

DEPCO, Inc.

Exploration & Production

800 Central
ODESSA, TEXAS 79760

October 10, 1972

WFX - 381

New Oct 31

New Mexico Oil Conservation Commission
P.O. Box 871
Santa Fe, New Mexico

Subject: Administrative Approval to
Inject water into Dunn
Cooperative Waterflood Project
Wells No. 8, 15, 19 and 27
Field: Artesia
County and State: Eddy, New Mexico

Gentleman:

DEPCO, Inc. requests administrative approval to inject water into their Dunn Cooperative Waterflood Project Wells No. 8, 15, 19 and 27 located as follows:

<u>Lease and well number</u>	<u>Location</u>
Dunn "B" No. 8	Unit O, 660 FSL & 1980 FWL, Sec. 12, T-18S, R-28E
Dunn "B" No. 15	Unit E, 1980 FNL & 660 FWL, Sec. 10, T-18S, R-28E
Dunn "B" No. 19	Unit G, 1980 FNL & EL, Sec. 10, T-18S, R-28E
Dunn "B" No. 27	Unit I, 1980 FSL & 660 FEL, Sec. 12, T-18S, R-28E

The Dunn Cooperative Waterflood Project was initially approved and expanded by New Mexico Conservation Commission Order Number. R-2869 and R-2865-A respectively.

R 2869 A

Attached as set forth in Rule 701-B are the following exhibits:

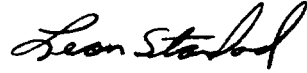
1. Exhibit A plat showing the location of the proposed injection wells and the location of all other wells within a radius of two miles.
2. Exhibit Logs are attached for Dunn " B" Wells No. 8, 15, 19 and 27.
3. Exhibit Diagrammatic Sketches for these proposed injectors.
4. Exhibit Form C-116 showing response at the proposed injectors or at an offset well.

Injection well be into the Grayburg formation which is locally at an approximate depth range 2400 to 2600 feet.

Approximately 500 BWPD will be injected into each of the proposed injectors. Water for this project is purchased from Double Eagle Corporation.

Attached is United States Department of the Interior approval for this recommended work.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Leon Standard".

Leon Standard
Engineer Assistant

LS/vp

cc: NMOCC - **Artesia**
Petco-- Artesia (Without attachments)
Plummer - Roswell (Without attachments)
Welch - Artesia (Without attachments)
Yates - Artesia (Without attachments)
Kersey - Artesia (Without attachments)
Cities Service - Hobbs (Without attachments)
Collier - Artesia (Without attachments)



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

October 5, 1972

Depco, Inc.
800 Central
Odessa, Texas 79760

Gentlemen:

Your letter of September 29, 1972, requests approval to expand the Dunn Waterflood Project by converting the following wells on oil and gas lease Las Cruces 028772(b) to water injection:

<u>Well Number</u>	<u>Location Description</u>
8 - Dunn "B"	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 18 S., R. 28 E.
15 - Dunn "B"	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T. 18 S., R. 28 E.
19 - Dunn "B"	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 18 S., R. 28 E.
27 - Dunn "B"	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 18 S., R. 28 E.

This project is operated in cooperative agreement with other operators on lease Las Cruces 028772(b) and other offset leases, and the 80-acre 5-spot flood pattern would be continued with the conversion of these wells. The initial project was approved by the U. S. Geological Survey on June 21, 1965, and initial project and expansion thereof approved by the New Mexico Oil Conservation Commission order numbers R-2869 and R-2869-A respectively.

The plan for expanding and operating this waterflood project as proposed in the application is satisfactory to this office and hereby approved subject to approval by the New Mexico Oil Conservation Commission and the following:

1. This project, including the expansion, will continue to be operated in compliance with the New Mexico Oil Conservation Commission regulations governing waterflood operations.
2. These wells will be included on the monthly progress report (N.M.O.C.C. form C-120) submitted to this office.

3. This approval does not preclude the necessity for further approval when the project is expanded to include other wells and leases or the necessity to submit the usual notices and reports on wells involved.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "James A. Knauf".

