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W. THOMAS KELLAHIN*

*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

August 13, 2001

HAND DELIVERED

Case 12722

Ms. Lori Wrotenbery, Director
Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Application of Occidental Permian Limited Partnership ("OXY") to amend Division Order R-6199 concerning the expansion of its North Hobbs Grayburg-San Andres Unit Pressure Maintenance Project and to qualify the project for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act," Lea County, New Mexico

Dear Ms. Wrotenbery:

On behalf of Occidental Permian Limited Partnership, please find enclosed our referenced application which we request be set for hearing on the next available Examiner's docket now scheduled for September 6, 2001.

Also enclosed is our proposed advertisement of this case for the NMOCD docket.

Very truly yours,

W. Thomas Kellahin

cc: Occidental Permian Limited Partnership
Attn: Richard E. Foppiano

CASE: 12772 Application of Occidental Permian Limited Partnership ("OXY") to amend Division Order R-6199 concerning the expansion of its North Hobbs Grayburg-San Andres Unit Pressure Maintenance Project, and to qualify the project for the recovered oil tax rate pursuant to the Enhanced Oil Recovery Act, Lea County, New Mexico. Applicant seeks approval: (i) to convert a portion of this project (Phase I) from water injection to a tertiary recovery project by the injection of carbon dioxide (CO2) and produced water and the reinjection of CO2, produced water, and produced gases including methane, natural gas liquids and hydrogen sulfide (H2S) utilizing existing and new wellbores; (ii) an increase in the authorized surface injection pressure; (iii) an increase in the gas oil ratios; (iv) an exception from Rule 704.A(2); (v) an exception from the one year commencement of injection and to qualify Phase I of the Unit for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5. This project includes all or portions of Sections 13-14, 23-25, 26, 36 of T18S, R37E and all or portions of Sections 17-20, 28, 29-33 of T18S, R38E, NMPM, Lea County, New Mexico. This project is located on the west side of the City of Hobbs, New Mexico

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF OCCIDENTAL PERMIAN LIMITED PARTNERSHIP ("OXY") TO AUTHORIZE THE EXPANSION OF ITS NORTH HOBBS GRAYBURG-SAN ANDRES UNIT PRESSURE MAINTENANCE PROJECT, AMEND DIVISION ORDER R-6199-A, AN INCREASED INJECTION PRESSURE, INCREASED GAS OIL RATIO, EXCEPTION FROM ONE YEAR COMMENCEMENT OF INJECTION, AN EXCEPTION FROM RULE 704.A(2), AND TO QUALIFY THIS EXPANSION FOR THE RECOVERED OIL TAX RATE PURSUANT TO THE "NEW MEXICO ENHANCED OIL RECOVERY ACT," LEA COUNTY, NEW MEXICO

CASE NO 12722

APPLICATION

Comes now OCCIDENTAL PERMIAN LIMITED PARTNERSHIP ("OXY"), by its attorneys, Kellahin & Kellahin, and applies to the New Mexico Oil Conservation Division ("Division") to amend Division Order R-6199 concerning the expansion of its North Hobbs Grayburg-San Andres Unit Pressure Maintenance Project as follows: (i) to convert a portion of this project (Phase I) from water injection to a tertiary recovery project by the injection of carbon dioxide (CO2) and produced water and the reinjection of CO2, produced water, and produced gases including methane, natural gas liquids and hydrogen sulfide (H2S) including existing and new wellbores; (ii) an increase in the authorized surface injection pressure; (iii) an increase in the gas oil ratios; (iv) an exception from Rule 704.A(2); (v) an exception from the one year commencement of injection; and to qualify Phase I of the Unit for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5. This project is includes all or portions of Sections 13-14, 23-25, 26, 36 of T18S, R37E and all or portions of Sections 17-20, 28, 29-33 of T18S, R38E, NMPM, Lea County, New Mexico;

and in support states:

(1) Upon the application of Shell Oil Company, the North Hobbs Grayburg San Andres Unit ("North Hobbs Unit") was statutorily unitized on October 3, 1979 by the New Mexico Oil Conservation Commission Order R-6198 entered in Case 6652.

(2) Oxy is the current operator of the North Hobbs Unit Pressure Maintenance Project ("Existing EOR Project") which was approved by Commission Order R-6199 (Case 6653) issued effective November 30, 1979.

(3) At the time of unitization, the Unit consisted of 10,649.53 acres, more or less being a portion of the Hobbs Grayburg-San Andres Pool and the pressure maintenance project consisted of some 70 injection wells for the injection of water into the Grayburg-San Andres formation.

(4) Order R-6199 authorized Shell to operate the pressure maintenance project "by the injection of water."

(5) Ultimate primary oil recovery from the Unit has been 275 MMBBLs. Under the current secondary recovery project, ultimate secondary oil recovery is estimated to be 45.2 MMBBLs. Total oil production from the Unit as of January, 2001 has been 333 MMBLs and 556 BCFG.

(6) The Unit is currently producing at 6100 BOPD and 226,000 BWPD from 144 active producers. 83 injectors are currently active.

