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PR87-69

SOIL GAS ALKANE SURVEY EP 9

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for EP 9 Joint Venture Base Resources Ltd (Operator)

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Table 1: Methane, ethane, propane and butane concentrations (ppmv) and derived ratios of soil gas samples.

1. SUMMARY

A first-pass, helicopter supported, soil gas survey was carried out from widely spaced lines over the majority of EP 9 to ascertain the petroleum potential of the permit.

Throughout the survey area ethane, propane and butane concentrations are low with no anomalous samples present. Methane concentrations are low to moderate with one zone of anomalous concentrations and one zone of elevated concentrations, both located in the central region of the permit.

The ratios of the alkane concentrations suggest a gas-rich source for the hydrocarbons. However, it is possible that high methane concentrations observed in some samples may be derived from a remote source. Also heavy rain during July and August 1986 may have preferentially removed the heavier alkanes as it moved downwards through the soil suggesting that potentially anomalous areas would not be as gas rich as the ratios indicate.

The results of the soil gas survey indicate the permit to have a low prospectivity for the discovery of large oilfields.

2. INTRODUCTION

Base Resources Limited, operator of the EP 9 Joint Venture, commissioned Petrofocus to carry out a soil gas alkane survey as a first pass appraisal of the permit area. The aim of the present survey was to evaluate the petroleum prospectivity of the region. The area has received little seismic survey coverage, although a limited regional survey carried out in the 1960's has identified some poorly defined structural highs in the southwest. Two other lines are located to the central-eastern section of the permit. No subsequent exploration activity has occurred in the area.

Because of navigational difficulties in the monotonous sand dune terrain, sampling locations could be determined only to \pm 5 km. The western extent of the permit could be located fairly accurately with respect to a 1960's seismic survey line and some topographic features but the eastern limit was not accurately positioned on the ground.

Some of the samples contained very high methane levels, and prompted the sampling of a north-south cross-section through the zone. It is suggested that at least some methane may have migrated some considerable distance from gas-rich parts of the basin. This would have the effect of raising the proportion of methane with respect to the heavier alkanes, and thus give rise to ratios that indicate a source that is less oil rich.

Since 1981, Petrofocus, and its predecessor Petrosearch, have carried out soil gas geochemical surveys, both in a broad-spaced reconnaissance mode in wildcat regions, and detailed, intensive sampling surveys over seismic survey leads and prospects. In addition, over 15 orientation surveys have been carried out over and adjacent to known oil and gas fields in the Surat, Eromanga, Canning and Amadeus Basins, and these show enhanced concentrations of the light alkane gases to be present in soils above or peripheral to the fields.

3. SURVEY METHODS

3.1 Introduction

Although success has been claimed over the past thirty or more years for various geochemical exploration techniques, enthusiasm for their employment is not widely shared by professionals in the petroleum industry.

Anomalous concentrations of hydrocarbon gases were first reported above petroleum reservoirs in the 1930's (Laubmeyer, 1933; Sokolov, 1933; Horvitz, 1939). These results quickly lead to the development of techniques for use in petroleum exploration, and in 1959 Sokolov summarised successful applications of the techniques in the U.S.S.R. as follows:

"Under favourable geological conditions, the proportion of correct predictions (from geochemical surveys) is rather high - about 70 percent. For instance, in the North Caucasus (Kuban), predictions made by gas surveys were confirmed in thirteen cases out of seventeen."

Although successful uses of geochemical techniques have been documented in the western literature results obtained by industry users in the course of normal exploration have commonly produced negative or, at best, equivocal results which have led the techniques to disfavour. In many instances the unsatisfactory results can be attributed to poor sample collection, storage, preparation and analytical procedures. Most importantly, however, results of many surveys have not been interpreted properly. There is, in general, a poor understanding of what can be expected from geochemical methods and, particularly, of their limitations.

Within the past few years there has been, however, renewed interest in geochemical exploration techniques following the successful identification of surface anomalies above petroleum reservoirs by the Geosat Committee's study in which the Multispectral Scanner and the Thematic Mapper, now aboard Landsat 4, were flown over three test sites in the USA. The alteration features, verified on the ground, in soils, rocks and/or vegetation have been shown to result from leakage of light hydrocarbon gases from the moderately deep reservoirs (Rock, 1984; Patton and Manwaring, 1984; Matthews et al., 1984).

3.2 Microseeps

Successful employment of geochemical exploration techniques relies upon the phenomenon of vertical migration of light hydrocarbons that leak in trace amounts from petroleum reservoirs. This has been a hotly disputed issue, but the weight of evidence from reliable sources clearly demonstrates that vertical migration does, in fact, occur. It must now be conceded that light hydrocarbon gases do leak from at least some moderately deep to deep petroleum reservoirs and can be detected as microseeps located vertically above, or peripheral to, the surface projection of the reservoir as -

- (i) free gas in the soil or absorbed to soil minerals (Debnam, 1969; Devine and Sears, 1977; Horvitz, 1972, 1979; Jones and Drozd, 1983; Richers et al., 1982; Rock, 1984; Matthews et al., 1984), or
- (ii) as a chemical or mineralogical alteration of soil and surface rocks (Karstev, 1959; Donovan, 1974), or
- (iii) in vegetation as either morphological or chemical effects (Donovan and Dalziel, 1977; Richers et al., 1982; Rock, 1984).

In addition, case studies conducted by Petrofocus since 1980 unambiguously show anomalous concentrations of light hydrocarbon gases directly above or immediately peripheral to the surface projection of 14 known petroleum reservoirs in the Surat, Cooper, Eromanga and Amadeus Basins.

3.3 Detection of Hydrocarbon Gas Microseeps

There are now in use several indirect techniques which exploit various manifestations of the vertical migration of hydrocarbons or associated gases leaking from deep petroleum reservoirs. These include magnetic, electrical (electromagnetic and induced polarization), radiometric and helium emanometry methods. However, the principal disadvantage in employing these methods is

that the effects they respond to can also be produced by causes unrelated to the leakage of hydrocarbon gases.

Clearly, it is advantageous to detect and quantify the hydrocarbon microseeps themselves - this is the approach adopted by Petrosearch in which the light hydrocarbon gases in the soil gas are detected.

The detection of the light hydrocarbon gases was selected as the most reliable sampling medium since only gaseous hydrocarbons can pass directly through aquifers which are commonly present above petroleum reservoirs in many Australian sedimentary basins. On the other hand, hydrocarbons transported in solution, including dissolved gases, will be entrained in the aquifer or in the surficial groundwater system and may be released at some remote location which cannot be related to the parent petroleum reservoir.

In Petrofocus surveys soil gas samples are carefully collected from depths ranging from 0.5 to 1 metres using a probe of proprietary design and pre-prepared microsyringes. The gas samples are carefully packed in airtight containers for shipment to the analytical facility, which is located at the field base camp. Samples are analysed for the light alkanes methane through pentane by a gas chromatographic technique. The sensitivity of the chromatograph, as presently employed, is approximately 0.5 ppmv methane, 0.05 ppmv ethane, 0.02 ppmv propane, and 0.005 ppmv butane. The alkane concentrations of samples are determined by comparison with known concentrations in a specially prepared gas standard. Reproducibility of results is typically better than +5%.

3.4 Interpretation of Results

Because of differences in the proportion of oil and gas from reservoir to reservoir, and in the composition of the oil and gas phases, together with differences in reservoir parameters and in soil characteristics from region to region, an attempt is always made to carry out orientation surveys over known reservoirs as close as possible to the survey area. By comparing results from the survey area with those from the known reservoir an estimate can be made of the type of hydrocarbons giving rise to the microseeps detected in the survey area. Estimates of the size of the hydrocarbon reservoir in the survey area

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are difficult to establish and can only be attempted within areas having closely similar reservoir and soil characteristics because the magnitude of an anomaly may be determined by the ease of the migration of gases from the reservoir, rather than by the volume of gas in the reservoir. There is emerging some confidence that the ratios of the various alkanes present in soil gas can be an indication of the type of parent hydrocarbons in the reservoir (Jones and Drozd, 1983; Richers et al., 1982). The various ratios which may indicate the "oilyness" of a reservoir are determined for each anomaly detected, but this serves only as a non-definitive indicator, since the parameters which govern the amount and type of hydrocarbon gases present in near-surface environments are only imperfectly understood. They include the following:

- (i) Depth of the reservoir and the nature of the overlying rocks.
- (ii) <u>Reservoir characteristics</u> relating to the form of the reservoir, the integrity of its seal, the proportion of gas and the pressure under which it is constrained.
- (iii) <u>Soil properties</u>, particularly the clay content, degree of compaction and moisture content of the soil.
- (iv) <u>Atmospheric variables</u>, particularly atmospheric pressure, ambient temperature and rainfall.

When an area is re-surveyed it is commonly found that the location and intensity of soil gas anomalies has changed somewhat. The reasons for this are not always simple, but commonly conditions under which the later surveys are conducted are different from those pertaining during the original survey. The greatest effects are experienced after substantial rainfall when soil gas concentrations are greatly reduced due to their being flushed out of the near-surface zone. Anomalous areas defined by the original survey are much subdued after rainfall but generally can still be distinguished over depressed background readings.

However, the interpretation of results of soil gas surveys is more concerned the with anomaly to background contrast rather than with the absolute

magnitude of anomalies. Comparison with results obtained from over known reservoirs considerably facilitates interpretation of those obtained from survey areas, but when comparisons with known reservoirs in the same region is not undertaken estimates of the commercial significance of soil gas anomalies cannot be reliably given.

4. OPERATIONS

Field operations, including the analytical facilities, were based at the Old Andado station, which is located some 80km south-west of the edge of the survey area.

The survey was carried out during the period 16-29 November 1986, inclusive. Mobilisation and demobilisation from and to Sydney involved two days. Because there is only one track into the permit area, located near the western boundary, sampling was carried out from a Bell Long Ranger helicopter chartered from Central Australian Helicopters of Alice Springs. Jet fuel was positioned at Old Andado station and at North Bore, situated some 40km southwest of the permit area.

Sampling was carried out at approximately 2km intervals from sites at the sides of dunes about 1 to 2 metres above the general level of the interdune troughs. This permitted easy entry of the probe to the sampling depth of 0.8 to 1.0 metres and provided a good seal around the probe without encountering the cemented horizons that are developed between the dunes.

A total of 625 samples were collected from 20 lines oriented at about 150° , following dune corridors, and spaced at approximately 10km intervals; and one line, oriented at 180°, through the centre of the permit. Surface features, such as overgrown, but still recognisable, 1960's seismic survey lines, scattered play lakes and the Hale, Plenty and Hay Rivers facilitated navigation. However, in the easternmost regions of the permit, and in central areas where the sand dune terrain was monotonous, there were no such navigational aids to assist in spot locations. In these circumstances, sample stations could only be estimated to about ± 5 km. Sample locations are shown on Figure 1.

Soils in the survey area are very poorly developed and the entire area is covered by stabilised longitudinal sand dunes, generally trending about 150°, supporting sparse native grasses and shrubs. Between the dunes, playa lakes are extensively developed and are characterised by the presence of insipient calcrete. There is no development of organic horizons in the sand soils, and there is no reason to suspect the presence of microbially derived alkanes in soil gas samples.

During the survey, the weather was fine to hot, with maximum daily temperatures ranging from 28°C to 50°C. Local thunderstorm activity occurred on the evening of November 16, but falls were patchy and did not impede sampling. Heavy rains fell in the area during July and August, and although the period since then has remained relatively dry, some longterm effect of this rain could still persist.

There are no nearby oil or gas fields over which to carry out orientation surveys to permit calibration and interpretation of results from the present survey.

Considerable operational difficulties were experienced with the helicopter during the survey. These showed up as lack of power and endurance. The survey was interrupted on the 27 November and finally terminated on the 29 November. The cause of the problems is reported to be due to excessive dust intake into the turbine compressor, despite the insertion of dust filters, during take-offs and landings for sample collection.

5. RESULTS

The methane, ethane, propane and butane contents of the soil gas samples are listed in Table 1 and locations are shown on Figure 1.

Over the entire survey area the concentrations of ethane, propane and butane in the soil gas samples are low. Most of the methane concentrations are low to medium with a few higher concentrations being recorded from one line in the centre of the permit.

Inspection of Table 1 indicates the range of methane concentrations to be extreme, from 0.10 to 187.80 ppm, with 95% of the gas samples having concentrations of less than 20 ppm. Ethane concentrations range from 0.02 to 0.74 ppm, propane from 0.01 to 0.19 ppm and butane from 0.01 to 0.30 ppm.

None of the gas samples contain concentrations of ethane, propane or butane that are high enough above the background concentrations to be considered anomalous. There is also no clustering of samples with higher concentrations that could suggest a suppressed geochemical anomaly.

Samples 340 to 363 on Line L contain contain clearly anomalous concentrations of methane. The concentration of ethane, propane and butane in these samples do not show a corresponding increase in value which suggests a portion of the methane may be from a remote source. Some methane may have migrated a considerable distance from gas rich parts of the basin and been trapped in structures developed in this area. Line U was sampled to test the anomalous methane results, however the high methane concentrations were not reproduced. This may be due to the navigational difficulties experienced in the area.

Of the remaining samples only four (276, 278, 470 and 519) have methane concentrations above an anomalous threshold of 25.0 ppm. Elevated levels of methane are present in other samples on Line J near samples 276 and 278 suggesting either a suppressed anomaly or more than one source for the methane. Overall, the results of the present survey are considerably lower than results from previous surveys conducted in nearby permits. This is most likely a consequence of the heavy rains which fell in the area during July and August 1986. The porous nature of the soil allows the gases present to be flushed out more easily than from a more clay rich and well developed soil. The ratios of the alkane concentrations $C_1/C_1+C_2+C_3+C_4$ for the present survey are high and the % wetness is low, suggesting a gas rich source. However, it is possible that the heavier alkanes have been removed preferentially by the heavy rain. This effect has been observed in previous surveys.

6. CONCLUSIONS

The present first pass survey achieved its prime objective of sampling almost all of EP 9 except for a couple of small areas in the southeast of the permit.

The results of the survey indicate one zone of anomalous methane concentrations and one zone of elevated methane concentrations in the central region of the permit. No anomalous zones are evident from the ethane, propane and butane concentrations which are all low.

The relative low concentrations of ethane, propane and butane encountered in the present survey would suggest a gas rich source, however, it is possible that these heavier gases have been removed preferentially by the heavy rain that fell prior to the survey. The very high concentrations of methane in some samples suggest that there may be more than one source for the methane. It is possible that the methane may, in part, be derived from deep within the basin.

Due to the absence of known petroleum fields in the region over which calibration surveys can be carried out, the results of the present survey cannot be interpreted reliably.

The results of the present survey do not indicate the presence of either oil or gas fields of substantial size. It is recommended no further soil gas surveys be carried out in EP 9, but if additional surveys are considered by Base Resources Limited they should be carried out only after a prolonged period of dry weather.

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TABLE 1. Methane, ethane, propane, butane concentrations (ppmv) and derived ratios for soil gas samples

