Completion	01/09/60
Total Depth	4,608'
Surface Casing	7 5/8" @ 351' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,608' 175 sx TOC: 3,450' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,566'-75', 4,579'-85'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

# Quay Valley

North El Mar Unit #48

Formerly Continental - Bradley #2

(API# 30-025-083090)

PROPOSED CO<sub>2</sub> INJECTION CONFIGURATION

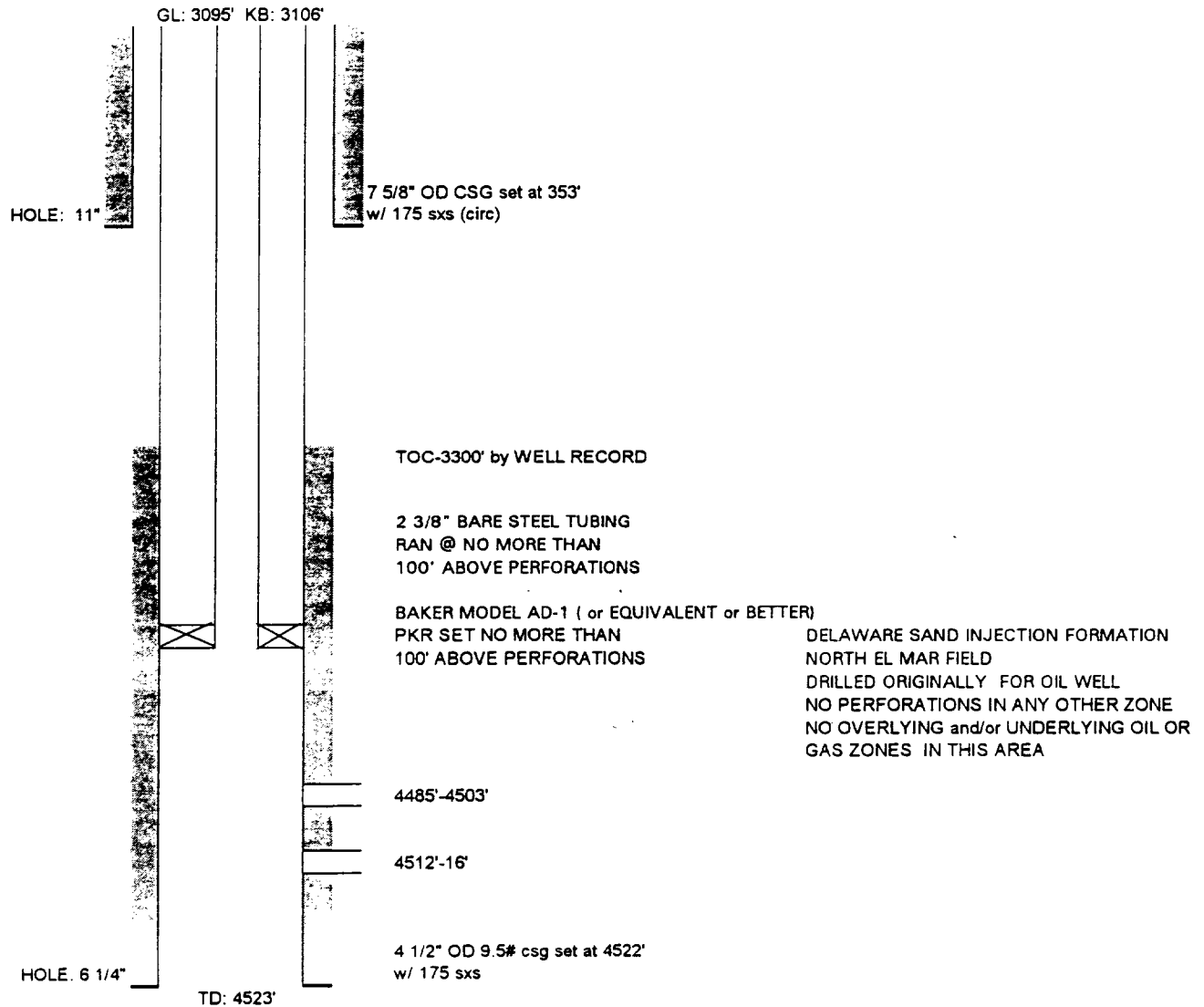
Spud Date: 11/16/59

Completion: 11/27/59

660' FNL & 660' FWL

Section 35, Township 26 South, Range 32 East

Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #48

Status	(WIWSI) Formerly: Bradley 35 #2
County & State	Lea County, New Mexico
Spud Date:	11/16/59
Completion	11/27/59
Total Depth	4,523'
Surface Casing	7 5/8" @ 353' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,522' 175 sx TOC: 3,300' Hole Size: 6 1/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,485'-4,503', 4,512'-16'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #50  
**FORMERLY ELLIOT FEDERAL #1**  
(API# 30-025-083050)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 6/26/59    Completion: 7/09/59

Section 35, Township 26 South, Range 32 East

Lea County, NM

EL: 3111

GL: 3101    KB:

HOLE: NO RECORDS

8 5/8" 24# CSG. @ 273'  
CMT ?

2 3/8" BARE STEEL TUBING  
RAN @ NO MORE THAN  
100' ABOVE PERFORATIONS

BAKER MODEL AD-1 ( or EQUIVALENT or BETTER)  
4 1/2" PKR SET NO MORE THAN  
100' ABOVE PERFORATIONS

DELAWARE SAND INJECTION FORMATION  
NORTH EL MAR FIELD  
DRILLED ORIGINALLY FOR OIL WELL  
NO PERFORATIONS IN ANY OTHER ZONE  
NO OVERLYING and/or UNDERLYING  
OIL OR GAS ZONES IN THIS AREA

HOLE: 6 3/4"

PB: 4540

TD: 4550'