(7) Within a portion of this Unit identified as Phase I, OXY seeks to convert this secondary recovery project to a tertiary recovery project by means of a significant change in the process used for the displacement and recovery of crude oil as follows:

> (a) within that portion of Phase I identified as the Gas Injection Area, by injection of carbon dioxide ("CO2") and produced water; and
>
> (b) within that portion of Phase I identified as the Gas Re-injection Area, by the re-injection of produced water and gases produced within the unit including CO2, natural gas liquids, methane and H2S; **(See Exhibit A)**

(8) The estimated amount of recoverable oil attributable to a Positive Production Response from water injection to CO2 injection and/CO2/water/produced gas re-injection for the Phase I area of this existing EOR Project is 76 MMBLs of additional oil.

(9) Oxy will demonstrate that its proposal to re-inject all produced gases within a portion of Phase I is essential in order to have an economically viable project and produced gas re-injection can be accomplished safely;

(10) OXY intends to utilize wellbores as follows: to convert existing water injection wells to CO2/water injectors; convert existing producers to injectors; reactivate temporarily abandoned wellbores for injection and/or production; and to drill new producers and/or injectors. **(See Exhibits B & C)**

(11) Results of some 25 step rate tests performed in the past demonstrate a minimum bottom hole parting pressure of 2600 psi for this formation. OXY proposes to operate at three different maximum **surface injection pressures** based upon substances injected that result in **bottom** hole pressures not greater than 2400 psi.

(12) Oxy's proposed surface pressure limitations will be greater than the Division's standard 0.2 psi per foot of depth. Surface injection pressures higher than the Division's standard are necessary because of friction pressure losses down the tubing, the lighter density (as compared to water) of the gaseous injectants caused by their composition and temperature and in order to attain the injection rates necessary to make this project economically viable.

(13) Compliance with this proposed bottom hole pressure limitation of 2400 psi can best be achieved by allowing OXY to inject up to the following maximum surface injection pressures for the following substances:

CO2 only injection:	1250 psi
Water injection:	1100 psi
produced gas injection:	1770 psi

(14) In order to make the injection of CO2 economically practicable, it is necessary to increase in the current total gas to total oil ratio limitation from 3500 mcf/bbl to 6,000 mcf/bbl.

(15) Oxy seeks an exception from the Division practice of requiring that actual injection commence within one (1) year of approval of an injection well.

(16) Division Rule 704.A(2) requires an initial mechanical integrity test on an injection well once every 5 years unless the "annular pressure of wells injecting at positive pressure under a packer" is measured. OXY plans to install automated pressure monitoring devices that will continuously measure the annular pressure and alert company representatives if a certain pressure level is detected then immediate action can be taken.

These devices will also provide for automatic and immediate shut-in of the injection well at a certain pressure condition on the tubing-casing annulus. Because of this real time monitoring will satisfy the objectives of Rule 704.A(2), Oxy requests the Division exempt its injection wells from being pressure tested at set intervals.

(17) In accordance with Division Rule 701, OXY is submitting satisfactory evidence on Division Form C-108 in compliance with Division Rule 701. **See Exhibit D**

(18) In accordance with Division Order R-9708, the following is submitted:

a. Operator's name and address:

Occidental Permian Limited Partnership
P. O. Box 4294
Houston, Texas 79210-4294

b. Description of the Phase I Project Area:

(1) Plat outlining Phase One Project Area:

See Exhibit "A"

(2) Description of the Phase One Area:

T18S, R37E NMPM

Sec 13:	SE/4 and W/2
Sec 14:	All
Sec 23-25:	All
Sec 26:	E/2NE/4 and NW/4NE/4
Sec 36:	NE/4, E/2NW/4 and N/2SE/4

T18S, R38E NMPM

Sec 17:	S/2NW/4 and SW/4
Sec 18:	NE/4 and S/2
Sec 19:	All
Sec 20:	S/2 and NW/4
Sec 21:	SW/4
Sec 28:	W/2
Sec 29-30:	All
Sec 31:	N/2 and N/2S/2
Sec 32:	N/2 and N/2S/2
Sec 33:	NW/4

(3) Total acres in Phase One Project Area:

8,200 acres, more or less

(4) Name of the subject Pool and formation:

San Andres formation of the
Hobbs Pool (Grayburg-San Andres)

c. Status of operations in the project area:

(1) unit name:

North Hobbs Grayburg-San Andres Unit
Order R-6198 issued November 30, 1797
(statutory unitization order)

(2) (if an application has been made for approval of a unit plan)
concurrently with this application, OXY has filed to amend the statutory unitization order to include approval of this tertiary recovery project

(3) N/A (if not unitized, identify each lease in project area....)

d. Method of recovery to be used:

(1) a tertiary recovery process involving the application of a carbon dioxide miscible fluid displacement mechanism. Fluids to be injected include produced water, carbon dioxide, produced gases including methane, natural gas liquids and H2S

(2) Approved by Order R-6199
issued November 30, 1979
Expansion approved by Order R-6199-A
issued August 4, 1983

(3) N/A (if the project has not been approved....)

e. Description of the Phase One Project Area:

(1) a list of producing wells:
See Exhibit "C"

(2) a list of injection wells:
See Exhibit "B"

(3) Capital cost of additional facilities:

$ 321 million

(4) Total Project Costs:

$ 511 million

(5) Estimated total value of the additional production that will be recovered as a result of this tertiary recovery project:

An additional 76 mmbls of oil with a current undiscounted gross value of $ 1520 MM

