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No. 80/9

TO COUNTY ASSESSORS:

INFORMATION REGARDING THE ASSESSMENT OF <u>PETROLEUM PROPERTIES</u>

January 15, 1980

We are frequently asked questions about the assessment of petroleum properties. To assist those who may have similar questions, we have prepared the enclosed petroleum assessment guidelines, answers to some recent questions we have received, and some examples of petroleum property appraisals under Proposition 13.

Please refer any inquiries to Ray Rothermel of this division (916) 445-4982.

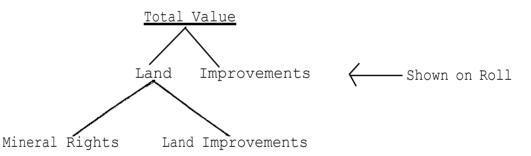
Sincerely,

Verne Walton, Chief Assessment Standards Division

VW:ebv Enclosures

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- 1. Subsurface non-retrievable oil well equipment and the hole in the ground have value as long as the property is capable of producing oil or gas. These represent a considerable original investment and are part of the total property value.
- 2. Ordinarily, in a development well, the value of the well (well is defined as the subsurface retrievables and non-retrievables) and related production equipment have a first year value equal to their cost new.
- 3. The value of the well and related production equipment declines over time as the reserves decline; however, this fact is not recognized under Proposition 13, but is recognized under Proposition 8.
- 4. Salvageable equipment value cannot decline below its current salvage value.
- 5. Ordinarily, as added reserves are recognized due to economics or other factors, the life of the equipment and the well is extended. With this extended life, the present worth is increased. However, this increase cannot be recognized under Proposition 13.
- 6. Under the provisions of Proposition 13, the addition and removal of reserves must be reflected in the current year's taxable value.
- 7. Under current law, the mineral rights and non-retrievable portions of the well are all considered "land."



- 8. In 1975 (prior to Proposition 13 valuation), the value enrolled as land included the mineral rights, the non-retrievables in the well, and the hole in the ground. Generally, no value was developed for the "hole" separate from the mineral rights as they were considered part of one economic unit.
- 9. If property (reserves) removed and property (reserves) added is to be reflected in mineral rights, then the value attributed to mineral rights must be separated from the value attributed to the "hole" and non-retrievables.

- 10. If a well is abandoned (plugged off) but the reserves are not altered, then the value of the well and its equipment, except for salvageables, must be removed from the roll.
- 11. Since the value of the "hole" and non-retrievables was not separated from reserves for the roll in 1975 (or other base years prior to 1979), there is no prohibition to the assessor's making such an allocation. However, there are two restrictions on this allocation:
 - (a) The sum of the value allocated to the "hole" and nonretrievables in the base year, plus the value attributed to the mineral rights in the base year, must equal the total amount enrolled as "land" in the base year (this assumes surface land is enrolled separately).
 - (b) The value ascribed to the "hole" cannot exceed RCN as of the base year, discounted by the factor obtained by dividing the remaining proved reserves by the ultimate reserves, both as of the base year. (Ultimate reserves is defined as the oil which a property is expected to produce in its lifetime on the date the estimate is made.)
- 12. In years subsequent to the base year, depleted mineral reserves are <u>removed</u> at last year's average value, in accordance with Rule 468, and new reserves are <u>added</u> at a value determined in accordance with Rule 468.
- 13. The mineral property value, determined under Proposition 13, is the taxable value until such time as the full market value falls below that taxable value, at which time the provisions of Proposition 8 take effect.

- B. QUESTIONS AND ANSWERS PERTAINING TO THE APPRAISAL OF OIL AND GAS PROPERTIES
- 1. QUESTION: Where a mineral interest owner (lessor) has a royalty interest and transfers ownership of the interest, is this interest separately assessable?
 - ANSWER: A leasehold interest (lessee) in a mineral right is, for all intents and purposes, according to case law, equivalent to a fee interest and ordinarily is considered to extend into perpetuity. Transfers of such interests must be reported to the assessor. The remaining royalty interest is not separately assessable and therefore would not be separately appraised, nor would it be appraised upon transfer. Accordingly, such transfers need not be reported by the taxpayer. However, the reversionary interest in the mineral rights, if it has value, is separately assessable and such transfers are subject to reporting.
- 2. QUESTION: If an underassessment was made on a mineral property in 1975, may the base year value be modified?
 - ANSWER: If 1975 was a periodic appraisal year (which is true of most mineral properties), and the county made a value judgment based on all the data asked for and submitted in that year, the base year value cannot be modified.
- 3. QUESTION: Is the beginning of an enhanced recovery project (secondary or tertiary recovery) a change in use?
 - ANSWER: No. A changed use does not occur when an enhanced recovery project is begun on a producing oil property.
- 4. QUESTION: When an enhanced recovery project is begun, is the base year the year the project is begun?
 - ANSWER: The base year for an enhanced recovery project is the year the project is begun even though production from it may not peak until some point in the future years. Estimates of added reserves, future production, and prices are made in the base year. Only those reserves directly attributable to the enhanced recovery project shall be considered "new." Remaining old reserves should be valued using their old factored base year value taking into consideration additions and deletions in accordance with Rule 468.
- 5. QUESTION: If some other technique for valuation is used, such as the dollar-per-daily barrel or dollar-per-daily-net-dollar approach, how do you account for depletion?

- ANSWER: These methods should only be used for marginal properties where reserves cannot be reliably established with available data. In such cases, depletion cannot be allowed.
- 6. QUESTION: If an overestimate of reserves was made in the base year, should they be deducted in the current assessment year?

ANSWER: Yes. Non-existent property cannot be taxed.

- 7. QUESTION: Does the invocation of a unitization agreement constitute a change in ownership?
 - ANSWER: No. Unitization agreements provide only for the development and/or operation of a group of individually operated leases by an operating company and they do not involve a change in ownership.

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1. 1979 Oil Property Appraisal with a 1975 Base Year and No New Reserves

Basic Data:	
1975 Total Market Value "Land" Value Mineral Right Value	\$ 7,900,000 6,900,000 5,650,000
Land Improvement Value (Hole and Non- retrievables RCLND)	1,250,000
"Improvement" Value (Surface Equipment and Retrievables RCLND) Cumulative Production to 1975 - Barrels Original Reserves - Barrels Number of Wells	1,000,000 15,000,000 20,000,000 10
Average Well Depth - Feet 1975 Hole Drilling and Associated Costs per Well Production 1975-1979 - Barrels RCN Non-retrievables 1975 RCLND - Hole	5,000 (RCN) 250,000 800,000 2,500,000
$(10 \times \$250,000) \times \frac{5,000,000}{20,000,000} =$	625,000
1975 RCLND - Non-retrievables ($$2,500,000^{1/}$) X $\frac{5,000,000}{20,000,000}$ = Land Improvement Total	<u>625,000</u> \$1,250,000
Current Market Value and Estimated Reserves ^{2/}	
Current Market Value - Total Property Current Reserve Estimate - Barrels	\$18,000,000 4,200,000
Taxable Value of Reserves Remaining	
Base Year's Taxable Value of Reserves Current Year's Value of Removed Reserves \$5,650,000 Prior Year's Reserves 5,000,000 Bbls. = \$1.13 \$1.13 x 000,000 Bbls. = \$904,000	5,650,000 904,000
1979 Value of Reserves Remaining	\$ 4,746,000
1979 Values	
Value of Reserves Remaining x 1.0824 Land Improvement Value x 1.0824 Improvement Value x 1.0824	5,137,070 1,353,000 1,082,400
Total 1979 Taxable Value	\$7,572,470

- 1/ This figure represents the total RCN of non-retrievables excluding the hole value.
- 2/ This step is necessary as a Proposition 8 test.

The 1979 taxable value would be enrolled as 6,490,070 for <code>"Land"</code> and 1,082,400 for "Improvements."

- Note: This example could also be done by working with the prior "base year" values, i.e., 1978, accounting for depletion for that one year and applying the 2-percent CPI factor.
 - 2. 1979 Oil Property Appraisal with New Reserves

Basic Data:

1975 Total Market Value "Land" Value Mineral Right Value Land Improvement Value (Hole and Non-	\$ 7,900,000 6,900,000 5,650,000
"Improvement" Value (Surface Equipment and	1,250,000
Retrievables RCLND) Cumulative Production to 1975 - Barrels Original Reserves - Barrels Number of Wells through 1978	1,000,000 15,000,000 20,000,000 10
Average Well Depth - Feet 1975 Hole Drilling and Associated Costs per Well Production 1975-1979 - Barrels New Wells Drilled in 1978	1,000,000 2
1978 Hole Drilling and Associated Costs per Well Production 1979 - Barrels 1975 RCLND - Hole	(RCN) 350,000 200,000
$(10 \times \$250,000) \times \frac{5,000,000}{20,000,000} =$ 1975 RCLND - Non-retrievables	625,000
$($2,500,000^{1/})$ x $\frac{5,000,000}{20,000,000}$ = 1975 Land Improvement Total	<u>625,000</u> \$1,250,000
Current Market Value and Estimated Reserves	
Current Market Value - Total Property Current Reserve Estimate - Barrels	\$24,000,000 6,000,000
Current Value of Taxable Reserves	
Current Market Value – Total Property Less <u>Current</u> Market Value – Land Improvements and	\$24,000,000
Improvements	5,177,090

1/ This figure represents the total RCN of non-retrievables excluding the hole value.

Land Improvements:	
1979 RCLND - 10 Old Holes	
$(10 \times 350,000) \times \frac{6,000}{22,000}$	$\frac{,000}{,000} = $ \$ 954,450
1979 RCN - 2 New Holes 2 X \$350,000 =	700,000
1979 RCLND Non-retrievables - 10 Old Holes	
$($3,200,000^{1/}) \times \frac{6,000}{22,000}$	<u>,000</u> = 872,640
1979 RCN Non-retrievables - 2	New Holes
2 x \$375,000 ^{1/} =	<u>750,000</u>
Sub-tota	\$3,277,090
1979 Surface Equipment and Re RCLND = Total Current Value of Taxable	1,900,000 \$5,177,090
Current varue of faxable	Reserves <u>\$18,822,910</u>
Volume of New Reserves	
Current Reserve Estimate - Barrels Less Prior Year's Reserves Adjusted 4,200,000 Less 200,000 - Bar	
New Reserves - Barrels	2,000,000
Prior Year's Taxable Value of Reser	rves Remaining
Prior Year's Taxable Value of Reserves 5,137,070 Prior Year's Value of Removed Reserves	
\$5,137,070 - Prior Year's Reser Bbl. = \$1.22/Bbl. x 200,000	
Prior Year's Taxable Value of Reser	rves Remaining \$ 4,893,070
Value of New Reserves	
Quantity of New Reserves - Bar:	2 000 000
Current Market Value of New Reserv Current Volume of Reserves 6,0	es \$18,822,910 -

1/ This figure represents the total RCN of non-retrievables excluding the hole value.

Prior Year's Taxable Value of Reserves Remaining x CPI Factor Not to Exceed 2 Percent Current Taxable Value of Reserves Remaining Current Taxable Value of New Reserves Current Full Cash Value Base for Reserves	\$ 4,893,070 <u>1.02</u> 4,990,931 <u>6,280,000</u> \$11,270,931
Value of "Land Improvements" and "Improvements"	
1975 Taxable Value \$2,250,000 x 1.0824 1978 Added "Land Improvements" and "Improvements"	2,435,400
	<u>1,450,000</u>
	\$ 3,885,400
Total Property Taxable Value For Proposition 8 test, this value is lower than market value, so it must be enrolled.	<u>\$15,156,331</u>

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Current Full Cash Value Base for Reserves

