

Sec : 35 Twp : 11S Rng : 32E Section Type : NORMAL

D 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	C 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	B 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09	A 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09
E 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	F 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	G 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09	H 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09
L 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	K 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	J 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09	I 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09
M 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	N 40.00 CS VA3025 0000 DOUG J. SCHUTZ 01/01/09	O 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09	P 40.00 CS VA3037 0000 DOUG J. SCHUTZ 01/01/09

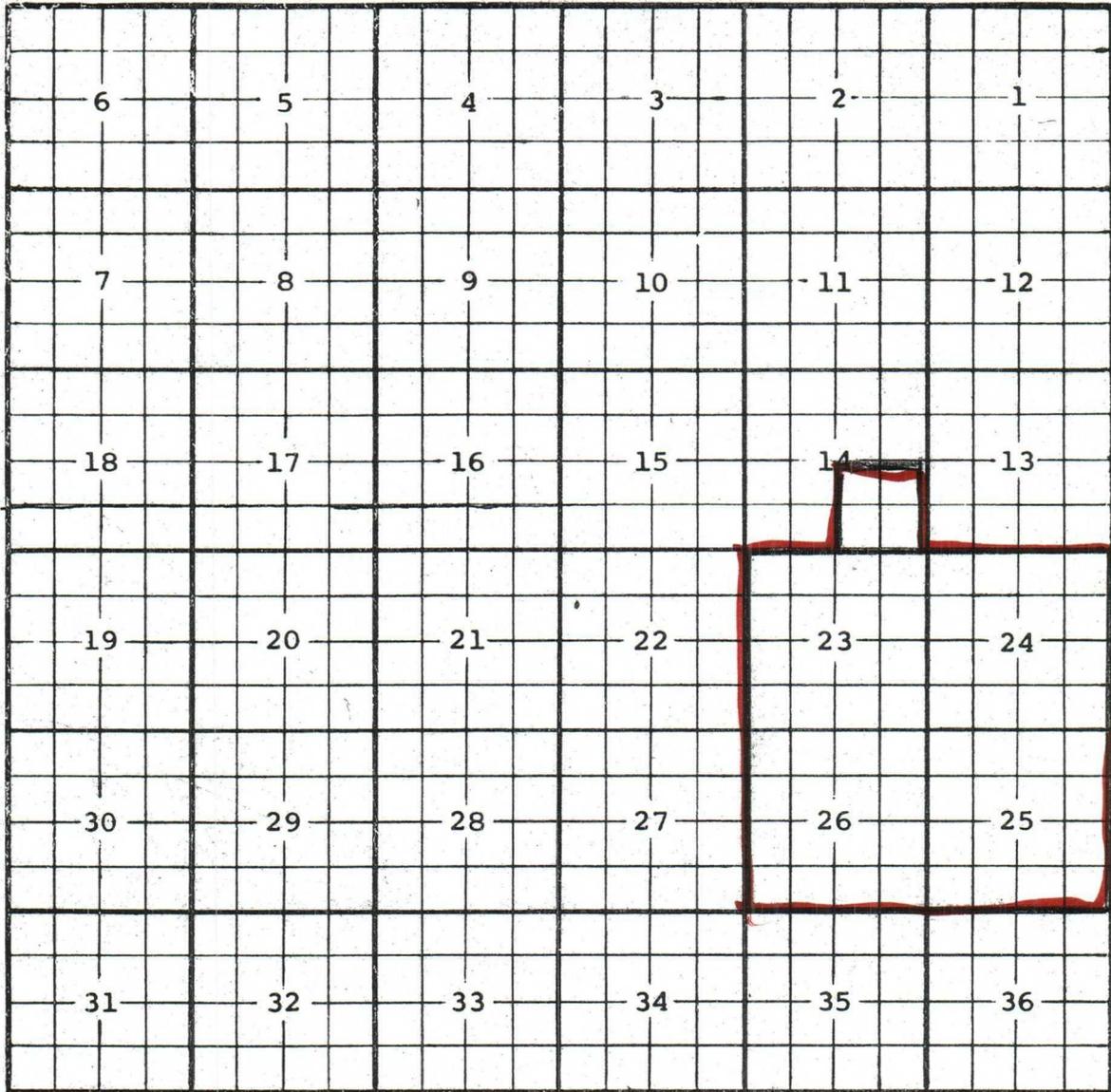
COUNTY *Lea*

POOL *Moore Permo - Pennsylvanian*

TOWNSHIP *11 South*

RANGE *32 East*

NMPM



Description: All Secs. 23, 24, 25, & 26 (R-219, 12-4-52)

Vertical limits redefined: Top pool - shale break @ 8297'; bottom pool @

9974' (Top Miss.) Type log: - Amerada Petr. Corp. State MA #1 M-24-11-32 (R-3355, 2-7-62)

Vertical limits redefined: - Top pool - Top WC @ 8042'; bottom pool: - Top of

Miss. @ 9974'. Type log: - as above (R-3455, 8-1-68) EVT: ^{SE}1/4 SEC 14 (R-8668, 6/10/82)

Data prepared by: Bernard Lewis
 Affiliation: Shell Oil Company
 Date: 7-1-56

Field Name: Moore (Pennsylvanian)
 Location: T. 11 S., R. 32 E.
 County & State: Lea County, New Mexico

DISCOVERY WELL: Texas, State BN #1-L

COMPLETION DATE: 8-18-52

PAY ZONE: Atoka series of the Pennsylvanian system. The pay is in the upper Atoka which consists of gray, micaceous, fissile shale: medium grained, sub-rounded to sub-angular sandstone; and fine crystalline limestone. The production comes from the thin interbedded sandstones. Micrologs indicate an average net and gross pay of eight feet and 80 feet. Initial potentials range from 24 to 156 BOPD. Drilling depth to pay is 9,650 to 9,800 feet.

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

None available

Perm. in millidarcys		% Porosity	Liquid Saturation (% of pore space)	
Horizontal	Vertical		Water	Oil

OTHER SHOWS ENCOUNTERED IN THIS FIELD: See Moore - Devonian

TRAP TYPE: Anticline, with up dip porosity pinchout.

NATURE OF OIL: Gravity 48° A. P. I.

NATURE OF GAS:

NATURE OF PRODUCING ZONE WATER: No info. available Resistivity: ohm-meters @ °F.

ppm	Total Solids	Na/K	Ca	Mg	Fe	SO ₄	Cl	CO ₂	HCO ₃	OH	H ₂ S

INITIAL FIELD PRESSURE: 3,411 psi.

TYPE OF DRIVE: Depletion

NORMAL COMPLETION PRACTICES: Set casing below pay after running electrical and radioactive logs, perforate, and complete flowing.

PRODUCTION DATA:

No. of wells @ yr. end				Production		No. of wells @ yr. end				Production	
Year	Type	Prod.	Shut in or Abnd.	Oil in barrels Gas in MMCF		Year	Type	Prod.	Shut in or Abnd.	Oil in barrels Gas in MMCF	
				Annual	Cumulative					Annual	Cumulative
1941	oil					1949	oil				
	gas						gas				
1942	oil					1950	oil				
	gas						gas				
1943	oil					1951	oil				
	gas						gas				
1944	oil					1952	oil	3	0	7,064	7,064
	gas						gas				
1945	oil					1953	oil	1	2	8,458	15,522
	gas						gas				
1946	oil					1954	oil	1	2	3,584	19,139
	gas						gas				
1947	oil					1955	oil	1	2	1,326	20,465
	gas						gas				
1948	oil					1956*	oil	1	2	257	20,722
	gas						gas				

* 1956 Figure is production to 5-1-56.

NOTE: Refer to map of Moore (Devonian) for nature of Pennsylvanian structure.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 438
ORDER No. R-219

THE APPLICATION OF THE OIL
CONSERVATION COMMISSION UPON
ITS OWN MOTION FOR AN ORDER
FOR THE EXTENSION OF EXISTING
POOLS, OR THE CREATION OF NEW
POOLS IN LEA AND EDDY COUNTIES,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a. m., November 20, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 4th day of December, 1952, the Commission, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

- (1) That due notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That a new pool should be created, classified as an oil pool, and designated as the Moore-Pennsylvanian Pool, described as:

Township 11 South, Range 32 East, NMPM
Sections 23, 24, 25 and 26, all.

