

LEONARD LATCH

1317 TEXAS AVE.
LUBBOCK, TEXAS 79401

March 28, 1969

09 MAR 31 AM 9 21

161 K - 310

Don't forget

New Mexico Oil Conservation Commission
Box 2088
Santa Fe, New Mexico

Re: NM OCC
Permit No. 1-35-73

Gentlemen:

Lat. Empire Saunders Waterflood
17/1

I would like to make application for a Waterflood expansion under Rule 701E(5).

I am asking for Saunders well No. 4A to be converted to a water injection well. The reason I am asking for this conversion is that the offset well to the east of this well has already experienced a one barrell per. day increase in production. I believe it can be increased more by making well No. 4A into an injection well.

I am enclosing the data as set out in 701B with this letter.

Yours very truly,

Leonard Latch
Leonard Latch

LL/ca

R. 27 E.

R. 28 E.

L. Latch

Oil Conservation Comm. # R-35-73

Application to Add Saunders A-A
to Flood Pattern
Saunders B-1 has 1800 PD Increase

Travis

L. Latch

L. Latch

Saunders "B"

Saunders "A"

T.

17

S.

L. Latch

Oil Conservation Comm. # R-15-46

Saunders

L. Latch

L. Latch

L. Latch

L. Latch

State

Fed. Berry

L. Latch

Application to Add Well #8
to Flood Pattern
Well #17 has 15 BOPD Increase

Brooks

19

L. Latch

State

Fed. Berry

25 Fed. Berry

T.

