

Western Gulf of Mexico Sale 171 August 26, 1998

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Sale 171

Western Gulf of Mexico

August 26, 1998

Sale 171, Western Gulf of Mexico August 26, 1998

Sale 171 in the Western Gulf of Mexico (WGOM) was the third sale in that planning area in which the "new lease" provisions of the Deep Water Royalty Relief Act of 1995 (DWRRA) were applied. In this sale 402 tracts received 486 bids (an average of 1.2 bids per tract) and 323 of those tracts were in water depths eligible for royalty relief.

Bidding Results

Sale 171, in terms of the number of tracts receiving bids, was half the size of WGOM Sale 168 that was held in 1997. Although Sale 171 had a large decrease in number of tracts receiving bids and number of bids received compared to Sale 168, the decrease in aggregate high bids was relatively small. In Sale 171, 402 tracts received 486 bids with high bids totaling \$553,435,908.

A contributing factor to the number of tracts in water depths of 200 meters or greater that received bids was the availability of DWRRA royalty suspension volumes (RSV) in deep water. Thus, 323 tracts in water depths of 200 meters or more received high bids of \$522,057,784. Bidding results by water depth zone are summarized in Table 1 and more complete details are presented in Appendix A.

| Water Depth | Tracts with Bids | High Bids (\$ MM) | Number of Bids | Average Bids/Tract |
|--------------|------------------|----------------------|----------------|-----------------------|
| < 200 m. | 79 | \$ 31.38 | 92 | 1.16 |
| 200 - 400 m. | 14 | \$ 4.89 | 17 | 1.21 |
| 400 - 800 m. | 31 | \$ 17.75 | 35 | 1.13 |
| 800+ m. | 278 | \$ 499.42 | 342 | 1.23 |
| Total | 402 | \$ 553.44 | 486 | 1.21 |

Table 1. Bidding Activity by Water Depth Zone

Bidding activity in Sale 171 resulted in a decrease in the number of tracts receiving bids, number of bids, and aggregate high bids compared to the previous WGOM sale (Sale 168, August 27, 1997). In Sale 168, 804 tracts received 1,224 bids, whereas 402 tracts received 486 bids in Sale 171, resulting in decreases of 50 and 60 percent, respectively. In addition, the sum of high bids submitted on tracts receiving bids in Sale 171 decreased by about 10 percent compared to Sale 168 (\$553.44 million v. \$616.21 million). The decrease in tracts, number of bids, and aggregate high bids was due to the lower level of bidding activity in all water depth categories, especially those of less than 800 meters. The amount of competition for tracts was less than other post-DWRRA, WGOM lease sales. More than 86 percent of tracts received single-bids. This category of tract continues to represent the largest percent of total high bids (about 45 percent). Two-bid tracts accounted for the next highest percent of tracts receiving bids (about 10 percent).

A summary of aggregate bidding results by number of bidders for the sale is presented in Table 2 and bidding results by number of bids for the various water depth zones are presented in Appendix B.

| Bids | Tracts | Percent of Tracts | High Bids (\$ MM) | Percent of High Bids |
|-------|--------|----------------------|----------------------|-------------------------|
| 1 | 347 | 86.32% | \$247.82 | 44.78% |
| 2 | 40 | 9.95% | \$137.74 | 24.89% |
| 3 | 5 | 1.24% | \$11.78 | 2.13% |
| 4 | 6 | 1.49% | \$53.14 | 9.60% |
| 5 | 4 | 1.00% | \$102.96 | 18.60% |
| Total | 402 | 100.00 % | \$553.44 | 100.00 % |

Table 2. Bidding Results by Number of Bids Submitted

As opposed to many sales in the WGOM, in Sale 171, the majority of tracts (56 percent) received high bids of \$50 or more per acre. However, a sizeable minority of tracts (44 percent) received high bids of less than \$50 per acre, which represented about 6 percent of the total high bids received. In Sale 171, tracts with high bids greater than \$150 per acre accounted for more than 81 percent of aggregate high bids, an increase of more than 22 percent compared to Sale 168. A summary of bidding results by high bid per acre for the sale is presented in Table 3 and bidding results by high bid per acre for the various water depth zones are presented in Appendix C. In addition, a graphical presentation of bidding results is presented in Appendix D.

| High Bid per Acre | Tracts | Percent of Tracts | High Bids (\$ MM) | Percent of High Bids |
|----------------------|--------|----------------------|----------------------|-------------------------|
| < \$50 | 177 | 44.03% | \$33.17 | 5.99% |
| \$50 - \$74.99 | 58 | 14.43% | \$19.97 | 3.61% |
| \$75 - 99.99 | 34 | 8.46% | \$17.07 | 3.09% |
| \$100 - 149.99 | 47 | 11.69% | \$32.53 | 5.88% |
| \$150 + | 86 | 21.39% | \$450.70 | 81.44% |
| Total | 402 | 100.00 % | \$553.44 | 100.00 % |

Table 3. Bidding Results by High Bid per Acre

Bidding on Royalty Suspension Volume Tracts

A total of 278 tracts in 800 meters or more that are eligible for DWRRA royalty suspension volumes of 87.5 million barrels of oil equivalent (MMBOE) received bids. These tracts accounted for 69 percent of the tracts in the sale receiving bids and 90 percent of the sale's high bids. To put the magnitude of this bidding activity in perspective, consider that although the number of tracts receiving bids in water depths of 800 meters or more in Sale 171 was 54 percent lower than in Sale 168, their associated high bids exceeded those received in Sale 168 by 7 percent. In the water depth categories with smaller royalty suspension volumes, bidding activity in Sale 171 lagged the level observed in Sale 168 for both tracts receiving bids and high bids. This decline in the shallower water depth categories likely was due, at least in part, to the relatively low number of tracts offered compared to those available in water depths of 800 meters or more as well as a lack of any one company bidding aggressively to acquire leases as was the case in the deepest water depth category.

In comparing the average high bid per acre by royalty suspension volume water depth category between Sales 171 and 168, only in the 800 meters or more category did the Sale 171 average exceed Sale 168's (\$313.01/acre v. \$135.39), but it was about 131 percent higher. For the other royalty suspension water depth categories, Sale 168 averages exceeded Sale 171's. In 200-400 meters, Sale 168's average was \$117.93/acre and Sale 171's was \$61.06/acre. In 400-800 meters or more, Sale 168's average was \$243.22/acre and Sale 171's was \$99.42/acre. These results suggest that industry perceives greater resource potential and value to exist in the deepest water depth category. Therefore, in the future sale designs, the portions of the WGOM sale area in water depths of 800 meters or more appear to be better candidates for alternative lease terms and conditions than the shallower water areas.

Phase 1 Results

Following the revised post-sale evaluation procedures, which include a modified 3-bid rule, in Phase 1 of Sale 171, high bids were accepted on 34 tracts in water depths less than 200 meters and 116 tracts in water depths eligible for royalty relief. These Phase 1 accepted high bids accounted for about 43 percent of the tracts representing 27 percent of the high bids in water depths less than 200 meters and in water depths eligible for DWRRA new lease, royalty suspension volumes, about 36 percent of the tracts and 7.3 percent of the high bids. In terms of Phase 1 bid acceptances, Union Oil Company of California was the most successful company as 22 of its 84 high bids were accepted.

Phase 1 accepted high bids were in two categories of tracts: 147 were wildcat and confirmed tracts determined to be non-viable and three were wildcat and confirmed tracts with three or more qualified bids on which the third highest bid was at least 50 percent of the high bid (revised 3-bid rule). The Sale 171 Phase 1 results by number of bidders and high bid per acre are presented in Tables 4 and 5, respectively. All of the accepted high bids on tracts with three or more bids were accepted as a result of the revised 3-bid rule.

| Bids | Tracts | Percent of Tracts | High Bids (\$ MM) | Percent of High Bids |
|-------|--------|----------------------|----------------------|-------------------------|
| 1 | 141 | 94.00% | \$43.74 | 69.68% |
| 2 | 6 | 4.00% | \$2.92 | 4.65% |
| 3+ | 3 | 2.00% | \$16.11 | 25.67% |
| Total | 150 | 100.00 % | \$62.77 | 100.00 % |

Table 4. Phase 1 Results by Number of Bids

Table 5. Phase 1 Results by High Bid per Acre

| High Bid per Acre | Tracts | Percent of Tracts | High Bids (\$ MM) | Percent of High Bids |
|----------------------|--------|----------------------|----------------------|-------------------------|
| < \$50 | 94 | 62.67% | \$17.54 | 27.94% |
| \$50 - 74.99 | 24 | 16.00% | \$8.53 | 13.59% |
| \$75 - 99.99 | 13 | 8.67% | \$6.64 | 10.58% |
| \$100 - 149.99 | 14 | 9.33% | \$9.99 | 15.92% |
| \$150 + | 5 | 3.33% | \$20.07 | 31.97% |
| Total | 150 | 100.00% | \$62.77 | 100.00 % |

Revised Arithmetic Average Measure of Tract

The RAM is a secondary bid acceptance criterion that is used in Phase 2 of the Sale 171 bid evaluation process on multi-bid tracts that have high bids that do not exceed the Government's value of the tract (MROV).

For evaluating the high bids on multi-bid tracts that do not exceed the MROV, the RAM is applied to (a) drainage and development tracts having three or more qualified bids with the third highest bid being at least 25 percent of the tract's high bid and (b) confirmed and wildcat tracts having two or more qualified bids with the second highest bid being at least 25 percent of the tract's high bid are considered in calculating the RAM. If the high bid exceeds the RAM, it is accepted, otherwise, the high bid is rejected.

Use of the RAM allows the MMS to continue to consider market factors in the evaluation of high bids without the distorting effects of the GAEOT, which often required MROV's well in excess of \$100 million for a high bid to be rejected. Using the RAM, the highest MROV required to

reject a high bid on a multi-bid tract in Sale 171 is about \$68 million. This value for a lease is not unreasonable relative to high bids observed in this sale.

In Sale 171, 12 tracts classified as wildcat and confirmed receiving three or more bids were passed to Phase 2 for evaluation. These tracts, potentially, could have their bid acceptance or rejection decision based on the RAM. After adjusting the number of bids to include only those that are at least 25 percent of a tract's high bid, 10 tracts could be eligible for a decision based on the RAM. Of those, three would require MROV's between \$1-5 million for rejection, three would require MROV's between \$5-10 million for rejection, and the remaining four would require MROV's in excess of \$10 million for rejection. Detailed tables of tracts receiving three or more bids by water depth zone are presented in Appendix E.

Bidding Activity

The number of companies participating in Sale 171 decreased to 63 from 82 that were active in Sale 168, the previous WGOM sale. Two companies submitted bids (either solo or jointly) on 50 or more tracts, with Union Oil Company of California being the most active company in terms of bids submitted with 84. The most apparent high bids, 77, and highest total amount of high bids, \$184.8 million, were submitted by Union Oil Company of California as well.

With about 14 percent of the tracts receiving bids in the sale being multi-bid tracts, four firms that submitted ten or more bids were the high bidders on every bid they submitted. The most efficient bidder was Vastar Resources, which submitted 32 bids and was the high bidder on each.

The ten most active bidders in terms of total amount of high bids are listed in Table 6. Also listed in the table are the total number of bids and number of high bids submitted by the companies with their rank indicated in parentheses. Appendix F contains a summary of bids for all companies that participated in the sale.

In ranking companies by the high bids submitted, although some companies that were most active in WGOM Sale 168 (August 27, 1997) continued to be among the most active in Sale 171, a number of changes were apparent. For example, two companies (Exxon and BP) that were in the Sale 168 top ten were not ranked among the top 20 participants in Sale 171 and one Sale 168 top ten firm (Statoil Exploration) did not participate in Sale 171.

Appendix G presents a listing of bidding by the most active companies in Sales 171 and 168 (as well as 161).

| Company | Total High Bids | Number of Bids | High Bids |
|----------------------|-----------------|----------------|-----------|
| Union Oil - CA | \$184,825,150 | 84 (1) | 77 (1) |
| Texaco | \$48,750,959 | 72 (2) | 61 (2) |
| Vastar Resources | \$39,975,118 | 32 (5) | 32 (3) |
| Seagull Energy | \$21,149,716 | 18 (8) | 11 (10) |
| Chevron | \$19,854,509 | 4 (38) | 3 (36) |
| Burlington Resources | \$19,523,297 | 35 (4) | 31 (4) |
| Amerada Hess | \$16,418,882 | 19 (6) | 18 (6) |
| Amoco | \$16,365,771 | 6 (29) | 5 (26) |
| Shell Deepwater | \$13,025,312 | 18 (8) | 14 (8) |
| British-Borneo | \$12,492,664 | 15 (12) | 8 (18) |

Table 6. Most Active Bidders by Total Amount of High Bids (For number of bids and high bids, rank is in parentheses.)

Sale 171 v. Sale 168

The results of Sale 171 did not meet the results of Sale 168 in a number of categories with the exception of average high bid per acre. The average high bid per acre was \$241.44 in Sale 171 as compared to \$135.57 in Sale 168. In Sale 168, a WGOM record number of tracts (804) received a record number of bids (1,224), thus exceeding the 402 tracts that received 486 bids in Sale 171. In addition, the number of bids per tract declined from 1.5 in Sale 168 to 1.2 in Sale 171.

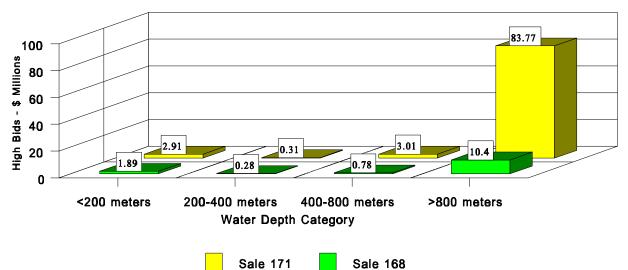
The amount of bidding activity in deep water in Sale 171 decreased greatly compared to Sale 168. Specifically, the number of tracts potentially eligible for DWRRA royalty suspension volumes (water depth of 200 meters or more) receiving bids decreased by 52 percent, however, the high bids on these tracts only decreased 5 percent, and, the average high bid per acre in this category increased 96 percent. Appendix H presents a graphical comparison of sale results.

In Sale 171, 17 tracts that were rejected in Sale 168 received bids and nine Sale 168 rejected tract (with high bids of \$2,988,909) did not. The high bids on the 17 tracts increased from \$13,352,696 in Sale 168 to \$89,996,754 in Sale 171, an increase in high bids of 574 percent. The number of bids on these 17 tracts increased from 28 to 31, an increase of 11 percent. The potential to realize gains in high bids on tracts that were previously rejected highlights the importance of MMS's bid adequacy procedures.

Sale 171 Rejections

High bids on 25 tracts were rejected in Sale 171. Twenty of the rejected blocks received onebid, four were two-bid tracts, and one was a three-bid tract. By water depth category, the rejections were as follows: six in less than 200 meters; one in 200 to 400 meters; two in 400 to 800 meters; and 16 in 800 meters or more. Details about the high bids on rejected tracts are presented in Appendix I.

Sale 171 was the third sale to use the revised bid adequacy procedures in which the RAM replaced the Geometric Average Evaluation of Tract (GAEOT) as the secondary bid acceptance criterion. If the GAEOT was still in use for this sale, the high bid on one additional tract (G20783) would have been accepted. The modified procedures were published in the Federal Register on July 14, 1997 (62 FR 37589-37591) and are presented in Appendix J.



Bid Comparison - Sale 168 Rejection v. Sale 171 High Bid

Appendix A

Sale 171

Bidding Summary

Western Gulf of Mexico OCS Oil and Gas Lease Sale 171

Sale Day Statistics by Royalty Rate

| | 16 2/3% Royalty | 12 1/2% Royalty | Sale Total |
|-----------------------|-----------------|------------------------------|------------------------------|
| Tracts Receiving Bids | 93 | 309 | 402 |
| Acres Receiving Bids | 518,145.41 | 1,774,123.92 | 2,292,269.33 |
| Sum of High Bids | \$36,263,986 | \$517,171,922 | \$553,435,908 |
| Sum of All Bids | \$41,407,329 | \$700,447,718 | \$741,855,047 |
| Total Number of Bids | 109 | 377 | 486 |
| Average Bids | 1.17 | 1.22 | 1.21 |
| Companies Bidding | 38 | 43 | 63 |
| Highest Bid per Tract | \$2,202,300 | \$37,406,500 | \$37,406,500 |
| Tract Number | 20623 | 20882 | 20882 |
| Number of Bids | 2 | 5 | 5 |
| Highest Bid per Acre | \$382.53 | \$6,629.26 | \$6,629.26 |
| Tract Number | 20623 | 20882 | 20882 |
| Number of Bids | 2 | 5 | 5 |
| Most Bids | 4 | 5 | 5 |
| Tract Number | 20656 | 20774, 20794 20876, 20882 | 20774, 20794 20876, 20882 |
| Number of Tracts | 1 | 4 | 4 |

Western Gulf of Mexico OCS Oil and Gas Lease Sale 171

Sale Day Statistics for 16 2/3% Royalty Rate Tracts

| | <u>16 2/3% w/ROY¹</u> | <u>16 2/3% w/RS²</u> | <u>16 2/3% Total</u> |
|-----------------------|----------------------------------|---------------------------------|----------------------|
| Tracts Receiving Bids | 79 | 14 | 93 |
| Acres Receiving Bids | 438,125.91 | 80,019.50 | 518,145.41 |
| Sum of High Bids | \$31,378,124 | \$4,885,862 | \$36,263,986 |
| Sum of All Bids | \$35,866,148 | \$5,541,181 | \$41,407,329 |
| Total Number of Bids | 92 | 17 | 109 |
| Average Bids | 1.16 | 1.21 | 1.17 |
| Companies Bidding | 33 | 10 | 38 |
| Highest Bid per Tract | \$2,202,300 | \$1,275,840 | \$2,202,300 |
| Tract Number | 20623 | 20776 | 20623 |
| Number of Bids | 2 | 2 | 2 |
| Highest Bid per Acre | \$382.53 | \$221.50 | \$382.53 |
| Tract Number | 20623 | 20776 | 20623 |
| Number of Bids | 2 | 2 | 2 |
| Most Bids | 4 | 2 | 4 |
| Tract Number | 20656 | 20681, 20683, 20776 | 20656 |
| Number of Tracts | 1 | 3 | 1 |

 $^{^{1}}$ 16 2/3% w/ROY is that category of tracts in less than 200 meters of water with a royalty rate of 1/6 that is not eligible for DWRRA royalty suspension volumes.

 $^{^2}$ 16 2/3% w/RS is that category of tracts in 200 to 400 meters of water with a royalty rate of 1/6 that is potentially eligible for a DWRRA royalty suspension volume of 17.5 MMBOE.

Western Gulf of Mexico OCS Oil and Gas Lease Sale 171

Sale Day Statistics for 12 1/2% Royalty Rate Tracts

| | <u>12 1/2% w/RS1³</u> | <u>12 1/2% w/RS2⁴</u> | <u>12 1/2% Total</u> |
|-----------------------|----------------------------------|----------------------------------|------------------------------|
| Tracts Receiving Bids | 31 | 278 | 309 |
| Acres Receiving Bids | 178,560.00 | 1,595,563.92 | 1,774,123.92 |
| Sum of High Bids | \$17,751,715 | \$499,420,207 | \$517,171,922 |
| Sum of All Bids | \$20,848,055 | \$579,599,663 | \$700,447,718 |
| Total Number of Bids | 35 | 342 | 377 |
| Average Bids | 1.13 | 1.23 | 1.22 |
| Companies Bidding | 21 | 40 | 43 |
| Highest Bid per Tract | \$3,008,888 | \$37,406,500 | \$37,406,500 |
| Tract Number | 20704 | 20882 | 20882 |
| Number of Bids | 2 | 5 | 5 |
| Highest Bid per Acre | \$522.38 | \$6,629.26 | \$6,629.26 |
| Tract Number | 20704 | 20882 | 20882 |
| Number of Bids | 2 | 5 | 5 |
| Most Bids | 3 | 5 | 5 |
| Tract Number | 20783 | 20774, 20794 20876, 20882 | 20774, 20794 20876, 20882 |
| Number of Tracts | 1 | 4 | 4 |

 $^{^3}$ 12 1/2% w/RS1" is that category of tracts in 400 to 800 meters of water with a royalty rate of 1/8 that is potentially eligible for a DWRRA royalty suspension volume of 52.5 MMBOE.

 $^{^4}$ 12 1/2% w/RS2" is that category of tracts in 800 or more meters of water with a royalty rate of 1/8 that is potentially eligible for a DWRRA royalty suspension volume of 87.5 MMBOE.

