CITIES SERVICE COMPANY
ENERGY RESOURCES GROUP

Box 1919
Midland, Texas 79702
(915) 684-7131

March 28, 1979

New Mexico Oil Conservation Div.
P.O. Box 2088
Santa Fe, NM 87501

Re: Request for administrative approval to convert Southeast Maljamar Grayburg-San Andres Unit #402 from an oil well to a water injection well.

Gentlemen:

Cities Service Company respectfully requests administrative approval to convert to water injection its Southeast Maljamar Grayburg-San Andres Unit #402, located 1980' from the North line and 660' from the West line of Section 29, Township 17S, Range 33E, Lea County, New Mexico. In support of this request we are enclosing a plat, diagrammatic sketch, log, tubular summaries of wells within one-half mile of this well, and letters to offset operators relating to this conversion.

If additional information is needed, please advise.

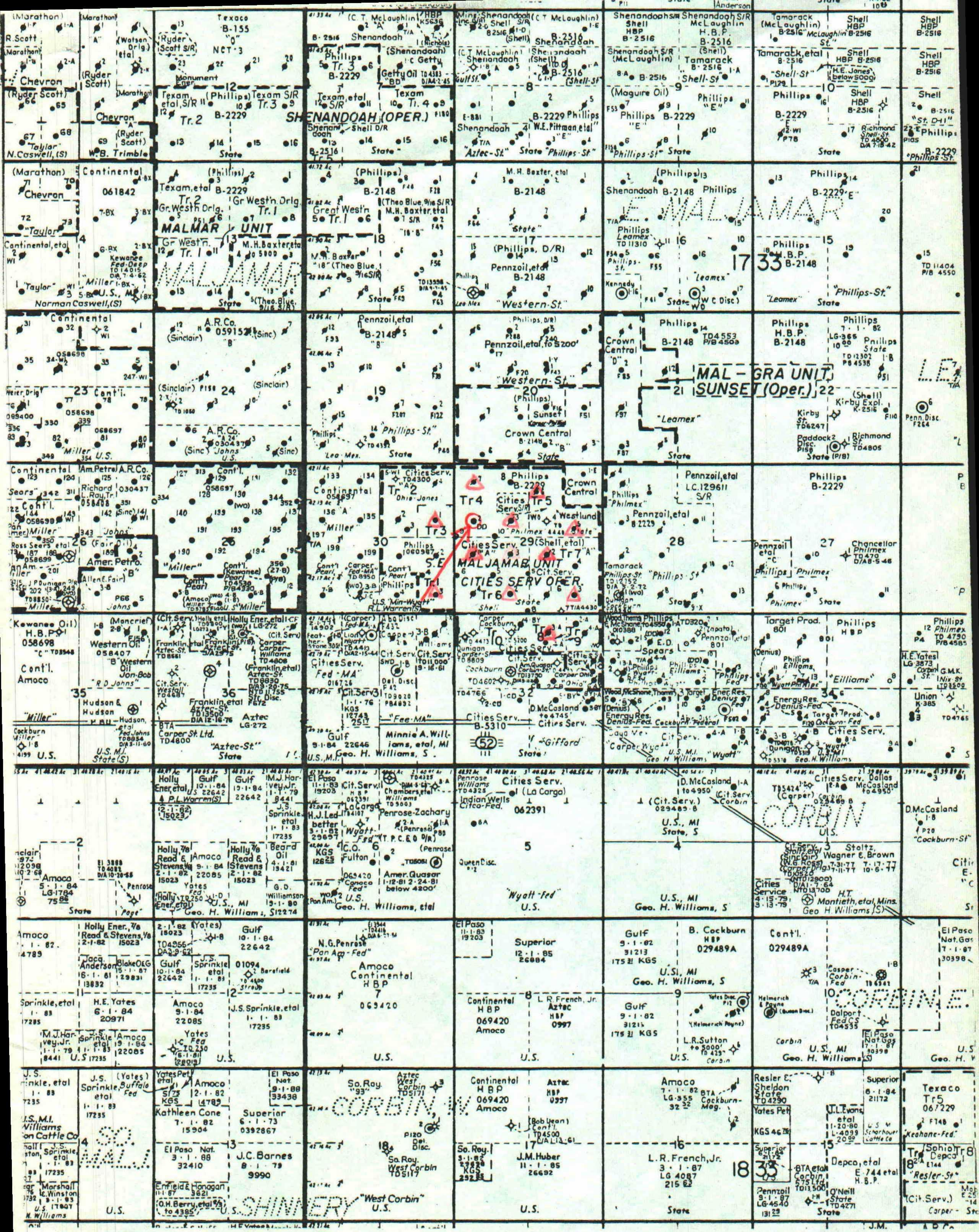
Yours very truly

E. Y. Wilder
Region Operations Manager
Southwest Region
E & P Division

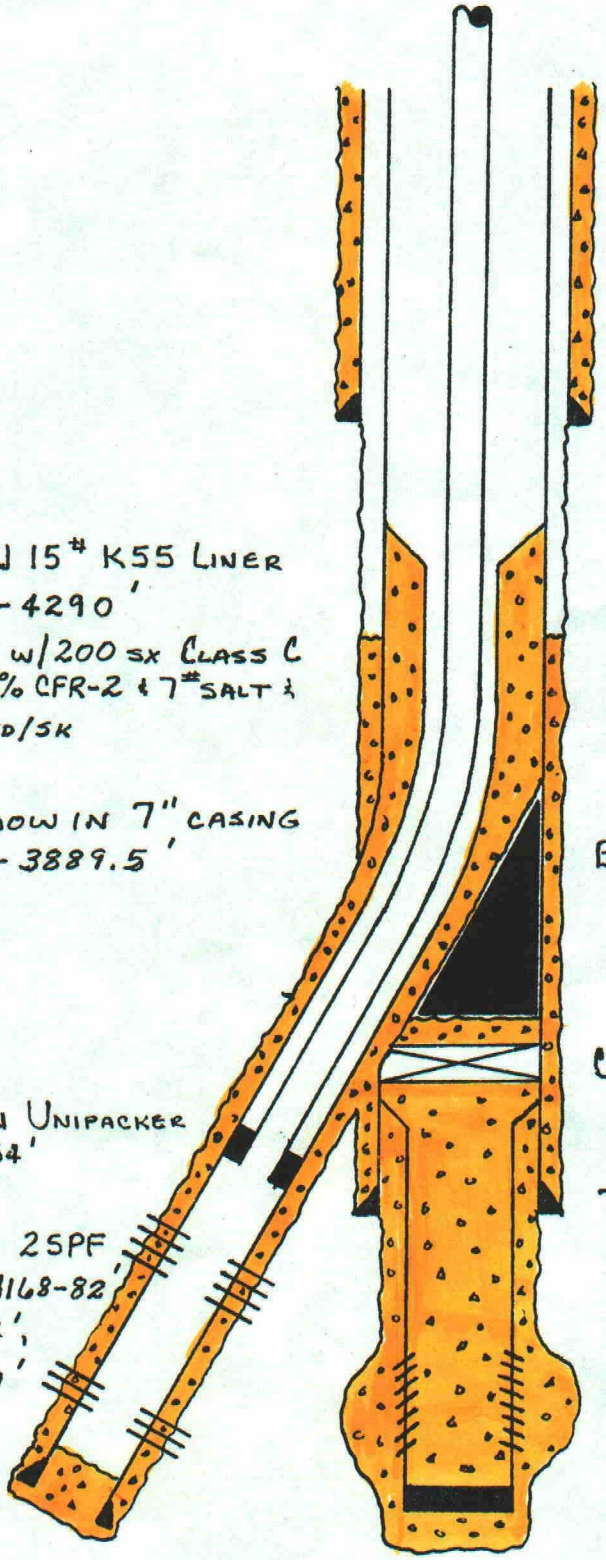
EYW:RHS:sl

cc: Oil Conservation Commission Div.
P.O. Box 1980
Hobbs, NM 88240

cc: SEE ATTACHED ADDRESS LIST


SHENANDOAH (OPER.)
MALMAR UNIT
MALJAMAR
E. MALJAMAR
MAL-GRA UNIT
SUNSET (Oper.)
S.E. MALJAMAR UNIT
CITIES SERV. OPER.
CORBIN
CORBIN E.
CORBIN W.
SO. MALJ.
SHINNERY
17 33
18 33

Cities Service Company
S.E. Maljamar GBSAU #402W
Recompletion Schematic



2 3/8" EUE 4.7# 8RJ-55
Plastic Coated Tubing

9 5/8" Casing @ 1122'

5" Hydril FJ 15# K55 Liner
3766 - 4290'
Cemented w/200 sx Class C
w/0.5% CFR-2 & 7# salt &
3# sand/sk

Milled window in 7" casing
3876 - 3889.5'

Bowen 4° whipstock set on
retainer PBTD 3895'

Cement Retainer @ 3897'

5" Guiberson Unipacker
VI @ 4054'

7" Casing @ 4007'

Perforations 2SPF
4144 - 56', 4168-82',
4194 - 4204',
4214 - 4240'

4281' PBTD

has junk in btm of hole if tbg. will seating nipple & slotted liner

5" Slotted Liner @ 3942 - 4234'

New TD 4290'

TD 4320'

CITIES SERVICE COMPANY
ENERGY RESOURCES GROUP

Box 1919
Midland, Texas 79702
(915) 684-7131

March 28, 1979

Address List Attached

Gentlemen:

Cities Service Company is requesting administrative approval to convert to water injection its Southeast Maljamar Grayburg-San Andres Unit #402, located 1980' from the North line and 660' from the West line of Section 29, Township 17S, Range 33E, Lea County, New Mexico. We are advising you of our application since you are an off-set operator of our lease.

Yours very truly

E. Y. Wilder
Region Operations Manager
Southwest Region
E & P Division

EYW:RHS:sl

cc: New Mexico Oil Conservation Div.
Santa Fe, NM

New Mexico Oil Conservation Div.
Hobbs, NM

Address List for Southeast Maljamar Grayburg-San Andres Unit #402

Pennzoil Co.
Drawer 1828
Midland, TX 79702

Continental Oil Co.
Box 1959
Midland, TX 79702

Mrs. Cockburn
P.O. Box 408
Artesia, NM 88210

Phillips Petroleum Co.
4001 Penbrook
Odessa, TX 79762

Mr. E. D. Spears
P.O. Box 1589
Hobbs, NM 88240

Crown Central Petroleum Corp.
1002 Wilco Bldg.
Midland, TX 79701

CITIES SERVICE COMPANY
ENERGY RESOURCES GROUP

Box 1919
Midland, Texas 79702
(915) 684-7131

April 12, 1979

Mr. D. Nutter
New Mexico Oil Conservation Div.
Box 2088
Santa Fe, NM 87501

Dear Mr. Nutter:

In response to our telephone conversation of April 10, 1979, please find a corrected copy of tubing summaries of wells within one-half mile of Cities Service Company's Southeast Maljamar Grayburg-San Andres Unit #402, Lea County, New Mexico. I am enclosing a schematic drawing of this hole showing the "fish" in this hole, the reason we used a whipstock to divert this hole.

If additional information is desired please advise.