- (3) That a new pool should be created, classified as an oil pool, and designated as the Lazy J Pool, described as:

Township 13 South, Range 33 East, NMPM
Section 27, all.

- (4) That a new pool should be created, classified as an oil pool, and designated as the Dark Canyon Pool, described as:

Case No. 438
Order No. R-219

Township 23 South, Range 26 East, NMPM
Section 22, S/2.

(5) That the West Dollarhide-Devonian Pool, Lea County, New Mexico, as heretofore classified ~~and~~ defined and described, should be extended to include:

Township 24 South, Range 38 East, NMPM
Section 30, SE/4.
Section 31, E/2.

Township 25 South, Range 38 East, NMPM
Section 6, NE/4.

IT IS THEREFORE ORDERED:

That the application of the Oil Conservation Commission, be, and the same hereby is approved, as follows:

(1) That a new pool, be, and the same hereby is created, designated for oil production, denominated the Moore-Pennsylvanian Pool, and described as follows:

Township 11 South, Range 32 East, NMPM
Sections 23, 24, 25 and 26, all.

(2) That a new pool, be, and the same hereby is created, designated for oil production, denominated the Lazy J Pool, and described as follows:

Township 13 South, Range 33 East, NMPM
Section 27, all.

(3) That a new pool, be, and the same hereby is created, designated for oil production, denominated the Dark Canyon Pool, and described as follows:

Township 23 South, Range 26 East, NMPM
Section 22, S/2.

(4) That the boundaries of the West Dollarhide-Devonian Pool, Lea County, New Mexico, be, and the same hereby are extended to include:

Township 24 South, Range 38 East, NMPM
Section 30, SE/4.
Section 31, E/2.

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Case No. 438
Order No. R-219

Township 25 South, Range 38 East, NMPM
Section 6, NE/4.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, CHAIRMAN

GUY SHEPARD, MEMBER

R. R. SPURRIER, SECRETARY

S E A L

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 3808
Order No. R-3455

THE APPLICATION OF THE OIL CONSERVATION
COMMISSION UPON ITS OWN MOTION FOR AN
ORDER CONTRACTING, ABOLISHING, AND EXTEND-
ING VERTICAL AND HORIZONTAL LIMITS OF
CERTAIN POOLS IN EDDY AND LEA COUNTIES,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 17, 1968, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 25th day of July, 1968, 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 contraction of the Square Lake Grayburg-San Andres Pool in Eddy County, New Mexico, by the deletion of certain acreage in order that all wells in Sunray's Metex Flood may be in the same pool. The deleted acreage is to be placed in the Grayburg-Jackson Pool.

(3) That there is need for the extension of the vertical limits of the Moore Permo-Pennsylvanian Pool in Lea County, New Mexico, to include the Wolfcamp formation from 8042 feet to 8297 feet. The vertical limits are redefined as being from the top of the Wolfcamp formation at 8042 feet to the top of the

CASE No. 3808
Order No. R-3455

Mississippian formation at 9974 feet as in the Amerada Petroleum Corporation State "MA" Well No. 1, located in Unit M of Section 24, Township 11 South, Range 32 East, NMPM.

(4) That there is need for the abolishment of the Moore-Wolfcamp Gas Pool in Lea County, New Mexico, inasmuch as the pool is within the horizontal limits of the Moore Permo-Pennsylvanian Pool.

(5) That there is need for certain extensions to the Grayburg-Jackson Pool and the Penasco Draw San Andres-Yeso Pool, both in Eddy County, New Mexico, the Arkansas Junction-San Andres Pool, the North Bagley-Lower Pennsylvanian Pool, the East Brunson-Ellenburger Pool, the East Brunson-Granite Wash Pool, the East Brunson-McKee Pool, the Drinkard Pool, the Sawyer-San Andres Gas Pool, the Simanola-Pennsylvanian Pool, and the Vada-Pennsylvanian Pool, all in Lea County, New Mexico.

