

CASE 3393:

NORTHWESTERN NEW MEXICO
NOMENCLATURE

ASE No.

3393

Application,

Transcripts,

All Exhibits

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. 3393
Order No. R-3057

THE APPLICATION OF THE OIL
CONSERVATION COMMISSION UPON
ITS OWN MOTION FOR AN ORDER
CREATING, ABOLISHING AND
EXTENDING CERTAIN POOLS IN
RIO ARriba, SANDOVAL, AND
SAN JUAN COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a. m. on April 13, 1966,
at Hobbs, New Mexico, before the Oil Conservation Commission of
New Mexico, hereinafter referred to as the "Commission."

NOW, on this 18th day of April, 1966, the Commission, a quorum
being present, having considered the testimony presented and the
exhibits received at said hearing, and being fully advised in the
premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That there is need for the consolidation of the Rattle-
snake-Pennsylvanian "B" Gas Pool and the Rattlesnake-Pennsylvanian
"CD" Oil Pool, San Juan County, New Mexico, to prevent premature
abandonment of both pools. Said consolidation is to be accomplished
by abolishment of the Rattlesnake-Pennsylvanian "B" Gas Pool and the
Rattlesnake-Pennsylvanian "CD" Oil Pool and the creation of the
Rattlesnake-Pennsylvanian "BCD" Oil Pool, with vertical limits being
from 6404 feet to 6827 feet. Type log - Continental Oil Company
Rattlesnake Well No. 136, located in Unit J of Section 2, Township 29
North, Range 19 West, NMPM, San Juan County, New Mexico.

(3) That there is need for certain extensions to the Ballard-
Pictured Cliffs Pool and the South Blanco-Pictured Cliffs Pool, both
in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, to the
Blanco-Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico,
and to the South Blanco-Tocito Oil Pool in Rio Arriba County, New Mexico.

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CASE NO. 3393

Order No. R-3057

IT IS THEREFORE ORDERED:

(a) That the Rattlesnake-Pennsylvanian B Gas Pool in San Juan County, New Mexico, consisting of the following-described area:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
SECTION 2: S/2
SECTION 11: N/2

is hereby abolished.

(b) That the Rattlesnake-Pennsylvanian "CD" Oil Pool in San Juan County, New Mexico, consisting of the following-described area:

TOWNSHIP 29 NORTH, RANGE 18 WEST, NMPM
SECTION 18: S/2 NW/4 and SW/4
SECTION 19: N/2 NW/4 and W/2 NE/4

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
SECTION 1: SW/4
SECTION 2: E/2 and E/2 SW/4
SECTION 11: E/2 NW/4 and NE/4
SECTION 12: NW/4, E/2 SW/4 and SE/4
SECTION 13: NE/4

is hereby abolished.

(c) That a new pool in San Juan County, New Mexico, classified as an oil pool for Pennsylvanian production, is hereby created and designated as the Rattlesnake-Pennsylvanian "BCD" Oil Pool, consisting of the following-described area:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
SECTION 2: S/2
SECTION 11: N/2
SECTION 12: All

(d) That the Ballard-Pictured Cliffs Pool in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 24 NORTH, RANGE 6 WEST, NMPM
SECTION 17: NW/4
SECTION 18: NE/4

(e) That the South Blanco-Pictured Cliffs Pool in Rio Arriba, Sandoval and San Juan Counties, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM
SECTION 14: SW/4
SECTION 15: W/2 and SE/4
SECTION 22: NE/4
SECTION 23: S/2

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CASE NO. 3393

Order No. R-3057

(e) Continued

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM

SECTION 1: SE/4

SECTION 2: SE/4

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

SECTION 3: SW/4

SECTION 10: N/2 and SE/4

(f) That the Blanco-Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

SECTION 10: E/2

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM

SECTION 17: All

SECTION 18: All

SECTION 20: N/2

SECTION 21: N/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM

SECTION 13: S/2

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM

SECTION 26: W/2

(g) That the South Blanco-Tocito Oil Pool in Rio Arriba County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

SECTION 18: SE/4

SECTION 19: NE/4

SECTION 20: N/2

IT IS FURTHER ORDERED:

That the effective date of this order and all creations, extensions, and abolishments included herein shall be May 1, 1966.

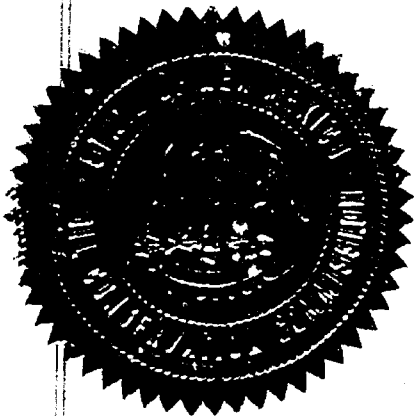
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Jack M. Campbell
JACK M. CAMPBELL, Chairman

Guyton B. Hays
GUYTON B. HAYS, Member

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



NMOCC Exhibit No. 1
Case No. 3393

The following is recommended for the northwest nomenclature case for April, 1966:

- (a) ABOLISH the Rattlesnake-Pennsylvanian "B" Gas Pool which comprises the following-described area:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
Section 2: S/2
Section 11: N/2

- (b) ABOLISH the Rattlesnake-Pennsylvanian "CD" Oil Pool which comprises the following-described area:

TOWNSHIP 29 NORTH, RANGE 18 WEST, NMPM
Section 18: S/2 NW/4 and SW/4
Section 19: N/2 NW/4 and W/2 NE/4

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
Section 1: SW/4
Section 2: E/2 and E/2 SW/4
Section 11: E/2 NW/4 and NE/4
Section 12: NW/4, E/2 SW/4 and SE/4
Section 13: NE/4

- (c) CREATE the Rattlesnake-Pennsylvanian "BCD" Oil Pool with vertical limits being from 6404 feet to 6827 feet on the log of the Continental Oil Company Rattlesnake Well No. 136, located in Unit J of Section 2, Township 29 North, Range 19 West, San Juan County, New Mexico, and with horizontal limits described as follows:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
Section 2: S/2
Section 11: N/2
Section 12: All

- (d) EXTEND the Ballard-Pictured Cliffs Pool boundary in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 6 WEST, NMPM
Section 17: NW/4
Section 18: NE/4

based on:

Intermountain Petroleum Corporation #1 Egan
A-18-24N-6W
AOF 1078 MCFPD; SICP 625#/7 days

- (e) EXTEND the South Blanco-Pictured Cliffs Pool boundary in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM
Section 14: SW/4
Section 15: W/2 and SE/4
Section 22: NE/4
Section 23: S/2

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM
Section 1: SE/4
Section 2: SE/4

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
Section 3: SW/4
Section 10: N/2 and SE/4

XERO
COPY

XERO
COPY

XERO
COPY

XERO
COPY

based on:

Shar-Alan Oil Company #3-X Jicarilla L 160
M-14-23N-2W
AOF 2819 MCFPD; SICP 922#/7 days

Shar-Alan Oil Company #4 Jicarilla L 160
D-15-23N-2W
AOF 1495 MCFPD; SICP 961#/7 days

Shar-Alan Oil Company #3 Jicarilla L 160
K-15-23N-2W
AOF 5599 MCFPD; SICP 953#/7 days

Shar-Alan Oil Company #2 Jicarilla L 160
O-15-23N-2W
AOF 3369 MCFPD; SICP 942#/7 days

Shar-Alan Oil Company #1 Jicarilla N 163
A-22-23N-2W
AOF 5831 MCFPD; SICP 852#

Shar-Alan Oil Company #2 Jicarilla I 163
I-23-23N-2W
AOF 3523 MCFPD; SICP 962#/8 days

Shar-Alan Oil Company #3 Jicarilla I 163
K-23-23N-2W
AOF 2691 MCFPD; SICP 935#/7 days

Continental Oil Company #6 AXI Apache N
P-1-25N-4W
AOF 3700 MCFPD; SICP 993#/11 days

Continental Oil Company #8 AXI Apache N
P-2-25N-4W
AOF 3050 MCFPD; SICP 853#/3 days

Continental Oil Company #4 AXI Apache K
M-3-26N-5W
AOF 1300 MCFPD; SICP 992#/7 days

