

NEIL H. WILLS

~~P. O. BOX 671~~

CARLSBAD, N. M.

May 15, 1963

*Drawer W**13*  
~~W. H. Wills~~  
~~Neil H. Wills~~

New Mexico Oil Conservation Commission  
 P. O. Box 671  
 Santa Fe, N. M.

Re: Case No. 1171  
 Order No. R-921

Attention: Mr. Daniel S. Nutter

Gentlemen:

I hereby ask permission to drill additional wells in Section 13, T. 20 S., R. 28 E., as shown by the enclosed plat, "Exhibit A", in the Russell waterflood project, Russell Pool, Eddy County, New Mexico. All proposed locations will be located at least 10 feet inside each unit subdivision.

The purpose of drilling these locations is to supplement the waterflood project, obtaining a more effective ultimate flooding of the producing sand.

I refer to the above captioned case and order number whereby wells number 26 through 30 were drilled on unorthodox locations.

I enclose in addition to the location plat, a Reservoir Performance Curve showing the history of the waterflood project graphically. Also, I enclose the production history by well number for January, February and March of 1963.

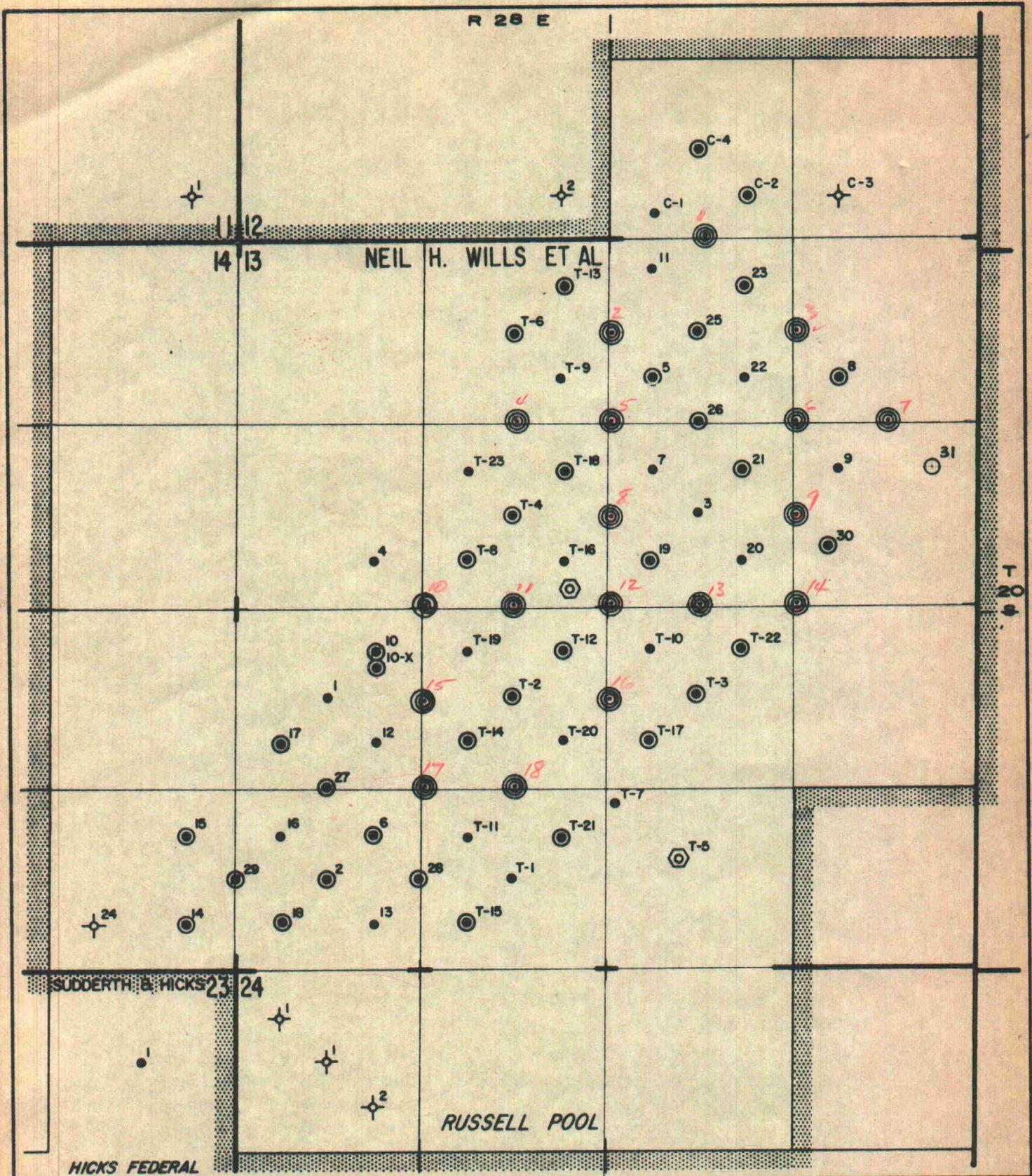
The casing program for this proposed drilling program is one designed for a five year life of the Russell Pool and recently approved by the United States Geological Survey in Artesia.