4 1/2" 9.5# CSG @ 4540 W/125 SAX CMT  
PERF: 4550-66

QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

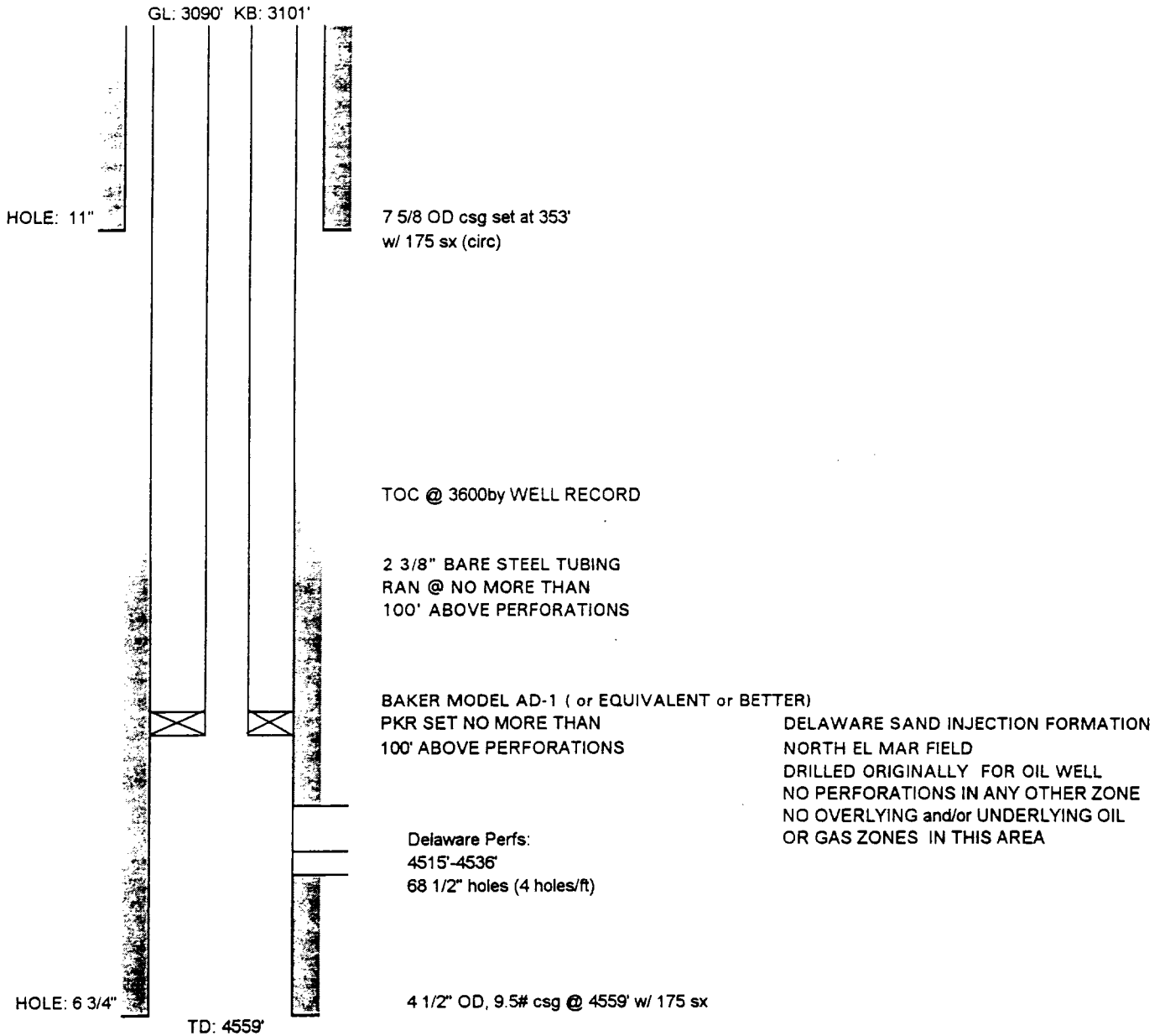
NEMU #50

Status	(WIW) Formerly: Elliot Federal #1
County & State	Lea County, New Mexico
Spud Date:	06/26/59
Completion	07/09/59
Total Depth	4,550'
Surface Casing	8 5/8" @ 273' 125 sx TOC: ? Hole Size: ?
Production Casing	4 1/2" @ 4,540' 125 sx TOC: ? Hole Size: ?
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,450'-4,466'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #51  
**FORMERLY CONTINENTAL OIL PAYNE #6**  
(API# 30-025-083120)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 12/10/59 Completion: 12/20/59

Section 35, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #51

Status	(WIWSI) Formerly: Payne #6
County & State	Lea County, New Mexico
Spud Date:	12/10/59
Completion	12/20/59
Total Depth	4,559'
Surface Casing	7 5/8" @ 353' 175 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,559' 175 sx TOC: 3,600' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,515'-23', 4,527'-36'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

# Quay Valley

North El Mar Unit #52

(API# 30-025-083130)