(6) Anticipated date of commencement of injection:

fourth quarter of 2002

(7) the type of fluid to be injected and the anticipated volumes:

maximum water injection rate of 100,000 BWPD

maximum CO2 injection rate of 110 MMCFPD

maximum rejection of CO2 and all produced gases of 80 MMCFPD

(8) Explanation of changes in technology:

This is a miscible carbon dioxide flood superseding a waterflood. The process will involve a tapered WAG (water alternating with gas), injection of a CO2 slug size equal to 60% hydrocarbon pore volume (HPCV) on a 160-acre 9 spot pattern (for zone 1 and 2); and a tapered WAG with an injection of a CO2 slug size equal to 80% of the HPCV on a 40-acre 5 spot pattern for zone 3.

f. Production data:

historical production graph **See Exhibit E**
oil production forecast **See Exhibit F**

Wherefore, Applicant requests that this application be set for hearing and that after said hearing, the Division enter its order approving this application.

Respectfully submitted

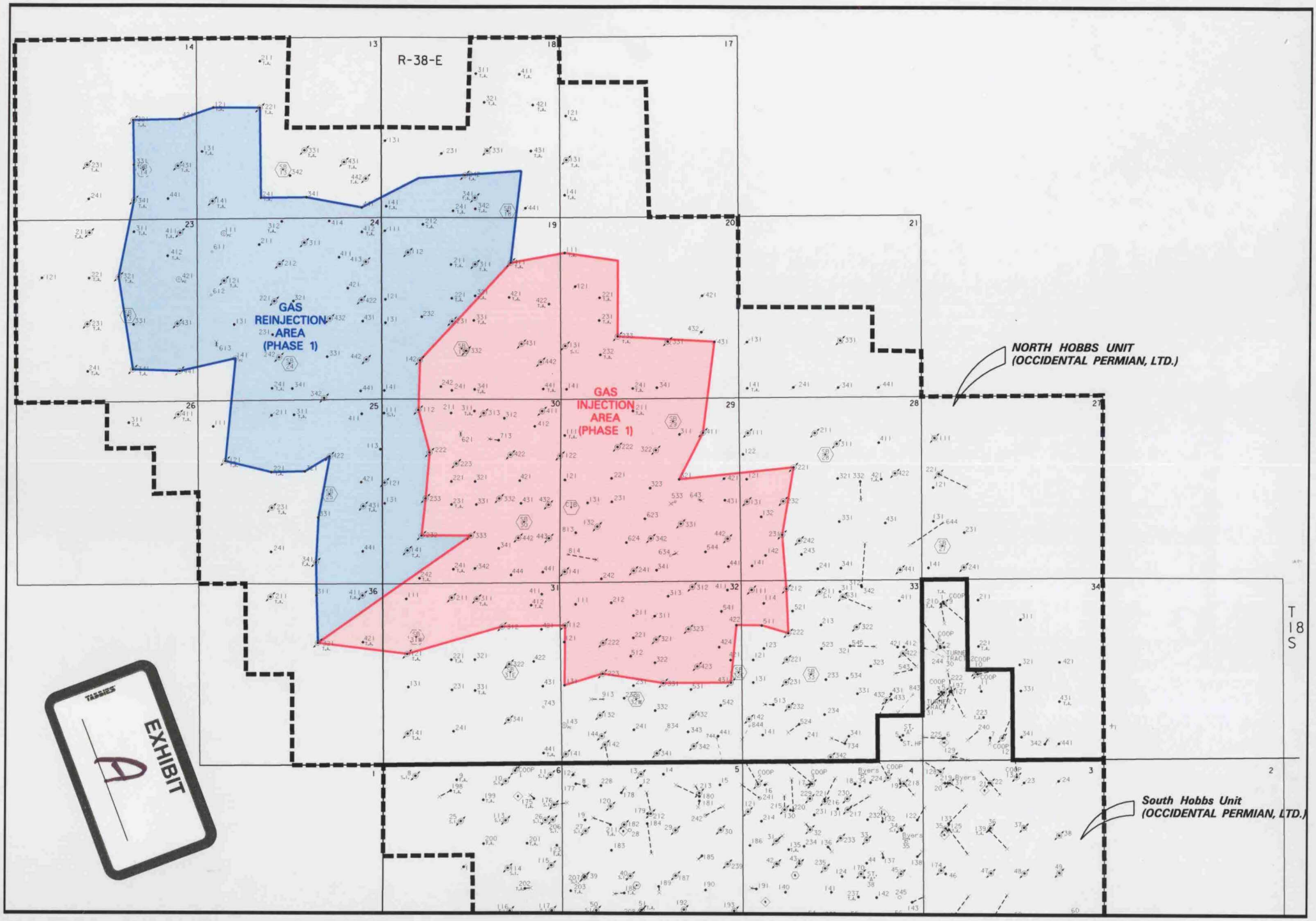
W. Thomas Kellahin
KELLAHIN & KELLAHIN
P.O. Box 2265
Santa Fe, New Mexico 87504
(505) 982-4285

CERTIFICATION

STATE OF TEXAS §
§
COUNTY OF HARRIS §

I, Richard E. Foppiano, having been first duly sworn, state that I am a petroleum engineer, a duly authorized representative of Occidental Permian Limited Partnership ("OXY"), have knowledge of the facts herein and therefor certify that the facts set forth in this Application are true and accurate to the best of my own knowledge and belief.

Richard E. Foppiano


R-38-E
GAS REINJECTION AREA (PHASE 1)
GAS INJECTION AREA (PHASE 1)
NORTH HOBBS UNIT (OCCIDENTAL PERMIAN, LTD.)
South Hobbs Unit (OCCIDENTAL PERMIAN, LTD.)
T 18 S
EXHIBIT A

North Hobbs Unit CO2 Project

Phase 1 Injection Well List

Well	Footage Location	Section	Township	Range	Current Status	CO2 Status 1	Status 2
121	1980' FNL & 660' FWL	13	18S	37E	TA Prod		
141	660' FSL & 660' FWL	13	18S	37E	TA Inj		
221	1980' FNL & 1980' FWL	13	18S	37E	TA Inj		
241	660' FSL & 1980' FWL	13	18S	37E	TA Prod	Producer	
341	660' FSL & 1980' FEL	13	18S	37E	Producer		
441	330' FSL & 330' FEL	13	18S	37E	Producer		
321	2310' FNL & 1650' FEL	14	18S	37E	TA Inj		
341	660' FSL & 1650' FEL	14	18S	37E	TA Prod		
342	330' FSL & 2310' FEL	18	18S	38E	TA Prod		
112	990' FNL & 990' FWL	19	18S	38E	Injector		
142	1200' FSL & 1300' FWL	19	18S	38E	Injector		
231	2310' FSL & 2310' FWL	19	18S	38E	Injector		
232	2501' FSL & 1410' FWL	19	18S	38E	Producer		
311	1309' FNL & 2310' FEL	19	18S	38E	TA Prod		
332	1430' FSL & 2535' FEL	19	18S	38E	Injector	Producer	Injector
411	1300' FNL & 1300' FEL	19	18S	38E	TA Prod		
431	1650' FSL & 990' FEL	19	18S	38E	Injector	Injector	
233	1610' FSL & 1850' FWL	20	18S	38E	TA Prod	Injector	
321	1650' FNL & 1650' FEL	23	18S	37E	TA Prod		
341	990' FSL & 1650' FEL	23	18S	37E	TA Prod		
121	1650' FNL & 990' FWL	24	18S	37E	TA Prod		
141	1315' FSL & 1315' FWL	24	18S	37E	Producer		
212	1263' FNL & 2605' FWL	24	18S	37E	Injector	Producer	
331	1320' FSL & 1325' FEL	24	18S	37E	Producer		
411	990' FNL & 990' FEL	24	18S	37E	Producer		
413	1200' FNL & 206' FEL	24	18S	37E	Injector	Producer	
414	10' FNL & 1280' FEL	24	18S	37E	Producer		
431	990' FSL & 330' FEL	24	18S	37E	Producer		
432	2741' FSL & 1286' FEL	24	18S	37E	Injector	Producer	
442	1260' FSL & 200' FEL	24	18S	37E	Injector	Producer	
121	1650' FNL & 990' FWL	25	18S	37E	TA Inj		
341	660' FSL & 1650' FEL	25	18S	37E	TA Inj		
411	330' FNL & 330' FEL	25	18S	37E	Producer		
422	1550' FNL & 1300' FEL	25	18S	37E	Injector		
221	1910' FNL & 1650' FWL	28	18S	38E	Injector	Injector	
231	1325' FSL & 1325' FWL	28	18S	38E	Injector	Injector	
122	1600' FNL & 180' FWL	29	18S	38E	Injector	Producer	Injector
132	1623' FSL & 1218' FWL	29	18S	38E	Injector	Injector	
141	330' FSL & 330' FWL	29	18S	38E	Injector	Injector	
222	1370' FNL & 850' FWL	29	18S	38E	Injector	Injector	
241	330' FSL & 2310' FWL	29	18S	38E	Injector	Injector	
242	100' FSL & 1400' FWL	29	18S	38E	Producer	Injector	
321	2310' FNL & 1650' FEL	29	18S	38E	Producer	Injector	
331	1650' FSL & 1650' FEL	29	18S	38E	Injector	Injector	
342	1230' FSL & 2500' FEL	29	18S	38E	Injector	Injector	
411	990' FNL & 990' FEL	29	18S	38E	TA Inj	Injector	
442	1230' FSL & 220' FEL	29	18S	38E	Injector	Injector	
112	200' FNL & 1310' FWL	30	18S	38E	Injector	Producer	
113	1310' FNL & 195' FWL	30	18S	38E	Producer		
222	1470' FNL & 1395' FWL	30	18S	38E	Injector		

223	1770' FNL & 2405' FWL	30	18S	38E	Injector	Producer	Injector
232	1400' FSL & 1370' FWL	30	18S	38E	Injector	[redacted]	
233	2455' FSL & 1480' FWL	30	18S	38E	Injector	Producer	[redacted]
312	520' FNL & 1448' FEL	30	18S	38E	Producer	Injector	
313	405' FNL & 2272' FEL	30	18S	38E	Injector	Injector	
331	2335' FSL & 2310' FEL	30	18S	38E	Producer	Injector	
332	2470' FSL & 1600' FEL	30	18S	38E	Injector	Injector	
333	1400' FSL & 2430' FEL	30	18S	38E	Injector	Producer	[redacted]
422	1520' FNL & 1300' FEL	30	18S	38E	Injector	Injector	
432	2260' FSL & 178' FEL	30	18S	38E	Injector	Injector	
442	1300' FSL & 1050' FEL	30	18S	38E	Injector	Injector	
443	1300' FSL & 160' FEL	30	18S	38E	Injector	Injector	
444	215' FSL & 1225' FEL	30	18S	38E	Producer	Injector	
121	1980' FNL & 990' FWL	31	18S	38E	TA Prod	Injector	
312	1262' FNL & 1520' FEL	31	18S	38E	Injector	Injector	
112	1370' FNL & 330' FWL	32	18S	38E	Injector	Injector	
131	2310' FNL & 330' FWL	32	18S	38E	Producer	Injector	
222	1720' FNL & 1370' FWL	32	18S	38E	Injector	Injector	
223	2630' FNL & 1420' FWL	32	18S	38E	Injector	Producer	Injector
312	210' FNL & 1400' FEL	32	18S	38E	Injector	Producer	Injector
321	1650' FNL & 2310' FEL	32	18S	38E	Injector	Producer	Injector
323	1370' FNL & 1400' FEL	32	18S	38E	Injector	Injector	
422	1385' FNL & 110' FEL	32	18S	38E	Producer	Injector	
423	2540' FNL & 1280' FEL	32	18S	38E	Injector	Injector	
431	2310' FSL & 330' FEL	32	18S	38E	Injector	Injector	
111	330' FNL & 330' FWL	33	18S	38E	Producer	Injector	
212	205' FNL & 1420' FWL	33	18S	38E	Injector	Producer	Injector
222	1520' FNL & 1470' FWL	33	18S	38E	Injector	Injector	
321	1650' FNL & 1650' FEL	36	18S	37E	TA Inj	[redacted]	
118JP	J/P	18	18S	38E	New	[redacted]	
118LN	L/N	18	18S	38E	New	[redacted]	
118MN	M/N	18	18S	38E	New	[redacted]	
112A	D	19	18S	38E	New	[redacted]	
142A	N	19	18S	38E	New	[redacted]	
431A	1650' FSL & 660' FEL	20	18S	38E	Plugged	Injector	
120DF	D/F	20	18S	38E	New	Injector	
312A	B	24	18S	38E	New	[redacted]	
331A	J	24	18S	38E	New	[redacted]	
124G	G	24	18S	38E	New	[redacted]	
124F	F	24	18S	38E	New	[redacted]	
125AB	A/B	25	18S	38E	New	[redacted]	
323A	G	29	18S	38E	New	Injector	
342A	O	29	18S	38E	New	Injector	
442A	P	29	18S	38E	New	Injector	
129E	E	29	18S	38E	New	Injector	
222A	F	30	18S	38E	New	[redacted]	
342A	O	30	18S	38E	Plugged	Injector	
422A	H	30	18S	38E	New	Injector	
442A	P	30	18S	38E	New	Injector	
312A	B	31	18S	38E	New	Injector	
222A	F	32	18S	38E	New	Injector	
323A	G	32	18S	38E	New	Injector	
331A	2310' FSL & 2310' FEL	32	18S	38E	New	Injector	
		Note: Shading denotes wells that will be injecting CO2, water and produced gases. All other injectors shown above will be injecting CO2 and water.					

North Hobbs Unit CO2 Project

Phase 1 Producing Well List

Section	Townshi	Range	Well	Current Status	Future Status
13	18 South	37 East	131	TA Prod	Infill Producer
13	18 South	37 East	241	TA Prod	Infill Producer
13	18 South	37 East	331	TA Inj	Infill Producer
13	18 South	37 East	442	TA Inj	Infill Producer
14	18 South	37 East	331	TA Prod	Infill Producer
14	18 South	37 East	421	Producer	Infill Producer
14	18 South	37 East	431	TA Prod	Producer
14	18 South	37 East	441	Producer	Infill Producer
18	18 South	38 East	242	TA Prod	Infill Producer
19	18 South	38 East	111	TA Prod	Producer
19	18 South	38 East	121	Producer	Producer
19	18 South	38 East	141	Producer	Producer
19	18 South	38 East	211	TA Prod	Infill Producer
19	18 South	38 East	212	TA Prod	Producer
19	18 South	38 East	212	Producer	Infill Producer
19	18 South	38 East	221	TA Prod	Producer
19	18 South	38 East	232	Producer	Infill Producer
19	18 South	38 East	241	Producer	Producer
19	18 South	38 East	242	Producer	Producer
19	18 South	38 East	321	TA Prod	Producer
19	18 South	38 East	332	Injector	Infill Producer
19	18 South	38 East	341	TA Prod	Producer
19	18 South	38 East	421	TA Prod	Infill Producer
19	18 South	38 East	422	TA Prod	Producer
19	18 South	38 East	441	TA Prod	Producer
20	18 South	38 East	111	TA Prod	Infill Producer
20	18 South	38 East	131	TA Prod	Infill Producer
20	18 South	38 East	141	Producer	Producer
20	18 South	38 East	221	TA Prod	Infill Producer
20	18 South	38 East	241	TA Prod	Infill Producer
20	18 South	38 East	341	Producer	Producer
23	18 South	37 East	311	TA Prod	Infill Producer
23	18 South	37 East	331	Producer	Infill Producer
23	18 South	37 East	411	TA Prod	Producer
23	18 South	37 East	421	Producer	Infill Producer
23	18 South	37 East	431	TA Prod	Producer
23	18 South	37 East	441	Producer	Infill Producer
24	18 South	37 East	111	TA Prod	Infill Producer
24	18 South	37 East	131	Producer	Infill Producer
24	18 South	37 East	211	Producer	Producer
24	18 South	37 East	212	Injector	Infill Producer
24	18 South	37 East	221	Injector	Producer
24	18 South	37 East	231	Producer	Producer
24	18 South	37 East	242	Injector	Infill Producer
24	18 South	37 East	311	Injector	Producer
24	18 South	37 East	321	Producer	Producer
24	18 South	37 East	341	Producer	Producer