1. Drill 3 5/8" hole to approximately 90 ft. and set 90 ft. of 7" casing with 25 sacks cement to protect the surface water.
2. Drill out with 6 5/8" hole to top of the Yates formation and set 4 1/2" casing with 50 sacks cement.

Very truly yours,

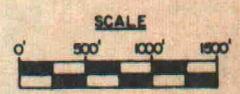
*Neil H. Wills*  
 Neil H. Wills

Encl: 3 copies  
 cc: State Engineer



HICKS FEDERAL

NEIL H. WILLS ET AL  
 RUSSELL POOL  
 EDDY COUNTY, NEW MEXICO



PETROLEUM ENGINEERS  
 STEPHENS ENGINEERING  
 WICHITA FALLS, TEXAS

LEGEND

- PRODUCING OIL WELL
- ◎ WATER INJECTION WELL
- ⬡ WATER SUPPLY WELL
- ⊕ DRY HOLE
- ▨ LEASE AREA

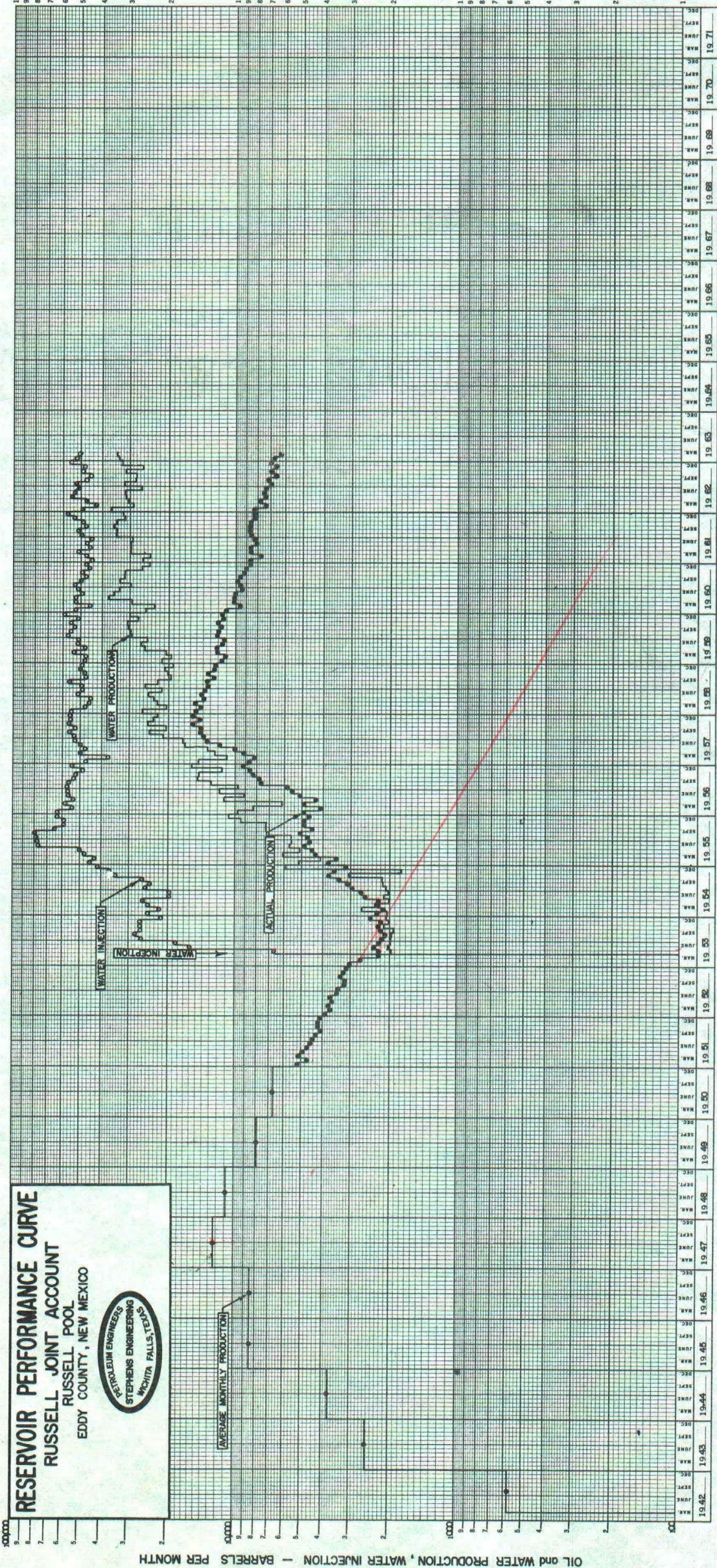
◎ 18-proposed locations

○ #31 - drilling as of 5-6-63

"EXHIBIT A"

35990  
6500

**RESERVOIR PERFORMANCE CURVE**  
**RUSSELL JOINT ACCOUNT**  
 RUSSELL POOL  
 EDDY COUNTY, NEW MEXICO



MONTHLY WATER FLOOD REPORT

Neil H. Wills

OPERATOR

Russell Pool

LEASE

January, 1963

INDIVIDUAL WELL TESTS

WELL NO.	TEST	OIL BBL	WATER BBL	TOTAL FLUID BBL	PUMP CAPACITY	CUMULATIVE OIL PROD.. BBLs	REMARKS *
1	Previous	11	49	60	81		
	This Mo.	8	50	58	81		
3	Previous	4	44	48	96		
	This Mo.	NT					
4	Previous	3	0	3	65		November Test
	This Mo.	NT					
7	Previous	10	147	157	180		
	This Mo.	NT					
9	Previous	10	13	23	76		
	This Mo.	9	14	23	76		
11	Previous	46	77	123	144		
	This Mo.	NT					
12	Previous	6	60	66	71		
	This Mo.	7	52	59	71		
13	Previous	11	39	50	96		
	This Mo.	11	54	65	96		