## PROPOSED CO2 INJECTION CONFIGURATION

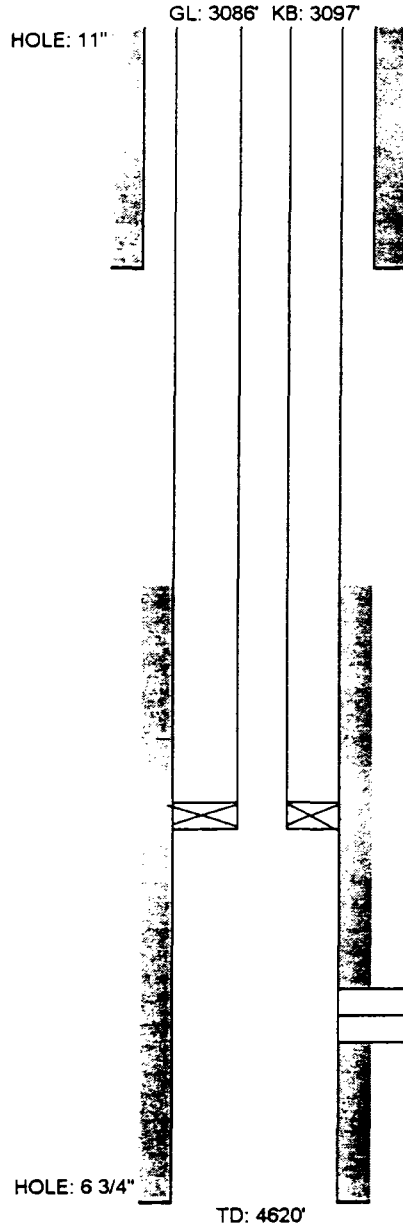
Spud Date: 8/27/59

Completion: 9/6/59

490' FSL & 330' FEL

Section 35, Township 26 South, Range 32 East

Lea County, NM



7 5/8 OD csg set at 353'  
w/ 175 sx (circ)

TOC @ 3550' by WELL RECORD

2 3/8" BARE STEEL TUBING  
RAN @ NO MORE THAN  
100' ABOVE PERFORATIONS

BAKER MODEL AD-1 ( or EQUIVALENT or BETTER)  
PKR SET NO MORE THAN  
100' ABOVE PERFORATIONS

Perfs-  
4569'-77'  
4583'-93'  
4601'-06'

DELAWARE SAND INJECTION FORM  
NORTH EL MAR FIELD  
DRILLED ORIGINALLY FOR OIL WELL  
NO PERFORATIONS IN ANY OTHER Z  
NO OVERLYING and/or  
UNDERLYING OIL OR GAS  
ZONES IN THIS AREA

4 1/2" 9.5# csg @ 4620'

QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

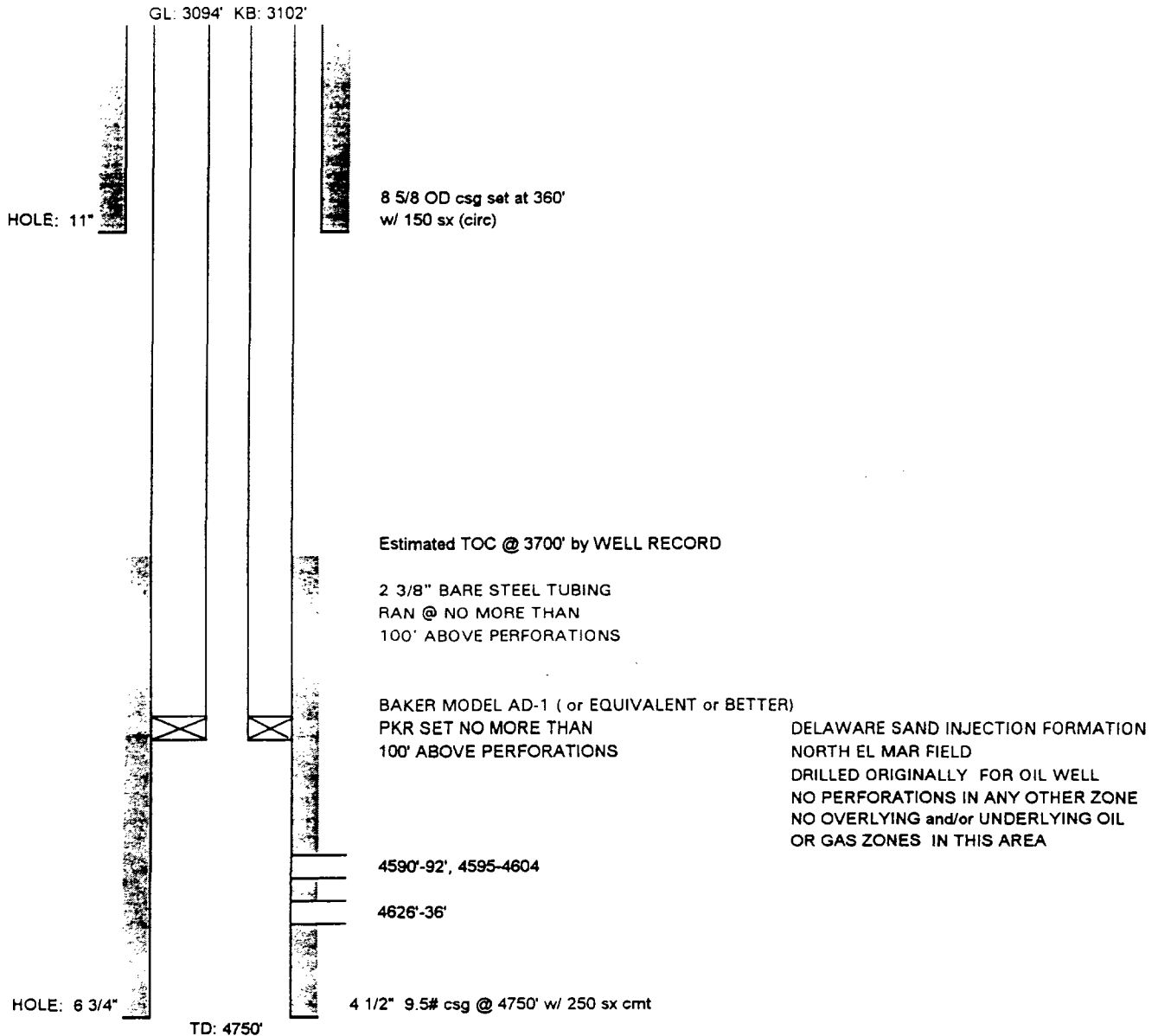
NEMU #52

Status	(WIWSI) Formerly: Payne #1
County & State	Lea County, New Mexico
Spud Date:	08/27/59
Completion	09/06/59
Total Depth	4,620'
Surface Casing	7 5/8" @ 353' 175 sx TOC: ? Hole Size: ?
Production Casing	4 1/2" @ 4,620' 175 sx TOC: ? Hole Size: ?
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,569'-4,606'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

**Quay Valley**  
North El Mar Unit #54  
**FORMERLY KERN COUNTY LAND STATE 36 #5**  
(API# 30-025-083180)  
**PROPOSED CO2 INJECTION CONFIGURATION**

Spud Date: 8/7/59 Completion: 8/19/59

543' FSL & 2108' FWL  
Section 36, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #54

Status	(WIWSI) Formerly: State 36 #5
County & State	Lea County, New Mexico
Spud Date:	08/07/59
Completion	08/19/59
Total Depth	4,750'
Surface Casing	8 5/8" @ 360' 150 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" to 4,750' 250 sx TOC: 3,700' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,590'-92', 4,595'-4,604', 4,626'-36'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