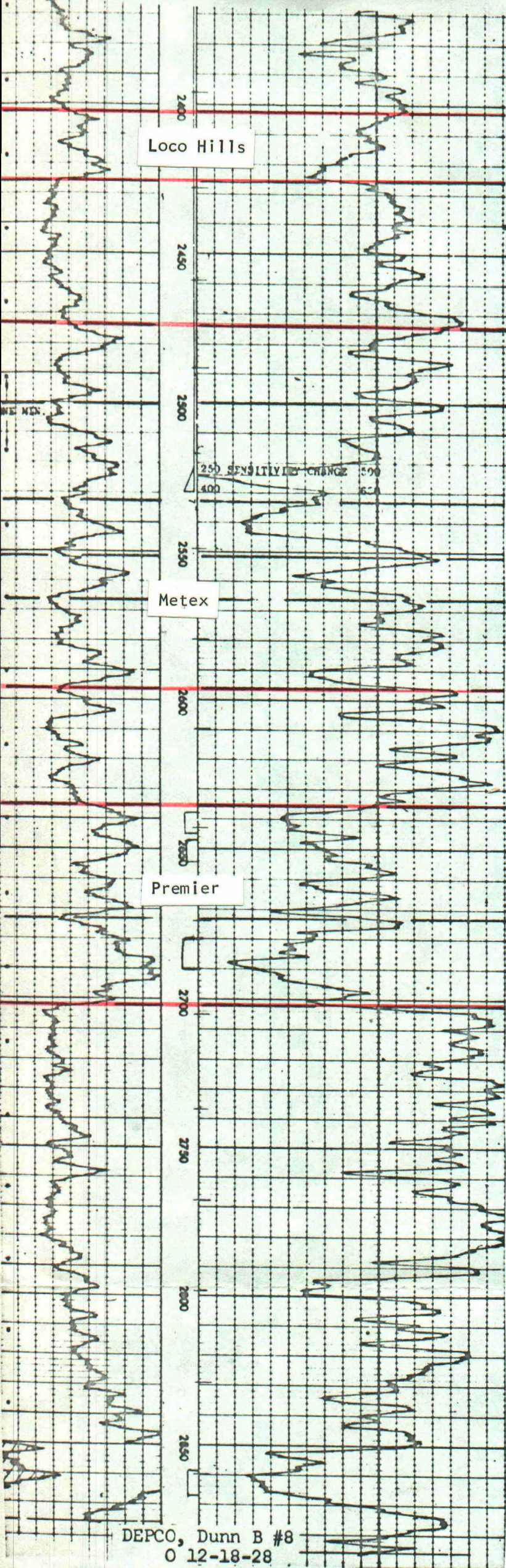
James A. Knauf
District Engineer

cc:
N.M.O.C.C., Santa Fe
Roswell
File
Accounts

RLBeekman:ih