24	18 South	37 East	342	Injector	Producer
24	18 South	37 East	412	TA Prod	Producer
24	18 South	37 East	412	Producer	Producer
24	18 South	37 East	413	Injector	Infill Producer
24	18 South	37 East	414	Producer	Infill Producer
24	18 South	37 East	421	Producer	Producer
24	18 South	37 East	432	Injector	Infill Producer
24	18 South	37 East	441	Producer	Producer
24	18 South	37 East	442	Injector	Infill Producer
25	18 South	37 East	111	Producer	Infill Producer
25	18 South	37 East	221	TA Prod	Infill Producer
25	18 South	37 East	311	TA Prod	Producer
25	18 South	37 East	331	Producer	Infill Producer
25	18 South	37 East	421	Producer	Producer
25	18 South	37 East	441	Producer	Infill Producer
28	18 South	38 East	111	Injector	Infill Producer
28	18 South	38 East	121	Producer	Producer
28	18 South	38 East	132	Producer	Producer
28	18 South	38 East	141	Producer	Producer
28	18 South	38 East	142	Producer	Producer
29	18 South	38 East	111	TA Prod	Producer
29	18 South	38 East	121	Producer	Producer
29	18 South	38 East	122	Injector	Infill Producer
29	18 South	38 East	131	Producer	Producer
29	18 South	38 East	221	Producer	Infill Producer
29	18 South	38 East	231	Producer	Producer
29	18 South	38 East	544	Producer	Infill Producer
29	18 South	38 East	623	Producer	Producer
29	18 South	38 East	624	Producer	Producer
29	18 South	38 East	634	Producer	Producer
29	18 South	38 East	643	Producer	Producer
29	18 South	38 East	813	Producer	Infill Producer
30	18 South	38 East	111	SI Prd	Producer
30	18 South	38 East	112	Injector	Infill Producer
30	18 South	38 East	113	Producer	Infill Producer
30	18 South	38 East	121	Injector	Producer
30	18 South	38 East	131	Producer	Producer
30	18 South	38 East	221	Producer	Producer
30	18 South	38 East	223	Producer	Infill Producer
30	18 South	38 East	231	TA Prod	Producer
30	18 South	38 East	233	Injector	Infill Producer
30	18 South	38 East	312	Producer	Infill Producer
30	18 South	38 East	321	Producer	Producer
30	18 South	38 East	333	Injector	Infill Producer
30	18 South	38 East	341	Producer	Producer
30	18 South	38 East	412	Producer	Producer
30	18 South	38 East	421	Producer	Producer
30	18 South	38 East	431	Producer	Infill Producer
30	18 South	38 East	444	Producer	Infill Producer
30	18 South	38 East	621	Producer	Producer
30	18 South	38 East	713	Producer	Producer
31	18 South	38 East	111	Producer	Infill Producer

31	18 South	38 East		131	Producer	Producer
31	18 South	38 East		211	TA Prod	Producer
31	18 South	38 East		231	Producer	Producer
31	18 South	38 East		311	TA Inj	Producer
31	18 South	38 East		321	Producer	Producer
31	18 South	38 East		411	Producer	Producer
31	18 South	38 East		421	Producer	Infill Producer
31	18 South	38 East		422	Producer	Producer
31	18 South	38 East		431	Producer	Producer
31	18 South	38 East		743	Producer	Producer
32	18 South	38 East		111	Producer	Producer
32	18 South	38 East		212	Producer	Infill Producer
32	18 South	38 East		232	Producer	Producer
32	18 South	38 East		312	Producer	Infill Producer
32	18 South	38 East		313	Producer	Producer
32	18 South	38 East		321	Injector	Infill Producer
32	18 South	38 East		331	Injector	Producer
32	18 South	38 East		332	Injector	Infill Producer
32	18 South	38 East		411	Producer	Producer
32	18 South	38 East		421	Producer	Producer
32	18 South	38 East		422	Producer	Infill Producer
32	18 South	38 East		424	Producer	Producer
32	18 South	38 East		512	Producer	Producer
32	18 South	38 East		531	Producer	Infill Producer
32	18 South	38 East		541	Producer	Producer
32	18 South	38 East		542	Producer	Producer
32	18 South	38 East		913	Producer	Producer
33	18 South	38 East		114	Producer	Producer
33	18 South	38 East		123	Producer	Producer
33	18 South	38 East		212	Injector	Infill Producer
33	18 South	38 East		221	Injector	Infill Producer
33	18 South	38 East		511	Producer	Producer
36	18 South	37 East		311	Producer	Infill Producer
36	18 South	37 East		411	TA Inj	Producer
36	18 South	37 East		421	TA Prod	Infill Producer
13K	18 South	37 East	N/A			New Producer
13M	18 South	37 East	N/A			New Producer
13MN	18 South	37 East	N/A			New Producer
13N	18 South	37 East	N/A			New Producer
13O	18 South	37 East	N/A			New Producer
13P	18 South	37 East	N/A			New Producer
18M	18 South	38 East	N/A			New Producer
18N	18 South	38 East	N/A			New Producer
18O	18 South	38 East	N/A			New Producer
19B	18 South	38 East	N/A			New Producer
19C	18 South	38 East	N/A			New Producer
19C	18 South	38 East	N/A			New Producer
19J	18 South	38 East	N/A			New Producer
19K	18 South	38 East	N/A			New Producer
19L	18 South	38 East	N/A			New Producer
20J	18 South	38 East	331A		Plugged	New Producer
20O	18 South	38 East	N/A			New Producer