# Quay Valley

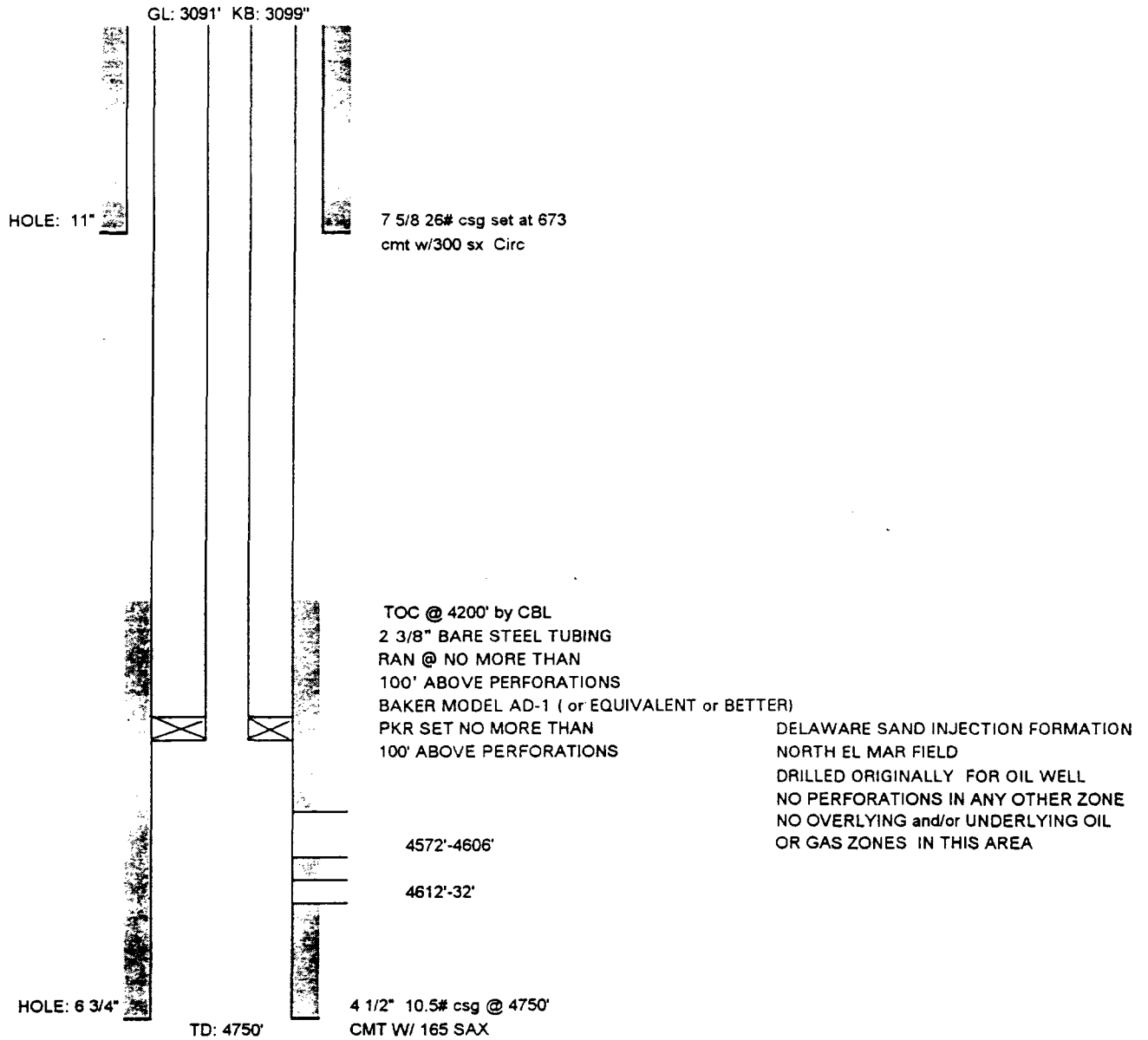
North El Mar Unit #58

(API# 30-025-249080)

## PROPOSED CO2 INJECTION CONFIGURATION

Spud Date: 3/25/75 Completion: 7/01/75

770' FNL & 990' FWL  
Section 36, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #58

Status	(WIWSI)
County & State	Lea County, New Mexico
Spud Date:	03/25/75
Completion	07/01/75
Total Depth	4,750'
Surface Casing	7 5/8" @ 673' 300 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,750' 165 sx TOC: 4,200' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,572'-4,606', 4,612'-32'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	