SOIL	GAS ALKANE	SURVEY	EP 9 NO	N 86					% Wetness
REF NO.	LINE	Sample Number	C1	C2	СЗ	C4	C1	C1	C2+C3+C4
							C1+C2+C3+C4	C2	C1+C2+C3+C4
1234567890 10	LINE A	1 2 3 4 5 6 7 8 9 0 11	5.30 3.30 1.90 4.70 4.80 3.30 14.60 9.80 4.80 4.80 6.70	.02 .02 .02 .02 .02 .02 .02 .02 .02 .02	.02 .01 .02 .01 .01 .02 .03 .03 .02 .03	.02 .01 .02 .01 .02 .01 .02 .01 .02 .03	.989 .988 .974 .989 .992 .980 .973 .992 .992 .992 .990 .996 .988	265.00 165.00 95.00 235.00 240.00 165.00 730.00 490.00 240.00 335.00	1.12 1.20 2.56 1.05 .83 1.96 2.65 .82 1.01 1.44 1.18
12345 14567 1890 12234 22345	LINE B	12345 14567 1890 222345	6.50 4.80 5.80 10.40 10.40 7.60 7.30 10.20 9.10 7.50		.02 .01 .01 .03 .03 .05 .02 .03 .03 .03 .03	.03531388374355333 .001388374355333	.989 .982 .986 .993 .988 .988 .981 .984 .991 .989 .991 .989 .991 .989	325.00 240.00 215.00 290.00 210.00 520.00 420.00 380.00 365.00 340.00 345.00 375.00 375.00	1.07 1.84 1.38 1.41 1.23 .94 1.58 1.04 .95 1.07 .87 .92
2278901234567890	LINE C	2278901234567890	7.30 8.60 7.40 9.70 6.10 1.30 3.90 1.90 2.60 .20 .40 .40		.02 .02 .02 .03 .03 .03 .03 .03 .03 .03 .03 .01 .01 .01	.0233142272433411 .007243341 .011.011	.992 .995 .995 .995 .995 .995 .995 .995	390.000 365.000 430.000 370.000 323.333 385.000 43.333 195.000 95.000 100.000 10.000 20.000 20.000	- 76 - 95 - 81 - 54 1 - 02 - 79 5 - 80 - 2 - 26 - 3 - 82 - 85 - 85 - 81 - 79 - 80 - 81 - 79 - 80 - 80 - 80 - 80 - 80 - 80 - 80 - 80
444444444555555555555555555555555555555	LINE D	444444444455555555555555555555555555555	.20 .60 .70 2.510 2.40 2.40 1.70 1.80 1.70 1.80 1.20 2.40 1.70 1.80 1.20 2.20 2.40 1.20 2.20 2.40 1.20 2.20 2.20 2.20 2.20 2.20 2.20 2.2		.01 .022.022.03 .022.022.03 .022.022.03 .022.022.03 .022.022.022.022.022.022.022.022.022.02	0113422412342292200000000000000000000000000000000	.838 938 9622 98723 98723 98723 98723 98723 98723 98723 9873 9873 98753 9853 9853 9853 9853 9854 99546 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 99712 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216 217 218 220 221 222 222 222 222 222 222 222 222	6789012345678901234567890112345678901234555555555555555555555555555555555555	$\begin{array}{c} 10.60\\ 12.80\\ 12.30\\ 9.20\\ 1.9\\ 1.9\\ 1.9\\ 1.9\\ 1.9\\ 1.9\\ 1.9\\ 1.9$.01 .01 .01 .01 .01 .01 .01 .01 .01 .01	.01 .01 .01 .01 .02 .02 .01 .02 .02 .01 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02	99999999999999999999999999999999999999	$\begin{array}{c} 530.00\\ 645.000\\ 445.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 429.000\\ 3000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ 455.000\\ $	$\begin{array}{c} .38\\ .31\\ .32\\ .41\\ .43\\ .57\\ .57\\ .57\\ .57\\ .55\\ .55\\ 1.55\\ 1.55\\ 1.55\\ 1.55\\ 1.55\\ 1.55\\ 1.66\\ .55\\ 1.55\\ 1.64\\ .333\\ .1.61\\ 1.22\\ .55\\ 1.15\\ 1.64\\ .333\\ 1.16\\ 1.75\\ .652\\ 1.17\\ 1.55\\ .55\\ 1.17\\ 1.55\\ .55\\ 1.17\\ 1.55\\ .55\\ 1.17\\ 1.55\\ .55\\ 1.17\\ 1.55\\ .55\\ 1.17\\ 1.55\\ .55\\ 1.17\\ .55\\ .55\\ 1.17\\ .55\\ .55\\ .55\\ .55\\ .55\\ .55\\ .55\\ .5$
260 LINE J 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 277 278 277 278 279 280 281 282 283 284 285 288 289 290	260 261 262 2663 2665 2667 2667 2667 2667 2667 2667 2667	$\begin{array}{c} 14.20\\ 5.80\\ 5.20\\ 5.10\\ 4.30\\ 7.80\\ 7.80\\ 7.80\\ 10.60\\ 12.40\\ 10.90\\ 12.40\\ 12.40\\ 12.40\\ 12.90\\ 12.90\\ 12.90\\ 12.90\\ 12.90\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19.50\\ 19$	00000000000000000000000000000000000000	.06 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	.06 .03 .01 .02 .01 .01 .01 .01 .01 .01 .01 .02 .02 .02 .02 .02 .02 .02 .02 .01 .01 .02 .02 .02 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	99999999999999999999999999999999999999	473.33 290.00 260.00 255.00 275.00 370.00 370.00 370.00 370.00 370.00 460.00 445.000 445.000 1395.000 1445.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 975.000 950.000 950.000	1.05 1.02 .76 .92 1.303 .51 .54 .54 .55 .54 .55 .318 .17 .20 .26 .325 .26 .26 .26 .26 .26 .26 .26 .26

291 292 293 294 295 296 297	LINE K	291 19.50 292 12.70 293 7.80 294 5.00 295 .20 295 .20 296 1.00 297 .10	.02 .03 .02 .02 .02 .01 .02 .01 .02 .01 .02 .01 .02 .03	.03 .99 .01 .99 .01 .99 .05 .97 .04 .74 .03 .92	$\begin{array}{cccc} 6 & 975.00 \\ 6 & 635.00 \\ 5 & 390.00 \\ 3 & 250.00 \\ 1 & 10.00 \\ 6 & 50.00 \\ 0 & 5.00 \end{array}$.41 .39 .51 2.72 25.93 7.41 50.00
298 299 300 301 302 303 304 305		298 .10 299 .10 300 .80 301 .50 302 .50 303 2.80 304 5.40 305 4.10	.02 .01 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .03	.03 .62 .04 .55 .04 .90 .04 .86 .04 .86 .05 .96 .06 .98	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	37.50 44.44 9.09 13.79 13.79 3.11 2.00 2.15
306 307 308 309 310 311 312 313		306 .80 307 3.10 308 5.30 309 .50 310 4.20 311 8.80 312 4.40 313 1.20	.02 .01 .02 .02 .02 .03 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02	.03 .93 .06 .96 .06 .98 .03 .87 .04 .98 .03 .99 .03 .99 .06 .97	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6.98 3.12 2.03 12.28 1.87 .79 2.65
314 315 316 317 318 319 320 321		314 5.60 315 4.60 316 5.40 317 3.10 318 5.40 319 6.40 320 1.10 321 3.30	.02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02 .01 .02 .02	.03 .98 .03 .98 .05 .98 .04 .97 .05 .98 .05 .98 .05 .98 .05 .98	2 280.00 5 230.00 4 270.00 5 155.00 4 270.00 8 320.00 0 55.00 4 145.00	1.75 1.50 1.64 2.52 1.64 1.23 5.98
322 323 324 325 326 327 328 328		322 5.60 323 .90 324 4.70 325 6.50 326 .10 327 6.10 328 5.20 329 5.40	.02 .02 .02 .02 .02 .01 .02 .02 .02 .02 .02 .02 .02 .01 .02 .01	.04 .98 .04 .91 .02 .98 .05 .98 .04 .55 .02 .99 .02 .99	5 330.00 5 330.00 8 45.00 9 235.00 6 325.00 6 5.00 2 305.00 0 260.00	1.49 8.16 1.05 1.37 44.44 .81 .95
330 331 332 333 334 335 336 337		330 8.20 331 6.70 332 5.30 333 3.70 334 19.10 335 8.30 336 7.20 337 8.00	.02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .04 .02 .02 .02 .01	.03 .04 .02 .02 .02 .02 .02 .02 .05 .02 .02 .02 .02 .02 .02	2410.00 3335.00 1265.00 9185.00 4955.00 3415.00 3415.00 3400.00	.85 .874 .93 1.07 .57 .72 .69
338 339 340 341 342 343 344 344		338 7.60 339 7.90 340 38.30 341 78.10 342 59.10 343 57.70 344 69.20	.02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01	.01 .99 .04 .99 .05 .99 .01 .99 .02 .99 .02 .99 .03 .99 .01 .99	5 380.00 5 380.00 8 1915.00 9 3905.00 9 2955.00 9 2885.00 9 3460.00	.52 .88 .23 .05 .08 .10
346 347 348 349 350 351 352		346 107.60 347 90.50 348 55.90 349 80.40 350 71.20 351 90.30 352 76.40	.02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01	.02 .77 .01 1.00 .01 1.00 .01 .99 .01 1.00 .01 .99 .01 1.00 .01 .99	7 4470.00 0 5380.00 0 4525.00 9 2795.00 0 4020.00 9 3560.00 0 4515.00 9 3820.00	.08 .04 .04 .07 .05 .06 .04 .09
353 354 355 356 357 358 359 360		353 119.80 354 187.80 355 112.50 356 116.50 357 106.30 358 128.10 359 96.30 360 137.00	.02 .01 .02 .01 .02 .01 .02 .04 .02 .04 .02 .02 .02 .01 .02 .01	.02 1.00 .01 1.00 .01 1.00 .03 .99 .01 1.00 .02 1.00 .02 .99 .02 1.00	U 5980.00 9390.00 5625.00 5825.00 5315.00 6405.00 6405.00 9 4815.00 0 6850.00	.04 .02 .04 .05 .05 .04 .05 .04
361 362 363 364 365	LINE P	361 130.20 362 142.40 363 166.70 364 3.50 365 5.40	.02 .01 .02 .02 .02 .01 .02 .05 .03 .05	.01 1.00 .02 1.00 .01 1.00 .05 .96 .06 .97	0 4510.00 0 7120.00 0 8335.00 7 175.00 5 180.00	.03 .04 .02 3.31 2.53

33333333333333333333333333333333333333	LINE M	33333333333333333333333333333333333333	83517831345322232312111267298000000000000000000000000000000000000		.083245333312224112111111112322254212213131113434 .0000000000000000000000000000000000		.9999999999999999999999999999999999999	$\begin{array}{c} 440,000\\ 195,000\\ 565,000\\ 565,000\\ 350,000\\ 185,000\\ 175,000\\ 175,000\\ 175,000\\ 175,000\\ 175,000\\ 1360,000\\ 1360,000\\ 1360,000\\ 1360,000\\ 1350,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 1355,000\\ 105,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100,000\\ 100$	221 212622153155544446455060332215740447540235083 221 2126221531555444464550603321157445447540235084701 1 22
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