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

Exhibit 2 - Logs



Loco Hills

2250

2300

Metex

2350

2400

Base Charge

2450

Premier

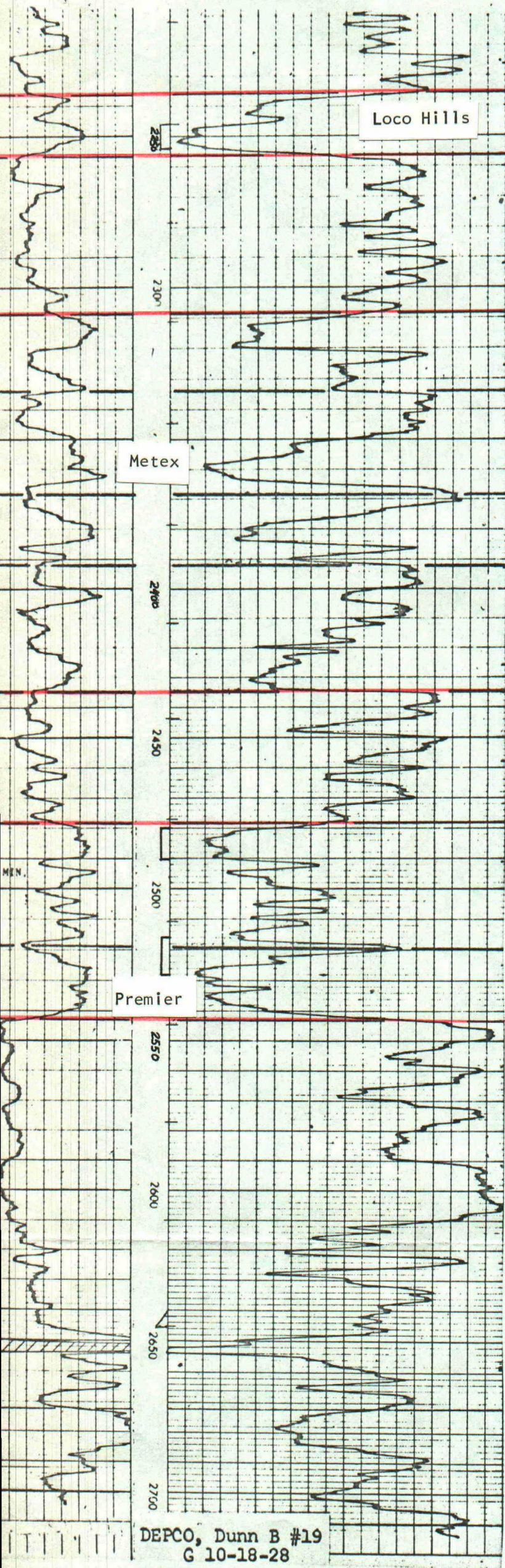
