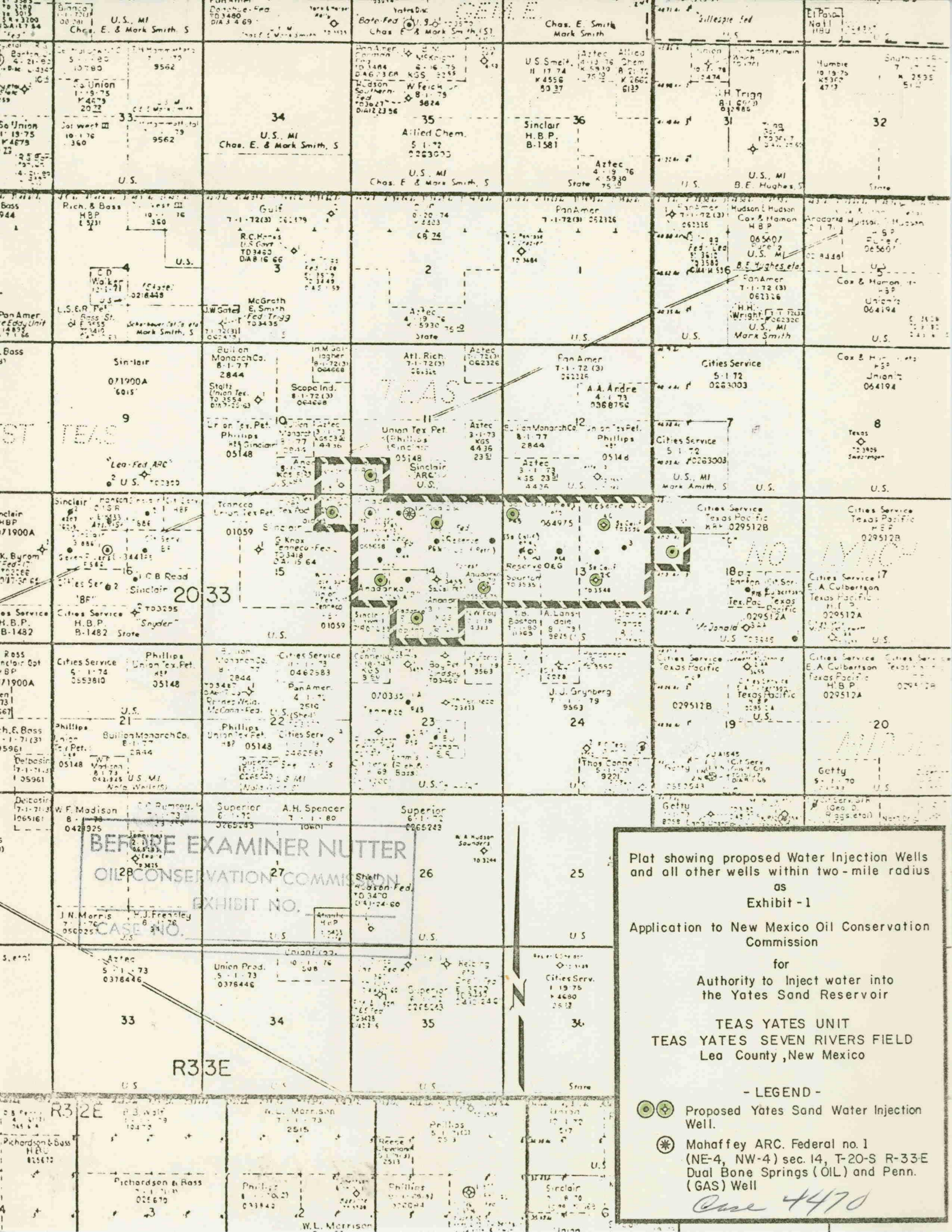