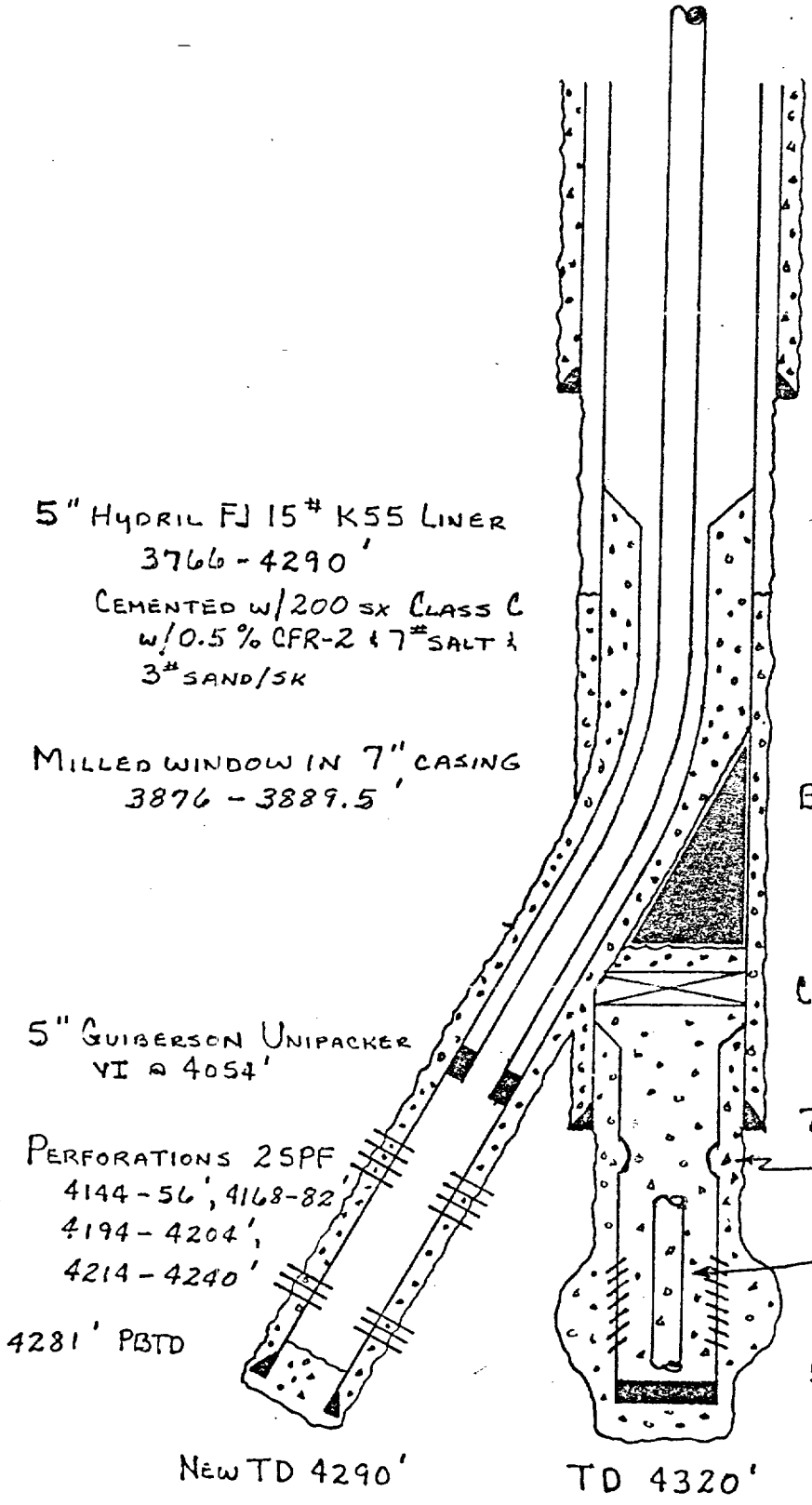
Yours very truly

Elmer Startz

Elmer Startz
Region Petroleum Engineer
Southwest Region
E & P Division

ES:RHS:sl

Cities Service Company
S.E. Maljamar GBSAU #402W
Recompletion Schematic



2 3/8" EUE 4.7# 8R J-55
Plastic Coated Tubing

9 5/8" Casing @ 1122'

5" Hydril FJ 15# K55 Liner
3766 - 4290'
Cemented w/200 sx Class C
w/0.5% CFR-2 & 7# salt &
3# sand/sk

Milled window in 7" casing
3876 - 3889.5'

Bowen 4° whipstock set on
retainer PBTD 3895'

Cement Retainer @ 3897'

5" Guiberson Unipacker
VI @ 4054'

7" Casing @ 4007'

5½" liner collapsed at 4060'

Perforations 2SPF
4144 - 56', 4168-82',
4194 - 4204',
4214 - 4240'

Fish in hole consisting of
one joint 2 7/8 tubing with collar
on top and seating nipple on
bottom

4281' PBTD

5" Slotted Liner @ 3942 - 4234'

New TD 4290'

TD 4320'

	102W	104	203	204	301W	403W	407W	408	409
UNIT LETTER	I	I	G	A	H	F	D	C	E
Sec-Twp-Rge	30-17S-33E	30-17S-33E	30-17S-33E	30-17S-33E	30-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S
Casing Size	8-5/8"	8-5/8"	8-5/8"	8-5/8"	8"	8-5/8"	8-5/8"	8-5/8"	8-5/8"
Depth Set	1215'	1305'	1181'	1241'	1160'	1225'	320'	320'	1300'
Cement (sacks)	550	650	50	50	100	550	325	350	650
Top of Cement	Surface	Surface	Not Known	Not Known	Surface	Surface	Surface	Surface	Surfa
Casing Size	5-1/2"	5-1/2"	7"	5-1/2"	7"	5-1/2"	5-1/2"	5-1/2"	5-1/2"
Depth Set	3959'	4349.98'	3927'	4039'	3915'	4018.5'	4559'	4564'	4359'
Cement (sacks)	350	550	100	100	150	300	250	250	3350
Top of Cement	3700'	4170'	Not Known	Not Known	Surface	Not Known	2800'	3250'	2320'
Liner Size			5"	4"					
Depth Set			3798-4227'	3945-4295'					
Cement (sacks)			40	63					
Tubing Depth	3858'	4308'	3540'	3664'	3761'	3950'	3948'	4310'	4331'
Prod. Interval	3959-4267'	4184-4306'	4132-4189'	4039-4407'	3915-4274'	4019-4300'	3968-4472'	4022-4528'	4296-
Total Depth	4267'	4350'	4278'	4407'	4285'	4300'	4560'	4565'	4359'

	410	504	506W	601W	603W	604W	605	606
UNIT LETTER	F	G	B	L	K	M	K	M
Sec-Twp-Rge	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E
Casing Size	8-5/8"	8-1/4"	8-5/8"	8-5/8"	8-5/8"	8-5/8"	Not Known	8-5/8"
Depth Set	1316'	1270'	303'	1265'	1260'	1260'	Not Known	833'
Cement (sacks)	650	400	200	50	50	50	Not Known	400
Top of Cement	Surface	Not Known	Surface	Not Known	Not Known	Not Known	Not Known	Surface
Casing Size	5-1/2"	5-1/2"	5-1/2"	7"	7"	7"	7"	5-1/2"
Depth Set	4343'	4356'	4508'	3960'	3950'	3939'	4000'	4292'
Cement (sacks)	2350	75	250	75	75	75	Not Known	435
Top of Cement	2320'	Not Known	Not Known	Not Known	Not Known	Not Known	Not Known	2020'
Liner Size				4-1/2"	4-1/2"		5"	
Depth Set				3809-4253'	3724-4115'		3840-4189'	
Cement (sacks)				200	200		236	
Tubing Depth	4304'	4223'	4059'	3868'	4071'	3901'	4060'	4260'
Prod. Interval	4168-4340'	4098-4316'	4110-4440'	3960-4272'	3950-4300'	3939-4302'	4189-4320'	4224-4271'
Total Depth	4377'	4440'	4498'	4272'	4300'	4302'	4320'	4292'

	102W	104	203	204	301W	403W	407W	408	409
UNIT LETTER	I	I	G	A	H	F	D	C	E
Sec-Twp-Rge	30-17S-33E	30-17S-33E	30-17S-33E	30-17S-33E	30-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17
Casing Size	8-5/8"	8-5/8"	8-5/8"	8-5/8"	8"	8-5/8"	8-5/8"	8-5/8"	8-5/8
Depth Set	1215'	1305'	1181'	1241'	1160'	1225'	320'	320'	1300'
Cement (sacks)	550	650	50	50	100	550	325	350	650
Top of Cement	Surface	Surface	Not Known	Not Known	Surface	Surface	Surface	Surface	Surfa
Casing Size	5-1/2"	5-1/2"	7"	5-1/2"	7"	5-1/2"	5-1/2"	5-1/2"	5-1/2
Depth Set	3959'	4349.98'	3927'	4039'	3915'	4018.5'	4559'	4564'	4359'
Cement (sacks)	350	550	100	100	150	300	250	250	3350
Top of Cement	3700'	4170'	Not Known	Not Known	Surface	Not Known	2800'	3250'	2320'
Liner Size			5"	4"					
Depth Set			3798-4227'	3945-4295'					
Cement (sacks)			40	63					
Tubing Depth	3858'	4308'	3540'	3664'	3761'	3950'	3948'	4310'	4331'
Prod. Interval	3959-4267'	4184-4306'	4132-4189'	4039-4407'	3915-4274'	4019-4300'	3968-4472'	4022-4528'	4296-
Total Depth	4267'	4350'	4278'	4407'	4285'	4300'	4560'	4565'	4359'

	410	504	506W	601W	603W	604W	605	606
UNIT LETTER	F	G	B	L	K	M	K	M
Sec-Twp-Rge	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E	29-17S-33E
Casing Size	8-5/8"	8-1/4"	8-5/8"	8-5/8"	8-5/8"	8-5/8"	10"	8-5/8"
Depth Set	1316'	1270'	303'	1265'	1260'	1260'	20'	833'
Cement (sacks)	650	400	200	50	50	50	15	400
Top of Cement	Surface	Not Known	Surface	Not Known	Not Known	Not Known	Not Known	Surface
Casing Size	5-1/2"	5-1/2"	5-1/2"	7"	7"	7"	7"	5-1/2"
Depth Set	4343'	4356'	4508'	3960'	3950'	3939'	4008'	4292'
Cement (sacks)	2350	75	250	*75	*75	75	*150	435
Top of Cement	2320'	Not Known	Not Known	Not Known	Not Known	Not Known	Not Known	2020'
Liner Size				4-1/2"	4-1/2"		5"	
Depth Set				3809-4253'	3724-4115'		3840-4189'	
Cement (sacks)				200	200		236	
Tubing Depth	4304'	4223'	4059'	3868'	4071'	3901'	4060'	4260'
Prod. Interval	4168-4340'	4098-4316'	4110-4440'	3960-4272'	3950-4300'	3939-4302'	4189-4320'	4224-4271'
Total Depth	4377'	4440'	4498'	4272'	4300'	4302'	4320'	4292'

* SEE ATTACHMENT.

* WELL # 601W.

Cemented with 1300 sacks through hole at 2321'-2352' on November 7, 1978.

* WELL #603W

Cemented with 500 sacks & 4000 gallons Flo Check through hole at 2505' - 2537' on 12/14/78. Cemented once more on 12/14/78 with 100 sacks & 800 gallons of Flo Check.
On 12/22/78, perforated two holes at 1270' - 1271' and cemented with 750 sacks with 2% CaCl. Circulated to surface.

* WELL #605W

Cemented holes in 7" casing at 68' & 37' with 150 sacks. Pumped 118 sacks in formation on 10/20/77. Circulated 27 sacks and drilled out 15 sacks that was left in casing. Cemented hole in 7" @ 37' with 75 sacks Class C & 25 sacks Calseal on 10/22/77.

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE April 4, 1979

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX X
Proposed PMX _____

Gentlemen:

I have examined the application dated _____

for the Cities Service Co. SMGSAU Tr. 4 #2-E 29-17-33
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,