24I	18 South	37 East	N/A	New Producer
24J	18 South	37 East	N/A	New Producer
25A	18 South	37 East	N/A	New Producer
25B	18 South	37 East	N/A	New Producer
29F	18 South	38 East	N/A	New Producer
29G	18 South	38 East	N/A	New Producer
29H	18 South	38 East	N/A	New Producer
29J	18 South	38 East	N/A	New Producer
29M	18 South	38 East	N/A	New Producer
30D	18 South	38 East	N/A	New Producer
30I	18 South	38 East	N/A	New Producer
30J	18 South	38 East	N/A	New Producer
30K	18 South	38 East	N/A	New Producer
30L	18 South	38 East	N/A	New Producer
30N	18 South	38 East	N/A	New Producer
30P	18 South	38 East	N/A	New Producer
31G	18 South	38 East	321A	New Producer
31J	18 South	38 East	N/A	New Producer
32B	18 South	38 East	N/A	New Producer
32E	18 South	38 East	N/A	New Producer
32G	18 South	38 East	N/A	New Producer

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

EXHIBIT D

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery __X__ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes __X__ No

II. OPERATOR: Occidental Permian Limited Partnership

ADDRESS: P.O. Box 4294 Houston, TX 77210-4294

CONTACT PARTY: Richard E. Foppiano, Rm. 320D, WL2 PHONE: (281) 552-1303

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? __X__ Yes _____ No
If yes, give the Division order number authorizing the project: R-6199 (11/30/79)

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 sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and text data on the well. (If well logs have been filed with the Division they need not be submitted).

*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.

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.

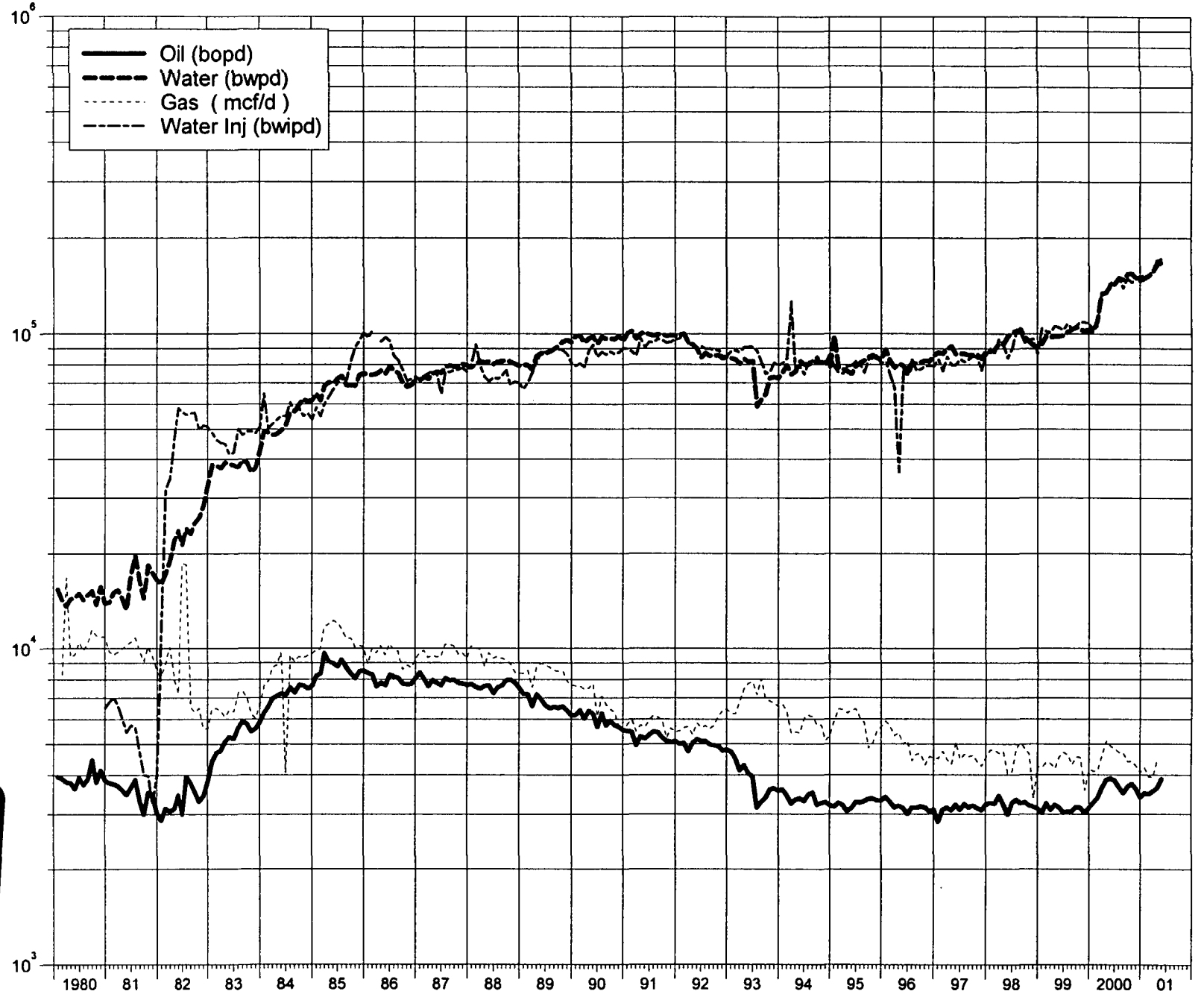
NAME: Richard E. Foppiano TITLE: Senior Advisor - Reg. Affairs