Continental Oil Company #5 AXI Apache K
H-10-26N-5W
AOF 1185 MCFPD; SICP 1070#

(f) EXTEND the Blanco-Mesaverde Pool boundry in Rio Arriba and San Juan
Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPH
Section 10: E/2

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPH
Section 17: All
Section 18: All
Section 20: N/2
Section 21: N/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPH
Section 13: S/2

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPH
Section 26: W/2

Case No. 3393

based on:

Continental Oil Company #5 AXI Apache K
H-10-26N-5W
IP 2870 MCFPD; SITP 1110#

Caulkins Oil Company #229 Breech A
D-17-26N-6W
AOF 1610 MCFPD; SICP 1028#/7 days

Caulkins Oil Company #341 Breech D
B-21-26N-6W
AOF 930 MCFPD; SICP 1085#/7 days

Caulkins Oil Company #307 Breech
M-13-26N-7W
AOF 954 MCFPD; SICP 1004#/7 days

El Paso Natural Gas Company #85 Huerfanito Unit
M-26-27N-9W
AOF 6390 MCFPD; SICP 1052#/15 days

- (g) EXTEND the South Blanco-Tocito Oil Pool boundry in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

Section 18: SE/4

Section 19: NE/4

Section 20: N/2

based on:

Tenneco Oil Company #3 Jicarilla A
A-19-26N-5W
AOF 2794 MCFPD; SICP 1713#

Tenneco Oil Company #5 Jicarilla A
G-20-26N-5W
AOF 26,290 MCFPD; SICP 1736#/10 days

San Juan County, New Mexico

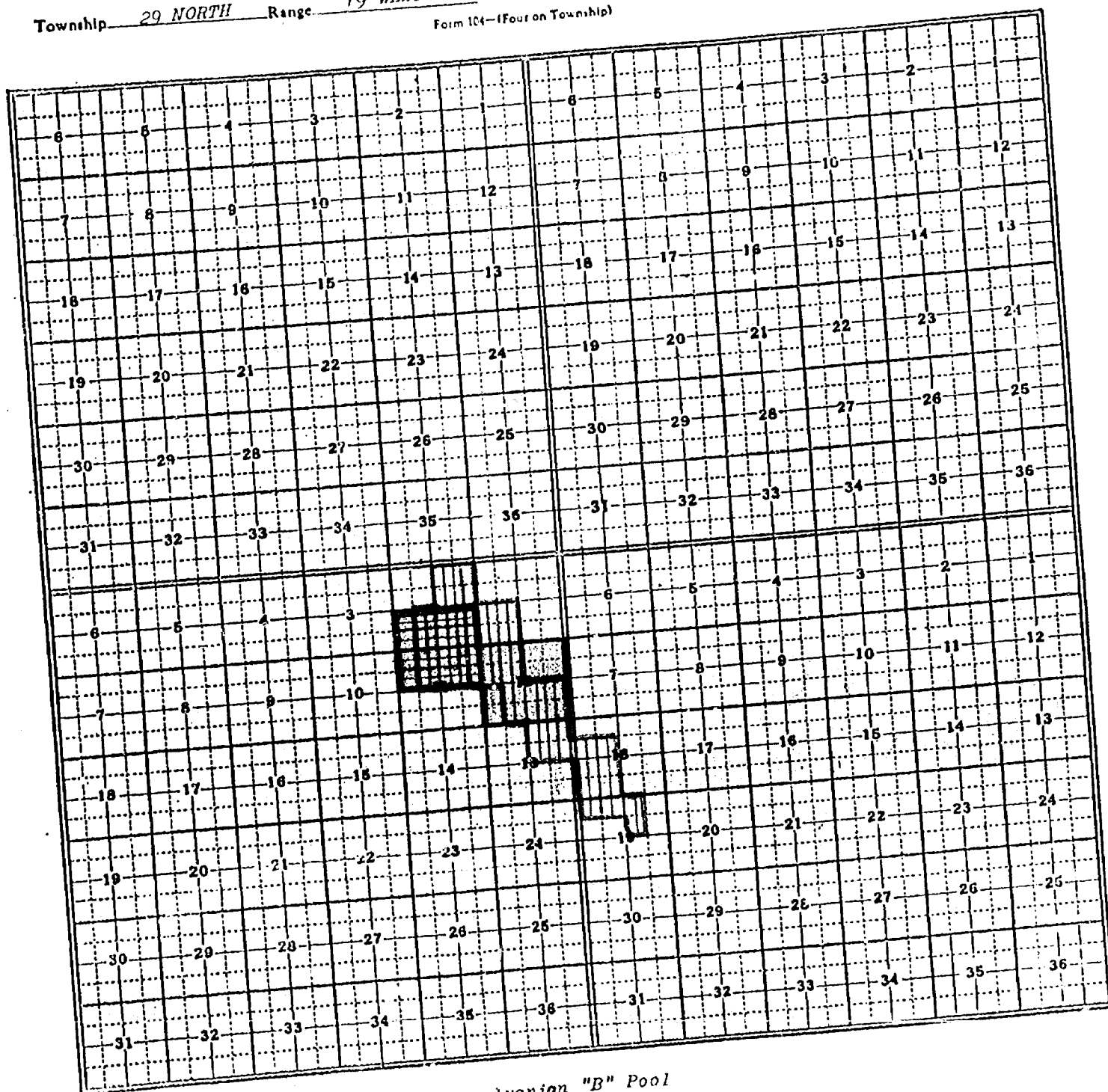
Township 30 NORTH Range 19 WEST




Township 29 NORTH Range 19 WEST

Township 30 NORTH Range 18 WEST

Township 29 NORTH Range 18 WEST

Form 104—(Four on Township)



 Rattlesnake-Pennsylvanian "B" Pool
 Rattlesnake-Pennsylvanian "GD" Oil Pool
 Rattlesnake-Pennsylvanian "PCD" Oil Pool

OIL CONSERVATION COMMISSION
P. O. BOX 2088 • SANTA FE, NEW MEXICO 87501 • PHONE 827-2434

MESSAGE

REPLY

TO

Emily A. H.
OCC

DATE

April, 1966
3/1/66

DATE

3-7-66

We will plan
to put this on
the April docket.

Time is getting
short.

BY

We have reviewed
the 4495 comment to
Continental's proposal
concerning the
"Kittlingbee Pool" and
"Barn CD"
pools. If your draft is
proper, please put same
on next month's docket.
Thank you.

SIGNED

al

RECIPIENT KEEP THIS COPY. RETURN WHITE COPY TO SENDER



CONTINENTAL OIL COMPANY

P. O. Box 1621
Durango, Colorado
March 2, 1966



New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Gentlemen:

Attached are two copies of a letter from the United States Geological Survey approving our request for redesignation of the Rattlesnake Pennsylvanian "CD" oil pool and the Rattlesnake "B" gas pool into a combined pool. Application to the New Mexico Oil Conservation Commission was submitted February 9, 1966.

Very truly yours,

Ben W. Smith

Ben W. Smith
Assistant District Manager
Durango District
Production Department

GAB/slf

Attachments



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

RECEIVED	
DURANGO PROJ.	
FEB 23 1966	
FEB 25 1966	
MEM. FILE	
HWP & HE	
GAB	

February 25, 1966

Continental Oil Company
P. O. Box 1621
Durango, Colorado

Attention: Mr. H. D. Haley

Gentlemen:

Your letter of February 10, with attachments, requests approval of the redesignation of the Rattlesnake Pennsylvanian "CD" oil pool and the Rattlesnake "B" gas pool, into a combined pool to prevent the premature abandonment of both pools. The combined pool is to be designated as the Rattlesnake Pennsylvanian "BCD" oil pool covering the S $\frac{1}{2}$ sec. 2, N $\frac{1}{2}$ sec. 11, and all sec. 12, T. 29 N., R. 19 W., with vertical limits correlative to the zone from 6,404 to 6,827 feet as depicted on the log of Rattlesnake well No. 136.

The redesignation of the above-mentioned pools into a combined Rattlesnake Pennsylvanian "BC" oil pool is acceptable to this office, subject to approval by the New Mexico Oil Conservation Commission.