16	Previous	8	90	98	?		
	This Mo.	10	77	87	?		
20	Previous	12	6	18	59		
	This Mo.	12	5	17	59		
22	Previous	15	22	37	132		
	This Mo.	12	36	48	132		
T1	Previous	14	2	16	41		
	This Mo.	10	6	16	41		
T7	Previous	3	14	17	41		
	This Mo.	NT					
T9	Previous	5	49	54	77		
	This Mo.	NT					
T10	Previous	22	55	77	126		
	This Mo.	23	48	71	126		
T11	Previous	12	68	80	144		
	This Mo.	NT					
T16	Previous	22	230	252	285		
	This Mo.	20	236	256	285		

PREVIOUS MONTH

THIS MONTH

Total Oil Tests

Total Water Tests

Total Fluid Tests

Avg. Prod. WOR

\* Remarks includes pump efficiency, partial water analysis, etc.



MONTHLY WATER FLOOD REPORT

Neil H. Wills

OPERATOR Russell Pool

LEASE

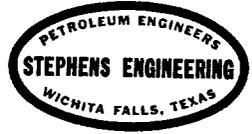
January, 1963

INDIVIDUAL WELL TESTS

WELL NO.	TEST	OIL BBL	WATER BBL	TOTAL FLUID BBL	PUMP CAPACITY	CUMULATIVE OIL PROD., BBLs	REMARKS *
T19	Previous	13	113	126	145		
	This Mo.	15	119	134	145		
T20	Previous	19	72	91	171		
	This Mo.	NT					
T23	Previous	2	25	27	47		
	This Mo.	NT					
C1	Previous	9	34	43	93		
	This Mo.	8	64	72	93		
	Previous						
	This Mo.						
	Previous						
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	This Mo.						
	Previous						
	This Mo.						
	Previous						
	This Mo.						

	PREVIOUS MONTH	THIS MONTH
Total Oil Tests	257	249
Total Water Tests	1,209	1,257
Total Fluid Tests	1,466	1,506
Avg. Prod. WOR	4.70	5.05

\* Remarks includes pump efficiency, partial water analysis, etc.