2500

2550

2600

2650

DEPCO, Dunn B #15
E 10-18-28



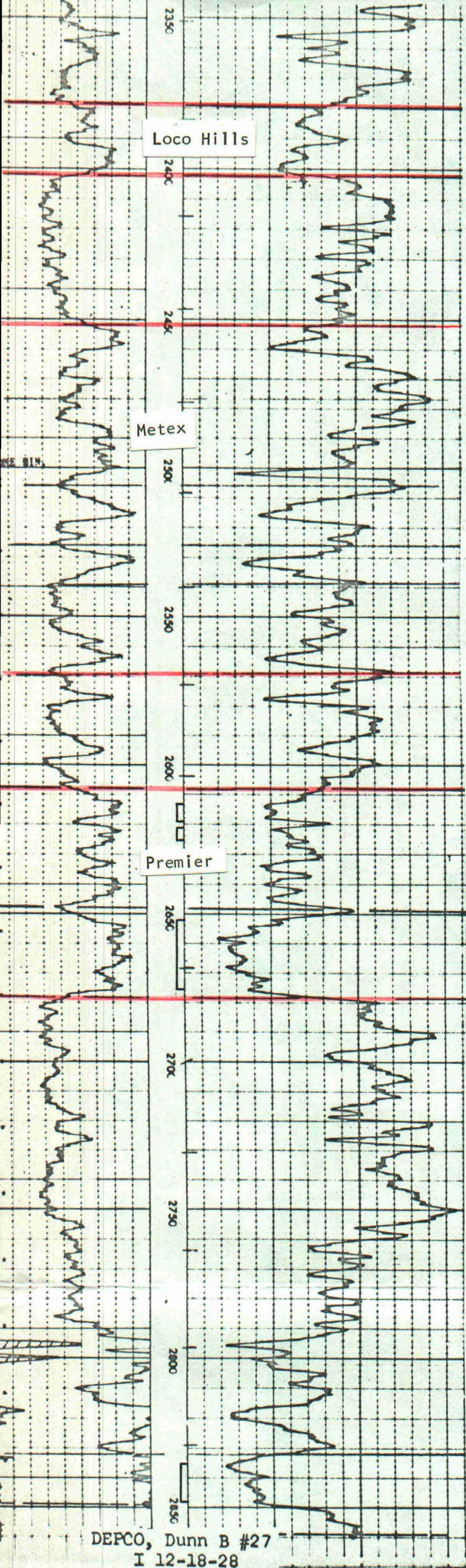
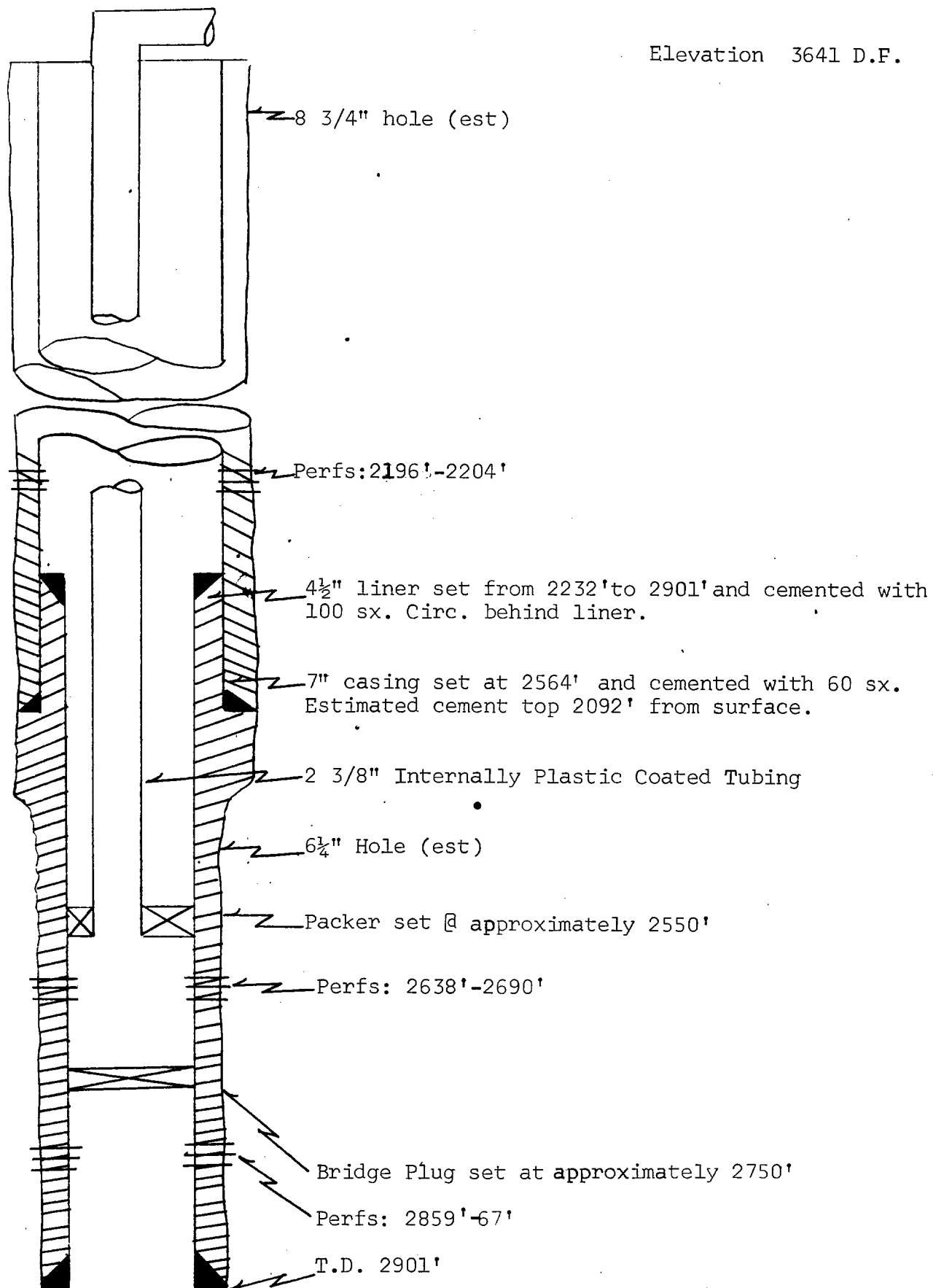