Appendix B

Sale 171

Bidding by Number of Bids

Sale 171

All Tracts

| No. Of Bids | Tracts | Percent of Tracts | High Bids (\$MM) | Percent of <u>High Bids</u> |
|-------------|----------|----------------------|---------------------|--------------------------------|
| 1 | 347 | 86.32% | \$247.82 | 44.78% |
| 2 | 40 | 9.95% | \$137.74 | 22.89% |
| 3 | 5 | 1.24% | \$11.78 | 2.13% |
| 4 | 6 | 1.49% | \$53.14 | 9.60% |
| <u>5</u> | <u>4</u> | <u>1.00%</u> | <u>\$102.96</u> | <u>18.60%</u> |
| Total | 402 | 100.00% | \$553.44 | 100.00% |

Tracts with 1/6 Royalty Rate

| No. Of Bids | <u>Tracts</u> | Percent of Tracts | High Bids (<u>\$MM)</u> | Percent of <u>High Bids</u> |
|-------------|---------------|----------------------|-----------------------------|--------------------------------|
| 1 | 80 | 86.02% | \$25.62 | 70.64% |
| 2 | 11 | 11.83% | \$9.23 | 25.44% |
| 3 | 1 | 1.08% | \$0.33 | 0.90% |
| 4 | 1 | 1.08% | \$1.10 | 3.02% |
| <u>5</u> | <u>0</u> | <u>0.00%</u> | <u>\$0.00</u> | 0.00% |
| Total | 93 | 100.00% | \$36.26 | 100.00% |

Tracts with 1/8 Royalty Rate

| No. Of Bids | <u>Tracts</u> | Percent of Tracts | High Bids (<u>\$MM)</u> | Percent of <u>High Bids</u> |
|-------------|---------------|----------------------|-----------------------------|--------------------------------|
| 1 | 267 | 86.41% | \$222.20 | 42.96% |
| 2 | 29 | 9.39% | \$128.51 | 24.85% |
| 3 | 4 | 1.29% | \$11.45 | 2.21% |
| 4 | 5 | 1.62% | \$52.05 | 10.06% |
| <u>5</u> | <u>4</u> | <u>1.29%</u> | <u>\$102.96</u> | <u>19.91%</u> |
| Total | 309 | 100.00% | \$517.17 | 100.00% |

Sale 171 by Water Depth Category

| No. Of Bids | <u>Tracts</u> | Percent of Tracts | High Bids <u>(\$MM)</u> | Percent of <u>High Bids</u> |
|-------------|---------------|----------------------|----------------------------|--------------------------------|
| 1 | 69 | 87.34% | \$22.61 | 72.05% |
| 2 | 8 | 10.13% | \$7.35 | 23.42% |
| 3 | 1 | 1.27% | \$0.33 | 1.04% |
| 4 | 1 | 1.27% | \$1.10 | 3.49% |
| <u>5</u> | <u>0</u> | 0.00% | <u>\$0.00</u> | <u>0.00%</u> |
| Total | 79 | 100.00% | \$31.38 | 100.00% |

1/6 Royalty (<200 meters; no RSV)

1/6 Royalty (200-400 meters; 17.5 mmboe RSV)

| No. Of Bids | Tracts | Percent of Tracts | High Bids <u>(\$MM)</u> | Percent of <u>High Bids</u> |
|-------------|----------|----------------------|----------------------------|--------------------------------|
| 1 | 11 | 78.57% | \$3.01 | 61.58% |
| 2 | 3 | 21.43% | \$1.88 | 38.42% |
| 3 | 0 | 0.00% | \$0.00 | 0.00% |
| 4 | 0 | 0.00% | \$0.00 | 0.00% |
| <u>5</u> | <u>0</u> | <u>0.00%</u> | <u>\$0.00</u> | <u>0.00%</u> |
| Total | 14 | 100.00% | \$4.89 | 100.00% |

1/8 Royalty (400-800 meters; 52.5 mmboe RSV)

| No. Of Bids | Tracts | Percent of Tracts | High Bids <u>(\$MM)</u> | Percent of <u>High Bids</u> |
|-------------|----------|----------------------|----------------------------|--------------------------------|
| 1 | 28 | 90.32% | \$12.18 | 68.64% |
| 2 | 2 | 6.45% | \$3.43 | 19.35% |
| 3 | 1 | 3.23% | \$2.13 | 12.02% |
| 4 | 0 | 0.00% | \$0.00 | 0.00% |
| <u>5</u> | <u>0</u> | <u>0.00%</u> | <u>\$0.00</u> | <u>0.00%</u> |
| Total | 31 | 100.00% | \$17.75 | 100.00% |

1/8 Royalty (800+ meters; 87.5 mmboe RSV)

| No. Of Bids | Tracts | Percent of Tracts | High Bids <u>(\$MM)</u> | Percent of <u>High Bids</u> |
|-------------|----------|----------------------|----------------------------|--------------------------------|
| 1 | 239 | 85.97% | \$210.01 | 42.05% |
| 2 | 27 | 9.71% | \$125.08 | 25.05% |
| 3 | 3 | 1.08% | \$9.32 | 1.87% |
| 4 | 5 | 1.80% | \$52.05 | 10.42% |
| <u>5</u> | <u>4</u> | 1.44% | <u>\$102.96</u> | <u>20.62%</u> |
| Total | 278 | 100.00% | \$499.42 | 100.00% |

Appendix C

Sale 171

Bidding by High Bid per Acre

Sale 171

All Tracts

| High Bid/acre | Tracts | Percent of Tracts | High Bids <u>(\$MM)</u> | Percent of <u>High Bids</u> |
|----------------|-----------|----------------------|----------------------------|--------------------------------|
| < \$50 | 177 | 44.03% | \$33.17 | 5.99% |
| \$50 - 74.99 | 58 | 14.43% | \$19.97 | 3.61% |
| \$75 - 99.99 | 34 | 8.46% | \$17.07 | 3.09% |
| \$100 - 149.99 | 47 | 11.69% | \$32.53 | 5.88% |
| <u>\$150 +</u> | <u>86</u> | 21.39% | <u>\$450.70</u> | 81.44% |
| Total | 402 | 100.00% | \$553.44 | 100.00% |

Tracts with 1/6 Royalty Rate

| High Bid/acre | <u>Tracts</u> | Percent of Tracts | High Bids (\$MM) | Percent of <u>High Bids</u> |
|----------------|---------------|----------------------|---------------------|--------------------------------|
| < \$50 | 49 | 52.69% | \$9.55 | 26.34% |
| \$50 - 74.99 | 20 | 21.51% | \$6.08 | 16.78% |
| \$75 - 99.99 | 6 | 6.45% | \$2.91 | 8.02% |
| \$100 - 149.99 | 8 | 8.60% | \$5.37 | 14.82% |
| <u>\$150 +</u> | <u>10</u> | <u>10.75%</u> | <u>\$12.35</u> | <u>34.04%</u> |
| Total | 93 | 100.00% | \$36.26 | 100.00% |

Tracts with 1/8 Royalty Rate

| High Bid/acre | Tracts | Percent of Tracts | High Bids (\$MM) | Percent of <u>High Bids</u> |
|----------------|-----------|----------------------|---------------------|--------------------------------|
| < \$50 | 128 | 41.42% | \$23.62 | 4.57% |
| \$50 - 74.99 | 38 | 12.30% | \$13.88 | 2.68% |
| \$75 - 99.99 | 28 | 9.06% | \$14.16 | 2.74% |
| \$100 - 149.99 | 39 | 12.62% | \$27.16 | 5.25% |
| <u>\$150 +</u> | <u>76</u> | 24.60% | <u>\$438.35</u> | <u>84.76%</u> |
| Total | 309 | 100.00% | \$517.17 | 100.00% |

Sale 171 by Water Depth Category

1/6 Royalty (<200 meters; no RSV)

| High Bid/acre | Tracts | Percent of Tracts | High Bids <u>(\$MM)</u> | Percent of <u>High Bids</u> |
|----------------|----------|----------------------|----------------------------|--------------------------------|
| < \$50 | 42 | 53.16% | \$8.17 | 26.02% |
| \$50 - 74.99 | 16 | 20.25% | \$4.87 | 15.51% |
| \$75 - 99.99 | 4 | 5.06% | \$1.90 | 6.06% |
| \$100 - 149.99 | 8 | 10.13% | \$5.37 | 17.12% |
| <u>\$150 +</u> | <u>9</u> | <u>11.39%</u> | <u>\$11.07</u> | 35.28% |
| Total | 79 | 100.00% | \$31.38 | 100.00% |

1/6 Royalty (200 - 400 meters; 17.5 mmboe RSV)

| High Bid/acre | <u>Tracts</u> | Percent of Tracts | High Bids (\$MM) | Percent of <u>High Bids</u> |
|----------------|---------------|----------------------|---------------------|--------------------------------|
| < \$50 | 7 | 50.00% | \$1.39 | 28.37% |
| \$50 - 74.99 | 4 | 28.57% | \$1.22 | 24.89% |
| \$75 - 99.99 | 2 | 14.29% | \$1.01 | 20.63% |
| \$100 - 149.99 | 0 | 0.00% | \$0.00 | 0.00% |
| <u>\$150 +</u> | <u>1</u> | 7.14% | <u>\$1.28</u> | <u>26.11%</u> |
| Total | 14 | 100.00% | \$4.89 | 100.00% |

1/8 Royalty (400 - 800 meters; 52.5 mmboe RSV)

| High Bid/acre | Tracts | Percent of Tracts | High Bids <u>(\$MM)</u> | Percent of <u>High Bids</u> |
|----------------|----------|----------------------|----------------------------|--------------------------------|
| < \$50 | 20 | 64.52% | \$3.64 | 20.50% |
| \$50 - 74.99 | 2 | 6.45% | \$0.83 | 4.69% |
| \$75 - 99.99 | 0 | 0.00% | \$0.00 | 0.00% |
| \$100 - 149.99 | 3 | 9.68% | \$2.05 | 11.58% |
| <u>\$150 +</u> | <u>6</u> | <u>19.35%</u> | <u>\$11.23</u> | <u>63.24%</u> |
| Total | 31 | 100.00% | \$17.75 | 100.00% |

1/8 Royalty (800 + meters; 87.5 mmboe RSV)

| High Bid/acre | Tracts | Percent of Tracts | High Bids (<u>\$MM)</u> | Percent of <u>High Bids</u> |
|----------------|-----------|----------------------|-----------------------------|--------------------------------|
| < \$50 | 108 | 38.85% | \$19.98 | 4.00% |
| \$50 - 74.99 | 36 | 12.95% | \$13.05 | 2.61% |
| \$75 - 99.99 | 28 | 10.07% | \$14.16 | 2.84% |
| \$100 - 149.99 | 36 | 12.95% | \$25.10 | 5.03% |
| <u>\$150 +</u> | <u>70</u> | 25.18% | <u>\$427.13</u> | <u>85.52%</u> |
| Total | 278 | 100.00% | \$499.42 | 100.00% |

Appendix D

Sale 171

Bidding Results – Graphs

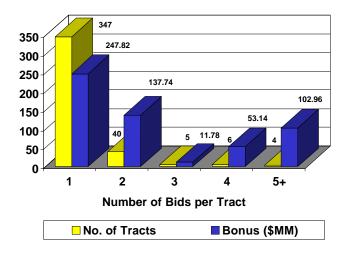
Distribution of High Bids Sale 171 - WGOM

Prepared by: Economics Division, MMS

Sale 171 (WGOM) - Bidding Results

- 402 tracts received 486 bids (1.2 bids/tract)
- High bids were \$553.4 MM
- Average high bid per acre was \$241.44
- 63 companies submitted bids
- 93 tracts in < 400 meters received bids
 23.13 % of tracts and 6.55 % of high bids
- 309 tracts in 400+ meters received bids
 76.87 % of tracts and 93.45 % of high bids

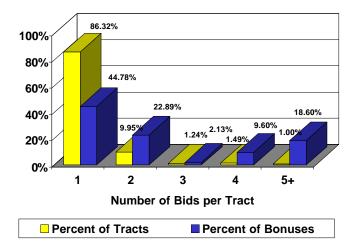
Sale 171 - Aggregate



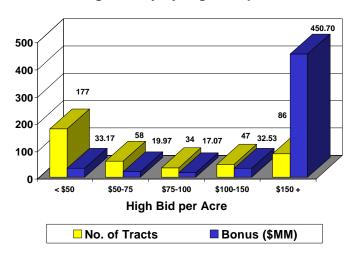
Bidding Activity by Bids per Tract

Sale 171 - Aggregate

Bidding Activity by Bids per Tract



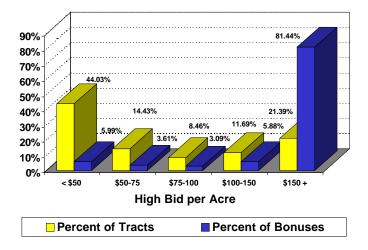
Sale 171 - Aggregate



Bidding Activity by High Bid per Acre

Sale 171 - Aggregate

Bidding Activity by High Bid per Acre



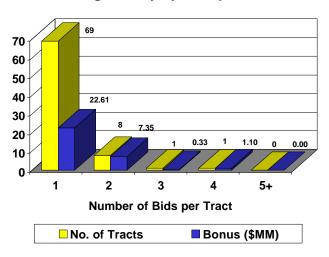
Sale 171 Bidding by Water Depth Category

Prepared by: Economics Division, MMS

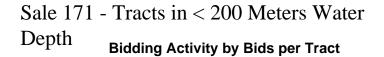
Sale 171 (WGOM) Bidding by Water Depth Category

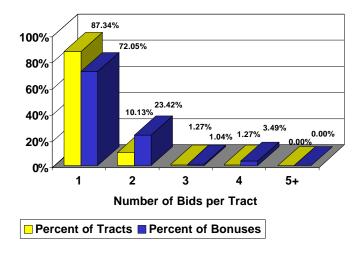
- 79 tracts in < 200 meters received 92 bids and high bids of \$31.38 MM (\$71.62/acre)
- 14 tracts in 200-400 meters had 17 bids and high bids of \$4.89 MM (\$61.06/acre)
- 31 tracts in 400-800 meters had 35 bids and high bids of \$17.75 MM (\$99.42/acre)
- 278 tracts in > 800 meters had 342 bids and high bids of \$499.42 MM (\$303.01/acre)

Sale 171 - Tracts in < 200 Meters Water Depth

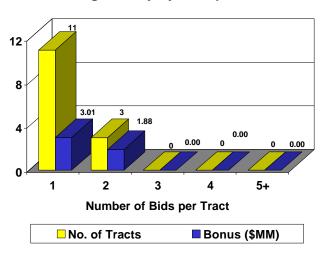


Bidding Activity by Bids per Tract



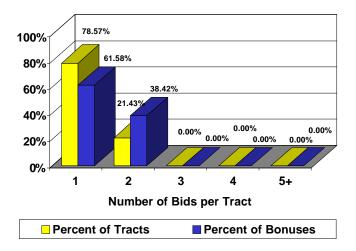


Sale 171 - Tracts in 200-400 Meters Water Depth

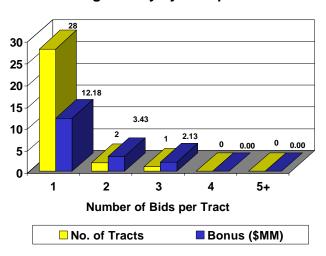


Bidding Activity by Bids per Tract

Sale 171 - Tracts in 200-400 Meters Water Depth Bidding Activity by Bids per Tract

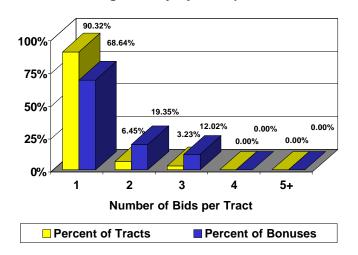


Sale 171 - Tracts in 400-800 Meters Water Depth

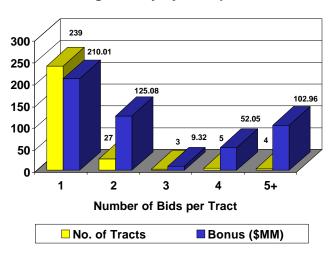


Bidding Activity by Bids per Tract

Sale 171 - Tracts in 400-800 Meters Water Depth Bidding Activity by Bids per Tract

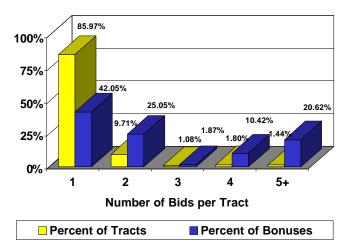


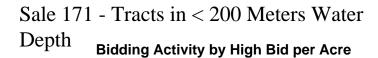
Sale 171 - Tracts in 800+ Meters Water Depth

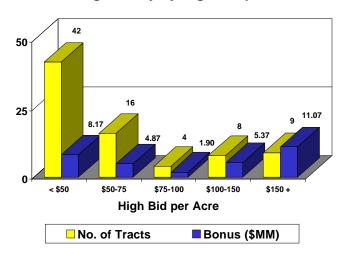


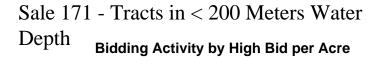
Bidding Activity by Bids per Tract

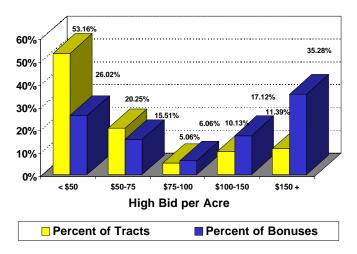
Sale 171 - Tracts in 800+ Meters Water Depth Bidding Activity by Bids per Tract



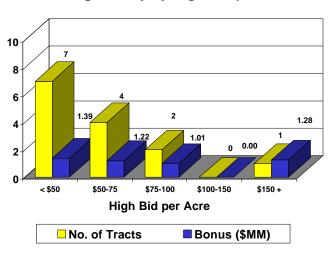






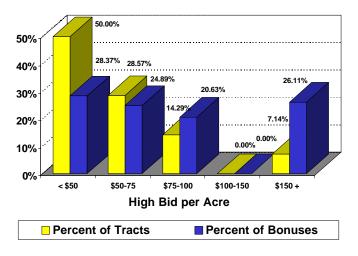


Sale 171 - Tracts in 200-400 Meters Water Depth

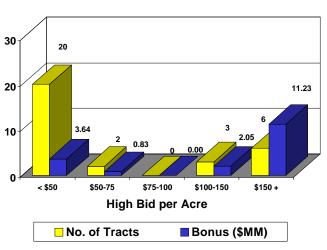


Bidding Activity by High Bid per Acre

Sale 171 - Tracts in 200-400 Meters Water Depth



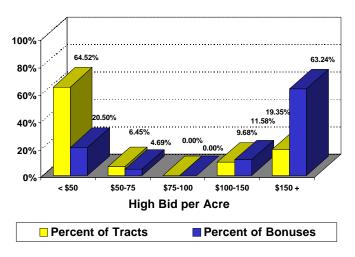
Bidding Activity by High Bid per Acre



Sale 171 - Tracts in 400-800 Meters Water Depth

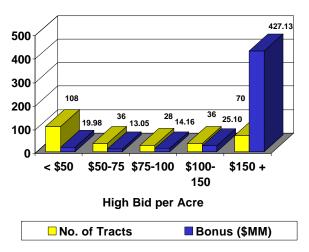
Bidding Activity by High Bid per Acre

Sale 171 - Tracts in 400-800 Meters Water Depth



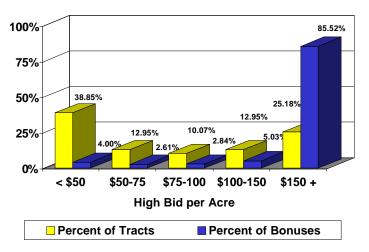
Bidding Activity by High Bid per Acre

Sale 171 - Tracts in 800+ Meters Water Depth



Bidding Activity by High Bid per Acre

Sale 171 - Tracts in 800+ Meters Water Depth Bidding Activity by High Bid per Acre



Appendix E

Sale 171

RAM

Sale 171 - Tracts with Three or More Bids

In Sale 171, three or more bids were received on 15 tracts, all confirmed or wildcat. The distribution of those bids by water depth category and third bid as a percent of high bid is presented in Table E1. Of the 15 blocks with three or more bids, one had a third bid within 25 percent of the high bid and 10 had third bids which were not at least 25 percent of the high bid.

| Category | < 25 % | 25 - 50 % | 50 - 75 % | > 75 % | Total |
|--------------|--------|-----------|-----------|--------|-------|
| < 200 m. | 0 | 1 | 0 | 1 | 2 |
| 200 - 400 m. | 0 | 0 | 0 | 0 | 0 |
| 400 - 800 m. | 0 | 0 | 0 | 1 | 1 |
| > 800 m. | 1 | 1 | 2 | 8 | 12 |
| Total | 1 | 2 | 2 | 10 | 15 |

Table E1. Percent Difference between a Tract's High Bid and Third Bidby Water Depth Category

Sale 171 was the third sale in which the modified number of bids rule was used for Phase 1 acceptance of high bids on selected tracts receiving three or more bids. Under the rule, high bids on wildcat and confirmed tracts receiving three or more bids are accepted in Phase 1, if the third highest bid on the tract is at least 50 percent of the high bid. In Sale 171, the three tracts with third highest bids within 50 percent of the high bid were accepted in Phase 1.

Sale 171 was also the third sale in which a new Phase 2 averaging rule, the "Revised Arithmetic Average Measure" (RAM) of tract value was used. The RAM is a secondary bid acceptance rule that is used on multi-bid tracts if the Government's value of the tract (MROV) exceeds the high bid. The RAM is arithmetic average of a tract's high bid, MROV, and all other bids that are at least 25 percent of the high bid. If a bid on a tract is not at least 25 percent of the high bid, that bid is considered an outlier and not included in the RAM calculation. Thus, the adjusted number of bids on a tract for the RAM calculation can be less than the total number of bids that a tract receives.

For those tracts on which the RAM is used as the bid acceptance rule, if the RAM is less than the tract's high bid, the high bid is accepted and if the RAM exceeds the high bid, the high bid is rejected. The revised bid evaluation process was described in a notice of procedural changes relative to "Modifications in the Bid Adequacy Procedures" that was published in the Federal Register on July 14, 1997 (Volume 62, Number 134).

For the 12 tracts passed to Phase 2 for further evaluation that potentially could use the RAM as the bid acceptance decision rule, the MROV's that would be needed to reject a tract's high bid using the RAM were calculated. Using the RAM, three tracts need a MROV less than \$5 million

and four tracts need a MROV between \$5 million and \$10 million. With the RAM, the largest of the five MROV's in excess of \$10 million needed to reject a high bid was almost \$68 million. This is reasonable as the tract's high bid was more than \$30 million. These results are summarized in Table E2.

| Category | < \$1 MM | \$1-5 MM | \$5-10 MM | >\$ 10 MM | Total |
|--------------|----------|----------|-----------|-----------|-------|
| < 200 m. | 0 | 1 | 0 | 0 | 1 |
| 200 - 400 m. | 0 | 0 | 0 | 0 | 0 |
| 400 - 800 m. | 0 | 1 | 0 | 0 | 1 |
| > 800 m. | 0 | 1 | 4 | 5 | 10 |
| Total | 0 | 3 | 4 | 5 | 12 |

Table E2. MROV Needed to Reject a High Bid Using the RAM
by Water Depth Category

Sale 171 - Tracts with Three or More Bids Passed to Phase 2

Table E3. Tract in < 200 Meters; No Royalty Suspension Volume

| Tract | <u>High Bid</u> | No. Of <u>Bids</u> | 3 rd Bid as % <u>of High Bid</u> | Adjusted <u>No. Of Bids</u> | MROV to <u>Reject w/ RAM</u> |
|-------|-----------------|-----------------------|--|--------------------------------|---------------------------------|
| 20656 | \$1,095,777 | 4 | 20.28% | 2 | \$1,369,220 |

Table E4. Tract in 400-800 Meters; 52.5 MMBOE Royalty Suspension Volume

| <u>Tract</u> | <u>High Bid</u> | No. Of <u>Bids</u> | 3 rd Bid as % <u>of High Bid</u> | Adjusted <u>No. Of Bids</u> | MROV to <u>Reject w/ RAM</u> |
|--------------|-----------------|-----------------------|--|--------------------------------|---------------------------------|
| 20783 | \$2,133,213 | 3 | 14.86% | 2 | \$3,544,988 |

| <u>Tract</u> | <u>High Bid</u> | No. Of <u>Bids</u> | 3 rd Bid as % <u>of High Bid</u> | Adjusted <u>No. Of Bids</u> | MROV to <u>Reject w/RAM</u> |
|--------------|-----------------|-----------------------|--|--------------------------------|--------------------------------|
| 20757 | \$19,384,760 | 4 | 16.45% | 2 | \$25,412,733 |
| 20774 | \$31,021,760 | 5 | 35.24% | 3 | \$67,945,428 |
| 20792 | \$5,683,000 | 4 | 22.00% | 2 | \$5,837,598 |
| 20794 | \$12,781,200 | 5 | 33.42% | 3 | \$23,705,949 |
| 20795 | \$4,532,656 | 4 | 16.01% | 2 | \$6,255,314 |
| 20796 | \$2,424,960 | 3 | 10.55% | 2 | \$3,112,418 |
| 20870 | \$6,350,000 | 3 | 18.11% | 2 | \$9,952,155 |
| 20876 | \$21,754,200 | 5 | 10.71% | 2 | \$33,362,911 |
| 20877 | \$7,207,891 | 4 | 12.17% | 1 | \$7,207,892 |
| 20882 | \$37,406,500 | 5 | 17.10% | 1 | \$37,406,501 |

Table E5. Tracts in > 800 Meters; 87.5 MMBOE Royalty Suspension Volume

Appendix F

Sale 171

Summary of Company Bids

Sale 171 - Summary of Company Bids by Total Amount of High Bids

| Bids | | | | | | | | |
|-------------|-----------|-------------------------------------|--------------|-------------|---------------|------------------|------------------|---------------------|
| | _ | | | | | Total | Total | Total |
| <u>Rank</u> | Company # | Company Name | <u>Total</u> | <u>High</u> | <u>Losers</u> | Exposed | High Bids | <u>Unsuccessful</u> |
| 1 | - | Union Oil - California | 84 | 77 | 7 | \$193,058,785.00 | \$184,825,149.80 | \$8,233,635.20 |
| 2 | | Texaco Exploration and Production | 72 | 61 | 11 | \$57,604,096.18 | \$48,750,959.27 | \$8,853,136.91 |
| 3 | | Vastar Resources | 32 | 32 | 0 | \$39,975,118.00 | \$39,975,118.00 | \$0.00 |
| 4 | | Seagull Energy E&P | 18 | 11 | 7 | \$23,350,933.40 | \$21,149,716.00 | \$2,201,217.40 |
| 5 | | Chevron U.S.A. | 4 | 3 | 1 | \$30,000,000.00 | \$19,854,509.00 | \$10,145,491.00 |
| 6 | | Burlington Resources Offshore | 35 | 31 | 4 | \$36,910,935.56 | \$19,523,296.56 | \$17,387,639.00 |
| 7 | | Amerada Hess | 19 | 18 | 1 | \$16,680,962.24 | \$16,418,882.24 | \$262,080.00 |
| 8 | | Amoco Production | 6 | 5 | 1 | \$17,281,720.18 | \$16,365,771.27 | \$915,948.91 |
| 9 | | Shell Deepwater Development | 18 | 14 | 4 | \$21,971,829.64 | \$13,025,312.45 | \$8,946,517.19 |
| 10 | 1431 | British-Borneo Petroleum | 15 | 8 | 7 | \$19,621,621.60 | \$12,492,663.60 | \$7,128,958.00 |
| 11 | 724 | Marathon Oil | 6 | 3 | 3 | \$36,931,661.90 | \$12,308,378.10 | \$24,623,283.80 |
| 12 | 2219 | Kerr-McGee | 19 | 18 | 1 | \$16,433,379.56 | \$12,107,537.56 | \$4,325,842.00 |
| 13 | 1022 | Sun Operating | 11 | 9 | 2 | \$20,078,496.00 | \$11,154,240.00 | \$8,924,256.00 |
| 14 | 185 | Samedan Oil | 10 | 8 | 2 | \$10,412,451.77 | \$9,096,361.37 | \$1,316,090.40 |
| 15 | 1138 | Sonat Exploration GOM | 37 | 30 | 7 | \$10,376,500.00 | \$9,078,400.00 | \$1,298,100.00 |
| 16 | 818 | Mariner Energy | 11 | 8 | 3 | \$14,554,080.00 | \$8,199,360.00 | \$6,354,720.00 |
| 17 | 1750 | Pennzoil Exploration and Production | 16 | 9 | 7 | \$7,804,388.00 | \$6,629,505.00 | \$1,174,883.00 |
| 18 | 2117 | Enterprise Oil Gulf of Mexico | 5 | 4 | 1 | \$6,292,881.46 | \$6,002,687.06 | \$290,194.40 |
| 19 | 2211 | EEX Corporation | 5 | 4 | 1 | \$6,292,881.46 | \$6,002,687.06 | \$290,194.40 |
| 20 | 2169 | Spinnaker Exploration | 13 | 10 | 3 | \$9,242,315.23 | \$5,736,857.83 | \$3,505,457.40 |
| 21 | 282 | CNG Producing | 10 | 7 | 3 | \$12,656,178.40 | \$5,670,363.40 | \$6,985,815.00 |
| 22 | 2295 | Exxon Asset Management Corp. | 16 | 14 | 2 | \$9,500,000.00 | \$4,480,000.00 | \$5,020,000.00 |
| 23 | 56 | Phillips Petroleum | 9 | 7 | 2 | \$9,889,673.31 | \$4,371,053.31 | \$5,518,620.00 |
| 24 | 1958 | Maxus (U.S.) Exploration | 9 | 7 | 2 | \$5,691,733.00 | \$4,185,757.00 | \$1,505,976.00 |
| 25 | 491 | Coastal Oil & Gas Corporation | 11 | 11 | 0 | \$4,128,925.00 | \$4,128,925.00 | \$0.00 |
| 26 | 1046 | The Houston Exploration Company | 11 | 9 | 2 | \$4,326,081.66 | \$4,107,365.00 | \$218,716.66 |
| 27 | 1500 | Elf Exploration | 9 | 6 | 3 | \$12,268,836.68 | \$4,044,000.00 | \$8,224,836.68 |
| 28 | 2248 | Agip Petroleum Exploration | 6 | 6 | 0 | \$4,022,351.82 | \$4,022,351.82 | \$0.00 |
| 29 | 1935 | Pioneer Natural Resources | 3 | 2 | 1 | \$8,616,471.60 | \$3,887,277.90 | \$4,729,193.70 |
| 30 | 231 | Pogo Producing | 4 | 3 | 1 | \$4,239,108.20 | \$3,741,138.20 | \$497,970.00 |
| | | = | | | | | | |

| | | | | | | Total | Total | Total |
|-------------|----------------------------|------------------|--------------|-------------|--------|----------------|------------------|---------------------|
| <u>Rank</u> | Company # Compa | an <u>y Name</u> | <u>Total</u> | <u>High</u> | Losers | Exposed | <u>High Bids</u> | <u>Unsuccessful</u> |
| 31 | 981 Anadarko Petroleu | um | 10 | 10 | 0 | \$3,346,096.00 | \$3,346,096.00 | \$0.00 |
| 32 | 2190 PanCanadian Gul | f of Mexico | 5 | 4 | 1 | \$3,288,194.09 | \$3,143,096.89 | \$145,097.20 |
| 33 | 2079 CXY Energy Offsh | nore | 7 | 4 | 3 | \$9,992,181.66 | \$2,862,000.00 | \$7,130,181.66 |
| 34 | 2025 Coastal Oil & Gas | - | 10 | 10 | 0 | \$2,531,750.00 | \$2,531,750.00 | \$0.00 |
| 35 | 1482 Nippon Oil Explora | ation U.S.A. | 5 | 3 | 2 | \$3,997,544.02 | \$2,519,689.82 | \$1,477,854.20 |
| 36 | 1680 BP Exploration & | Oil | 5 | 4 | 1 | \$4,036,229.00 | \$2,232,403.00 | \$1,803,826.00 |
| 37 | 481 Petrofina Delawar | е | 4 | 1 | 3 | \$9,035,181.66 | \$1,905,000.00 | \$7,130,181.66 |
| 38 | 2280 TOTAL Exploratio | n Production USA | 8 | 5 | 3 | \$4,045,583.50 | \$1,840,997.00 | \$2,204,586.50 |
| 39 | 2018 Basin Exploration | | 3 | 3 | 0 | \$1,521,786.00 | \$1,521,786.00 | \$0.00 |
| 40 | 560 Seneca Resource | S | 3 | 1 | 2 | \$1,684,656.00 | \$1,171,552.00 | \$513,104.00 |
| 41 | 1385 Chieftain Internation | onal (US) | 7 | 5 | 2 | \$2,687,779.40 | \$1,110,116.00 | \$1,577,663.40 |
| 42 | 689 Shell Offshore | | 7 | 2 | 5 | \$2,194,280.00 | \$972,020.00 | \$1,222,260.00 |
| 43 | 2058 LLOG Exploration | Offshore | 1 | 1 | 0 | \$707,000.00 | \$707,000.00 | \$0.00 |
| 44 | 276 Exxon Corporation | า | 2 | 2 | 0 | \$646,000.00 | \$646,000.00 | \$0.00 |
| 45 | 1551 Santa Fe Energy I | Resources | 2 | 1 | 1 | \$1,337,250.00 | \$615,810.00 | \$721,440.00 |
| 46 | 1732 Cockrell Oil and G | ias | 2 | 2 | 0 | \$615,143.00 | \$615,143.00 | \$0.00 |
| 47 | 1888 McMoRan Oil & G | ias | 1 | 1 | 0 | \$548,564.80 | \$548,564.80 | \$0.00 |
| 48 | 565 Mobil Producing T | X & NM | 3 | 1 | 2 | \$5,999,916.69 | \$547,666.69 | \$5,452,250.00 |
| 49 | 2246 King Ranch Energ | | 4 | 4 | 0 | \$502,490.00 | \$502,490.00 | \$0.00 |
| 50 | 1790 Snyder Oil Corpor | ation | 2 | 2 | 0 | \$474,394.00 | \$474,394.00 | \$0.00 |
| 51 | 1689 Murphy Exploratio | n & Production | 5 | 1 | 4 | \$7,845,500.00 | \$406,000.00 | \$7,439,500.00 |
| 52 | 1663 Blue Dolphin Expl | oration | 2 | 2 | 0 | \$364,320.00 | \$364,320.00 | \$0.00 |
| 53 | 1001 IP Petroleum | | 2 | 1 | 1 | \$1,110,422.00 | \$288,086.00 | \$822,336.00 |
| 54 | 222 Aviara Energy Co | rporation | 1 | 1 | 0 | \$288,086.00 | \$288,086.00 | \$0.00 |
| 55 | 216 Case-Pomeroy Oi | I | 4 | 4 | 0 | \$242,625.00 | \$242,625.00 | \$0.00 |
| 56 | 1832 Forcenergy | | 1 | 2 | -1 | \$355,194.00 | \$203,562.00 | \$151,632.00 |
| 57 | 1578 British-Borneo Exp | ploration | 1 | 1 | 0 | \$196,800.00 | \$196,800.00 | \$0.00 |
| 58 | 48 Forest Oil | | 1 | 1 | 0 | \$153,230.00 | \$153,230.00 | \$0.00 |
| 59 | 2070 Tri-Union Develop | ment Corp. | 1 | 1 | 0 | \$144,000.00 | \$144,000.00 | \$0.00 |
| 60 | 148 Union Pacific reso | ources | 1 | 0 | 1 | \$656,717.00 | \$0.00 | \$656,717.00 |
| 61 | 1103 Enron Oil & Gas | | 1 | 0 | 1 | \$515,103.00 | \$0.00 | \$515,103.00 |
| 62 | 1364 Newfield Explorati | on | 2 | 0 | 2 | \$453,000.00 | \$0.00 | \$453,000.00 |
| 63 | 105 Apache | | 1 | 0 | 1 | \$123,633.34 | \$0.00 | \$123,633.34 |

Appendix G

Sales 171, 168, and 161

Active Bidders

Companies Participating in 15 or More Bids in Sale 171

| | | • • • • | | | | | Exposure | Exposuro | Exposure |
|-------------------------------------|----------|----------|-------------------|-------------------|----------|-------|----------|-------------|-------------|
| Compony | Co. Code | < 200 m. | 200-400 m. | 400-800 m. | 800 + m. | Total | (\$MM) | Exposure | • |
| Company | | | <u>200-400 m.</u> | <u>400-600 m.</u> | | | | <u>Rank</u> | per Bid |
| Union Oil - California | 3 | 11 | 4 | 0 | 69 | 84 | \$193.06 | 1 | \$2,298,333 |
| Texaco Exploration and Production | 771 | 2 | 0 | 1 | 69 | 72 | \$57.60 | 2 | \$800,000 |
| Sonat Exploration GOM | 1138 | 5 | 0 | 6 | 26 | 37 | \$10.38 | | \$280,541 |
| Burlington Resources Offshore | 1904 | 0 | 0 | 0 | 35 | 35 | \$36.91 | 5 | \$1,054,571 |
| Vastar Resources | 1855 | 8 | 0 | 6 | 18 | 32 | \$39.98 | 3 | \$1,249,375 |
| Amerada Hess | 59 | 0 | 0 | 0 | 19 | 19 | \$16.68 | | \$877,895 |
| Kerr-McGee | 2219 | 0 | 0 | 0 | 18 | 18 | \$16.43 | | \$912,778 |
| Seagull Energy E&P | 1956 | 1 | 0 | 2 | 15 | 18 | \$23.35 | 7 | \$1,297,222 |
| Shell Deepwater Development | 2139 | 0 | 0 | 1 | 17 | 18 | \$21.97 | 8 | \$1,220,556 |
| Pennzoil Exploration and Production | 1750 | 1 | 2 | 2 | 11 | 16 | \$7.80 | | \$487,500 |
| Exxon Asset Management Corp. | 2295 | 0 | 0 | 1 | 15 | 16 | \$9.50 | | \$593,750 |
| British-Borneo Petroleum | 1431 | 0 | 0 | 0 | 15 | 15 | \$19.62 | 10 | \$1,308,000 |
| Other Bidders of Note: | | | | | | | | | |
| Marathon Oil | 724 | 0 | 0 | 0 | 6 | 6 | \$36.93 | 4 | \$6,155,000 |
| Chevron U.S.A. | 78 | 0 | 0 | 0 | 4 | 4 | \$30.00 | 6 | \$7,500,000 |
| Sun Operating | 1022 | 0 | 0 | 0 | 11 | 11 | \$20.08 | 9 | \$1,825,455 |

Companies Participating in 25 or More Bids in Sale 168

| Companies Farticipating in 25 of W | iore blus in Sai | e 100 | | | | | | | |
|------------------------------------|------------------|--------------------|-------------------|-------------------|-----------------|--------------|---------------|-------------|----------------|
| | | | | | | | Exposure | Exposure | Exposure |
| <u>Company</u> | <u>Co. Code</u> | <u>< 200 m.</u> | <u>200-400 m.</u> | <u>400-800 m.</u> | <u>800 + m.</u> | <u>Total</u> | <u>(\$MM)</u> | <u>Rank</u> | <u>per Bid</u> |
| Shell Deepwater Development | 2139 | 0 | 0 | 19 | 199 | 218 | \$102.23 | 1 | \$468,945 |
| BP Exploration | 1680 | 0 | 0 | 2 | 128 | 130 | \$75.47 | 2 | \$580,538 |
| Chevron | 78 | 0 | 0 | 3 | 98 | 101 | \$57.11 | 4 | \$565,446 |
| Union Oil of California | 3 | 12 | 4 | 5 | 71 | 92 | \$47.47 | 5 | \$515,978 |
| Texaco | 771 | 5 | 1 | 6 | 76 | 88 | \$38.61 | 6 | \$438,750 |
| Amoco | 114 | 0 | 0 | 0 | 88 | 88 | \$21.16 | | \$240,455 |
| Exxon | 276 | 0 | 0 | 0 | 84 | 84 | \$72.50 | 3 | \$863,095 |
| Sun Operating | 1022 | 13 | 1 | 2 | 38 | 54 | \$29.36 | 9 | \$543,704 |
| Vastar Resources | 1855 | 7 | 0 | 1 | 42 | 50 | \$28.70 | 10 | \$574,000 |
| Amerada Hess | 59 | 2 | 1 | 8 | 32 | 43 | \$22.16 | | \$515,349 |
| Statoil Exploration (US) | 1247 | 0 | 0 | 0 | 41 | 41 | \$26.70 | | \$651,220 |
| Burlington Resources | 1904 | 2 | 0 | 4 | 35 | 41 | \$22.07 | | \$538,293 |
| Murphy Exploration | 1689 | 0 | 0 | 5 | 33 | 38 | \$19.23 | | \$506,053 |
| Elf Exploration | 1500 | 0 | 0 | 3 | 33 | 36 | \$25.83 | | \$717,500 |
| Louisiana Land | 83 | 1 | 0 | 0 | 33 | 34 | \$15.09 | | \$443,824 |
| Conoco | 1 | 0 | 0 | 2 | 24 | 26 | \$31.64 | 8 | \$1,216,923 |
| Other Bidder(s) of Note: | | | | | | | | | |
| Marathon | 724 | 0 | 0 | 3 | 16 | 19 | \$36.63 | 7 | \$1,927,895 |

Companies Participating in 25 or More Bids in Sale 161

| Companies randopading in 25 of | | | | | | | _ | _ | _ |
|--------------------------------|-----------------|--------------------|-------------------|-------------------|-----------------|--------------|---------------|-------------|----------------|
| | | | | | | | Exposure | Exposure | Exposure |
| <u>Company</u> | <u>Co. Code</u> | <u>< 200 m.</u> | <u>200-400 m.</u> | <u>400-800 m.</u> | <u>800 + m.</u> | <u>Total</u> | <u>(\$MM)</u> | <u>Rank</u> | <u>per Bid</u> |
| Shell | 689 | 39 | 11 | 30 | 94 | 174 | \$82.95 | 1 | \$476,724 |
| Chevron | 78 | 1 | 2 | 3 | 66 | 72 | \$12.57 | 9 | \$174,583 |
| Texaco | 771 | 5 | 3 | 3 | 52 | 63 | \$12.14 | 10 | \$192,698 |
| Vastar | 1855 | 11 | 0 | 7 | 24 | 42 | \$18.08 | 4 | \$430,476 |
| Conoco | 1 | 0 | 1 | 4 | 37 | 42 | \$15.69 | 7 | \$373,571 |
| Mobil | 565 | 0 | 0 | 1 | 38 | 39 | \$16.22 | 5 | \$415,897 |
| Zilkha | 1138 | 26 | 4 | 6 | 2 | 38 | \$12.06 | | \$317,368 |
| Enron | 1103 | 24 | 5 | 7 | 1 | 37 | \$16.06 | 6 | \$434,054 |
| Phillips | 56 | 0 | 0 | 1 | 35 | 36 | \$5.58 | | \$155,000 |
| Amoco | 114 | 5 | 0 | 0 | 30 | 35 | \$11.52 | | \$329,143 |
| Amerada Hess | 59 | 4 | 3 | 16 | 11 | 34 | \$18.37 | 3 | \$540,294 |
| Chieftain International | 1385 | 30 | 1 | 0 | 0 | 31 | \$9.50 | | \$306,452 |
| Exxon | 276 | 0 | 0 | 2 | 28 | 30 | \$8.04 | | \$268,000 |
| Union Oil of California | 3 | 4 | 4 | 5 | 16 | 29 | \$10.07 | | \$347,241 |
| British-Borneo Petroleum | 1431 | 0 | 7 | 4 | 16 | 27 | \$10.44 | | \$386,667 |
| Sun Operating | 1022 | 5 | 4 | 10 | 7 | 26 | \$15.20 | 8 | \$584,615 |
| Other Bidder(s) of Note: | | | | | | | | | |
| Barrett Resources | 2050 | 22 | 0 | 0 | 0 | 22 | \$37.95 | 2 | \$1,725,000 |

Appendix H

Sales 171 and 168

Comparison of Sales - Graphs

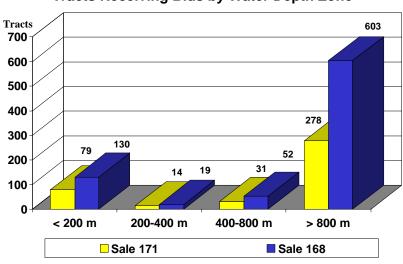
Sale 171 v. Sale 168

Prepared by: Economics Division, MMS

Sale 171 - Sale 168 (WGOM) Comparison of Results

- In aggregate, 402 tracts received high bids of \$553.44 MM in Sale 171 and 804 tracts received high bids of \$616.21 MM in Sale 168
- Bids per tract declined from 1.5 to 1.2 in Sale 171
- Sale 171 had 79 tracts in < 200 m. receiving high bids of \$31.38 MM v. 130 tracts and high bids of \$65.85 MM in Sale 168
- Sale 171 had 323 tracts in > 200 m. receiving high bids of \$522.06 MM v. 674 tracts and high bids of \$550.36 MM in Sale 168

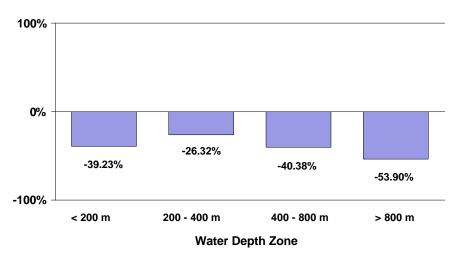
Sale 171 v. Sale 168 - Tracts

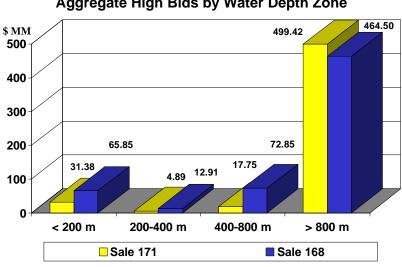


Tracts Receiving Bids by Water Depth Zone

Sale 171 v. Sale 168 - Tracts

Percent Change in Tracts Receiving Bids by Water Depth Zone



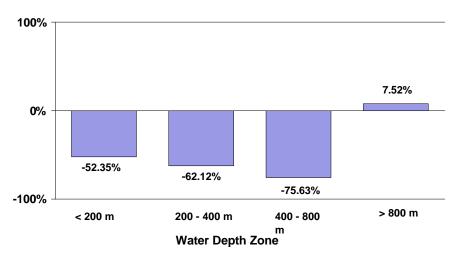


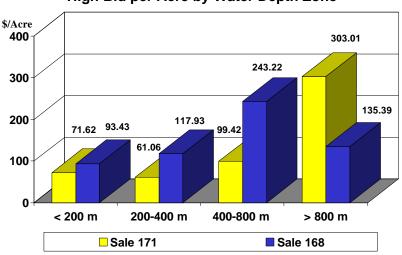
Sale 171 v. Sale 168 - Bonuses

Aggregate High Bids by Water Depth Zone

Sale 171 v. Sale 168 - Bonuses

Percent Change in Aggregate High Bids by Water Depth Zone



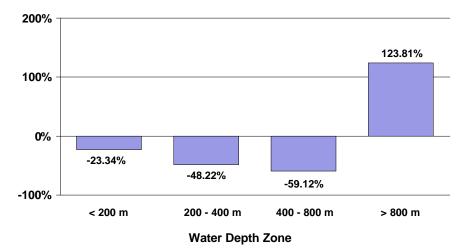


Sale 171 v. Sale 168 - High Bid per Acre

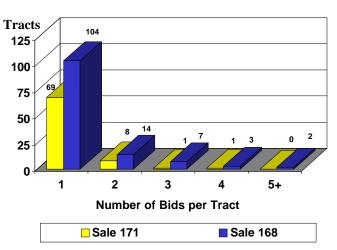
High Bid per Acre by Water Depth Zone

Sale 171 v. Sale 168 - High Bid per Acre

Percent Change in High Bid per Acre by Water Depth Zone

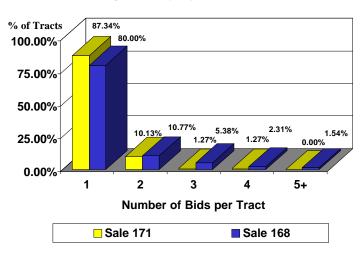


Sale 171 v. Sale 168 - Tracts in Less than 200 Meters Water Depth



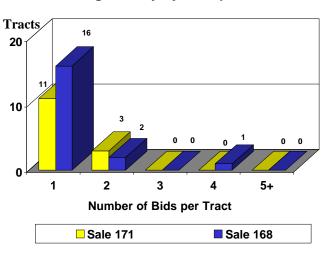
Bidding Activity by Bids per Tract

Sale 171 v. Sale 168 - Tracts in Less than 200 Meters Water Depth



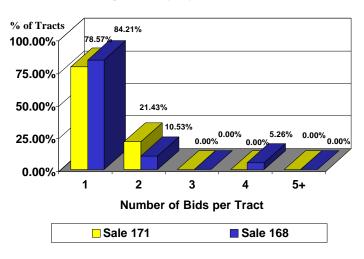
Bidding Activity by Bids per Tract

Sale 171 v. Sale 168 - Tracts in 200 to 400 Meters Water Depth



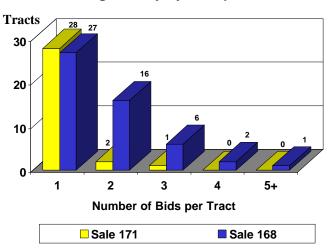
Bidding Activity by Bids per Tract

Sale 171 v. Sale 168 - Tracts in 200 to 400 Meters Water Depth



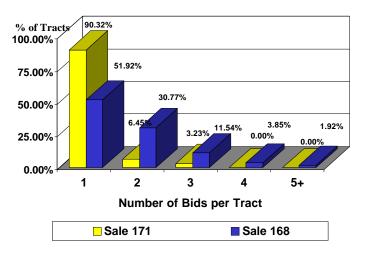
Bidding Activity by Bids per Tract

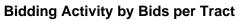
Sale 171 v. Sale 168 - Tracts in 400 to 800 Meters Water Depth



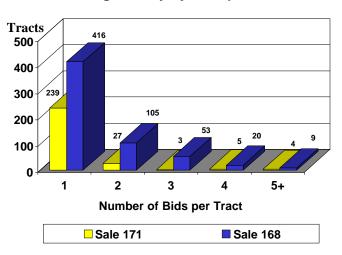
Bidding Activity by Bids per Tract

Sale 171 v. Sale 168 - Tracts in 400 to 800 Meters Water Depth



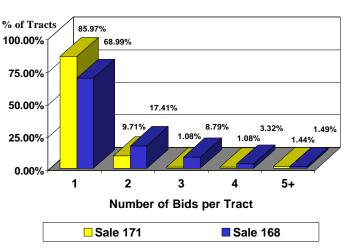


Sale 171 v. Sale 168 - Tracts in More than 800 Meters Water Depth



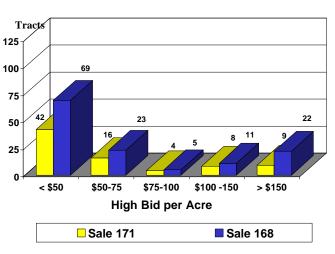
Bidding Activity by Bids per Tract

Sale 171 v. Sale 168 - Tracts in More than 800 Meters Water Depth



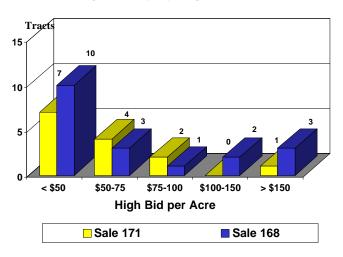
Bidding Activity by Bids per Tract

Sale 171 v. Sale 168 - Tracts in Less than 200 Meters Water Depth



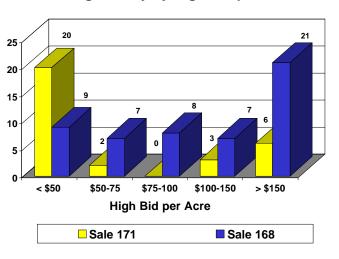
Bidding Activity by High Bid per Acre

Sale 171 v. Sale 168 - Tracts in 200 to 400 Meters Water Depth



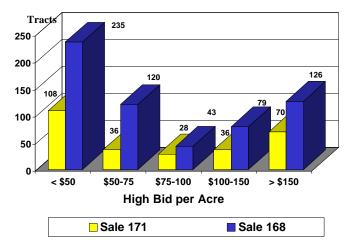
Bidding Activity by High Bid per Acre

Sale 171 v. Sale 168 - Tracts in 400 to 800 Meters Water Depth



Bidding Activity by High Bid per Acre

Sale 171 v. Sale 168 - Tracts in More than 800 Meters Water Depth



Bidding Activity by High Bid per Acre

Appendix I

Sale 171

High Bid Rejections

Sale 171 Rejections

High bids on 25 tracts were rejected in Sale 171. Twenty of the rejected blocks received onebid, four were two-bid tracts, and one was a three-bid tract. By water depth category, the rejections were as follows: six in less than 200 meters; one in 200 to 400 meters; two in 400 -800 meters; and 16 in 800 meters or more.

| Tract No. | Bids | High Bid | MROV | RAM | GAEOT |
|-----------|------|-----------|-------------|-----------|-----------|
| 20624 | 1 | \$164,160 | \$910,000 | NA | NA |
| 20644 | 1 | \$258,156 | \$810,000 | NA | NA |
| 20654 | 2 | \$379,777 | \$970,000 | \$564,443 | \$502,070 |
| 20657 | 1 | \$315,363 | \$840,000 | NA | NA |
| 20676 | 1 | \$452,175 | \$1,100,000 | NA | NA |
| 20775 | 1 | \$205,298 | \$1,800,000 | NA | NA |

Table I1. Sale 171 Rejections in Water Depths Less than 200 Meters Royalty Rate = 1/6; No Royalty Suspension Volume

Table I2. Sale 171 Rejection in Water Depths of 200 to 400 Meters Royalty Rate = 1/6; 17.5 MMBOE Royalty Suspension Volume

| Tract No. | Bids | High Bid | MROV | RAM | GAEOT |
|-----------|------|-----------|-----------|-----|-------|
| 20680 | 1 | \$309,777 | \$600,000 | NA | NA |