SIGNATURE: Richard E. Foppiano DATE: August 8, 2001

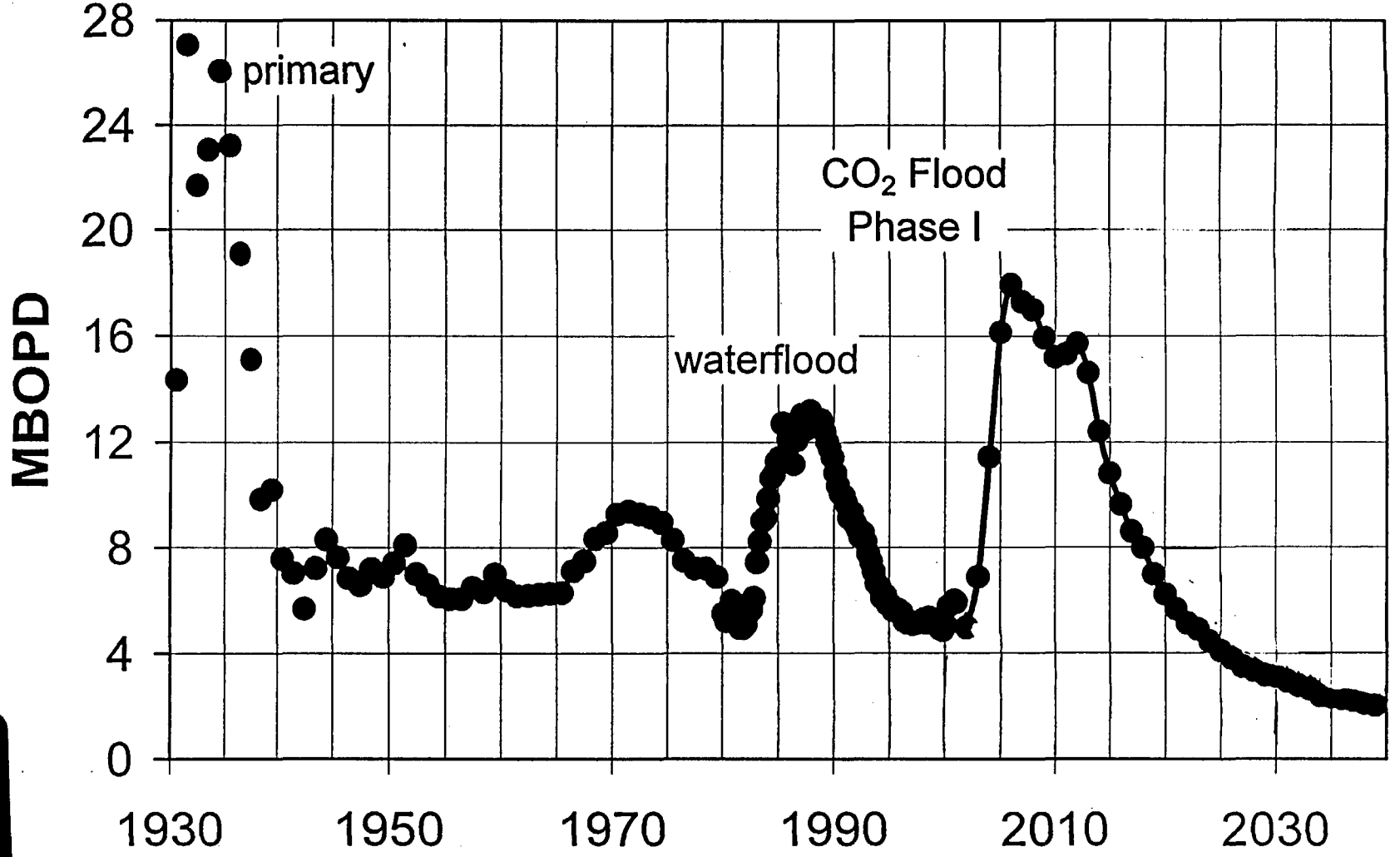
* If the information required under Section VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. Hearing October 3, 1979; Case No. 6653, Order No. R-6199, effective November 30, 1979

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office.

North Hobbs Unit CO2 Project Area



North Hobbs Unit
Oil Production History and Forecast



EXHIBIT