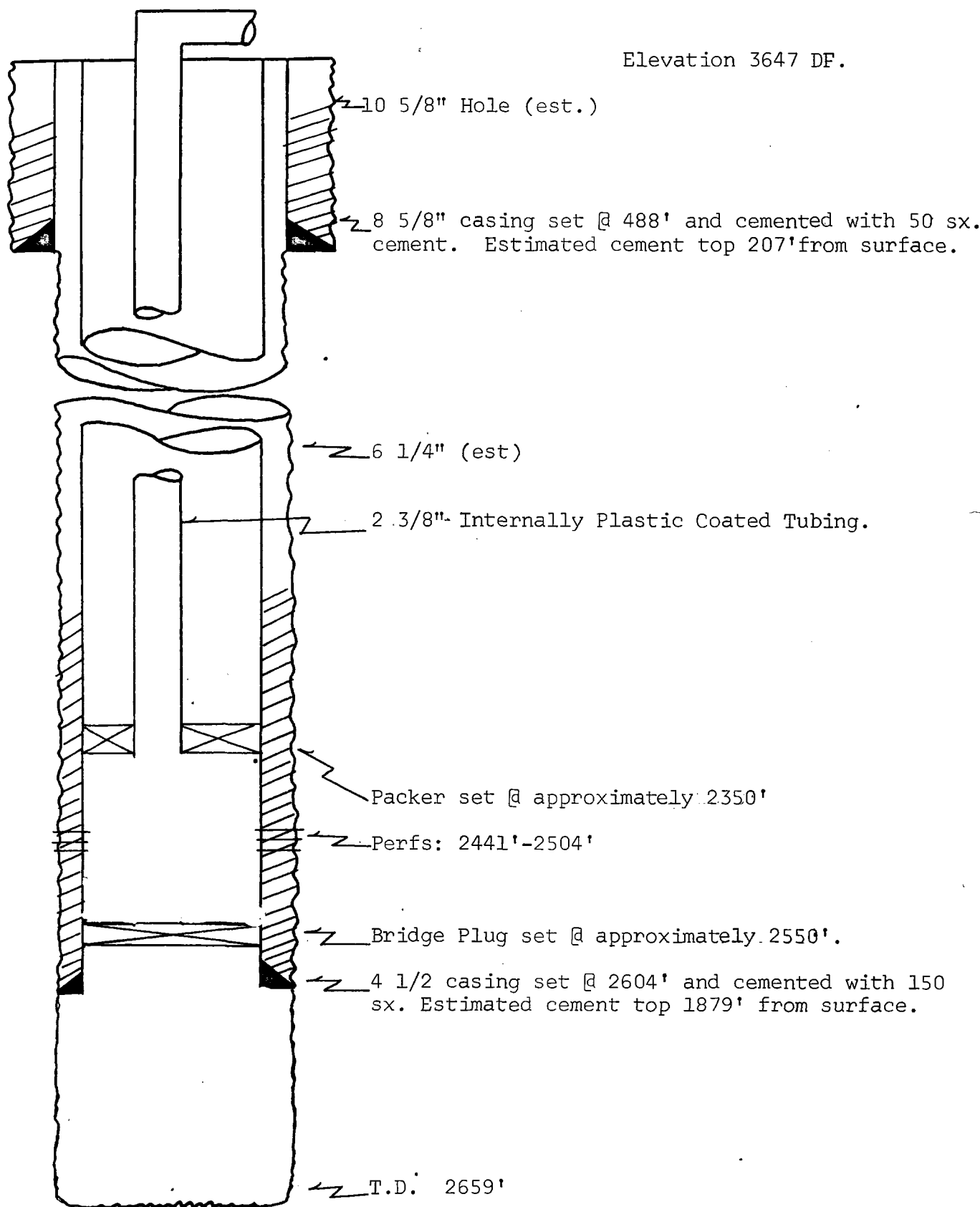
Exhibit 3 - Diagrammatic Sketches

Diagrammatic Sketch
Proposed Well Condition
Dunn B Well No. 8

Elevation 3641 D.F.