MONTHLY WATER FLOOD REPORT

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Neil H. Wills

OPERATOR Russell Pool

LEASE

February, 1963

INDIVIDUAL WELL TESTS

WELL NO.	TEST	OIL BBL	WATER BBL	TOTAL FLUID BBL	PUMP CAPACITY	CUMULATIVE OIL PROD., BBLs	REMARKS *
1	Previous	8	50	58	81		
	This Mo.	9	47	56	81		
3	Previous	4	44	48	96		December Test
	This Mo.	4	44	48	96		
4	Previous	3	0	3	65		November Test
	This Mo.	NT					
7	Previous	10	147	157	180		
	This Mo.	12	170	182	180		
9	Previous	9	14	23	76		
	This Mo.	10	14	24	76		
11	Previous	46	77	123	144		December Test
	This Mo.	44	79	123	144		
12	Previous	7	52	59	71		
	This Mo.	8	47	55	71		
13	Previous	11	54	65	96		
	This Mo.	14	57	71	96		
16	Previous	10	77	87	?		
	This Mo.	12	92	104	?		
20	Previous	12	5	17	59		
	This Mo.	12	5	17	59		
22	Previous	12	36	48	132		
	This Mo.	15	23	38	132		
T1	Previous	10	6	16	41		
	This Mo.	4	9	13	41		
T7	Previous	3	14	17	41		December Test
	This Mo.	3	12	15	41		
T9	Previous	5	49	54	77		December Test
	This Mo.	6	64	70	77		
T10	Previous	23	48	71	126		
	This Mo.	20	60	80	126		
T11	Previous	12	68	80	144		December Test
	This Mo.	10	125	135	144		
T16	Previous	20	236	256	285		
	This Mo.	24	250	274	285		

PREVIOUS MONTH

THIS MONTH

Total Oil Tests

Total Water Tests

Total Fluid Tests

Avg. Prod. WOR

\* Remarks includes pump efficiency, partial water analysis, etc.



MONTHLY WATER FLOOD REPORT

Neil H. Wills

OPERATOR

Russell Pool

LEASE

February, 1963

INDIVIDUAL WELL TESTS

WELL NO.	TEST	OIL BBL	WATER BBL	TOTAL FLUID BBL	PUMP CAPACITY	CUMULATIVE OIL PROD., BBLs	REMARKS *
T19	Previous	15	119	134	145		
	This Mo.	15	118	133	145		
T20	Previous	19	72	91	171		December Test
	This Mo.	14	82	96	171		
T23	Previous	2	25	27	47		December Test
	This Mo.	4	11	15	47		
C1	Previous	8	64	72	93		
	This Mo.	12	75	87	93		
	Previous						
	This Mo.						
	Previous						
	This Mo.						
	Previous						
	This Mo.						
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	This Mo.						
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	This Mo.						
	Previous						
	This Mo.						
	Previous						
	This Mo.						
	Previous						
	This Mo.						

	PREVIOUS MONTH	THIS MONTH
Total Oil Tests	249	255
Total Water Tests	1,257	1,384
Total Fluid Tests	1,506	1,639
Avg. Prod. WOR	5.05	5.43

\* Remarks includes pump efficiency, partial water analysis, etc.



MONTHLY WATER FLOOD REPORT

Neil H. Wills

OPERATOR Russell Pool

LEASE

March, 1963

INDIVIDUAL WELL TESTS

WELL NO.	TEST	SEC. BBL.	WATER BBL	TOTAL FLUID BBL	PUMP CAPACITY	CUMULATIVE OIL PROD.. BBLs	REMARKS *
1	Previous	9	47	56	81		
	This Mo.	9	47	56	81		
3	Previous	4	44	48	96		
	This Mo.	4	51	55	96		
4	Previous	3	0	3	65		November Test
	This Mo.	NT					
7	Previous	12	170	182	180		
	This Mo.	15	159	174	180		
9	Previous	10	14	24	76		
	This Mo.	7	17	24	76		
11	Previous	44	79	123	144		
	This Mo.	48	72	120	144		
12	Previous	8	47	55	71		
	This Mo.	6	45	51	71		
13	Previous	14	57	71	96		
	This Mo.	12	39	51	96		
16	Previous	12	92	104	?		
	This Mo.	14	42	56	?		
20	Previous	12	5	17	59		
	This Mo.	11	4	15	59		
22	Previous	15	23	38	132		
	This Mo.	13	24	37	132		
T1	Previous	4	9	13	41		
	This Mo.	NT					
T7	Previous	3	12	15	41		
	This Mo.	3	12	15	41		
T9	Previous	6	64	70	77		
	This Mo.	5	50	55	77		
T10	Previous	20	60	80	126		
	This Mo.	19	60	79	126		
T11	Previous	10	125	135	144		
	This Mo.	12	66	78	144		
T16	Previous	24	250	274	285		
	This Mo.	18	228	246	285		

PREVIOUS MONTH

THIS MONTH

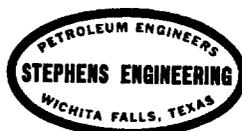
Total Oil Tests

Total Water Tests

Total Fluid Tests

Avg. Prod. WOR

\* Remarks includes pump efficiency, partial water analysis, etc.



MONTHLY WATER FLOOD REPORT

Neil H. Wills

OPERATOR Russell Pool

LEASE

March, 1963

INDIVIDUAL WELL TESTS

WELL NO.	TEST	OIL BBL	WATER BBL	TOTAL FLUID BBL	PUMP CAPACITY	CUMULATIVE OIL PROD. BBLs	REMARKS *
T19	Previous	15	118	133	145		
	This Mo.	12	108	120	145		
T20	Previous	14	82	96	171		
	This Mo.	14	66	80	171		
T23	Previous	4	11	15	47		
	This Mo.	NT					
C1	Previous	12	75	87	93		
	This Mo.	8	61	69	93		
	Previous						
	This Mo.						
	Previous						
	This Mo.						
	Previous						
	This Mo.						
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	This Mo.						
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	This Mo.						
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	This Mo.						

	PREVIOUS MONTH	THIS MONTH
Total Oil Tests	255	241
Total Water Tests	1,384	1,171
Total Fluid Tests	1,639	1,412
Avg. Prod. WOR	5.43	4.86

\* Remarks includes pump efficiency, partial water analysis, etc.



BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF THE STATE OF NEW  
MEXICO FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 1171  
Order No. R-921

APPLICATION OF NEIL H. WILLS FOR  
AN ORDER GRANTING APPROVAL OF SIX  
(6) UNORTHODOX WELL LOCATIONS IN  
THE RUSSELL POOL, EDDY COUNTY, NEW  
MEXICO, SAID WELLS ALL BEING LOCATED  
IN SECTION 13, TOWNSHIP 20 SOUTH,  
RANGE 28 EAST, NMPM, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 31, 1956, at Hobbs, New Mexico, before Warren W. Mankin, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 27th day of November, 1956, the Commission, a quorum being present, having considered the application, the evidence adduced, the recommendations of the Examiner, Warren W. Mankin, and being fully advised in the premises,

FINDS:

(1) That due notice of the time and place of hearing and the purpose thereof having been given as required by law, the Commission has jurisdiction of this case and the subject matter thereof.

(2) That applicant, Neil H. Wills, is the owner of the Wills Well No. 26 located 1305 feet from the North line and 1980 feet from the East line of Section 13, Township 20 South, Range 28 East, NMPM, Russell Pool, Eddy County, New Mexico, an unorthodox location, said well now being productive of oil.

(3) That applicant proposes to drill five additional wells in said Section 13 on unorthodox locations to supplement the water flood project in the Russell Pool.

(4) That approval of the application will prevent waste and will not adversely effect correlative rights.

Case No. 1171  
Order No. R-921

IT IS THEREFORE ORDERED:

That application of Neil H. Wills for an order granting approval of the following unorthodox well locations in Section 13, Township 20 South, Range 28 East, NMPM, Russell Pool, Eddy County, New Mexico:

- Wills Well No. 26: 1305 feet from the North line and 1980 feet from East line.
- Wills Well No. 27: 1325 feet from South line and 660 feet from West line.
- Wills Well No. 28: 1325 feet from South line and 1315 feet from West line.
- Wills Well No. 29: 1325 feet from South line and 5 feet from West line.
- Wills Well No. 30: 660 feet from South line and 5 feet from West line.
- Wills Well No. 31: 660 feet from South line and 1315 feet from West line.

be and the same is hereby approved.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

JOHN F. SIMMS, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

ir/

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

May 24, 1963

Mr. Neil H. Wills  
P. O. Box 529  
Carlsbad, New Mexico



Dear Sir:

Reference is made to your letter of May 15, 1963, requesting authority to drill some 18 non standard locations in your water-flood project in the Russell Pool, Eddy County, New Mexico. It is our understanding that some of these wells are to be injection wells while others will probably be put on production.

Inasmuch as the Commission rules do not provide for administrative approval of unorthodox locations for producing wells except for topographical reasons, it will be necessary to set this matter for hearing.

Our next hearing will be at 9 o'clock a.m., June 26, 1963, Oil Conservation Commission Conference Room, State Land Office Building, Santa Fe. We will place this case on that docket if you desire.

Very truly yours,

DANIEL S. NUTTER  
Chief Engineer

DSN/1g

cc: Oil Conservation Commission  
Artesia, New Mexico

United States Geological Survey  
Artesia, New Mexico

State Engineer  
Santa Fe, New Mexico

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