(SUBMIT IN TRIPLICATE)

Land Office Las Cruces 028793 (a)

UNITED STATES

Burch "A"

DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPOR

	·
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
	Injection Well to Producing Well X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Title Field Superintendent

		Loco Hills,	New Mexico,	December 31, 10	<u>51</u>	
Well No. 14-A is loc	eated <u>660</u> ft.	from $\left \begin{array}{c} X \\ S \end{array} \right $ line and	1980 ft. from	E line of sec	18	
SW: SE Sec. 18 (H Sec. and Sec. No.)	17-S	30-E	NMPN (Meridian)			
Grayburg-Jackson				New Merico		
(Field) (Coun		dy Re ty or Subdivision) (State		tate or Territory)	te or Territory)	
The elevation of the derrick	floor above sea	level isf	t.			
	DET	AILS OF WORL	ζ			
(State names of and expected depths to	o objective sands; show	sizes, weights, and leng	ths of proposed casings	; indicate mudding jobs, e	:ement-	
well. About July 1, 1951, af 14-A over a	-A was converter injecting period of four indication	rted from a pr g a total of 3 ur months, Bur	oducing well 9,409 MCF of ch No. 7-A, a	to a gas injec	No.	
1. Formation gas as measured average of 3 13, 1951.	on December L	. 1950, prior	to commencin	g injection, to on July 11, 12	oan	
I understand that this plan of work		ied on Sheet -			1050	
Company GENERAL AMER				- 0/1	MALL STREAMS	
Address Box 416, Loc	o Hills, New	<u>Mexi</u> co	By R X	arl	V	
			R. J. He	ard,		

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(Gas Channeling Observations, continued)

2. Burch No. 7-A, which had been producing on gas-lift, started flowing naturally some four months after commencing injection.

3. Production decline rate for Burch No. 7-A increased from a rate of 25% per month for the period June, 1950, to December, 1950, to 4% per month for the period December, 1950, to July, 1951.

Subsequent tests conclusively proved that gas was channeling from Burch No. 14-A injection well to Burch No. 7-A. These were as follows:

1. Burch No. 14-A was temporarily shut in for fourteen days from July 17 to 31, 1951, during which time produced formation gas from Burch No. 7-A gradually decreased from 359 MCF per day to 307 MCF per day.

2. Upon recommending gas injection at a reduced rate in Burch No. 14-A. produced formation gas volumes from Burch No. 7-A gradually increased to 331 MCF average per day for the first nine days of September, 1951.

3. On November 14, 1951, Burch No. 14-A was once again shut in and on November 19, 1951, well was started blowing down to atmosphere. On December 12, 1951, after 2,372 MCF of gas had been blown back out of Burch No. 14-A, Burch No. 7-A ceased to flow naturally.

In an effort to decrease this channeling and its apparent adverse effects upon the production rate of Burch No. 7-A, the following steps were undertaken.

Injection rates were cut as much as 50% in Burch No. 14-A. REBULT: The slight decrease in channeled gas to Burch No. 7-A as noted above.

2. On August 6, 1951, 5 barrels of fresh water were pumped into Burch No. 14-A. REGULT: None noted.

3. On September 3, 1951, 18 barrels of fresh water were pumped into Burch No. 14-A. RESULTS: None noted.

To date a total of 76,770 MCF of residue gas has been returned to the Grayburg-Jackson reservoir through Burch No. 14-A well.

From the foregoing it would appear that permeabilities in at least this portion of the reservoir are very erratic and are, thus, certainly not conducive to successful repressuring due to the difficulty in controlling gas channeling. For this reson it is proposed that the use of Burch No. 14-A as an injection well be discontinued and that this hole be reconverted to a producing oil well.

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> > TAN 8 1952

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