IT IS THEREFORE ORDERED:

(a) That the Square Lake Grayburg-San Andres Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby contracted by the deletion of the following-described area:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
Section 11: SE/4
Section 15: NW/4

(b) That the Grayburg-Jackson Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
Section 11: SE/4
Section 15: NW/4 and NW/4 SW/4

(c) That the Arkansas Junction-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 36 EAST, NMPM
Section 12: SW/4

(d) That the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and

SOB...
...

described, is hereby extended to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
Section 14: NW/4
Section 20: SW/4
Section 32: NE/4

(e) That the East Brunson-Ellenburger Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 24: SW/4

(f) That the East Brunson-Granite Wash Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 24: S/2

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM
Section 19: SW/4

(g) That the East Brunson-McKee Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 23: N/2 SE/4

(h) That the Drinkard Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 23 SOUTH, RANGE 38 EAST, NMPM
Section 7: NE/2

(i) That the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM
Section 36: N/2 NE/4

...

CASE No. 3808
Order No. R-3455

(j) That the Sawyer-San Andres Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM
Section 25: SE/4

(k) That the Simanola-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM
Section 20: S/2

(l) That the Vada-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM
Section 12: SW/4
Section 13: NW/4
Section 14: N/2
Section 21: SE/4
Section 22: SW/4
Section 32: E/2
Section 33: SW/4

TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM
Section 5: SW/4

(m) That the vertical limits of the Moore Permo-Pennsylvanian Pool in Lea County, New Mexico, are hereby extended to include the Wolfcamp formation from 8042 feet to 8297 feet. The vertical limits are redefined as being from the top of the Wolfcamp formation at 8042 feet to the top of the Mississippian formation at 9974 feet as in the Amerada Petroleum Corporation State "MA" Well No. 1, located in Unit M of Section 24, Township 11 South, Range 32 East, NMPM.

(n) That the Moore-Wolfcamp Gas Pool in Lea County, New Mexico, consisting of the following-described area:

TOWNSHIP 11 SOUTH, RANGE 32 EAST, NMPM
Section 23: E/2
Section 24: SW/4
Section 25: W/2

is hereby abolished.

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CASE No. 3808
Order No. R-3455

IT IS FURTHER ORDERED:

That the effective date of this order and all contractions, abolishments, and extensions of vertical and horizontal limits included herein shall be August 1, 1968.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

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

S E A L

esr/

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7950
Order No. R-7350

APPLICATION OF ALPHA TWENTY-ONE
PRODUCTION COMPANY FOR A SPECIAL
GAS-OIL RATIO LIMITATION, LEA
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 31, 1983, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 19th day of September, 1983, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Alpha Twenty-One Production Company, seeks, as an exception to Rule 506 of the Division Rules and Regulations, a limiting gas-oil ratio of 10,000 cubic feet of gas per barrel of oil in the Moore-Permo Pennsylvanian Pool, Lea County, New Mexico.

(3) That the reservoir characteristics of the subject pool justify the establishment of a gas-oil limitation of 10,000 cubic feet of gas per barrel of liquid hydrocarbons.

(4) That in order to afford to the owners in the Moore-Permo Pennsylvanian Pool the opportunity to economically produce their just and equitable share of the oil and gas in the subject pool and for this purpose to use their just and equitable share of the reservoir energy, a limiting gas-oil ratio of 10,000 cubic feet of gas per barrel of liquid hydrocarbons should be established for the pool.

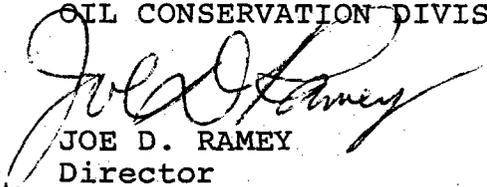
IT IS THEREFORE ORDERED:

(1) That effective September 1, 1983, the limiting gas-oil ratio in the Moore-Permo Pennsylvanian Pool, Lea County, New Mexico, shall be 10,000 cubic feet of gas for each barrel of liquid hydrocarbons produced; that, effective September 1, 1983, each proration unit in the Moore-Permo Pennsylvanian Pool shall produce only that volume of gas equivalent to 10,000 multiplied by the top unit allowable for the pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

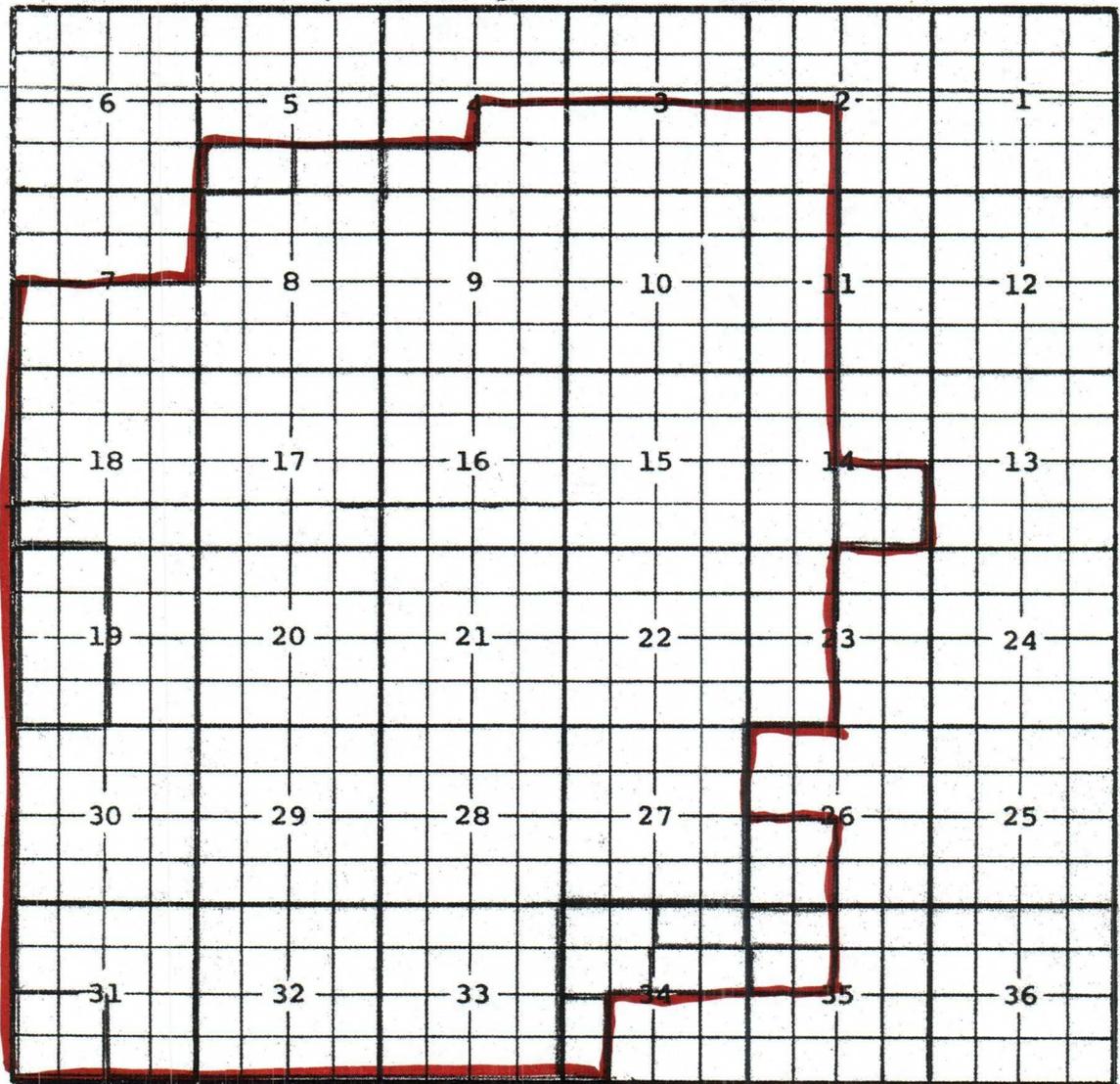
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director

S E A L

fd/

COUNTY *Lea* POOL *Permo North Bagley - Pennsylvanian*
 TOWNSHIP *11 South* RANGE *33 East* NMFM



Description: $\frac{SW}{4}$ Sec. 2; $\frac{S}{2}$ Sec. 3; $\frac{SE}{4}$ & $\frac{S}{2}$ $\frac{SW}{4}$ Sec. 4; $\frac{S}{2}$ $\frac{SE}{4}$ Sec. 5; $\frac{S}{2}$ Sec. 7;
 All Secs. 8, 9 & 10; $\frac{W}{2}$ Sec. 11; $\frac{W}{2}$ Sec. 14; All Sec. 15, 16, 17 & 18; $\frac{E}{2}$ Sec. 19;
 All Sec. 20, 21, & 22; $\frac{W}{4}$ Sec. 23; All Sec. 27, 28, 29 & 30; $\frac{N}{2}$ & $\frac{SE}{4}$ Sec. 31;
 All Sec. 32 & 33 (R-3988, 7-7-70) - $\frac{N}{2}$ $\frac{NE}{4}$ & $\frac{W}{2}$ $\frac{SW}{4}$ Sec. 34 (R-4304, 6-1-72)
 - $\frac{N}{2}$ $\frac{NW}{4}$ Sec. 35 (R-4377, 9-1-72) - $\frac{NW}{4}$ Sec. 34 (R-4423, 11-1-72) - $\frac{SW}{4}$ Sec. 26;
 - $\frac{S}{2}$ $\frac{NW}{4}$ Sec. 35 (R-4464, 2-1-73) - $\frac{S}{2}$ $\frac{NE}{4}$ Sec. 34 (R-4566, 7-1-73)

Ext: $\frac{SW}{4}$ Sec 31 (R-4861, 11-1-74)

Extend vertical limits to include Wolfcamp formation and redesignate as North Bagley - Permo Pennsylvanian Pool and Ext: $\frac{SE}{4}$ Sec. 14, $\frac{W}{2}$ Sec. 19 (R-7229, 5-17-83) Ext: $\frac{S}{2}$ $\frac{SW}{4}$ Sec. 5 (R-9585, 9-30-91)

county Lea Pool North Bagley - Permo Pennsylvanian

TOWNSHIP -12 South Range 32 East NMPM

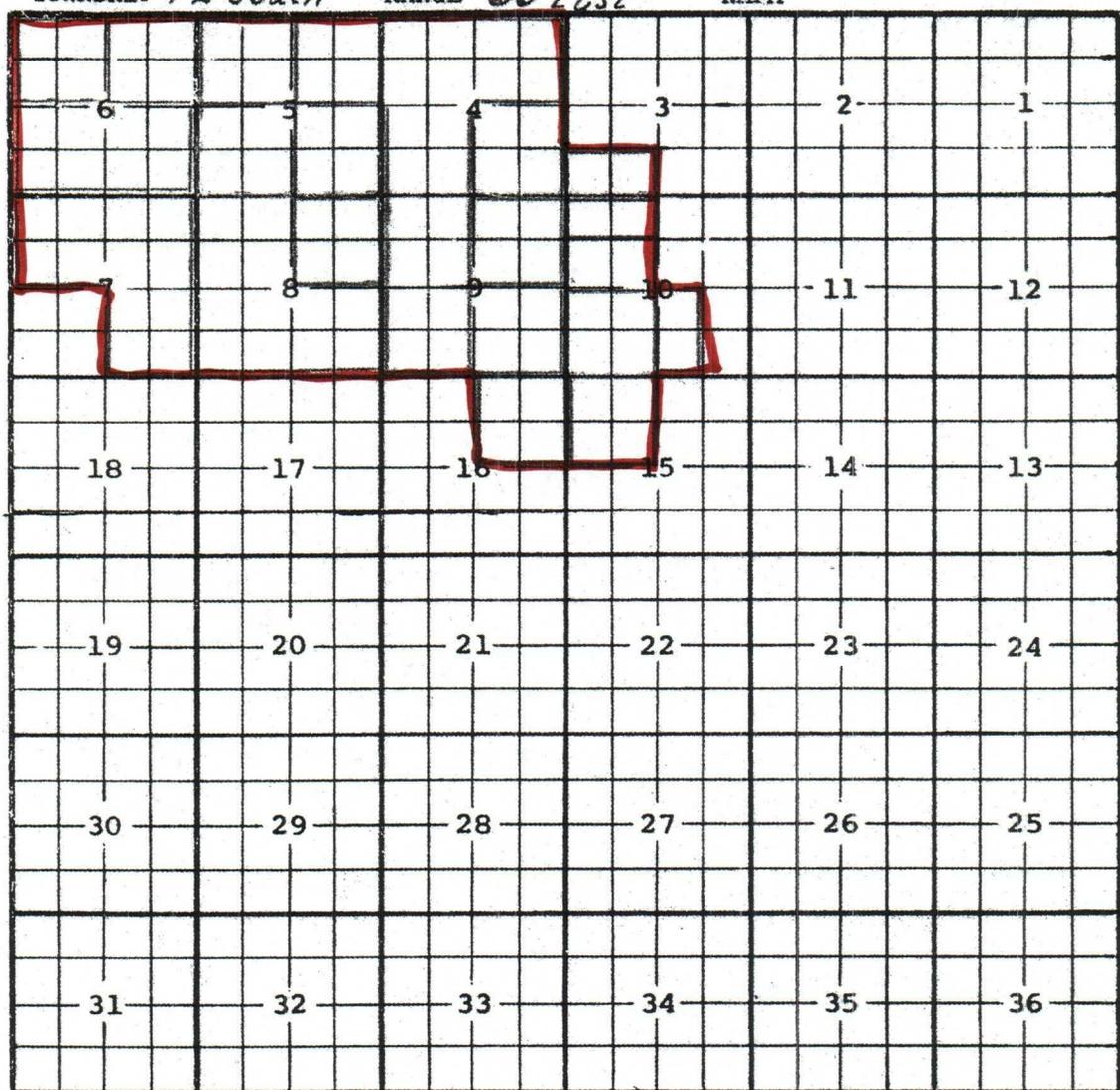
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Ext: $NE\frac{1}{4}$ Sec 1 (R-5215, 6-1-76) Ext: $SE\frac{1}{4}$ Sec 1 (R-5334, 12-1-76)

Extend vertical limits to include Watercamp formation and redesignate as North Bagley - Permo Pennsylvanian Pool. EXT: E/2 SW/4, SW/4 SW/4 sec 1 (R-9741, 9-1-89)

COUNTY Lea POOL North Bagley - Permo Pennsylvanian

TOWNSHIP 12 South RANGE 33 East NMPM



Description: $\frac{N}{2} \& \frac{SW}{4}$ Sec. 4; $\frac{NE}{4}$ Sec. 5; $\frac{W}{2}$ Sec. 9 (R-3988, 7-7-70)
 Ext: $\frac{NE}{4}$ Sec. 8; $\frac{NE}{4}$ Sec. 9 (R-4106, 3-1-71) - $\frac{NW}{4} \& \frac{SE}{4}$ Sec. 5; $\frac{N}{2} \frac{NW}{4}$ Sec. 10 (R-4155, 7-1-71)
 - $\frac{SE}{4}$ Sec. 4 (R-4184, 9-1-71) - $\frac{SE}{4}$ Sec. 9 (R-4232, 1-1-72) - $\frac{SW}{4}$ Sec. 10; $\frac{NW}{4}$ Sec. 15 (R-4279, 4-1-72)
 - $\frac{S}{2} \frac{SW}{4}$ Sec. 3 (R-4304, 6-1-72) - $\frac{NE}{4}$ Sec. 16 (R-4377, 9-1-72) - $\frac{S}{2} \frac{NW}{4}$ Sec. 10 (R-4464, 2-1-73)
 Ext: $\frac{NE}{4}$ Sec 6 (R-4821, 8-1-74) Ext: $\frac{NW}{4}$ Sec 6 (R-4861, 11-1-74)
 Ext: $\frac{S}{2}$ Sec 6 (R-4937, 2-1-75) Ext: $\frac{W}{2} \frac{SE}{4}$ Sec 10 (R-5081, 9-1-75)
 Ext: $\frac{N}{2} \& \frac{SE}{4}$ Sec 7 (R-5102, 10-1-75) Ext: $\frac{SW}{4}$ Sec 5 -
 $\frac{W}{2} \& \frac{SE}{4}$ Sec 8 (R-5511, 9-1-77)

Extend vertical limits to include Wolfcamp formation and redesignate as North Bagley - Permo Pennsylvanian Pool.