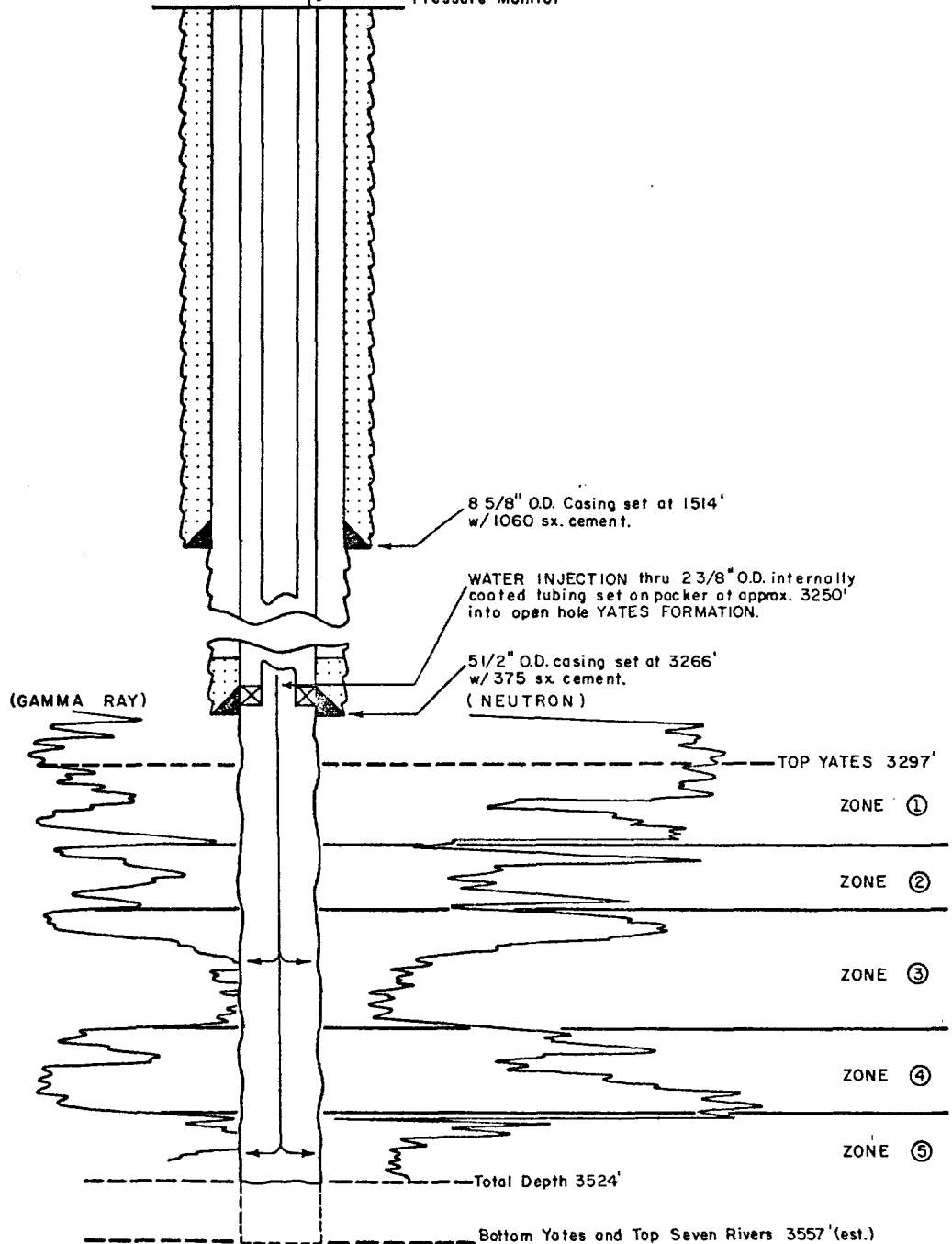




Plat showing proposed Water Injection Wells
and all other wells within two-mile radius
as
Exhibit - 1
Application to New Mexico Oil Conservation
Commission
for
Authority to Inject water into
the Yates Sand Reservoir
TEAS YATES UNIT
TEAS YATES SEVEN RIVERS FIELD
Lea County, New Mexico
- LEGEND -
Proposed Yates Sand Water Injection
Well.
Mahaffey ARC. Federal no. 1
(NE-4, NW-4) sec. 14, T-20-S R-33E
Dual Bone Springs (OIL) and Penn.
(GAS) Well
Case 4470

TEAS YATES UNIT
Well no. 1-1
SW-4 NW-4, Section 18 - T-20-S, R-34-E
Pressure Monitor



Injection water to be a mixture of Yates produced water and Seven Rivers source water. Average daily water injection rates estimated at 300 BPD. per well at surface pressure of 1800 psi.

* Formerly Cities Service Oil Company
J. McDonald "C" well no. 1

Case 4470



**ANADARKO
PRODUCTION COMPANY**

DIAGRAMMATIC SKETCH of TYPICAL INJECTION WELL
as

Exhibit - 3

to

Application to New Mexico Oil Conservation Commission
for

Authority to Inject water
into the Yates Sand Reservoir

TEAS YATES UNIT
TEAS YATES - SEVEN RIVERS FIELD
Lea County, New Mexico

PROPOSED WATER INJECTION WELL COMPLETIONS
EXHIBIT 4

APPLICATION TO NEW MEXICO OIL CONSERVATION COMMISSION
FOR
AUTHORITY TO INJECT WATER INTO YATES SAND RESERVOIR

TEAS YATES UNIT
TEAS YATES SEVEN-RIVERS FIELD
LEA COUNTY, NEW MEXICO

Unit Well Number	Previous Operator, Lease, and Well No.	Location Section - Twp - Range	Elev.	Total Depth	Present Completion Formation		Casing		Proposed Water Injection Completion
					Zone	Interval	Surface	Long	
1-1	Cities Service Jewell McDonald #1	SW/4 NW/4 18-20S-34E	3624'	3524'	Yates-pump	3266'-3524' (OH)	8-5/8" OD set at 1514' cemented w/ 1060 sacks.	5 1/2" OD set at 3266' cemented w/ 375 sacks.	Well now prod. from all porous Yates Zones from open hole. Water will be injected into these open hole intervals.
2-2	Reserve Federal Bobb #2	NW/4 NW/4 13-20S-33E	3599'	3359'	Yates-pump	3325'-59' (OH)	No surface	5 1/2" OD set at 3325' cemented w/ 200 sacks around shoe and 200 sacks thru stage at 1410'.	Well now prod. from Yates Zone 3 (open hole). Well will be deepened thru all Yates Zones, logged and completed in all Yates Zones of porosity for injection.
3-2	Reserve Federal Bobb "C" #2	NW/4 SE/4 13-20S-33E	3611'	3540'	Yates-TA	3335'-50' (perf) 3361'-66' (perf)	8-5/8" OD set at 1001' cemented w/ 500 sacks.	5 1/2" OD set at 3491' cemented w/ 75 sacks.	Well now perf. in Yates Zone 1 (TA). Yates Zones 2 and 3 (perf) and Zone 5 (open hole) to be opened for injection.
3-4	Reserve Federal Bobb "C" #4	NW/4 NE/4 13-20S-33E	3608'	3536'	None	Dry Hole	8-5/8" OD set at 990' cemented w/ 525 sacks.	None	Well now plugged and abandoned. Well to be re-entered, logged, and completed for injection in porous Yates Zones thru perfs.
6-1	Anadarko Sinclair Federal #1	NW/4 SW/4 14-20S-33E	3566'	3428'	Yates-TA	3236'-56' (perf) 3284'-3370' (perf)	8-5/8" OD set at 950' cemented w/ 300 sacks- circulated.	4 1/2" OD set at 3426' cemented w/ 523 sacks- top cement 650'.	Well now prod. thru perfs. from Yates Zones 2 and 3. Water to be injected into these zones.

BEFORE EXAMINER
CITY OF ALBUQUERQUE, N.M.
CITY CLERK
CASE NO. 4470

Case
4470

PROPOSED WATER INJECTION WELL COMPLETIONS
EXHIBIT 4

TO
APPLICATION TO NEW MEXICO OIL CONSERVATION COMMISSION
FOR
AUTHORITY TO INJECT WATER INTO YATES SAND RESERVOIR

TEAS YATES UNIT
TEAS YATES SEVEN-RIVERS FIELD
LEA COUNTY, NEW MEXICO

Unit Well Number	Previous Operator, Lease, and Well No.	Location Section - Twp - Range	Elev.	Total Depth	Completion Zone	Present Formation Interval	Casing Surface	Long	Proposed Water Injection Completion
9-1	Anadarko Federal "C" #1	SE/4 SW/4 14-20S-33E	3596'	3342'	Yates-pump	3290'-3342' (OH) 3267'-86' (perf)	No surface	7" OD set at 3290' cemented w/ Yates Zones 2 and 3. 50 sacks around shoe thru all Yates Zones, and 400 sacks logged, and completed in all Yates Zones of porosity for injection.	
11-1	Reserve Federal 1-14 #1	NW/4 NE/4 14-20S-33E	3592'	3319'	Yates-pump	3235'-50' (OH) 3275'-87' (OH)	No surface	5 1/2" OD set at 3215' cemented w/ 335 sacks 10% plus 100 sacks neat circulated to surface.	Well now prod. from Yates Zone 2 and 3 (open hole). Well will be deepened thru all Yates Zones, logged, and completed in all Yates Zones of porosity for injection.
12-1	Anadarko Federal AC #1	NE/4 NE/4 15-20S-33E	3582'	3335'	Yates-pump	3293'-3335' (OH)	No surface	5 1/2" OD set at 3293' cemented w/ 50 sacks around shoe thru all Yates Zones, logged, and and 300 sacks completed in all Yates Zones of porosity for injection.	Well now prod. from Yates Zone 2 and poss. 3 (open hole). Well will be deepened thru all Yates Zones, logged, and completed in all Yates Zones of porosity for injection.
13-1	Anadarko Federal AB #1	SW/4 SW/4 11-20S-33E	3578'	3507' 3364' PB	Yates-pump	3282'-3300' (perf) 3330'-3352' (perf)	No surface	5 1/2" OD set at 3275' cemented w/ Yates Zones 3 and poss. 50 sacks- 4 to be opened for water injection thru perfs. 5 1/2" @ 2500' and cemented w/450 sacks-top cement 970', 4" OD liner 3219'-3487' cemented w/40 sacks.	Well prod. thru perfs from Yates Zones 1 and 2. Yates Zones 3 and poss. 4 to be opened for water injection thru perfs.

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