# Quay Valley

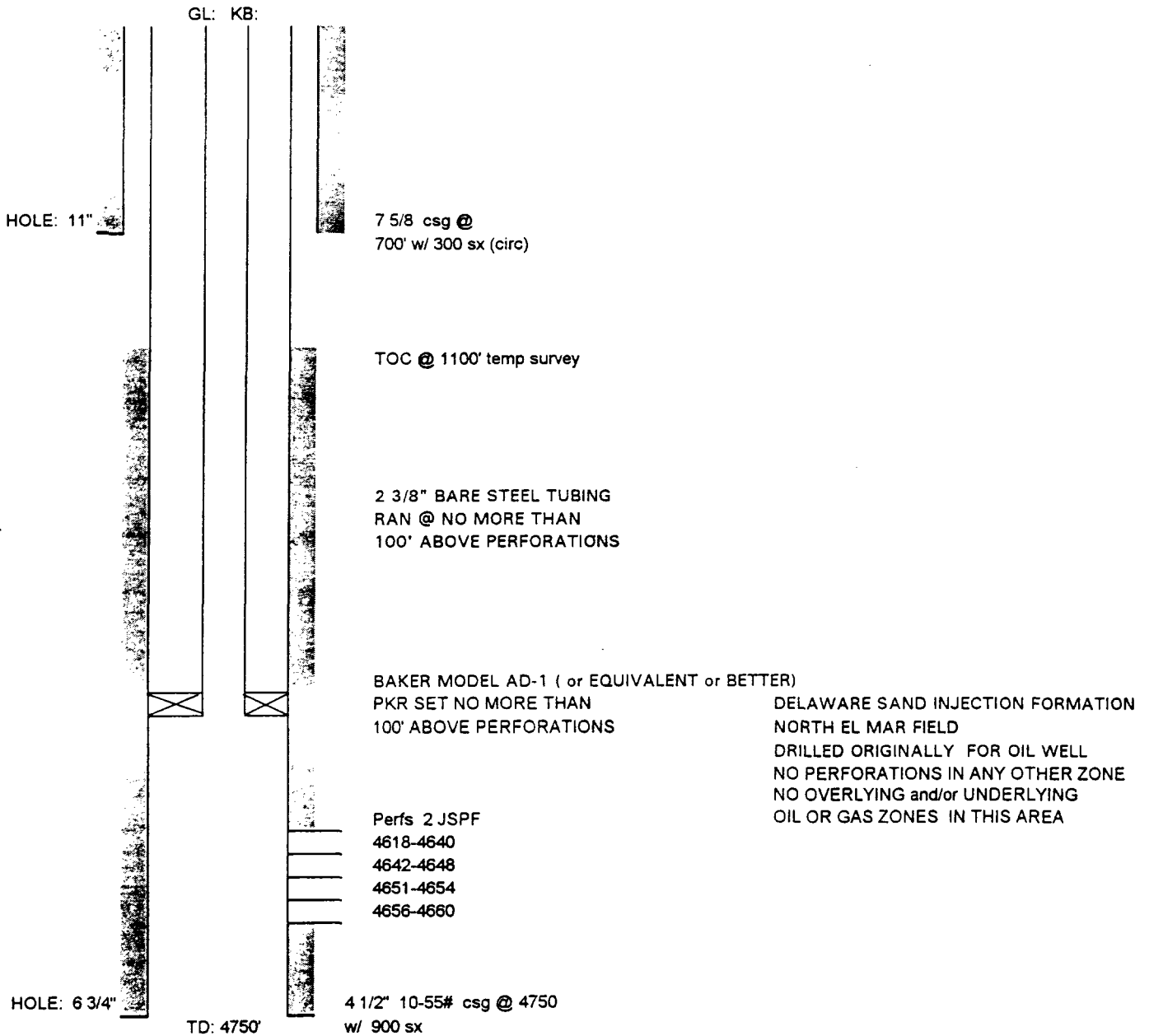
North El Mar Unit #62

(API# 30-025-254220)

## PROPOSED CO<sub>2</sub> INJECTION CONFIGURATION

Spud Date: 1/14/77 Completion: 2/14/77

Section 36, Township 26 South, Range 32 East  
Lea County, NM



QUAY VALLEY, INC.  
JULY, 1996

Bobby Gray/Gray Pumping  
915/943-4397

NEMU #62

Status	(WIWSI)
County & State	Lea County, New Mexico
Spud Date:	01/14/77
Completion	02/14/77
Total Depth	4,750'
Surface Casing	7 5/8" @ 700' 300 sx TOC: Surface Hole Size: 11"
Production Casing	4 1/2" @ 4,750' 900 sx TOC: 1,100' Hole Size: 6 3/4"
Tubing Size	2 3/8" bare steel tbg ran @ no more than 100' above perforations.
Perforations	4,618'-40', 4,642'-48', 4,651'-54', 4,656'-60'
Packer Size & Type	Baker Model AD-1 (or equivalent or better) packer set no more than 100' above perforations.
Bridge Plug, If one	



LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE