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Oil Conservation Division (3)
Department of Energy & Minerals
State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention Mr. J. D. Ramey, Director

Gentlemen:

Expansion of William Mitchell Waterflood Project, Maljamar (G-SA) Pool,
Lea County, New Mexico

It is proposed to expand the William Mitchell Waterflood Project by converting to injection in the Grayburg-San Andres formations, Wells 4 & 5 in Units H & J of Section 18, T-17-S, R-31-E. Well No. 4 is located 2,080' FNL and 660' FEL; Well No. 5 is located 1,980' FS&EL of Section 18.

The waterflood project was authorized by Order No. WFX-281 which was an expansion of the MCA Waterflood Project authorized by Order No. R-2403.

Enclosed are the following items in support of this application:

1. Plat showing area within two-mile radius of the proposed injection wells.
2. Diagramatic sketches of the two wells showing the manner in which the wells will be completed for injection.
3. Log section of the two proposed injection wells showing formation tops and injection intervals.
4. Tabulation of the wells within 1/2 mile of the proposed injection wells showing location, total depth and/or plug-back depth, casing sizes, setting depths, cement volumes and tops, perforations, and present status.



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July 28, 1978
Page Two

Please note that the plugged well in Unit H of Section 18 was drilled only into the salt section and did not penetrate the injection interval. Also, the Mitchell "B" No. 2 in Unit D of Section 17 penetrated the injection interval but was plugged back and completed in the Yates formation.

It is proposed to conduct injection operations in these wells on the same basis as the present injection wells, using the same injection water and plant pressures. Maximum injection volume is estimated to be 400 barrels water per day.

There are no offset operators within 1/2 mile of the proposed injection wells. It is respectfully requested that approval of these wells be given immediately inasmuch as there are no offset operators to be notified.

Yours very truly,

A handwritten signature in cursive script, appearing to read "J. W. Kellahin".

HAI/jj

Enc

cc:

U.S. Geological Survey (2), P.O. Box 1157, Hobbs, NM 88240
Jason W. Kellahin (1), Santa Fe, NM

Wm. Mitchell B#4
2080' FNL & 660' FEL, Sec 18, T-17S, R-32E
Elev. 4001'

Drld - 3-17-59

8 5/8", 28# @ 210' w/100sx (circ)

TOC 750'

2 3/8" Plastic-Lined Tbg w/Tension Pkr @ 3650'.

3729'

3733'

3753'

3759'

3768'

3772'

3799'

3806'

3947'

3951'

4004'

4009'

4094'

4100'

4110'

4113'

4124'

4128'

4133'

4139'

4178'

4188'

4 JSPF 34000 gal. LSC crude w/.05#/gal adomite & 1# sand/gal
+1250 gal spearhead acid

Cement Retainer @ 4075' w/4sx cmnt. on top

4 JSPF

5 1/2", 14# @ 4399' w/2700sx
TD - 4399'

PROPOSED INJECTOR

Wm. Mitchell B#5
1980' FSL & 1980' FEL, Sec. 18, T-17S, R-32E
Elev. 3980'

Drld. June 30, 1959

"0" - 11' AGL

8 5/8", 24# @ 237' w/100sx (circ)

Tbg & Rods pulled from well 3-8-74

TOC - 1650'

2 3/8" Plastic-Lined Tbg w/Tension Pkr @ 3650'

3710'
3716'
3734'
3742'
3752'
3756'
3910'
3918'
3939'
3943'

TRTD w/3000 gal STD. Sand-Frac.

4 JSPF

Cement retainer @ 4030' w/50' cmnt. on top

4183' w/4 JSPF 1000 gal. acid Frac w/20,000 lb sand, 1000 lb adomite,
4189' 20,000 gal lease crude

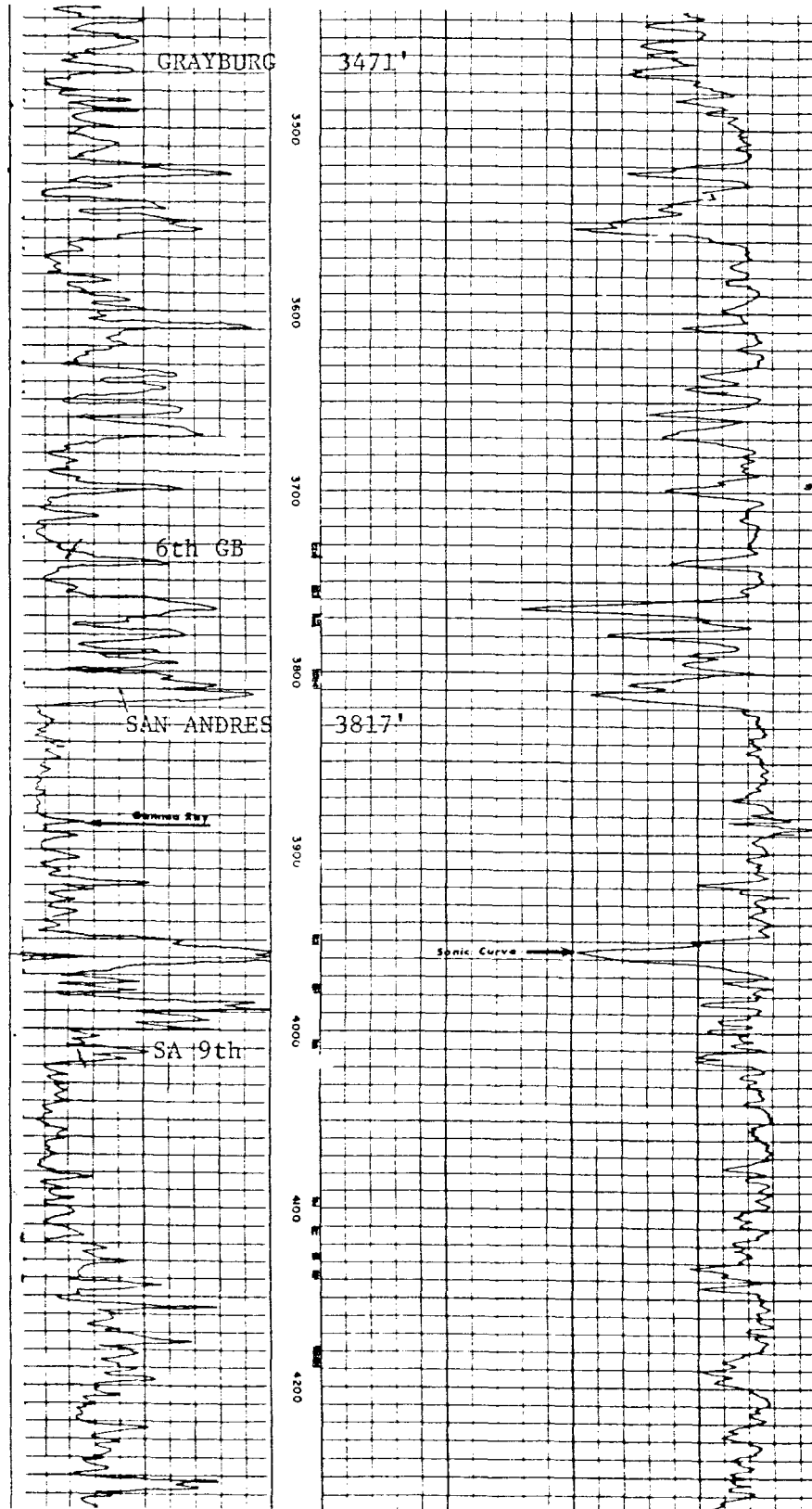
PBTD-4193'

5 1/2", 14# @ 4199' w/775sx

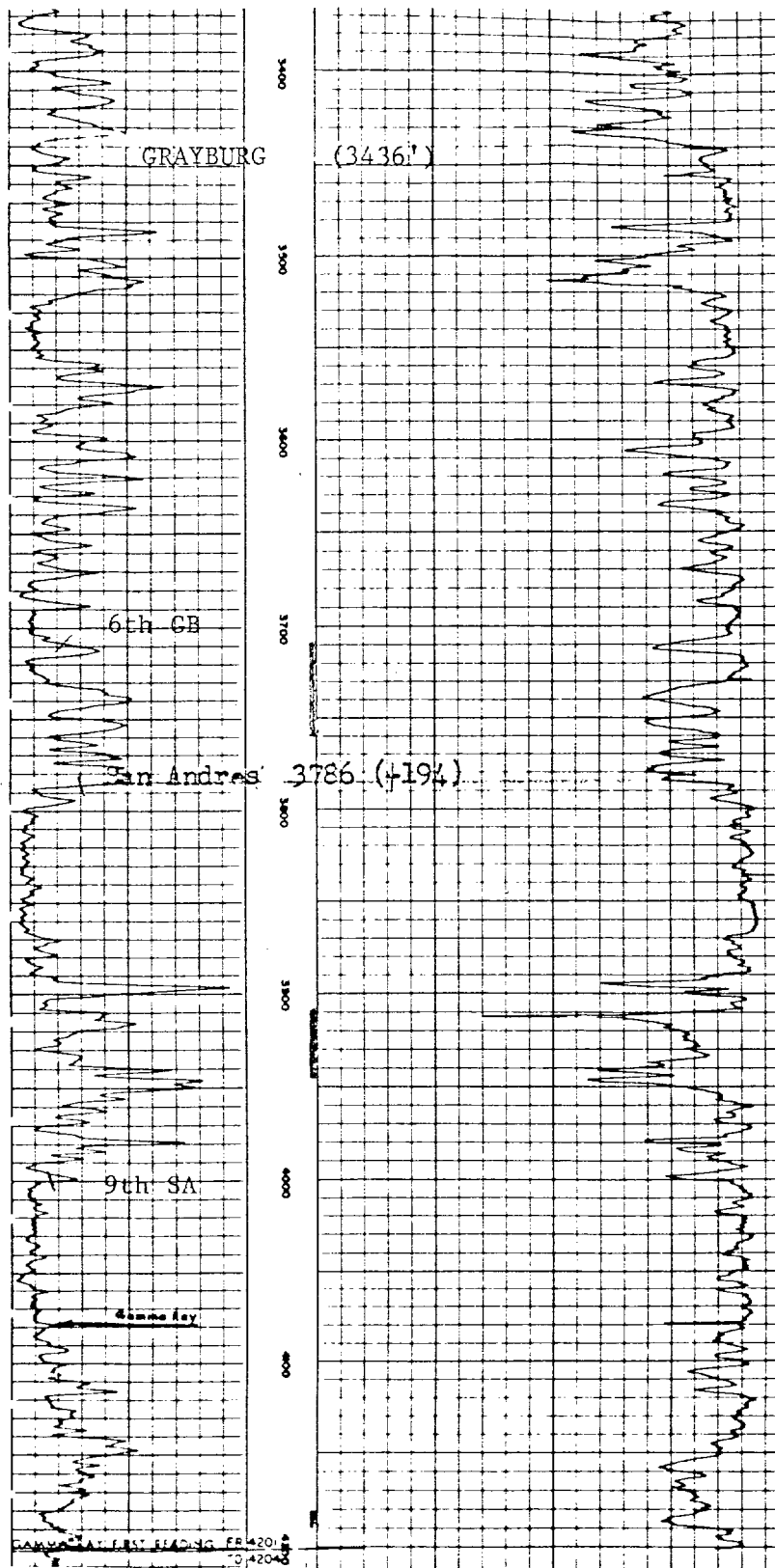
TD-4199'

PROPOSED

WM. MITCHELL "B" NO. 4



WM. MITCHELL "B" NO. 5



Casing Record												
Operator, Lease and Well No.		Location	Producing Interval-Ft.	TD/ PRTD Ft.	Size-In.	Depth	No. Sx. Cmt.	Top of Cmt-Ft.	Status			
Wm. Mitchell B No. 1		660' FNL 1980' FEL Sec. 18 T17S R32E	3709-3787	4242 4233	8 5/8 5 1/2	240 4242	100 900	Surface 500	S.I.			
Wm. Mitchell B No. 2		660' FNL & WL Sec. 17 T17S R32E	2474-96	4100 2586	8 5/8 5 1/2	138 2618	100 150	Surface 1200(e)	T.A.			
Wm. Mitchell B No. 4		2080' FNL 660' FEL Sec. 18 T17S R32E	3729-4188	4400 4377	8 5/8 5 1/2	210 4400	100 2700	Surface 750	T.A.			
Wm. Mitchell B No. 5		1980' FSL & EL Sec. 18 T17S R32E	3710-4189	4200 4193	8 5/8 5 1/2	237 4199	100 775	Surface 1650	S.I.			
Wm. Mitchell B No. 6		1980' FSL 660' FEL Sec. 18 T17S R32E	3748-3799 3930-3934	4196 3975	8 5/8 5 1/2	249 4196	125 775	Surface 1225	Prod.			
Wm. Mitchell B No. 7		1980' FSL 660' FWL Sec. 17 T17S R32E	3784-4164	4336	9 5/8 5 1/2	207 4335	100 1450	Surface 1235	Inj.			
Wm. Mitchell B No. 12		660' FSL 660' FEL Sec. 18 T17S R32E	3714-3934	4200 4035	8 5/8 5 1/2	234 4199	100 800	Surface 500	Inj.			
Wm. Mitchell B No. 13		660' FSL 1980' FWL Sec. 18 T17S R32E	3660-3766 4089-4110	4160 4115	8 5/8 5 1/2	234 4160	100 775	Surface 500	Inj.			
BUFFALO												
Wm. Mitchell B No. 21		1980' FNL 660' FEL Sec. 18 T17S R32E	---	1959	10 3/4 8 5/8	74 750	- -	(Pulled) 275' left in hole	D&A			

Hole filled w/mud &
10 sx plug on top.