Table I3. Sale 171 Rejections in Water Depths of 400 to 800 Meters Royalty Rate = 1/8; 52.5 MMBOE Royalty Suspension Volume

| Tract No. | Bids | High Bid | MROV | RAM | GAEOT |
|-----------|------|-------------|-------------|-------------|-------------|
| 20782 | 2 | \$425,705 | \$3,900,000 | \$1,574,568 | \$871,001 |
| 20783 | 3 | \$2,133,213 | \$4,700,000 | \$2,518,218 | \$1,230,546 |

| Tract No. | Bids | High Bid | MROV | RAM | GAEOT |
|-----------|------|-------------|--------------|-----------|-----------|
| 20735 | 1 | \$202,000 | \$2,300,000 | NA | NA |
| 20746 | 2 | \$202,000 | \$1,400,000 | \$590,100 | \$362,400 |
| 20770 | 1 | \$322,560 | \$2,200,000 | NA | NA |
| 20931 | 1 | \$408,960 | \$1,700,000 | NA | NA |
| 20936 | 1 | \$201,600 | \$550,000 | NA | NA |
| 20961 | 1 | \$1,083,600 | \$2,200,000 | NA | NA |
| 20962 | 1 | \$907,760 | \$2,700,000 | NA | NA |
| 20965 | 1 | \$1,550,760 | \$3,300,000 | NA | NA |
| 20966 | 1 | \$405,760 | \$4,500,000 | NA | NA |
| 20974 | 2 | \$5,283,395 | \$11,000,000 | NA | NA |
| 20975 | 1 | \$916,760 | \$1,600,000 | NA | NA |
| 20977 | 1 | \$2,801,760 | \$5,100,000 | NA | NA |
| 20978 | 1 | \$1,602,760 | \$6,100,000 | NA | NA |
| 20988 | 1 | \$701,760 | \$2,200,000 | NA | NA |
| 20999 | 1 | \$807,870 | \$1,800,000 | NA | NA |
| 21000 | 1 | \$507,870 | \$2,200,000 | NA | NA |

Table I4. Sale 171 Rejections in Water Depths 800 Meters or More Royalty Rate = 1/8; 87.5 MMBOE Royalty Suspension Volume

Sale 171 was the third sale to use the revised bid adequacy procedures in which the Revised Arithmetic-average Measure (RAM) replaced the Geometric Average Evaluation of Tract (GAEOT) as the secondary bid acceptance criterion. If the GAEOT was still in use for this sale, the high bid on one additional tract (20783) would have been accepted. The modified procedures were published in the Federal Register on July 14, 1997 (62 FR 37589-37591).

Appendix J

Sale 171

Revised Bid Adequacy Procedures

[Federal Register: July 14, 1997 (Volume 62, Number 134)]
[Notices]
[Page 37589-37591]
From the Federal Register Online via GPO Access [wais.access.gpo.gov]

DEPARTMENT OF THE INTERIOR

Minerals Management Service

Modifications to the Bid Adequacy Procedures

AGENCY: Minerals Management Service (MMS), Interior. ACTION: Notification of procedural changes.

SUMMARY: The Minerals Management Service (MMS) has modified its existing bid adequacy procedures for ensuring receipt of fair market value on Outer Continental Shelf (OCS) oil and gas leases. In Phase 1 these procedures establish a new number of bids rule for acceptance of selected tracts. In Phase 2 these procedures expand the scope of tract evaluation; replace the geometric average evaluation of tract with a revised arithmetic average measure of the tract; eliminate the one-eighth rule for anomalous bids; and clarify the treatment of tracts identified as having unusual bidding patterns.

These changes were made following a review of bidding activity in OCS sales. The new number of bids rule relies more on market-determined factors to ensure receipt of fair market value. This new rule, along with expansion of evaluation procedures beyond only tract specific assessments, will allow for earlier acceptance on tracts that would be accepted later in the evaluation process. The revised average measure is designed to generate a better estimate of tract value when all bids fall below the Government's original estimate of tract value. The stricter screening rules associated with the revised average measure eliminate the need for the one-eighth rule. The Regional Director's expanded authority to handle [*Page 37590*] documented instances of unusual bidding patterns provides flexibility to modify certain acceptance rules and allows for a decision to reject the high bid on identified tracts.

DATES: This modification is effective July 14, 1997. **FOR FURTHER INFORMATION CONTACT:**

Dr. Marshall Rose, Chief, Economics Division, at (703) 787-1536.

SUPPLEMENTARY INFORMATION: The following set of bid adequacy procedures incorporates the most recent changes. During the bid review process, MMS conducts evaluations in a two-phased process for bid adequacy determination. In Phase 1 we review the bid for legal sufficiency¹ and anomalies² to establish the set of qualified bids³ to be evaluated.

¹ Legal bids are those bids which comply with MMS regulations (30 CFR 256) and the Notice of Sale. Any illegal high bid will be returned to the bidder.

(1) Phase 1 partitions the tracts receiving bids into three general categories:

- Those tracts which the MMS identifies as being nonviable⁴ based on adequate data and maps;

- Those tracts where competitive market forces can be relied upon to assure fair market value; and

- Those tracts where opportunities for strategic underbidding, information asymmetry, collusion, and other noncompetitive practices are greatest and where the Government has the most detailed and reliable data.

Based on these categories, four Phase 1 rules are applied to all tracts receiving bids:

- Pass directly to Phase 2 for further evaluation all tracts t that require additional information to make a determination on viability or tract type and all drainage and development tracts.

- Accept the highest qualified bid on confirmed and wildcat tracts receiving three or more qualified bids where the third highest such bid on the tract is at least 50 percent of the highest qualified bid.

- Pass to Phase 2 confirmed and wildcat tracts receiving either one or two qualified bids, or three or more qualified bids where the third highest such bid is less than 50 percent of the highest qualified bid.

- Accept the highest qualified bid on confirmed and wildcat tracts determined to be nonviable.

lowest level anticipated for any tract or prospect in the same cost regime.

² Anomalous bids include all but the highest bid submitted for a tract by the same company, parent or subsidiary (bidding alone or jointly). Such bids are excluded when applying the number of bids rule or any bid adequacy measure.

³ Qualified bids are those bids which are legal and not anomalous.

⁴ Nonviable tracts or prospects are those geographic or geologic configurations of hydrocarbons whose risk weighted most probable resource size is below the minimum economic field size for the relevant cost regime and anticipated future prices. The risk used is below the

In assuring the integrity of the bidding process, the Regional Director (RD) may identify an unusual bidding pattern⁵ at any time during the bid review process, but before a tract is accepted. If the finding is documented, the RD has discretionary authority, after consultation with the Solicitor, to pass those tracts so identified to Phase 2 for further analysis. The RD may eliminate all but the highest of the unusual bids from consideration when applying any bid adequacy rule, may choose not to apply a bid adequacy rule, or may reject the tract's highest qualified bid.

Phase 1 procedures are generally completed simultaneously within three weeks of the bid opening.

(2) Phase 2 applies criteria designed to resolve bid adequacy assessments by analyzing, partitioning, and evaluating tracts in two steps:

- Further mapping and/or analysis is done to review, modify and finalize viability determinations and tract classifications.

- Tracts identified as being viable must undergo an evaluation to determine if fair market value has been received.

After completing these two steps, the following rules and procedures are used in Phase 2.

- Accept the highest qualified bid on all tracts determined to be nonviable.

- Accept newly classified confirmed and wildcat tracts having three or more qualified bids where the third highest such bid is at least 50 percent of the highest qualified bid.

- Determine whether any categorical fair market evaluation technique(s) will be used. If so:

- Evaluate, define and identify the appropriate threshold measure(s).

- Accept all tracts whose individual cash flow values, if estimated by MMS and used in the bid adequacy procedures, would result in satisfaction of the threshold categorical requirements.

- Conduct a full-scale evaluation, which could include the use of MONTCAR⁶, on all remaining tracts⁷ passed to Phase 2 and still awaiting an acceptance or rejection decision. Compare the highest qualified bid on each of these remaining tracts to two measures of bid adequacy: the Mean Range of Values (MROV)⁸ and the Adjusted Delayed Value (ADV)⁹

⁶ MONTCAR is a probabilistic, cash flow computer simulation model designed to conduct a resource-economic evaluation that results in an estimate of the expected net present value of a tract (or prospect) along with other measures.

⁷ These include tracts not accepted by a categorical rule that are classified as drainage and development tracts and those classified as confirmed and wildcat tracts that are viable and received (a) one or two qualified bids, or (b) three or more qualified bids where the third highest such bid is less than 50 percent of the highest qualified bid.

⁸ The MROV is a dollar measure of a tract's expected net present private value, given that the tract is leased in the current sale, allowing for exploration and economic risk, and including tax consequences including depletion of the cash bonus.

⁵ Within the context of our bid adequacy procedures, the term unusual bidding patterns typically refers to a situation in which there is an excessive amount of coincident bidding by different companies on a set of tracts in a sale. Other forms of unusual bidding patterns exist as well, and generally involve anti-competitive practices, e.g., when there is an uncommon absence of competition among companies active in a sale on a set of prospective tracts.

- Accept the highest qualified bid for those tracts where such a bid equals or exceeds the tract's ADV.

- Reject the highest qualified bid on drainage and development tracts receiving three or more qualified bids where such a bid is less than one-sixth of the tract's MROV.

- Reject the highest qualified bid on drainage and development tracts receiving one or two qualified bids and on confirmed and wildcat tracts receiving only one qualified bid where the high bid is less than the tract's ADV.

- Select from the outstanding tracts¹⁰ those (a) drainage and development tracts having three or more qualified bids with the third highest such bid being at least 25 percent of the highest qualified bid and (b) confirmed and wildcat tracts having two or more qualified bids with the second highest such bid being at least 25 percent of the highest qualified bid. Compare the [*Page 37591*] highest qualified bid on each of these selected, outstanding tracts to the tract's Revised Arithmetic Average Measure (RAM).¹¹ For all these tracts:

- Accept the highest qualified bid where such a bid equals or exceeds the tract's RAM.

- Reject the highest qualified bid where such a bid is less than the tract's RAM.

⁹ The ADV is the minimum of the MROV and the Delayed MROV (DMROV). The DMROV is a measure used to determine the size of the high bid needed in the current sale to equalize it with the discounted sum of the bonus and royalties expected in the next sale, less the foregone royalties from the current sale. The bonus for the next sale is computed as the MROV associated with the delay in leasing under the projected economic, engineering, and geological conditions, including drainage. If the high bid exceeds the DMROV, then the leasing receipts from the current sale are expected to be greater than those from the next sale, even in cases where the MROV exceeds the high bid.

¹⁰ These consist of those tracts having a highest qualified bid that does not exceed the MROV or the ADV, and are either (a) drainage or development tracts receiving three or more qualified bids with the highest such bid exceeding one-sixth of the tract's MROV, or (b) confirmed and wildcat tracts that are viable and receive two or more qualified bids.

¹¹ The RAM is the arithmetic average of the MROV and all qualified bids on the tract that are equal to at least 25 percent of the high bid.

- Reject the highest qualified bid on all leftover tracts, i.e., those that were in the "outstanding" set above but not selected for comparison to the RAM.

The Phase 2 bid adequacy determinations are normally completed sequentially over a period ranging between 21 and 90 days after the sale. The total evaluation period can be extended, if needed, at the RD's discretion (61 FR 34730, July 3, 1996).

Dated: July 7, 1997. Carolita U. Kallaur, Associate Director for Offshore Minerals Management. [FR Doc. 97-18291 Filed 7-11-97; 8:45 am] BILLING CODE 4310-MR-P