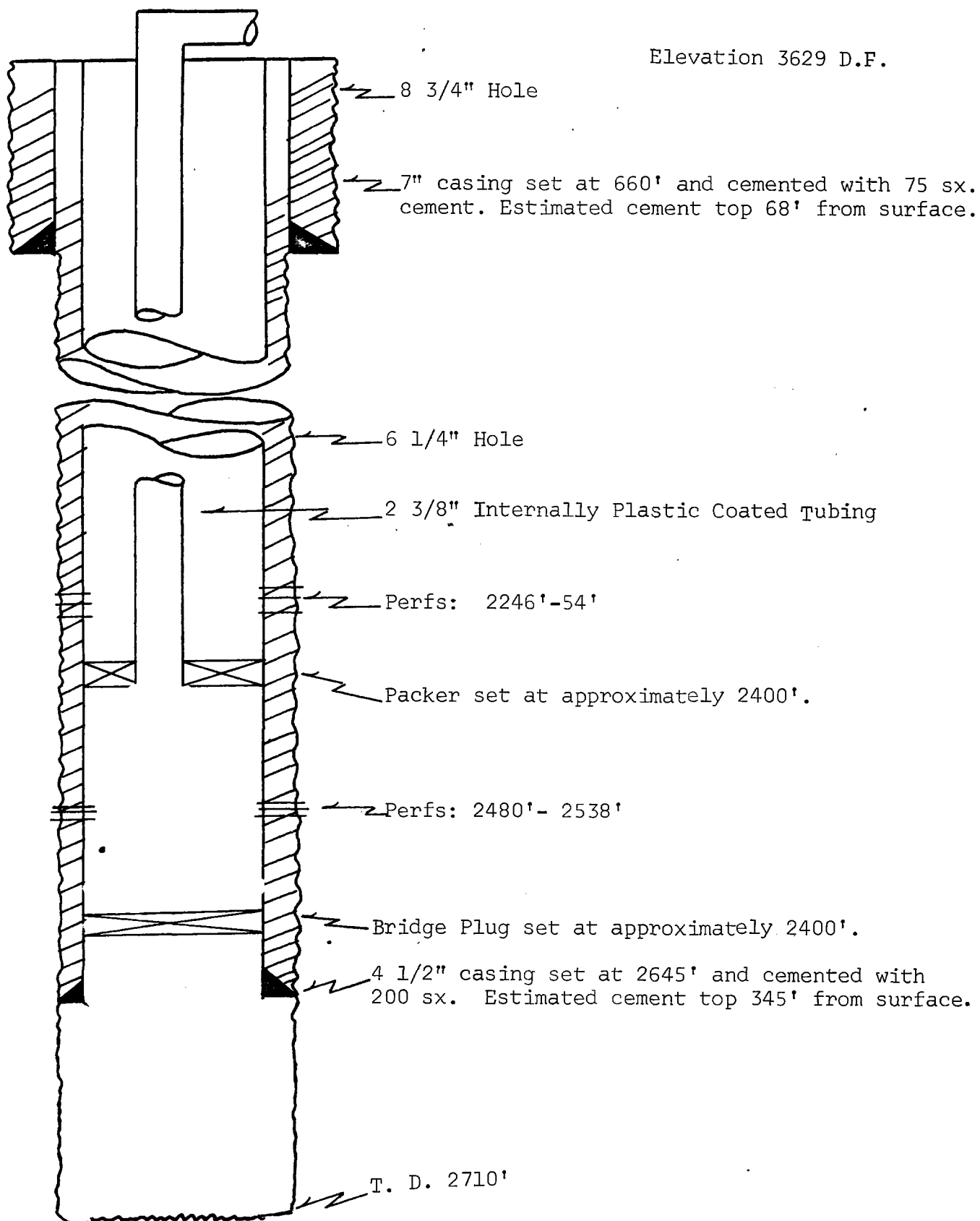


Diagrammatic Sketch
Proposed Well Condition
Dunn B Well No. 15



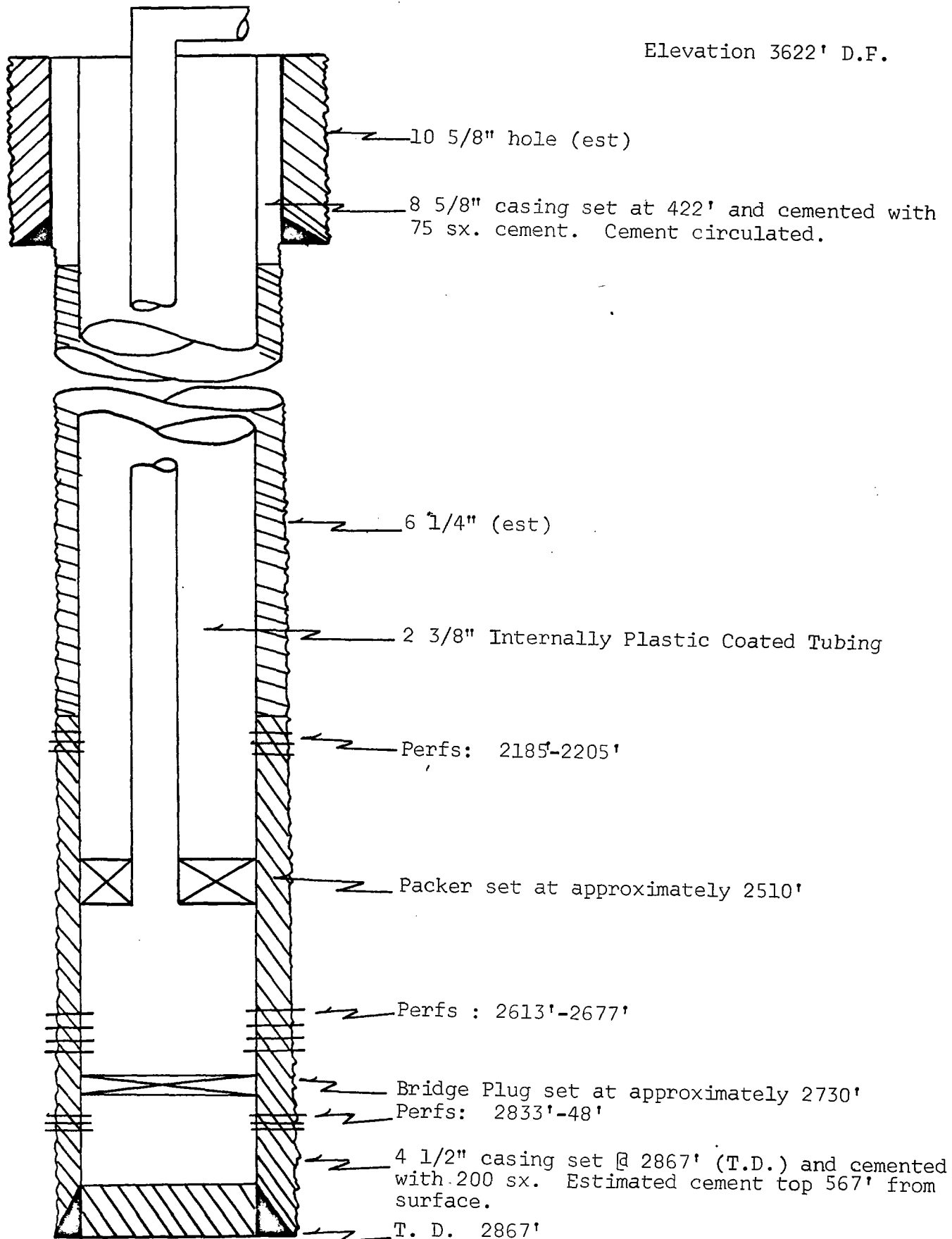
Diagrammatic Sketch
Proposed Well Condition
Dunn B Well No. 19

Elevation 3629 D.F.



Diagrammatic Sketch
Proposed Well Condition
Dunn B Well No. 27

Elevation 3622' D.F.



NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

2-11-66
Revised 1-1-65

Operator DEPCO, Inc.		Pool Artesia		County Eddy		TYPE OF TEST - (X)		SCHEDULED <input checked="" type="checkbox"/> SPECIAL <input type="checkbox"/>		COMPLETION <input type="checkbox"/>		GAS - OIL RATIO									
Address 800 Central, Odessa, Texas 79761		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		LENGTH OF TEST HOURS		PROD. DURING TEST		GAS M.C.F.		GAS - OIL RATIO CU.FT./BBL.	
LEASE NAME		U	S	T	R											WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.		
Offset to Well No. 8	7	N	12	18	28	8-68	P	---	---	---	---	---	---	24	0	0	0	0	0	---	---
						7-10-71	P	---	---	---	---	---	---	24	32	0.87	17	0.87	51	---	
						8-10-72	P	---	---	---	---	---	---	24	43	2.87	17	2.87	410	---	
	8	0	12	18	28	8-68	P	---	---	---	---	---	---	24	3	2.69	1	2.69	269	---	
						2-11-70	P	---	---	---	---	---	---	24	9	0.34	3	0.34	113	---	
Offset to Well No. 19	12	B	10	18	28	8-14-72	P	---	---	---	---	---	---	24	42	0.84	2	0.84	420	---	
						7-68	P	---	---	---	---	---	---	24	0	0	0	0	---	---	
						3-5-70	P	---	---	---	---	---	---	24	37	2.26	24	2.26	94	---	
	19	G	10	18	28	8-18-72	P	---	---	---	---	---	---	24	47	0.42	1	0.42	420	---	
						8-68	P	---	---	---	---	---	---	24	0	0	0	0	---	---	
Offset to Well No. 19	20	H	10	18	28	6-12-70	P	---	---	---	---	---	---	24	5	1.07	5	1.07	214	---	
						8-19-72	P	---	---	---	---	---	---	24	0	0.81	2	0.81	405	---	
						5-68	P	---	---	---	---	---	---	24	0	0	1	0	---	---	
						3-4-70	P	---	---	---	---	---	---	24	39	1.61	17	1.61	95	---	
	15	F	10	18	28	8-17-72	P	---	---	---	---	---	---	24	37	2.23	6	2.23	372	---	
Offset to Well No. 15	23	D	10	18	28	7-68	P	---	---	---	---	---	---	24	2	11.68	3	11.68	3893	---	
						3-11-71	P	---	---	---	---	---	---	24	2	0.39	6	0.39	65	---	
						8-22-71	P	---	---	---	---	---	---	24	0	2.06	5	2.06	412	---	
						4-68	P	---	---	---	---	---	---	24	1	10.35	3	10.35	3450	---	
	27	I	12	18	28	1-24-71	P	---	---	---	---	---	---	24	6	1.42	9	1.42	158	---	
					8-28-72	P	---	---	---	---	---	---	24	20	4.95	12	4.95	413	---		
					4-68	P	---	---	---	---	---	---	24	2	4.77	2	4.77	2385	---		
					6-27-70	P	---	---	---	---	---	---	24	0	2.53	3	2.53	843	---		
					8-15-72	P	---	---	---	---	---	---	24	1	0.42	1	0.42	420	---		

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Walter C. Smith
(Signature)

District Engineer

(Title)

September 29, 1972

(Date)

OIL CONSERVATION COMMISSION
Artesia DISTRICT

OIL CONSERVATION COMMISSION
BOX ~~401~~
SANTA FE, NEW MEXICO

Mr. Kapteina

DATE 10-25-72

Re: Proposed ~~NSP~~ WFX

Proposed NWU _____

Proposed NSL _____

Proposed NFO _____

Proposed DC _____

Gentlemen:

I have examined the application dated 10-10-72
for the Depeco Inc. Lease B Waterflood project 10-12-18-28
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approval
Please note three of the wells have perforations above
the packers, which will prevent loading the hole with
inert fluid

Yours very truly,

W. A. Gessett