Sincerely yours,

JOHN A. ANDERSON
Regional Oil & Gas Supervisor

MAR 3 AM 10 32

MAIN OFFICE 000



MAIN OFFICE OCC

FEB 11 AM 7 53

CONTINENTAL OIL COMPANY

P. O. Box 1621
Durango, Colorado
February 9, 1966

New Mexico Oil Conservation Commission (✓)
P. O. Box 2082
Santa Fe, New Mexico

Attn: Mr. A. L. Porter, Jr. - Director & Secretary

Gentlemen:

On October 30, 1953, Commission Order No. 2580 ordered that the Rattlesnake-Pennsylvanian Oil Pool, San Juan County, New Mexico, be re-designated as the Rattlesnake-Pennsylvanian "CD" Oil Pool with vertical limits correlative to the zone 6554'-6827' depicted on the log of Continental Rattlesnake Well No. 136, located in Unit "J" of Section 2, T29N, R19W, NMPM, and that a new pool in San Juan County, New Mexico, classified as a gas pool for Pennsylvanian production, be created and designated as the Rattlesnake-Pennsylvanian "B" Pool, consisting of the following described area:

Township 29 North, Range 19W, NMPM
Section 2, S/2
Section 11, N/2

Vertical limits described as the interval from 6404' to 6554' as depicted on the log of Continental Rattlesnake Well No. 136, Unit "J", Section 2, T29N, R19W, NMPM. A log of Well No. 136 and lease plat are attached.

In order to prevent premature abandonment of both pools and therefore prevent waste, it is requested that the vertical limits of the "CD" oil pool be extended to include the contiguous Pennsylvanian "B" Zone and that the pools be re-designated as the Rattlesnake-Pennsylvanian "BCD" oil pool with vertical limits correlative to the zone from 6404' to 6827' as depicted on the log of Rattlesnake Well No. 136, with the pool consisting of the following described area:

Township 29 North, Range 19 West
Section 2, S/2
Section 11, N/2
Section 12, All

Both zones have common working interests and common royalty interest owners.

The purpose of requesting redesignation of the pools is to allow these two stripper or marginal pools to be produced as one pool, thereby, increasing ultimate oil and gas production, reducing operating costs, and preventing premature abandonment of the pools due to uneconomical operation. Attached is a tabulation of Revenue Versus Operating Costs for eleven months of 1965. The analysis shows the pools had an average revenue gain of only \$588 per month or \$6,465 for the year, and operating expense was \$0.956 for each revenue dollar received. At the present decline rate, production from the pools will reach an economic limit during 1966 unless production is increased and operating costs decrease (see attached production history decline curves).

The Pennsylvanian "B" Zone (Upper) is presently open in three wells, No's. 136, 144 and 146 (see attached lease plat). The three wells are dually completed in the Pennsylvanian "CD" oil and "B" gas zones as conventional gas over oil duals and liquid production is authorized for commingling at the surface. Only one of the duals, Well No. 136, is presently being produced from both zones. The "CD" oil zone in the other two wells is temporarily shut-in due to uneconomical oil rates. Gas production from the "B" zone has declined to approximately 100 MCFD from the three flowing wells, due to increased water production. Production from the "CD" zone in Well No. 136 is presently 22 BOPD and 21 MCF of gas per day, pumping.

If the request for redesignation as one pool is granted, it is proposed to produce both zones in the three dual wells by pumping and, thereby, increase oil production from the field by producing the "CD" zone, presently shut-in in Wells No. 144 and 146, and increase gas production from the "B" zone by pumping the produced water. Currently, the "B" zone gas wells load up with water and will not produce at maximum rate. The "B" zone gas is non-prorated, and none of the "CD" oil wells are capable of making top allowable. It is estimated that producing both zones together will increase oil and gas production from the field by 25 BOPD and 250 MCF of gas per day, respectively.

By increasing production and extending the economic producing life of the field, it is estimated that 36,000 barrels of oil and 258 MMCF of gas will be recovered from the combined zone, which would otherwise not be recovered.

It is believed that redesignation of the two pools into one common pool will be in the best interest of conservation and the prevention of waste.

Attached are pertinent data on the two pools, regarding reservoir pressures, gas analyses, production data, etc. The data indicate both reservoirs had an initial pressure of approximately 3300 psi. Total oil, gas and water withdrawals from the "CD" oil zone have been much higher than the "B" zone, and the current bottom-hole pressure is correspondingly lower. The "CD" zone has produced in the field as early as 1929. A cumulative of

GAS ANALYSIS DATA - RATTLESNAKE FIELD
(Mol %)

	Rattlesnake No. 136		Penn "CD" (Average)
	Penn. "B"	Penn. "CD"	
Nitrogen	1.63	3.28	3.98
Methane	85.95	72.69	75.47
Ethane	6.18	11.10	10.14
Propane	2.82	6.08	5.21
Iso-butane	0.59	1.20	1.05
N-butane	1.00	2.17	1.84
Iso-Pentane	0.37	0.71	0.50
N-Pentane	0.36	0.68	0.40
Hexanes	0.39	0.58	0.37
Hexanes +	0.65	1.23	0.56
Carbon Dioxide	0.06	0.28	0.30
Helium (Special Anal.)	0.09	0.2	0.10
Gas Gravity	0.746	0.808	0.760
G.P.M.	2.006	4.052	3.14
Gross Heating Value	1191 BTU	1354 BTU	1265 BTU
Liquid Hydrocarbon Gravity °API	60°	43.2°	45.0°

PRODUCTION DATA - 1965

<u>MONTH</u>	<u>"CD" Zone-4 Wells</u>			<u>"B" Zone-3 Wells</u>		
	<u>BOPD</u>	<u>MCFPD</u>	<u>BWPD</u>	<u>MCFPD</u>	<u>BOPD</u>	<u>BWPD</u>
January	112	367	272	388	5	72
February	193	257	282	339	5	70
March	79	241	180	599	7	89
April	116	479	225	172	2	38
May	138	538	270	93	2	44
June	80	387	179	126	4	57
July	67	327	255	163	4	61
August	91	477	295	128	3	47
September	75	443	377	121	3	55
October	80	435	362	74	3	38
November	77	399	368	148	3	38
December	53	235	359	120	1	20
Average	97	382	287	205	3	52

PRODUCTION DATA - WELL NO. 136
(Dual Completion in Penn. "CD" and Penn. "B" Zones)

	<u>"CD" Zone</u>		<u>"B" Zone</u>		
	<u>BOPD</u>	<u>MCFPD</u>	<u>MCFPD</u>	<u>BOPD</u>	<u>BWPD</u>
January	40	50	12	5	-
February	34	47	12	5	20
March	25	73	80	0	20
April	24	30	25	0	20
May	27	77	13	0	18
June	17	37	15	0	19
July	22	37	19	0	20
August	32	41	20	0	22
September	16	22	20	0	22
October	22	22	20	0	22
November	22	21	37	0	23
December	15	63	56	0	13
Average	25	48	27	-	20

DSTA - PALEOZOIC PENNSYLVANIAN "CD" AND "B"
POOLS - SAN JUAN COUNTY, NEW MEXICO

Pressure Data

<u>Well No.</u>	<u>Pool</u>	<u>Pressure (PSIG)</u>	<u>Remarks</u>
136	"CD"	1960	Initial DST shut-in pressure (11-1960)
136	"B"	3280	Initial DST shut-in pressure (10-1960)
140	"CD"	1545	2 - 1962 (Initial shut-in)
141	"CD"	1468	4 - 1962 (Initial shut-in)
142	"CD"	1415	5 - 1962 (Cumulative - 1060 Bbls.)
144	"CD"	1287	11- 1962 (Cumulative - 4089 Bbls.)
*Kern County #1	"CD"	3358	Initial "CD" DST pressure (9-1962)

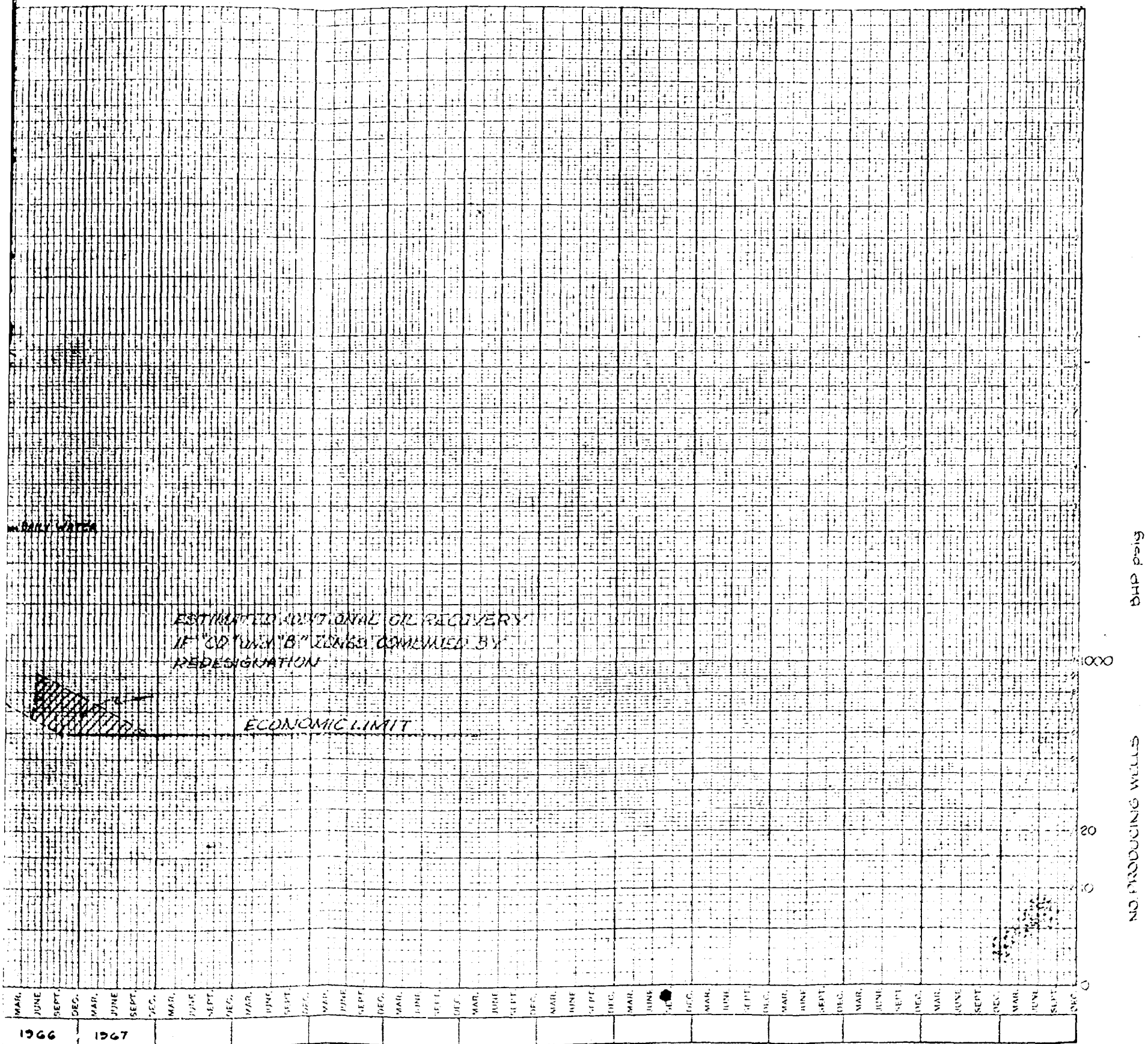
* Well drilled 2 1/2 miles from designated main pool-considered original "CD" zone reservoir pressure.

Surface Shut-In Pressures - Packer Leakage Tests

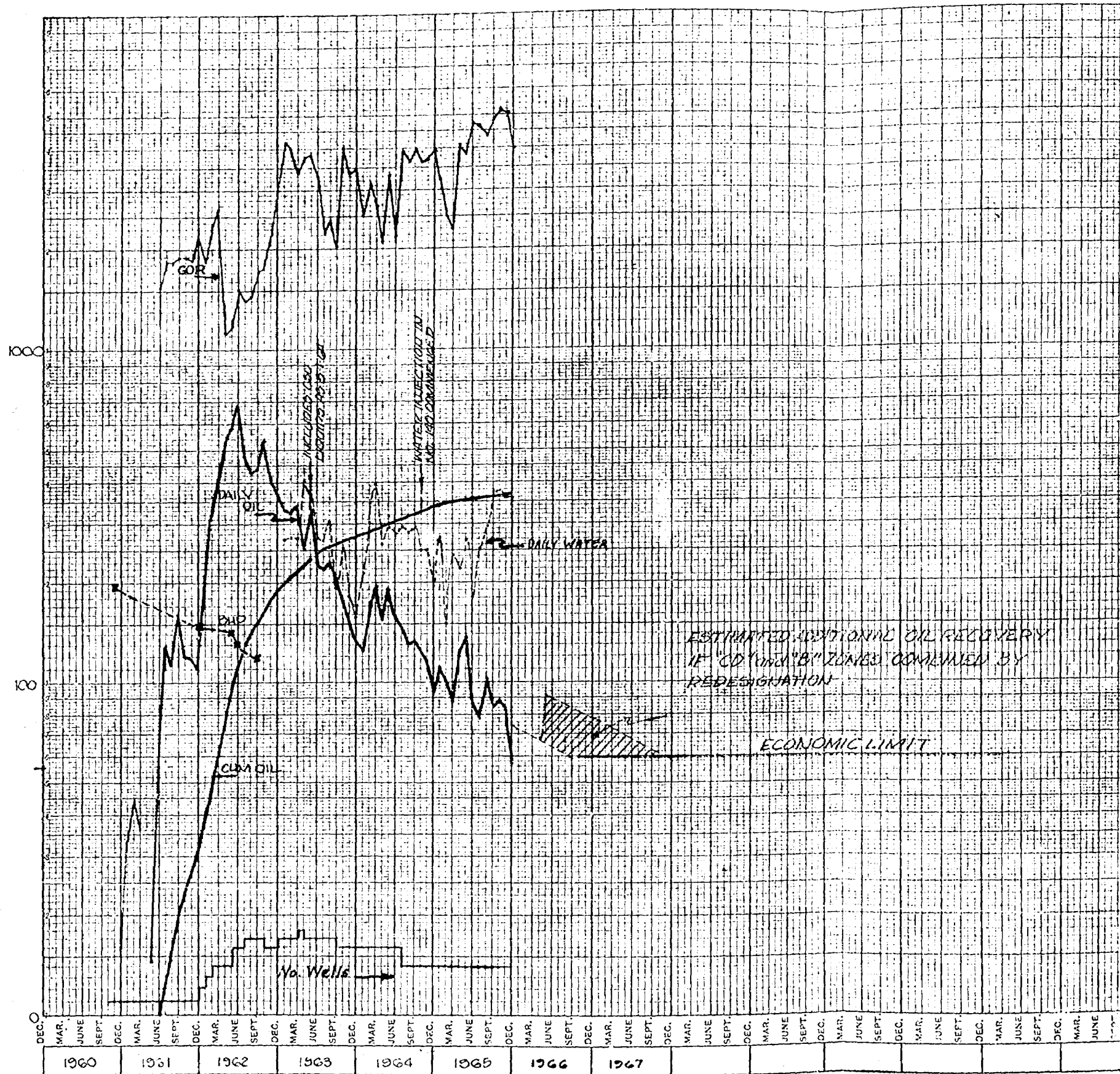
<u>Well No.</u>	<u>Date</u>	<u>"CD" zone Pressure - Hrs. SI</u>	<u>"B" zone Pressure - Hrs. SI</u>
136	2-64	624# - 72 Hours	1879# - 168 Hrs.
	11-64	130# - 102 Hours	952# - 216 Hrs.
	12-65	378# - 168 Hours	690# - 72 Hrs.
144	3-63	52# - 122 Hours	1600# - 48 Hrs.
	11-64	88# - 100 Hours	416# - 216 Hrs.

DURANGO DISTRICT
SAN JUAN CO., NEW MEXICO

RATTLESNAKE FIELD
PENN. PARADOX "CD"



----- WATER PROD. BBLs/D. GOR SCE
 OIL PRODUCTION BBLs/D. CUM. OIL MBBLs GOR STB



RATTLESNAKE FIELD
PENN. PARADOX "B"
GAS ZONE

ESTIMATED RATE INCREASE
IF EXCESS WATER WAS
REMOVED BY PUMPING

1965 1966 1967

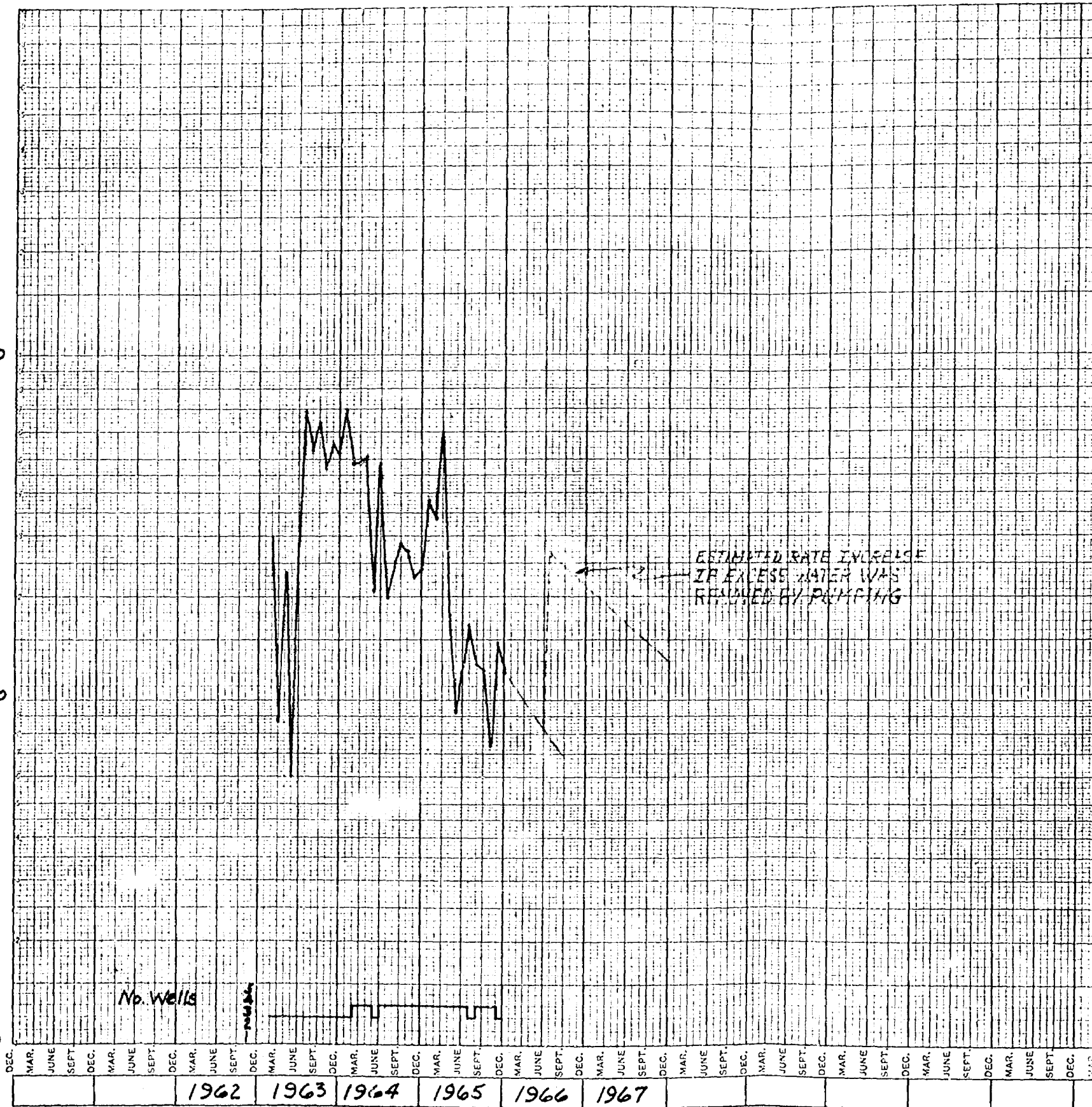


GAS PRODUCTION (MCFPD)

1000

100

10

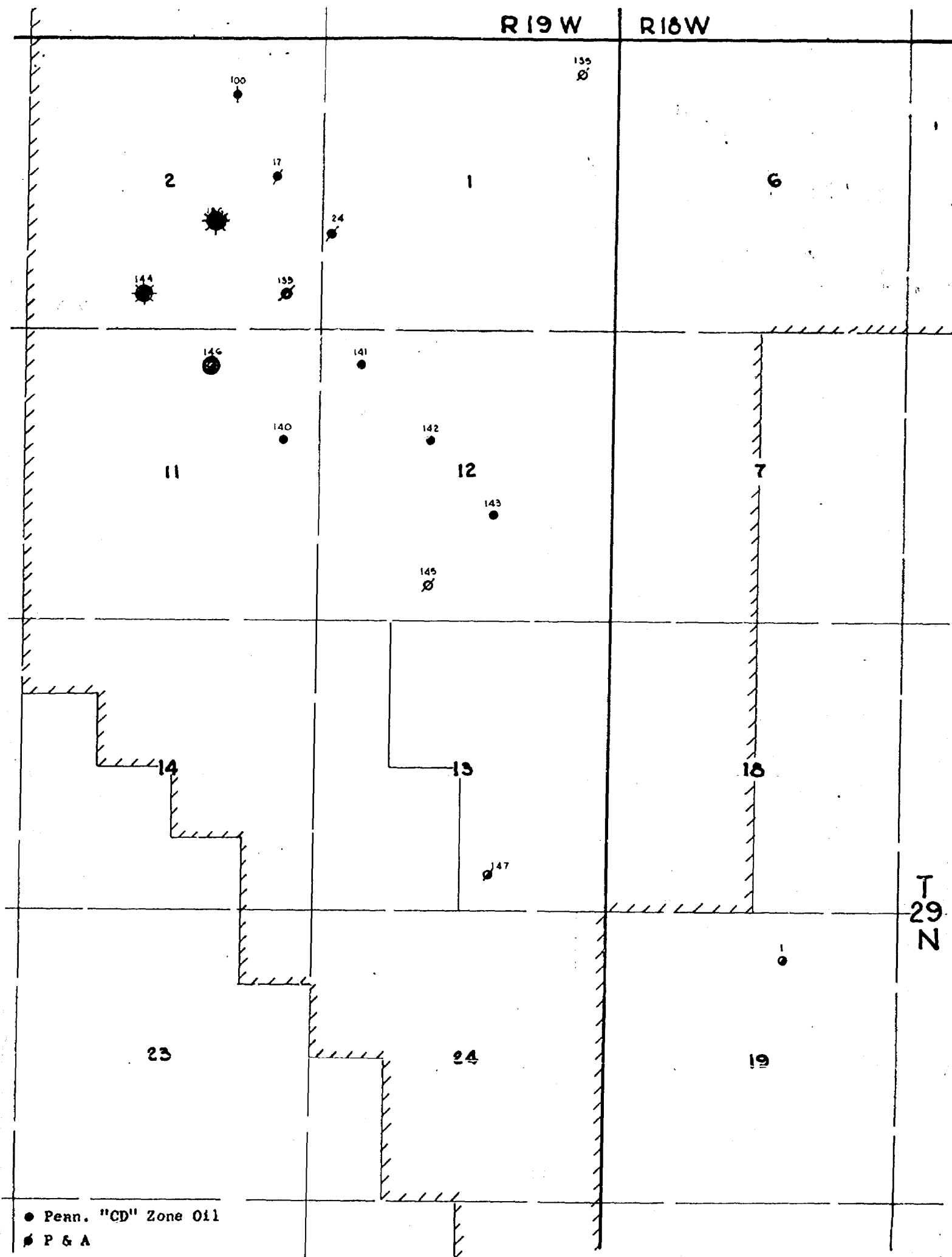


No. Wells



ESTIMATED RATE INCREASE
IF EXCESS WATER WAS
REMOVED BY PUMPING

ANALYSIS OF REVENUE VERSUS OPERATING COSTS - 1965
KATLESNAKE PENNSYLVANIAN "B" AND "CD" POOLS (COMBINED)

[illegible]



- Penn. "CD" Zone Oil
- ⊙ P & A
- ⊙ D & A
- ★ Penn. "B" Zone Gas & Condensate
- ⊙ Dual Comp. Penn. "B" Zone Gas
Penn. "CD" Zone Oil

 CONTINENTAL OIL COMPANY 		
PRODUCTION DEPARTMENT		
DRAWN <u>GAB</u>	SCALE <u>1" = 2000'</u>	FILE NO. _____
CHECKED _____	DATE <u>3-10-64</u>	
APPROVED _____	SHEET _____ OF _____	
LEASE PLAT PENNSYLVANIAN ZONE RATTLESNAKE FIELD		

DOCKET: REGULAR HEARING - WEDNESDAY - APRIL 13, 1966

OIL CONSERVATION COMMISSION - 9 A.M., THE INN MOTOR HOTEL, CONVENTION CENTER,
200 SOUTH LINAN, HOBBS, NEW MEXICO

- ALLOWABLE (1) Consideration of the oil allowable for May, 1966;
- (2) Consideration of the allowable production of gas for May, 1966, from thirteen prorated pools in Lea, Eddy, and Roosevelt Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for May, 1966.
- CASE 3389: Application of David Fasken for down-hole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle in the wellbore, production from the North Bagley-Upper Pennsylvanian, North Bagley-Middle Pennsylvanian, and North Bagley-Lower Pennsylvanian Oil Pools in his Felmont Collier Well No. 1, located in Unit H of Section 9, Township 11 South, Range 33 East, Lea County, New Mexico, with the provision that no more than one top allowable could be produced from said well.
- CASE 3376: Application of T. E. Brown, Jr. and Claudyne Brown Thorp for compulsory pooling, Lea County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all oil and gas mineral interests in the Lusk-Strawn Pool underlying the NE/4 of Section 7, Township 19 South, Range 32 East, Lea County, New Mexico. Said order to be effective the date of first production from said land and pool.
- CASE 3390: Application of Pan American Petroleum Corporation for special rules for the East Hightower-Lower Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the East Hightower-Lower Pennsylvanian Pool, Lea County, New Mexico, including a provision for 80-acre proration units.
- CASE 3391: Application of The Atlantic Refining Company for three waterflood projects, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project on each of three separate contiguous leases, pending unitization, by the injection of water into the Yates and Upper Queen formations, Shugart Pool, through five wells located in Sections 34 and 35, Township 18 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks an administrative procedure whereby the project areas could be consolidated or expanded to include other lands upon unitization and whereby additional injection wells could be approved.
- CASE 3392: Southeastern New Mexico nomenclature case calling for an order for the creation, extension and contraction of certain pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
- a) CREATE A new gas pool for San Andres production designated as the South Crossroads-San Andres Gas Pool. The discovery well is W. K. Byrom, T. P. State No. 1, located in Unit K of Section 10, Township 10 South, Range 36 East, NMPM. Said pool described as:
- TOWNSHIP 10 SOUTH, RANGE 36 EAST, NMPM
SECTION 10: SW/4

APRIL 13, 1966, REGULAR HEARING

- b) EXTEND the Chaveroo-San Andres Pool to include therein:

TOWNSHIP 7 SOUTH, RANGE 33 EAST, NMPM
SECTION 24: SW/4
SECTION 25: W/2
SECTION 26: S/2
SECTION 28: NE/4
SECTION 35: NW/4

- c) EXTEND the South Corbin-Queen Pool to include therein:

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM
SECTION 34: N/2

- d) EXTEND the Jenkins-Cisco Pool to include therein:

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM
SECTION 25: NW/4

- e) EXTEND the Justis-Blinebry Pool to include therein:

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
SECTION 26: SW/4

- f) EXTEND the Morton-Lower Wolfcamp Pool to include therein:

TOWNSHIP 15 SOUTH, RANGE 34 EAST, NMPM
SECTION 12: SE/4

- g) EXTEND the Querecho Plains-Pennsylvanian Pool to include therein:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM
SECTION 15: SW/4
SECTION 22: NW/4

- h) EXTEND the Scarborough-Yates-Seven Rivers Pool to include therein:

TOWNSHIP 26 SOUTH, RANGE 37 EAST, NMPM
SECTION 30: SW/4

- i) EXTEND the Indian Basin-Upper Pennsylvanian Gas Pool to include therein:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM
SECTION 29: All
SECTION 32: All

- j) CONTRACT the Red Lake Pool by the deletion therefrom of the following lands:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM
SECTION 31: SE/4 NE/4 and E/2 SE/4

APRIL 13, 1966, REGULAR HEARING

- b) EXTEND the Chaveroo-San Andres Pool to include therein:

TOWNSHIP 7 SOUTH, RANGE 33 EAST, NMPM
SECTION 24: SW/4
SECTION 25: W/2
SECTION 26: S/2
SECTION 28: NE/4
SECTION 35: NW/4

- c) EXTEND the South Corbin-Queen Pool to include therein:

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM
SECTION 34: N/2

- d) EXTEND the Jenkins-Cisco Pool to include therein:

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM
SECTION 25: NW/4

- e) EXTEND the Justis-Blinebry Pool to include therein:

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
SECTION 26: SW/4

- f) EXTEND the Morton-Lower Wolfcamp Pool to include therein:

TOWNSHIP 15 SOUTH, RANGE 34 EAST, NMPM
SECTION 12: SE/4

- g) EXTEND the Querecho Plains-Pennsylvanian Pool to include therein:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM
SECTION 15: SW/4
SECTION 22: NW/4

- h) EXTEND the Scarborough-Yates-Seven Rivers Pool to include therein:

TOWNSHIP 26 SOUTH, RANGE 37 EAST, NMPM
SECTION 30: SW/4

- i) EXTEND the Indian Basin-Upper Pennsylvanian Gas Pool to include therein:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM
SECTION 29: All
SECTION 32: All

- j) CONTRACT the Red Lake Pool by the deletion therefrom of the following lands:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM
SECTION 31: SE/4 NE/4 and E/2 SE/4

DOCKET: REGULAR HEARING - WEDNESDAY - APRIL 13, 1966

OIL CONSERVATION COMMISSION - 9 A.M., THE INN MOTOR HOTEL, CONVENTION CENTER,
200 SOUTH LINAM, HOBBS, NEW MEXICO

- ALLOWABLE (1) Consideration of the oil allowable for May, 1966;
- (2) Consideration of the allowable production of gas for May, 1966, from thirteen prorated pools in Lea, Eddy, and Roosevelt Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for May, 1966.
- CASE 3389: Application of David Fasken for down-hole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle in the wellbore, production from the North Bagley-Upper Pennsylvanian, North Bagley-Middle Pennsylvanian, and North Bagley-Lower Pennsylvanian Oil Pools in his Felmont Collier Well No. 1, located in Unit H of Section 9, Township 11 South, Range 33 East, Lea County, New Mexico, with the provision that no more than one top allowable could be produced from said well.
- CASE 3376: Application of T. F. Brown, Jr. and Claudyne Brown Thorp for compulsory pooling, Lea County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all oil and gas mineral interests in the Lusk-Strawn Pool underlying the NE/4 of Section 7, Township 19 South, Range 32 East, Lea County, New Mexico. Said order to be effective the date of first production from said land and pool.
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- CASE 3392: Southeastern New Mexico nomenclature case calling for an order for the creation, extension and contraction of certain pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
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- TOWNSHIP 10 SOUTH, RANGE 36 EAST, NMPM
SECTION 10: SW/4

APRIL 13, 1966, REGULAR HEARING

k) EXTEND the Artesia Pool to include the lands deleted from the Red Lake Pool in Paragraph (j) above.

1) EXTEND the Linda-San Andres Pool to include therein:

TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM
SECTION 8: N/2 NE/4

CASE 3393: Northwestern New Mexico nomenclature case calling for an order for the abolishment, creation and extension of certain pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

a) ABOLISH the Rattlesnake-Pennsylvanian "B" Gas Pool which comprises the following-described area:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
SECTION 2: S/2
SECTION 11: N/2

b) ABOLISH the Rattlesnake-Pennsylvanian "CD" Oil Pool which comprises the following-described area:

TOWNSHIP 29 NORTH, RANGE 18 WEST, NMPM
SECTION 18: S/2 NW/4 and SW/4
SECTION 19: N/2 NW/4 and W/2 NE/4

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
SECTION 1: SW/4
SECTION 2: E/2 and E/2 SW/4
SECTION 11: E/2 NW/4 and NE/4
SECTION 12: NW/4, E/2 SW/4 and SE/4
SECTION 13: NE/4

c) CREATE the Rattlesnake-Pennsylvanian "BCD" Oil Pool with vertical limits being from 6404 feet to 6827 feet on the log of the Continental Oil Company Rattlesnake Well No. 136, located in Unit J of Section 2, Township 29 North, Range 19 West, San Juan County, New Mexico, and with horizontal limits described as follows:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
SECTION 2: S/2
SECTION 11: N/2
SECTION 12: All

d) EXTEND the Ballard-Pictured Cliffs Pool to include therein:

TOWNSHIP 24 NORTH, RANGE 6 WEST, NMPM
SECTION 17: NW/4
SECTION 18: NE/4

e) EXTEND the South Blanco-Pictured Cliffs Pool to include therein:

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM
SECTION 14: SW/4
SECTION 15: W/2 and SE/4
SECTION 22: NE/4
SECTION 23: S/2

APRIL 13, 1966, REGULAR HEARING

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM
SECTION 1: SE/4
SECTION 2: SE/4

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
SECTION 3: SW/4
SECTION 10: N/2 and SE/4

f) EXTEND the Blanco-Mesaverde Pool to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
SECTION 10: E/2

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM
SECTION 17: All
SECTION 18: All
SECTION 20: N/2
SECTION 21: N/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM
SECTION 13: S/2

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM
SECTION 26: W/2

g) EXTEND the South Blanco-Tocito Oil Pool to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
SECTION 18: SE/4
SECTION 19: NE/4
SECTION 20: N/2

GOVERNOR
JACK M. CAMPBELL
CHAIRMAN

State of New Mexico
Oil Conservation Commission

MAIN OFFICE OCC

MAR 21 AM 8 02



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

1000 RIO BRAZOS RD.
AZTEC

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

March 18, 1966

Mrs. Ida Rodriguez
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Re: Northwest Nomenclature Case
April, 1966

Dear Ida:

Attached are paragraph sheets for subject case.

I don't know what is necessary in the ad for paragraph (a).
Please send us an early copy of the docket ad for paragraph (a)
so that our exhibit will be identical to the docket.

Very truly yours,

A. R. Kendrick
A. R. Kendrick

ARK:mc
Attachments

(c) Combine the Rattlesnake-Pennsylvanian "F" Pool and the Rattlesnake-Pennsylvanian "CD" Oil Pool, both in San Juan County, New Mexico, to form the Rattlesnake-Pennsylvanian "FCD" Oil Pool having ~~XXX~~ horizontal limits as follows:

Township 29 North, Range 19 West, NMPM,
 Section 2: S/2
 Section 11: N/2
 Section 12: All

The vertical limits to be ~~XXX~~ redesignated as the interval correlative to the zone 6404' to 6927' as depicted on the log of the Continental Oil Company's Rattlesnake Well No. 136, located in unit J, Section 2, T29N, R19W, San Juan County, New Mexico.

(This constitutes the abolishment of the two old pools and creating of a new pool -- all having different horizontal limits)

(a) Abolish the Rattlesnake-Pennsylvanian "G" gas pool which comprises the following described area:

Township 29 North Range 19 West NMPM
 Section 1: S/2
 Section 11: N/2

(b) Abolish the Rattlesnake-Pennsylvanian "D" Oil Pool which comprises the following described area:

Township 29 North Range 19 West NMPM
 Section 13: S/2 NE/4 and SE/4
 Section 14: S/2 NW/4 and SW/4

Township 29 North Range 19 West NMPM
 Section 15: S/2

Section 21: S/2 and S/2 NE/4

Section 11: S/2 NW/4 and SW/4

Section 12: NW/4, S/2 NE/4 and SE/4

Section 13: NE/4

(c) Create the Rattlesnake-Pennsylvanian "FCD" Oil Pool with vertical limits being from 6404 feet to 6927 feet on the log of the Continental Oil Company's Rattlesnake Well No. 136, located in unit J, Section 2, Township 29 North, Range 19 West, San Juan County, New Mexico, and with horizontal limits as described above.

(*id*) Extend the Pillard-Pictured Cliffs (Pill)
boundary in Sio Arriba, Sandoval & San Juan Count: ies
New Mexico, to include therein:

Township 24 North, Range 6 West, NEPM,
Section 17: NW/4
Section 18: NE/4

Based on:

Intermountain Petroleum Corp. #1 Egan
A-18-24N-6W
AOP 1078 ICFPD: SICP 625# / 7 days

(2) Extend the South Blanco-Pictured Cliffs Pool
boundary in Rio Arriba, Sandoval & San Juan Count les,
New Mexico, to include therein:

✓ Township 23 North, Range 2 West, NMPM,
Section 14: SW/4
Section 15: W/2 & SE/4
Section 22: NE/4
Section 23: S/2

✓ Township 25 North, Range 4 West, NMPM,
Section 1: SE/4
Section 2: SE/4

✓ Township 26 North, Range 5 West, NMPM,
Section 3: SW/4
Section 10: N/2 & SE/4

Based on:

Shar-Alan Oil Co. #3-X Jicarilla C 160
M-14-23N-2W
AOF 2819 MCFPD: SICP 922#/ 7 days

Shar-Alan Oil Co. #4 Jicarilla L 160
D-15-23N-2W
AOF 1495 MCFPD: SICP 961#/ ~~XXXXXX~~ 7 days

Shar-Alan Oil Co. #3 Jicarilla L 160
K-15-23N-2W
AOF 5599 MCFPD: SICP 953#/ 7 days

Shar-Alan Oil Co. #2 Jicarilla L 160
O-15-23N-2W
AOF 3369 MCFPD: SICP 942#/ 7 days

Shar-Alan Oil Co. #1 Jicarilla N 163
A-22-23N-2W
AOF 5831 MCFPD: SICP 852#

Shar-Alan Oil Co. #2 Jicarilla I 163
I-23-23N-2W
AOF 3523 MCFPD: SICP 962#/ 8 days

Shar-Alan Oil Co. #3 Jicarilla I 163
K-23-23N-2W
AOF 2691 MCFPD: SICP 935#/ 7 days

(over)

Continental Oil Co. #6 AXI Apache N
P-1-25N-4W
AOF 3700 MCPPD: SICP 993#/ 11 days

Continental Oil Co. #8 AXI Apache N
P-2-25N-4W
AOF ~~853~~ 1053 MCPPD: SICP 853#/ 3 days
3050

Continental Oil Co. #4 AXI Apache K
M-3-26N-5W
AOF 1300 MCPPD: SICP 992#/ 7 days

Continental Oil Co. #5 AXI Apache K
H-10-26N-5W
AOF 1185 MCPPD: SICP 1070#

(f) Extend the Blanco-Mesaverde Pool
boundary in Rio Arriba & San Juan Count ies,
New Mexico, to include therein:

✓ Township 26 North, Range 5 West, NMPM,
Section 10: E/2

✓ Township 26 North, Range 6 West, NMPM,
Section 17: All
Section 18: All
Section 20: N/2
Section 21: N/2

✓ Township 26 North, Range 7 West, NMPM,
Section 13: S/2

✓ Township 27 North, Range 9 West, NMPM,
Section 26: W/2

Based on:

Continental Oil Co. #5 AXI Apache K
H-10-26N-5W
IP 2870 MCFPD: SITP 1110#

Caulkins Oil Co. #229 Breech A
D-17-26N-6W
AOF 1610 MCFPD: SICP 1028#/ 7 days

Caulkins Oil Co. #341 Breech D
B-21-26N-6W
AOF 930 MCFPD: SICP 1095#/ 7 days

Caulkins Oil Co. #307 Breech
M-13-26N-7W
AOF 954 MCFPD: SICP 1004#/ 7 days

El Paso Nat. Gas Co. #85 Huerfanito Unit
N-26-27N-9W
AOF 6390 MCFPD: SICP 1052#/ 15 days

(9) Extend the South Blanco-Tocito Oil Pool
boundary in Rio Arriba Count y,

New Mexico, to include therein:

✓ Township 26 North, Range 5 West, NMPM,
Section 18: SE/4
Section 19: NE/4
Section 20: N/2

Based on:

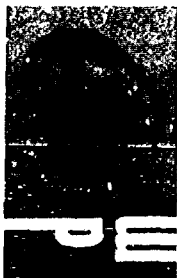
Tenneco Oil Co. #3 Jicarilla A
A-19-26N-5W
AOP 2794 MCFPD: SICP 1713#

Tenneco Oil Co. #5 Jicarilla A
G-20-26N-5W
AOP 26,290 MCFPD: SICP 1736#/ 10 days

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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PAGE 1

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
~~Santa Fe, New Mexico~~
Hobbs, New Mexico
April 13, 1966

REGULAR HEARING

IN THE MATTER OF:

Northwestern New Mexico nomenclature case
calling for an order for the abolishment,
creation and extension of certain pools in
San Juan, Rio Arriba, and Sandoval Counties,
New Mexico.

3393

Case No. _____

BEFORE:

Mac Easely, Lt. Governor
Guyton B. Hayes, Land Commissioner
A. L. (Pete) Porter, Secretary-Director

TRANSCRIPT OF HEARING

MR. PORTER: For the record, the Commission will have one witness in this case.

(Witness sworn.)

(Whereupon, O.C.C.'s Exhibit 1 marked for identification.)

* * *

A. R. KENDRICK, a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. PORTER:

Q Will you state your name and occupation, Mr. Kendrick?

A A. R. Kendrick, Engineer for the Oil Commission.

Q In Connection with Case 3393, Mr. Kendrick, have you made studies concerning the matters that have been advertised in connection with the creation and extension and abolishment of certain pools?

A Yes, sir.

Q Would you please give the Commission and the record the benefit of your recommendations in that respect?

A I have prepared an exhibit marked Exhibit Number 1 for this case, identical to the docket, which includes the supporting data for the extensions of the pools. I have before me an application from Continental Oil Company requesting the abolishment of pools as shown in Paragraph

"A" and "B", and continues to request a creation of the pool as advertised in Paragraph "C". The acreage is identical to the docket. Supporting data is attached along with a copy of the letter from the United States Geological Survey, addressed to Continental Oil Company, agreeing to their requests.

Q Mr. Kendrick, do you concur or do you agree with the recommendations of the U.S.G.S. and Continental Oil Company in Paragraph "A", "B" and "C"?

A Yes, sir.

Q And do you recommend that the other pools be extended as advertised?

A Yes, sir.

Q And have you numbered your exhibit?

A Yes, sir.

Q That's Exhibit 1?

A Exhibit 1.

Q Would you like to offer that in evidence at this time?

A Yes, sir.

(Whereupon, O.C.C.'s Exhibit 1
offered into evidence.)

MR. PORTER: If there are no objections the
Exhibit Number 1 will be admitted to the record.

(Whereupon, O.C.C.'s Exhibit 1
admitted into evidence.)

MR. PORTER: Does anyone have a question of
the witness? He may be excused. Anything further to be
offered in Case 3393? If not, the Commission will take the
case under advisement and the hearing is adjourned.

(Whereupon, the hearing was
adjourned at 12:40 o'clock P.M.)

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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1213 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO

PAGE 5

I N D E X

WITNESS

PAGE

A. R. KENDRICK

Direct Examination by Mr. Porter

2

E X H I B I T S

NUMBER

MARKED FOR
IDENTIFICATION

OFFERED

ADMITTED

O.C.C.'s 1

2

3

4

APR 7 11 07

The following is recommended for the northwest nomenclature case for April, 1966:

- (a) Combine the Rattlesnake-Pennsylvanian "B" Pool and the Rattlesnake Pennsylvanian "CD" Oil Pool, both in San Juan County, New Mexico, to form the Rattlesnake-Pennsylvanian "BCD" Oil Pool, having horizontal limits as follows:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM
Section 2: S/2
Section 11: N/2
Section 12: All

The vertical limits to be redesignated as the interval correlative to the zone 6404' to 6827' as depicted on the log of the Continental Oil Company's Rattlesnake Well No. 136, located in Unit J, Section 2, T29N R19W, San Juan County, New Mexico.

(This constitutes the abolishment of the two old pools and the creating of a new pool -- all having different horizontal limits).

- (b) Extend the Ballard-Pictured Cliffs Pool boundary in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 6 WEST, NMPM
Section 17: NW/4
Section 18: NE/4

based on:

Intermountain Petroleum Corporation #1 Egan
A-18-24N-6W
AOF 1078 MCFPD; SICP 625#/7 days

- (c) Extend the South Blanco-Pictured Cliffs Pool boundary in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM
Section 14: SW/4
Section 15: W/2 and SE/4
Section 22: NE/4
Section 23: S/2

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM
Section 1: SE/4
Section 2: SE/4

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
Section 3: SW/4
Section 10: N/2 and SE/4

based on:

Sher-Alan Oil Company #3-X Jicarilla G 160
M-14-23N-2W
AOF 2819 MCFPD; SICP 922#/7 days

Sher-Alan Oil Company #4 Jicarilla L 160
D-15-23N-2W
AOF 1495 MCFPD; SICP 961#/7 days

Sher-Alan Oil Company #3 Jicarilla L 160
K-15-23N-2W
AOF 5599 MCFPD; SICP 953#/7 days

Shar-Alan Oil Company #2 Jicarilla L 160
O-15-23N-2W
AOF 3369 MCFPD; SICP 942#/7 days

Shar-Alan Oil Company #1 Jicarilla N 163
P-22-23N-2W
AOF 5831 MCFPD; SICP 852#/

Shar-Alan Oil Company #2 Jicarilla L 163
I-23-23N-2W
AOF 3523 MCFPD; SICP 962#/8 days

Shar-Alan Oil Company #3 Jicarilla L 163
K-23-23N-2W
AOF 2691 MCFPD; SICP 935#/7 days

Continental Oil Company #6 AXI Apache N
P-1-25N-4W
AOF 3700 MCFPD; SICP 993#/11 days

Continental Oil Company #8 AXI Apache N
P-2-25N-4W
AOF 3050 MCFPD; SICP 853#/3 days

Continental Oil Company #4 AXI Apache K
M-3-26N-5W
AOF 1300 MCFPD; SICP 993#/7 days

Continental Oil Company #5 AXI Apache K
H-10-26N-5W
AOF 1185 MCFPD; SICP 1070#

- (d) Extend the Blanco-Mesaverde Pool boundary in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
Section 10: E/2

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM
Section 17: All
Section 18: All
Section 20: N/2
Section 21: N/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM
Section 13: S/2

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM
Section 26: W/2

based on:

Continental Oil Company #5 AXI Apache K
H-10-26N-5W
IP 2870 MCFPD; SITP 1110#

Caulkins Oil Company #229 Breech A
D-17-26N-6W
AOF 1610 MCFPD; SICP 1028#/7 days

Caulkins Oil Company #341 Breech D
B-21-26N-6W
AOF 930 MCFPD; SICP 1085#/7 days

-3-
Case No. 3393

Caulkins Oil Company #307 Breech
N-13-26N-7W
AOF 954 MCFPD; SICP 1004//7 days

El Paso Natural Gas Company #85 Huerfanito Unit
N-26-27N-9W
AOF 6390 MCFPD; SICP 1052//15 days

- (e) Extend the South Blanco-Tocito Oil Pool boundary in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
Section 18: SE/4
Section 19: NE/4
Section 20: N/2

based on:

Tenneco Oil Company #3 Jicarilla A
A-19-26N-5W
AOF 2794 MCFPD; SICP 1713#

Tenneco Oil Company #5 Jicarilla A
G-20-26N-5W
AOF 26,290 MCFPD; SICP 1736//10 days