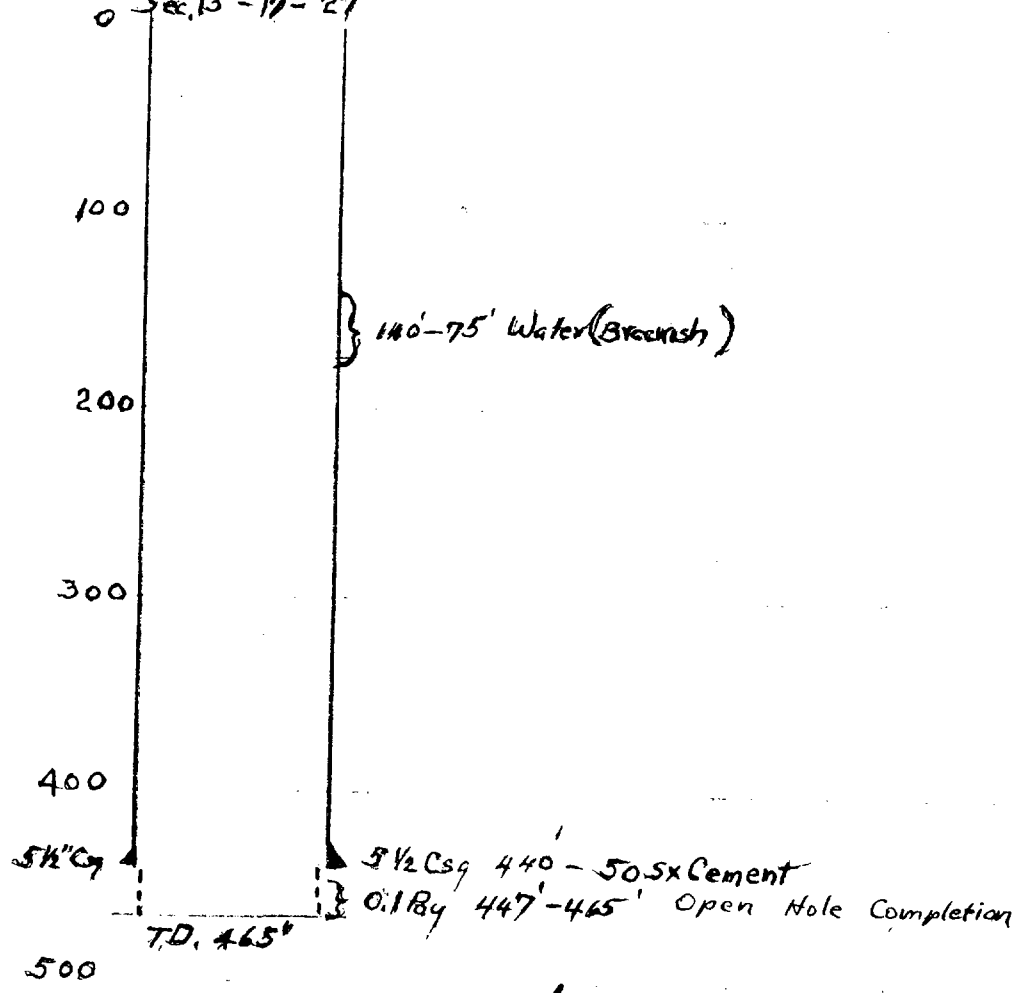
17

S.

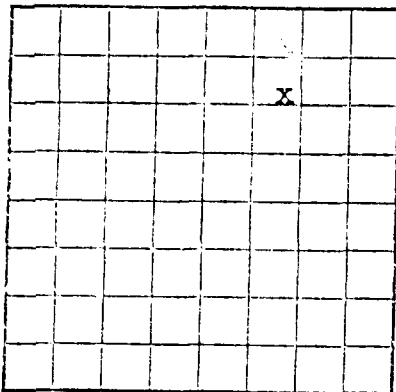
L. Latch Leases
Empire Field
Eddy Co. New Mexico
Scale 1" = 1320'

Water Injection Well

Leonard Watch
Saunders #4 - "A"
990' N & 1650 E
Sec. 13 - 12 - 27



Shot 13gts / 460-65
I.P. 30 BOPD
Cptd. 4-16-50



ARTESIA, N.M.

U. S. LAND OFFICE Las Cruces

SERIAL NUMBER 048491(a)

LEASE OR PERMIT TO PROSPECT

Saunders

UNITED STATES U. S. GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED
MAY 15 1950

ARTESIA, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Leonard Latch

Company ~~Nay Hightower~~ Address 812 West Main, Artesia, N.M.Lessor or Tract ~~Nay Hightower~~ Field ~~Empire~~ State ~~New Mexico~~Well No. 4 Sec. 13 T. 17 R. 27 Meridian ~~N.M.P.M.~~ County ~~Eddy~~Location 990 ft. ~~N~~ of ~~N~~ Line and 1650 ft. ~~E~~ of ~~E~~ Line of 13 Elevation

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Mrs. Nay Hightower

Date May 12, 1950

Title Agent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 29, 1950 Finished drilling April 16, 1950

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 447 to 448 No. 4, from to

No. 2, from 460 to 465 No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 90 to 100 No. 3, from to

No. 2, from 145 to 175 No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
5"	20	8		440	Texas				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5"	440	50	Denton		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
13 qts		Dupoint	13 qts	5/2/50	460	465

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet

Cable tools were used from 0 feet to 465 feet, and from feet to feet

DATES

Put to producing May 10, 1950

The production for the first 24 hours was 30 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

B. J. Rogers, Driller

, Driller

, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	4	4	Calechie
4	15	11	red bed
15	45	30	red bed
45	100	55	anhydrite, show of water
100	145	45	anhydrite, shale
145	175	30	red bed, water
175	285	110	anhydrite, red red
285	307	22	anhydrite
307	313	6	brown lime, broken
313	315	2	blue shale
315	380	65	anhydrite, broken
380	403	23	anhydrite
403	408	5	show of lime
408	428	20	anhydrite, broken
428	432	4	broken anhydrite,
432	436	4	lime broken
436	438	2	blue shale
438	446	8	broken lime
446	447	1	blue slate lime
447	448	1	brown lime, show of free oil
448	449	1	gray lime
449	457	8	anhydrite
457	460	3	white lime
460	465	5	brown lime, free oil total depth

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE