SUBSURFACE LOWER PALEOZOIC STRATIGRAPHY IN NORTHERN AND CENTRAL ALBERTA

by

D. C. Pugh

O.F. 136:

A report on the subsurface lower paleozoic stratigraphy in northern and central Alberta by D.C. Pugh involving study of gamma-ray and resistivity logs as well as lithological study of drill cuttings from a total of 1,529 wells. The report comprises 16 pages of text, 2 appendices and 13 figures, based on work done during 1970 and 1971.

Blackline copies of the figures and xerox copies of the text and appendices may be obtained at the user's expense by application to Orhan's Reproductions and Photomapping Limited, 907 - 9th Avenue S.W., Calgary, Alberta.

Now published as GSC paper 72-12

CONTENTS

ILLUSTRATIONS

ABSTRACT

Depositional environments in the subsurface of the north-central and northwestern Alberta Plains, resulting from a subsiding Cordilleran geosyncline to the west and the initial subsidence of the Williston Basin to the east, were modified by early movements of the Peace River Arch. Consequently, Cambrian formations in the subsurface consist mainly of a shoreward clastic facies of the limestone and dolomite units that outcrop in the Rocky Mountains and Foothills Belt of Alberta.

Precambrian regolith is preserved in scattered thin patches beneath the Middle Cambrian sediments, the oldest being the Basal sandstone unit which was deposited on an uneven surface with topographic relief increasing to the northwest. Deposition of the overlying Middle Cambrian succession of Mount Whyte, Cathedral, Stephen, Eldon and Pika Formations was partly discontinuous over the relatively young Peace River Arch. The succession changes eastward into the Earlie Formation of eastern Alberta.

The Upper Cambrian Sullivan Formation north of Township 63 is restricted to an embayment southeast of the Peace River Arch. Overlying beds of the Upper division of the Lynx Group, probably more widespread at one time, were truncated with all Cambrian strata on both flanks of the Peace River Arch during the long period of erosion which followed their deposition.

Precambrian and Cambrian erosion surfaces form the base of the pre-Devonian unconformity of northern Alberta. The first major Paleozoic uplift occurred during Middle Devonian time in the Peace River area. Precambrian erosional debris from the higher parts of the Peace River Arch was almost entirely transported into the surrounding seas to create a thick fringe of primary arkosic sands around the Devonian Upper Elk Point carbonate and evaporite beds. Some remnants of the regolith, more than one hundred feet thick, remained on highland slopes prior to their submergence. Some Precambrian summits of the Peace River Arch remained emergent until Late Devonian time.

INTRODUCTION

The regional subsurface study presented in this report is primarily a northward extension of a previously completed study of the subsurface Cambrian system in southern and central Alberta (Pugh, 1971). Because a Cambrian study in northern Alberta would be incomplete if it did not include a description of those sediments that rest on Precambrian rocks where Cambrian strata are absent, it was found necessary also to clarify the "Granite wash" problem. Subsurface lower Paleozoic stratigraphy is illustrated by isopach, lithofacies, subcrop, lap-out (Turk, 1950), and structure contour maps as well as by stratigraphic cross-sections showing correlations based on lithology and geophysical logs of Cambrian and some Middle Devonian rock units flanking the Peace River structural high.

PREVIOUS WORK

The early history of studies of the Cambrian system in Alberta between the years 1921 and 1962 has been summarized by Aitken (1968). The nomenclature used by Aitken for the Rocky Mountains was continued by Pugh (1971) for the subsurface eastward to the Saskatchewan border and north to township 63.

A symposium of papers dealing with the newly discovered productive "Granite wash" of northern Alberta and related environmental and tectonic interpretations was published in the Journal of the Alberta Society of Petroleum Geologists (vol. 4, No. 9, October, 1956).

Suska (1963) published the only detailed work to date on the Cambrian in north-central Alberta, in which "the geology of the Middle Devonian Elk Point Group and older sediments" in the subsurface between townships 60 and 90 and between the 5th and 6th meridians was described. Suska established an eightfold division of Cambrian strata and a threefold subdivision of the Elk Point Group, retained the petroleum industry name "Granite wash" for "basal Paleozoic clastic beds overlying the Precambrian in northern Alberta", and proposed a new name, "Assineau sandstone", for a "sandstone sheet within the Elk Point Group".

Manuscript Received: February 28, 1972
Author's address: Institute of Sedimentary and Petroleum Geology
Geological Survey of Canada
Calgary, Alberta T2L 2A7

PRESENT STUDY AND ACKNOWLEDGMENTS

Subsurface studies during 1970 and 1971 involved establishing a correlation throughout subsurface Cambrian strata based on gamma-ray and resistivity logs and confirming it with a lithological study of the drill cuttings. All wells reported[1] to have been drilled into Cambrian and Precambrian rocks were taken into consideration in order to bring out the most acceptable and practical reassignments of "Granite wash" and to delineate areal limits of the rock units overlying the pre-Devonian unconformity.

A total of 1,529 wells was considered. According to the writer, 82 of these, previously reported[1] to have penetrated "Cambrian" or "Granite wash", contain no rocks of Cambrian or Precambrian age. The remaining 1,447 wells, which include 8 drilled in British Columbia, are listed in Appendix II. In addition, well information from a previous study (Pugh, 1971) in townships 60-63 has been incorporated into the maps of this report to provide continuity between the two sets of structure contours and isopachs south and north of township 63.

STRATIGRAPHY

DESCRIPTION OF FORMATIONS

Subsurface Cambrian strata within the area covered by this report are largely shoreward facies composed predominantly of limestone and dolomite rock units. These units were established and described by Aitken (1968) in the Rocky Mountains and Foothills belt to the southwest. For a better understanding of the regional distribution and lithology of these formations, the reader is referred to Pugh (1971) and Aitken (1968).

It was considered unnecessary and impractical to include detailed numerical designations of rock colours in a regional study of this nature. The accurate descriptions of the very wide variety of colours encountered in the subsurface Cambrian rocks will lie within the scope of future more detailed and localized studies. For the present report, in order to help in differentiating between Cambrian and Devonian beds, it will suffice to include one colour designation: Cambrian reds and pinks are generally purer (Munsell Hue 5R)[2], as distinct from the overlying Devonian Lower Elk Point red beds, which are characteristically "orange-red" (Munsell Hue 10R)[2].

"Granite wash"

During the Alberta Society of Petroleum Geologists' Granite Wash symposium, Baillie (1956) outlined what geologists should know about the "Granite wash", or the basal Paleozoic sand, "underlain by the predominantly granite Precambrian surface", before any wells were drilled in northern Alberta. Baillie described a "coarse regolith, or mantle, of the products of erosion

---

1 Alberta Oil and Gas Conservation Board, 1949-1971.

2 From the Rock Colour Chart of the Geological Society of America, reprint 1970.

which probably was present over much of this land surface". According to Baillie, this mantle was subsequently reworked under marine conditions to form beach sands and offshore bars, and he considered the possibility within this second phase of more first phase "Granite wash" forming in proximity to topographic highs.

In the early years of drilling in northern Alberta, the term "Granite wash" was probably as good as any other to refer to the productive "basal Paleozoic sandstones". Whatever name was used, it is not surprising that with such a loose definition it has long since degenerated into a waste basket into which tens of thousands of borehole feet of section have been thrown, both in published and unpublished records of geological workers. Due probably to lack of a published regional study, beds reported as "Granite wash" throughout the years are found to include a wide variety of beds ranging from the spreads of igneous detritus (referred to as Precambrian regolith in this report), to well-worked sands and even carbonates of the Middle and Upper Cambrian and both arkosic and arenitic sands and shales of Middle and Upper Devonian. Now that we have ample drilling control throughout northern Alberta, the available data allow the confusion of the "wash" to be superseded by a systematic assignment of the various basal Paleozoic sands. The present study was primarily concerned with delineating Cambrian strata. As a by-product of the results of this study, the examination of all available "basal Paleozoic sandstone" samples, aided by mechanical logs, has revealed a primary subdivision of all coarse clastic beds generally assigned to "Granite wash" into: 1) drill cuttings of predominantly igneous material in various stages of decomposition; and 2) sandstones with very little or no recognizable igneous fragments. There appears, from sample examination, to be no gradation between the two, although the possibility of a mixture of the two cannot be entirely disregarded.

This primary subdivision has permitted the allocation of "Granite wash" either to Precambrian regolith (as defined below) or to a clastic facies homotaxial with one or other of the Middle Devonian units. This forms the basis of the maps accompanying this report and, it is hoped, will lead other workers into more detailed studies of sediments around the Peace River Arch and will provide a firm foundation for more rewarding and systematic research in the Middle Devonian of northern Alberta.

Clearly, the term "Granite wash", for all its initial usefulness has long ago served its purpose. Therefore, it is proposed to discard this name in favour of correct assignment of the beds to regolith or Devonian clastic facies. In order to facilitate the 'picking' of the basal Paleozoic marker, the reader is referred to stratigraphic cross-sections W-V (Fig. 12) and N-F (Fig. 13) and the lap-out map (Fig. 11) which shows the rock units immediately overlying the pre-Devonian unconformity and includes locations of all sub-Devonian drilling to date.

Precambrian regolith (Fig. 10)

The subdivision of the "Granite wash" into igneous detritus and sandstones without igneous material, as described above, provides the basis for the reassignment of the "wash". Material found to be entirely of igneous origin is assigned to "Precambrian regolith". Regolith, therefore, as used in this report, refers to essentially in situ material in various stages of weathering and decomposition, but not excluding that which may have moved a short distance while still retaining the features of the parent rock. Without detailed study of a cored section it will be difficult to subdivide the regolith in any given locality, but we may consider a general subdivision of the mantle into two main categories: (a) the older part, probably deposited in channels,

valleys and other topographic lows, remnants of which are found buried beneath Cambrian and possibly even some Middle Devonian sediments; and (b) that part which formed later on the flanks of topographic highs as the area became progressively submerged.

These categories are compatible with the findings of the present study, and also are in fair agreement with Baillie's expectations (1956). Figure 10 (this report) illustrates the history of submergence of the Precambrian surface and shows assumed isopachs of the regolith. Regolith of category (a) beneath Cambrian beds is rare; always less than 50 feet thick and often less than 10 feet thick. Within the limits of area A (Fig. 10), which was first to be submerged beneath the Middle Devonian sea, regolith is less rare, and in some places thicker than 50 feet. The occurrences are mostly scattered but several in the northwest lie very close to the shoreline of area A, notably around the Rainbow topographic high in townships 105-107, ranges 4 to 8 W 6th meridian. Within the limits of area B (Fig. 10), submerged by the end of Lower Elk Point deposition, regolith is scattered and less than 50 feet thick. More than half of the recorded deposits or remnants lie over the Tathlina topographic high north of township 117. By far the most extensive and thickest spreads of regolith are found within the limits of area C (Fig. 10), the last land area to be submerged by Middle Devonian marine transgression with the exception of at least a dozen "islands", or summits, that remained uncovered, some into Late Devonian time. Regolith is rarely found on these "islands", but is widespread between them and is, in places, over 100 feet thick. As defined above, all of the regolith material is of igneous rock in various stages of weathering and decomposition with minimum transportation or working involved. Therefore, it is to be expected that most of the regolith within area C falls into category (b), i.e. formed on highland slopes of the Peace River landmass, prior to submergence.

In total, therefore, the regolith may have consisted of weathered igneous rock strictly in situ, fans of eroded igneous material on highland slopes, and gravel spreads of partly decomposed parent rock lying in channels and other depressions. The regolith is what remained in place as part of the pre-submerged landscape. It belongs much more to that ancient landscape, than that which did not remain, but which was washed into the surrounding seas in large quantities to form the nearshore clastic facies fringe of an evaporitic basin. For this reason, and for the practical purpose of mapping, the regolith is included in "Precambrian". The elevations for the structure contour map of the Precambrian surface (Fig. 2) are, therefore, at the top of the regolith where present[1].

Reworked sands

Reworked deposits of "Granite wash" which do not fall into the category of Precambrian regolith are mainly sandstones which occur interfingering with strata of Middle Devonian age, and are discussed under that heading.

As already stated, reported occurrences of "Granite wash" have included also a variety of beds of Cambrian and Upper Devonian ages. These beds are included without further separate discussion under their respective formational headings.

---

[1] Note: the Precambrian map includes 3,500-foot structural anomalies in the Steen River area, anomalies attributed to impact by Carrigy and Short (1968).

Cambrian

Basal sandstone unit (Fig. 3)

The Basal sandstone unit in northern Alberta is found in the subsurface in two areas separated by the Peace River structural high. Southeast of the Peace River Arch, these basal Cambrian sandstones are generally very coarse grained, rounded to subrounded, poorly sorted and consist of colourless to yellow and rarely pink quartz. Kaolin and glauconite are rare. Porosity is excellent. A notable exception to the above description is in the area of Little Smoky River where the sandstone is white to pink or mauve, medium to fine grained, and in part quartzitic. A similar exception in extreme southeastern Alberta was noted by Pugh (1971) where pink and red, fine- to very fine-grained sandstones lie close to an area of non-deposition over a Precambrian topographic high. West of Little Smoky River, evidence of non-deposition is preserved in Triad C & E Debolt 11-11-68-3 W6 well where Mount Whyte siltstones lie directly on Precambrian regolith.

Northwest of the Peace River Arch, the Basal sandstone unit is a discontinuous deposit of both medium- and coarse-grained sandstones of colourless to yellow and pink, poorly sorted, subrounded quartz grains. The exception here is the most northeasterly occurrence which is farthest from the Peace River Arch. At that locality a deposit of very coarse-grained yellowish, subrounded quartz sandstone is 11 feet thick.

The Basal sandstone unit everywhere lies unconformably on Precambrian igneous and metamorphic rocks and is overlain by the red and purple siltstone and shale of the Mount Whyte Formation. This formation is easily distinguishable from the Basal sandstone unit by its distinctly higher gamma-ray activity. In eastern Alberta, the Basal sandstone unit is overlain by the mainly glauconitic siltstone, sandstone and shale of the Earlie Formation.

Beyond the eroded edges of the Mount Whyte Formation, or of the Earlie Formation to the east, the Basal sandstone forms part of the sub-Devonian erosion surface. In a very narrow band between townships 67 and 74 from Saskatchewan to Grande Prairie and discontinuously between townships 85 and 105 close to the British Columbian border, it is overlain by various formations of the Elk Point Group (*see* Fig. 11). In eastern Alberta, drill cuttings must be used to distinguish basal Cambrian sandstones from the overlying Devonian basal red beds, which comprise unconsolidated colourless to pale pink, medium to coarse, rounded, frosted quartz sands. Southwest of Lesser Slave Lake, drill sample examination is again necessary to distinguish the Basal sandstone unit from the overlying very coarse-grained, very poorly sorted, angular quartz-feldspar sandstone facies of the Contact Rapids Formation, called Assineau Sandstone by Suska (1963). By mechanical log alone it is not possible to pick a reliable top of the Basal sandstone unit where it is overlain by Devonian sandstones but, because of the very different characteristics of the basal Cambrian sands and various basal Devonian sands, there is no problem in differentiation wherever drill cuttings or core samples are available.

Thickness of the Basal sandstone unit is generally less than 100 feet in the area covered by this report, except in eastern Alberta where it thickens to more than 200 feet.

The informal designation of Basal sandstone unit is retained because it is not possible, within the scope of this study, to establish a relationship between the basal Cambrian sandstone in north-central Alberta and a Rocky Mountains unit, e.g. the Gog Group (*see* Aitken, 1968).

The Basal sandstone unit is the basal part of unit (a) of Suska (1963) (*see* Fig. 12, this report).

Mount Whyte-Cathedral-Stephen-Eldon-Pika Formations (Fig. 4)

The consideration together of the Mount Whyte, Cathedral, Stephen, Eldon and Pika Formations follows directly from the study of these units in the subsurface of southern Alberta and their resulting correlation into one single unit in eastern Alberta called Earlie Formation (Pugh, 1971). In northern Alberta, all five formations are found in the areas northwest and southeast of the Peace River structural high. Lithology of each unit varies little from one area to the other and thicknesses are equally compatible. Taken together, the five units thicken from zero at the sharply truncated edges on the flanks of the structure, to 500 feet in little more than 20 miles. Erosional edges of all five units are included on the subcrop map (*see* Fig. 10).

The Mount Whyte, Cathedral and Stephen Formations, taken together, comprise all but the basal part of unit (a) of Suska (1963). The Eldon Formation coincides with Suska's units (b) and (c) taken together. The Pika Formation is the interval covered by Suska's units (d) and (e), (*see* Fig. 12, this report).

Mount Whyte Formation

The lithology of the Mount Whyte Formation changes from dense limestones, in part silty and argillaceous, interbedded with subordinate amounts of grey and green shales, calcareous siltstones and very fine-grained sandstones in the Rocky Mountain outcrops to varicoloured shales with interbedded glauconitic and very micaceous siltstones and, more rarely, sandstones in the subsurface of the Plains (Aitken, 1968; Pugh, 1971).

Southeast of the Peace River Arch, the Mount Whyte Formation is characterized mainly by coarse-grained siltstone, generally red to pink and purple, in some places to the east green or white, and everywhere moderately to to extremely glauconitic. Interbedded with the siltstone are minor amounts of shale that are mainly red to dark red in the western part to purple and green in the east; and sandstone that is pink, white, red or green, fine grained, glauconitic and in places quartzitic. Less frequently found, but also a characteristic ingredient of Mount Whyte beds, are extremely micaceous green siltstones or shales.

Very similar beds, assigned to the Mount Whyte Formation northwest of the 'Arch', consist of the characteristic red, purple and pink, coarse-grained siltstones, but these are generally poorly sorted, argillaceous, and in part sandy and only slightly glauconitic. Minor amounts of red shale and less frequently red, fine-grained sandstone are found interbedded with the siltstones.

Within the area covered by this report, Mount Whyte beds reach a maximum recorded thickness of 75 feet northwest of the 'Arch' and 90 feet in the south. Eastward from the 5th meridian beyond the depositional limit of the overlying carbonate beds or equivalent facies of the Cathedral Formation, the Mount Whyte Formation becomes indistinguishable from the Stephen Formation above as together they pass into the Earlie Formation.

Cathedral Formation (Fig. 5)

Dolomite, quartz and glauconite are the characteristic minerals of the Cathedral Formation and its equivalents in the areas both southeast and northwest of the Peace River Arch.

Cathedral dolomite in the area of Simonette River southeast of Grande Prairie is pale brown and finely crystalline but, at one well location, 11-6-67-26 W5, the unit is composed entirely of pale brown, dense, microcrystalline limestone. In the Swan Hills area, Cathedral dolomite is sandy and glauconitic, and from there eastward dolomite appears as cement in very glauconitic sandstone and siltstone. Northwest of the 'Arch', Cathedral dolomite is mainly silicified and very glauconitic. It grades from pale brown and finely crystalline dolomite to pale yellow, pale green, and pale buff 'chert' and, in part, appears to contain as much as 50 per cent glauconite.

Cathedral sandstone varies little throughout, being characteristically white to pale pink, fine grained, and well sorted. However, southeast of the 'Arch' there is a noticeable change, particularly in grain size, from non-glauconitic medium-grained sandstone in the west (e.g. near Valleyview), to very glauconitic, very fine sandstone and coarse siltstone to the east (Swan Hills to Athabasca town). In addition, sandstone of pale green and pale purple colours occur in the area between Valleyview and Swan Hills, where also the sandstone is locally quartzitic. In the Cathedral Formation northwest of the 'Arch', silica-cement is common in otherwise typical white to pale pink, fine-grained sandstone. In the most northeasterly part (Chinchaga River area, *see* Fig. 5), the whole unit is composed of sandstone, but southwestward the sandstone is found interbedded with an increasing ratio of the silicified glauconitic dolomite already described.

Within the study area, beds assigned to Cathedral Formation are everywhere less than 100 feet thick. In the southern part, the unit thickens westward to a maximum recorded 94 feet less than 10 miles from the eroded edge on the flank of the 'Arch'. On the northwest flank the unit thickens southwesterly to a maximum recorded 84 feet.

Lithological evidence strongly suggests shoreward facies in a general northeasterly direction, which agrees with the regional pattern of Middle Cambrian deposition (*see* Aitken, 1968; Pugh, 1971). In the area northwest of the 'Arch' where data is sparse, isopachs of both Cathedral and Eldon Formations (*see* Figs. 5, 6) were carefully drawn to allow for uniform thickening of these units to the southwest and to reach maximum agreement with all available information, taking into consideration the other superimposed maps of this report. The resulting maps illustrate clearly the very sharp truncation of Cathedral and Eldon beds on the northwest flank of the 'Arch' that is strongly indicated on both flanks of the Peace River by the Middle Cambrian isopachs (*see* Fig. 4). This truncation of Middle Cambrian beds clearly indicates post-Middle Cambrian uplift and erosion in the Peace River area. However, as noted above, in the case of the Cathedral Formation in the southern part of the region, there is an increase in sand grain size westward, or more precisely towards the area near Valleyview. This may indicate a source area of these Cathedral sands north or west of Valleyview, an area topographically high enough at the time of Cathedral deposition to supply limited quantities of well-sorted quartz sands, presumably from weathered Precambrian rocks; some re-worked basal Cambrian sandstone may be included. On this assumption is based the reconstructed shoreline and lithofacies boundaries shown on figure 5.

Stephen Formation

The Stephen Formation in the mountains consists of shale and thin-bedded, flaggy limestone separating the massive Cathedral and Eldon carbonates (Aitken, 1968). Pugh (1971) found that the lithology changes in the subsurface of the Plains to predominantly green and purple micaceous shale with minor amounts of glauconitic and micaceous siltstone in some sections, but noted an exception in the extreme northwest where the Stephen Formation consists entirely of light green to white, coarse-grained siltstones, variably glauconitic and moderately to exceedingly micaceous.

This exception becomes the rule for Stephen beds north of township 66 and east of Little Smoky River. Northward within this area the Stephen siltstone changes from mainly pale green and white with some pink and pale purple to mainly pale purple, pink and red as grain size increases from coarse silt to very fine sand in the direction of Lesser Slave Lake. In contrast to this, Stephen beds west of Little Smoky River are predominantly shale; the siltstone becoming progressively less and finally disappearing as the shale colour changes westward from dark red and dark green to green, blue-green and purple close to the 6th meridian.

Northwest of the Peace River Arch, shale predominates in the Stephen Formation and follows closely the description of Stephen beds in the subsurface of southern Alberta, namely green and red micaceous shale with minor amounts of micaceous siltstone. Shale colours vary northward to green, blue-green, purple and brown.

Recorded thicknesses of the Stephen Formation within the report area do not exceed 50 feet in the northwest part and reach a maximum of 80 feet in the southern part. Eastward from 5th meridian, as stated earlier in this report, the Stephen Formation becomes indistinguishable from the Mount Whyte Formation as together they become part of the Earlie Formation beyond the depositional limit of the intervening Cathedral Formation or its equivalent facies.

A review of the data recorded so far for Stephen beds shows little indication that this unit was not originally continuous across what is now the Peace River structural high. The above-noted small increase in grain size northward from Central Alberta, if indicative of shoreline facies, agrees with the regional picture of Cambrian land area to the northeast. In addition, the appearance of sand-size grains towards Lesser Slave Lake provides possible evidence of a minor localized source area, evidence which, although weak in itself, assumes significance when taken in conjunction with similar information from the rock units below and above the Stephen Formation.

Eldon Formation (Fig. 6)

The Eldon Formation of the Rocky Mountains consists entirely of limestone and derived dolomite as described by Aitken (1968) who extended this unit to the westernmost wells in the Plains subsurface. Aitken recognized that "the shoreward facies change --- at some levels and in some areas is a direct change from carbonates to sandstones, probably through intervening sandy dolomites". Pugh (1971) found this relationship to hold true in the subsurface as far as central Alberta is concerned, stating that "Eldon carbonates change northwestward into red sandstones and siltstones with some dolomite, and northeastward into glauconitic siltstone and sandstone with local, thin glauconitic dolomite beds".

The present study shows that north of township 63 and east of range 10 W5th the glauconitic siltstone facies continues northward as a fine- and very fine-grained, porous, quartzose sandstone approaching the eroded edge. West of range 10, however, Eldon beds consist of two distinct members, a lower

porous sandstone and an upper dolomite. In the eastern part, sandy dolomite to dolomitic sandstone commonly forms transitional beds between the two members. Westward, the contact in most sections is marked by 10 to 20 feet of dark green, dark red, or purple, silty to sandy micaceous shale, and the lower beds of the upper dolomite member may be sandy.

The lower sandstone is characteristically white with some pink to red and pale purple colouring. It is quartzose and generally porous, although in places the pores may be filled with silica or dolomite cement. Thin beds of dark red shale are common. From west and southwest to east, grain size decreases generally from medium, angular to subrounded, and poorly sorted near Valleyview and south of Little Smoky River town through fine, subangular and poorly sorted over most of the area to very fine north of Swan Hills. The average thickness of the Eldon lower sandstone member is about 150 feet, the member being thicker in the west than in the east by more than 50 feet. To the west and north (*see* Fig. 6) beyond the eroded edge of the upper dolomite, the lower sandstone is sharply truncated.

The upper dolomite member has a maximum recorded thickness of slightly over 100 feet, areas of greatest thickness not necessarily coincident with the areas of greatest overall thickness of the Eldon Formation. Figure 6 shows the limits of the upper dolomite, eroded along the northern edge beyond the truncated limit of the Pika Formation, and also indicates the colour boundary between brown to the south and pale buff and pink to the north. The Eldon dolomite there is micro- to finely crystalline and is rarely porous.

The maximum recorded thickness of the Eldon Formation southeast of the Peace River Arch is 266 feet.

Northwest of the 'Arch', beds assigned to the Eldon Formation reach a recorded maximum thickness of 292 feet. They thin by deposition northeastward and beyond the eroded limit of the overlying Pika Formation they are sharply truncated, particularly so to the southeast on the flanks of the 'Arch'. In the southern part of this area straddling the British Columbia border three members of the Eldon Formation are recognized: a relatively thin lower dolomite; a middle dolomitic siltstone; and an upper dolomite. Northwestward this subdivision cannot be recognized and the section consists of mixed silty and siliceous dolomites. The lower member, about 30 feet thick, consists entirely of pale brown-grey, finely crystalline dolomite but may include some silty beds. The middle member is a predominantly dolomitic siltstone, grading to silty dolomite, varicoloured from pale buff to pink, pale purple and white, and containing minor amounts of red and green shale. Some beds of the siltstone member in more easterly sections may be highly silicified and slightly glauconitic. The upper member, very closely resembling its counterpart southeast of the 'Arch', consists of pale buff, pink and pale purple, very finely crystalline dolomite with minor variation northward to microcrystalline dolomite which is in part silicified. Middle and upper members have similar recorded maximum thicknesses of about 130 feet.

The isopachs for the Eldon Formation in the area of limited data northwest of the 'Arch' are carefully drawn to be in maximum agreement with all available information as they were for the Cathedral Formation (*see* Fig. 5). Also, the Eldon Formation, like the Cathedral, shows very pronounced truncation of beds on both sides of the structural high which indicates post-Middle Cambrian uplift and erosion in the Peace River area while, on the other hand, southeast of the 'Arch', the westward increase of grain size of Eldon sands points to a western source in the general area of Grande Prairie. In the case of the Eldon, in contrast to the Cathedral, the sands are in very much larger volume, are a little coarser and are poorly sorted.

To satisfy these conditions some peninsulas or islands are postulated to have extended southwestward from the regional Cambrian shoreline to the northeast. Certainly no significant or sudden uplift of the Precambrian granite and metamorphic rocks is suggested by the surrounding sediments, but rather a fairly low topography, high enough to provide well-weathered, mostly feldspar-free, quartz sand. This was transported by southeasterly drainage into the adjoining bay. A reconstructed shoreline is shown on figure 6.

Pika Formation (Fig. 7)

The Pika Formation in the subsurface of north-central Alberta follows the same regional characteristic pattern of uniform depositional thickness, and comprises a lower shale unit and an upper carbonate unit (*see* Pugh, 1971). The lower unit throughout this area north of township 63 consists almost entirely of splintery micaceous shale varying in colour from greens to purples, reds and brown. The upper part of the shale member in some sections includes silty beds and rare, thin beds of micaceous siltstone. Lithofacies boundaries within the upper carbonate member (*see* Fig. 7) illustrate the northwesterly change from pale yellow aphanitic limestone, characteristic of Pika Formation to the south, through brown oolitic limestone, brown and pale brown, finely crystalline dolomite, to pink, red, and buff, very finely and microcrystalline dolomite. In this north-central part of Alberta, the Pika Formation shows a gentle westerly, northerly and easterly thinning from 300 to 200 feet and then a rapid thinning to zero beyond the eroded edge of the overlying Sullivan Formation.

In the Plains, at the contact of the Pika Formation with the overlying Sullivan Formation, Aitken (1968) indicated a Middle Cambrian-Upper Cambrian hiatus. Support for this view was given by Pugh (1971) who showed, in eastern Alberta, an abrupt change at the contact from limestone below to micaceous shale above. At the same time it was pointed out that the remarkably uniform thickness of the overlying basal shale member of the Deadwood Formation indicated that "basal Deadwood sediments were deposited on a flat surface unsculptured by erosion and undisturbed by significant tectonic changes". North of township 63, the top of the Pika Formation is marked by an abrupt change from dolomite to shale or siltstone and, although uniform thickness of the overlying Sullivan Formation is not seen here, there is no evidence to suggest any significant erosional break at the Pika-Sullivan contact. Therefore, it is reasonable to assume that the above-noted thinning of the Pika Formation from 300 to 200 feet below the Sullivan beds is a depositional feature. This thinning is to the west, north and east, which indicates that this part of the Pika basin was an embayment with open sea to the south. However, in the northwest, the area of the present Peace River Arch could have been slightly submerged, with or without islands, or equally well it may have been completely emergent and directly connected to the main land area to the northeast. It is inferred from the absence of coarse clastics in Pika sediments north of township 63 that whatever part was emergent had very low relief.

Very few data were obtained from possible Pika sediments at the British Columbia border. One section close to the border at Imperial HB Union Paddy No. 1 well has 133 feet of beds, which closely resemble Pika beds, overlying the Eldon Formation. A lower unit of red and green micaceous shale is overlain by pale grey to pale green dolomitic, micaceous and partly glauconitic siltstone, and these in turn are overlain by Ernestina Lake red beds and anhydrite at the base of the Middle Devonian Elk Point group (*see* cross-section W-V, Fig. 12). Until further studies are made of Cambrian strata in northeastern British Columbia, it may be assumed only tentatively that Pika Formation is present, if not actually in northwestern Alberta, then close to the British Columbia border, and that it is similar lithologically to Pika beds southeast of the 'Arch'. An assumed erosional edge has been drawn (*see* Fig. 7) to match the general pattern of truncation in that area.

In order to complete the cartographic picture of the Pika Formation in figure 7, an assumed edge of the Peace River ridge has been drawn at what may originally have been the zero isopach of the Pika Formation.

Earlie Formation (Fig. 4)

The name Earlie Formation was proposed by Pugh (1971) for "the sequence of interbedded, glauconitic siltstones and fine-grained sandstones and shales that overlies the Basal sandstone unit and is, in turn, overlain by the siltstone and shale facies of the Deadwood Formation in the subsurface of eastern Alberta". The Earlie Formation is, in effect, equivalent to the succession Mount Whyte-Cathedral-Stephen-Eldon-Pika Formations east of the depositional limit of recognizable Cathedral and Eldon Formations or their equivalents. Whenever an equivalent of one of the carbonate units is traceable into the Earlie Formation, it is there called a marker, viz. Cathedral, Eldon and Pika Markers. In this report (*see* Fig. 4) the isopachs of the Earlie Formation have been continued to the northern eroded edge. The 'structural arch' or ridge reflected in Middle Cambrian isopachs to the south (*see* Pugh, 1971, Fig. 4) clearly continues north between ranges 6 and 8, W4th meridian. Northward, little change occurs in the lithology of the Earlie Formation except in the Lac La Biche area where there is a decrease in the amount of shale with the appearance of medium- to coarse-grained, subrounded, quartz sandstone, indicative of a shoreward facies and northerly source area.

Sullivan and Deadwood Formations (Fig. 8)

In the Plains, subsurface strata, equivalent in lithology and age to the Upper Cambrian Sullivan Formation of the mountains, were recognized by Aitken (1968) and given the informal designation 'Upper fine clastic unit'. This unit in eastern Alberta was found by Pugh (1971) to be the same as the Deadwood Formation. He recommended restricted use of the name 'Deadwood Formation' "to Upper Cambrian strata that comprise the succession of largely fine-grained clastic rocks between the top of the Pika Formation at the Middle Cambrian - Upper Cambrian boundary and the Cambrian - Ordovician unconformity". Aitken reported the Sullivan to be overlain conformably by the Upper division of the Lynx Group, the contact being interbedded and gradational. Pugh (1971) showed that the Deadwood Formation was truncated and, in part, overlain unconformably by beds homotaxial with the Upper Lynx and drew an arbitrary boundary between the Deadwood and Sullivan Formations (shown also on Fig. 8, this report) "west of the region where any of the markers (a) to (h) (of the Deadwood Formation) have been traced, and this coincides approximately with the 250-foot isopach and with the transition westward into typical Sullivan lithology with minor oolites and dolomites".

In this report, the arbitrary Sullivan-Deadwood boundary is retained for practical mapping purposes and, therefore, the beds north of township 60 and west of about range 4 W of 5th meridian are assigned to the Sullivan Formation. These strata, however, are entirely clastic with some increase of grain size westwards, and are considered to be a shoreward facies of the Sullivan. Predominantly, these beds consist of coarse-grained, dolomitic, glauconitic siltstone with a basal green, red and purple micaceous splintery shale in the east; some very fine-grained, glauconitic sandstone locally in the west; and some interbedded glauconitic, silty dolomite in the area southwest of Swan Hills. The siltstone is increasingly glauconitic westward and is white except near the eroded edge where the colour ranges from pale buff to pink and pale purple, often speckled and mottled.

The thickness of the Sullivan beds ranges from zero to 250 feet. Areas of local thickening are not found to be coincident with thin areas in the overlying Upper Lynx (*see* Figs. 8, 9), rather there is tendency for thicker areas in both units to be coincident, ruling out the possibility of big errors in the placing of the Sullivan-Upper Lynx contact. Assuming that this upper contact is conformable (Aitken, 1968) and that there is no significant erosional break at the Pika-Sullivan contact below (already discussed), it follows that the irregular Sullivan isopach pattern is a depositional feature. The isopachs, therefore, in reflecting the configuration of the sea floor, indicate an embayment, or even a 'microbasin' into which fine clastic material was transported, probably from several directions but in greater quantities from the west.

The isopachs of the Sullivan Formation further show that, in contrast to the underlying Middle Cambrian units, truncation beyond the limits of overlying strata is very much less to the west than to the east, the beds to the west thinning to about 10 feet or less at the limit of the Upper Lynx. Thus, it is probable that the Sullivan shoreline was very close to the present eroded edge in the west and was increasingly divergent from that edge eastward. Farther east, then, the northern Deadwood shoreline should lie well north of the present deeply truncated edge, a position compatible with the previous findings (Pugh, 1971) that "north of the Meadow Lake escarpment as much as 1,000 feet of Deadwood sediments were removed by pre-Devonian erosion".

There is no evidence from this study of Upper Cambrian sedimentation in northwestern Alberta. Therefore, to the northwest of the Sullivan shoreline there may have existed a broad land area probably continuous with the regional northeastern land mass. For many miles from the assumed shoreline (*see* Fig. 8), Middle Cambrian beds may have been exposed, possibly for the first time, and the Sullivan sediments could have been derived from both well-weathered Precambrian rocks and reworked Middle Cambrian sediments, but in both cases in relatively small amounts. The land area, therefore, must necessarily have been of very low relief.

The Sullivan Formation comprises the whole of unit (f) and part of unit (g) of Suska (1963) (*see* Fig. 12, this report).

Lynx Group (Upper division) (Fig. 9)

The formations of the Upper division of the Lynx Group, as used by Aitken (1968), are not recognizable east of the Main Ranges of the Rocky Mountains and this upper division is referred to informally as "Upper Lynx". Aitken correlated the Upper Lynx with beds at the top of the Cambrian succession in the subsurface in Kaybob No. 5-35 (5-35-62-18, W5th) well and other wells to the south and described these beds overlying the Sullivan Formation in the subsurface as mainly 'crystalline' dolomites, with limestone occurring in some wells.

The Upper Lynx extends into the area of this study only as far as township 67 and represents only the truncated most northerly lobe of this unit. The characteristic lithology continues to the eroded edge and shows the same west-to-east increase in fine clastic content as reported farther south (*see* Pugh, 1971, Fig. 10). Pale buff to pink, silty, locally glauconitic, micro- to finely crystalline dolomite becomes interbedded eastward at first with some pink and pale purple dolomitic and micaceous siltstone, then with increasing amounts of calcareous siltstone and creamy white microcrystalline, often silty limestone. In some wells there is a marked increase in calcite, and a decrease in dolomite downward in the section. Some sections have a basal coarse-grained siltstone, and this is differentiated from the underlying coarse-grained dolomitic siltstone of the Sullivan Formation by being very calcareous and grading to very silty limestone.

Upper Lynx beds thin rapidly and irregularly, particularly toward the east and, because the upper surface of this unit forms part of the sub-Devonian unconformity, much of the thinning is attributable to erosion. It appears that Upper Lynx strata may have been more extensive than the underlying Sullivan Formation, at least toward the northwest. If there was land to the northwest, it must have been flat, because there is no evidence of any appreciable erosional debris in the Upper Lynx sediments. To the east the steeply truncated Upper Lynx beds form part of the deeply sculptured pre-Devonian landscape north of the Meadow Lake Escarpment (*see* Pugh, 1971).

The Upper Lynx comprises part of unit (g) and the whole of unit (h) of Suska (1963) (*see* Fig. 12, this report).

Middle Devonian

Formational assignments are by the writer and follow closely the published work of Grayston, Sherwin and Allan (1964) and Belyea (1971) (*see* diagrammatic cross-section, Fig. 1, this report).

Clastic Facies

The reassignment of what has commonly been called "Granite wash", as discussed elsewhere in this report, is made on the basis of a subdivision of the "wash" into igneous detritus and sandstones with very little or no recognizable igneous fragments (*see* pp. 2-3)..

These mainly arkosic sandstones without igneous material are found to be homotaxial with certain Middle Devonian rock units, the oldest of which are the Chinchaga and Contact Rapids Formations. The Keg River Formation also has a very wide fringe of coarse clastic facies around the Peace River Arch, but the Muskeg Formation, although it includes some shale and sandstone close to the depositional edge around the "Arch', does not appear to have a defined clastic facies.

The lap-out map (Fig. 11) illustrates the areal distribution of the Middle Devonian clastic facies which immediately overlies the pre-Devonian unconformity and which will aid the reader in identifying the "basal Paleozoic sandstones".

DEPOSITIONAL AND TECTONIC INTERPRETATION

The subsurface Cambrian system of Alberta developed under the environmental influence of three major tectonic features: Cordilleran geosyncline to the west; initial subsidence of the Williston Basin to the east; and initial rising of the Peace River Arch in the north.

During Early Cambrian time, deposition had been restricted to a trough roughly coincident with the present day Rocky Mountains. Middle Cambrian seas transgressed beyond the limits of the western geosyncline and extended into Saskatchewan (*see* van Hees, 1964) and northern Alberta. The eastern shoreline of that advancing sea is marked by coarse basal sands apparently derived from the Canadian Shield to the northeast. These basal sands became progressively younger eastward. Whatever regolith had covered the Precambrian surface was reworked into the basal sands, except for rare thin patches preserved in situ. Isopachs of the Basal sandstone unit (*see* Fig. 3) reflect an increasingly uneven surface of the Precambrian northwestward, and indicate that northwestern Alberta

was at first only partly and irregularly submerged. The area of the present day Peace River country may or may not have remained emergent, but whatever basal sands, if any, were deposited there, were subsequently completely removed by erosion.

A cyclic depositional pattern of carbonate and detrital facies during Middle Cambrian time (*see* "tilting craton theory" Aitken, 1966) extended into north-central and northwestern Alberta (*see* Figs. 5, 6, 7). At the same time, the accumulation of Middle Cambrian clastics in a new sedimentary basin in eastern Alberta (*see* Pugh, 1971) extended as far north as Lac La Biche and Cold Lake (*see* Fig. 4). Some gradual rising of the Peace River area as early as Middle Cambrian time provided a source of quartz sands in the Cathedral and Eldon sediments (*see* Figs. 5, 6), and a Peace River ridge of very low relief may have become established by the end of Middle Cambrian time (*see* Fig. 7).

During Late Cambrian time the western cyclic depositional pattern continued to influence north-central Alberta. At first, a more extensive area of the Peace River ridge was exposed and erosion resulted in fine clastic material accumulating in an embayment which had already taken shape during Pika deposition. Following this, the Late Cambrian sea, in which Upper Lynx dolomites and silts were deposited, may have been more extensive to the northwest. Pugh (1971) postulated that east of the fifth meridian Deadwood Formation sediments were deposited in what was to become the Williston Basin and that they were truncated on their western margin during uplift in eastern Alberta before the end of Cambrian time. He further stated that, subsequently, all Cambrian rocks in Alberta, with the exception of those in the eastern part protected by the Ordovician Red River dolomites, were subjected to pre-Devonian erosion, and that, north of the Meadow Lake Escarpment, "more than one thousand feet of Upper Cambrian sedimentary rocks" were removed before that area was flooded at the beginning of Middle Devonian time. Cambrian strata in the northwest remained subjected to erosion until the final stages of the Middle Devonian marine transgression, and were deeply truncated, particularly on the flanks of the Peace River Arch.

Following the long span of Ordovician and Silurian time in which northern Alberta apparently remained emergent, renewal of sedimentation took place at the beginning of Middle Devonian time. It was at first restricted to the Lac La Biche-Cold Lake area where red beds and Lotsberg salts filled the topographic depression which had resulted from the deep erosion of Cambrian strata north of the Meadow Lake Escarpment. This was followed by extensive submergence (*see* Fig. 10, area A) from eastern to northwestern Alberta with the deposition of Ernestina Lake red clastics, anhydrite and dolomite and Cold Lake red clastics and salt. For detailed tectonic history of Middle Devonian in extreme northwestern Alberta, the reader is referred to Belyea (1971).

The present day structure of the Precambrian surface (*see* Fig. 2) illustrates a history of basement activity throughout much of northern and central Alberta, particularly in the Peace River area where block faulting is indicated. Comparison of these structure contours with the lap-out view from the Precambrian surface (*see* Fig. 11) shows that some activity was pre-Middle Devonian. In the northwest, prominent structures in the Bistcho Lake and Rainbow Lake areas and several other minor structures match 'windows' in the lap-out of Lower Elk Point formations. In the Peace River area one notable correlation is in the Tangent-Jean Côté area where some kind of structural(?) ridge on the Precambrian surface coincides in part with the total absence of Elk Point sediments. Precambrian regolith is preserved below Lower Elk Point beds mainly in rare isolated patches, but is common, possibly as upland slope accumulations, close to the Precambrian topographic highs in the Bistcho Lake and Rainbow Lake areas.

The Peace River 'island' remained emergent through most of Middle Devonian time (*see* Fig. 10, areas B, C). Prior to the deposition of the Chinchaga-Contact Rapids sediments, very little material coarser than fine well-worked sands had been carried into the Lower Elk Point seas. Then, for the first time in the Paleozoic era, very coarse, poorly sorted, angular arkosic sands appeared. They spread out from around the Peace River land area in large amounts, interfingering with the Contact Rapids dolomites and with the Chinchaga anhydrites as far north as the Rainbow Lake area (*see* cross-section N-F, Fig. 13). Similar arkosic sands were deposited with Chinchaga anhydrites in the extreme north. It is inferred, therefore, that the first major Paleozoic uplifts in northern Alberta took place in the Peace River area and, contemporaneously, near the northwest corner of the province, another basement uplift occurred on which coarse erosional debris was produced and supplied to the Chinchaga sea.

The Peace River area was almost completely submerged before the end of Elk Point deposition. By then thick accumulations of regolith had formed on the Precambrian highland slopes, while huge quantities of primary arkosic sands continued to be carried into the surrounding seas forming a wide fringe to the Upper Elk Point carbonates and evaporites. At least a dozen Precambrian summits of the Peace River Arch remained uncovered until Late Devonian time.

ECONOMIC GEOLOGY

Porous sandstones of Cambrian age in central and northwestern Alberta may be potential reservoirs for accumulated oil and natural gas. Almost all of these porous sandstones, however, subcrop at the sub-Devonian unconformity, where they are in direct contact with the porous arkosic sandstone facies of the Middle Devonian Chinchaga, Contact Rapids, Keg River and younger formations. Many of these Devonian sandstones are, collectively, the economically important "Granite wash" of the oil industry. If the hydrocarbons of the "Granite wash" migrated from Cambrian strata, there will be the possibility of some remaining in structural traps within the Cambrian beds, but so far there appears to be no evidence of any. An exception to the above subcropping is where truncated porous beds of the Basal sandstone unit and Earlie Formation are in contact with the Middle Devonian Lotsberg salt east of the fifth meridian.

In the upper dolomite of the Pika Formation some intercrystalline porosity occurs west and southwest of Swan Hills (*see* Fig. 7). Minor intercrystalline porosity was observed in the Eldon and Upper Lynx dolomites at a few locations in the north-central area.

REFERENCES

Aitken, J.D.
1966: Middle Cambrian to Middle Ordovician cyclic sedimentation, southern Rocky Mountains of Alberta; Bull. Can. Petrol. Geol., vol. 14, pp. 405-411.

1968: Cambrian sections in the easternmost southern Rocky Mountains and the adjacent subsurface, Alberta; Geol. Surv. Can., Paper 66-23.

Alberta Oil and Gas Conservation Board
1949 to 1971: Schedule of Wells drilled for oil and gas; published annually.

Baillie, A.D.
1956: Granite Wash in the Clear Hills Area; J. Alberta Soc. Petrol. Geologists, vol. 4, pp. 206-212.

Belyea, H.R.
1971: Middle Devonian Tectonic History of the Tathlina Uplift, Southern District of Mackenzie and Northern Alberta, Canada; Geol. Surv. Can., Paper 70-14.

Carrigy, M.A. and Short, N.M.
1968: Evidence of shock metamorphism in rocks from the Steen River, structure, Alberta, *in* Shock Metamorphism of Natural Materials, pp. 367-378.

Grayston, L.D., Sherwin, D.F., and Allan, J.F.
1964: Middle Devonian; *in* Geological History of Western Canada; J. Alberta Soc. Petrol. Geologists, Calgary, pp. 49-59.

Pugh, D.C.
1971: Subsurface Cambrian Stratigraphy in Southern and Central Alberta, Geol. Surv. Can., Paper 70-10.

Suska, M.
1963: Mid-Devonian Elk Point Group and Cambrian rocks of north-central Alberta; M.Sc. Thesis, Univ. of Alberta, Edmonton.

Turk, L.B.
1950: Significance and Use of Lap-Out Maps in Prospecting for Oil and Gas (Abstract), Bull. Am. Assoc. Petrol. Geologists, vol. 34, p. 625.

van Hees, H.
1964: Cambrian, Part 1 - Plains; *in* Geological History of Western Canada; J. Alberta Soc. Petrol. Geologists, Calgary, pp. 20-28.

APPENDIX I

Logs of wells

1. Log of Huson's Bay-Union Home Virginia Hills 9-20-65-13
   Location: lsd. 9, sec. 20, tp. 65, rge 13, W 5th mer.
   Elevation of Kelly Bushing: 3,644 feet.
   Well log prepared by the writer based on drill cuttings; depth adjusted to the electric log. Sample quality good.

Depth (feet)	Lithology
	Overlying beds ELK POINT GROUP (possible KEG RIVER FORMATION clastic facies)
	LYNX GROUP (UPPER DIVISION)
9,697- 9,757	Siltstone, pink, pale purple, very dolomitic, micaceous; trace of glauconite. Grades downward to interbedded siltstone, as above, and dolomite, pale buff and pink, in part moderately to very silty, micaceous.
	SULLIVAN FORMATION
9,757- 9,800	Siltstones and dolomite: siltstone, coarse-grained, very glauconitic; siltstone, very micaceous; dolomite, very silty, glauconitic.
9,800- 9,906	Siltstone, coarse-grained, very glauconitic, micaceous. Grades downward to interbedded siltstone and dolomite, buff, silty, glauconitic.
	PIKA FORMATION
9,906- 9,985	Dolomite, pink, red, pale buff, micro- and very finely crystalline; traces of intercrystalline porosity.
9,985-10,168	Shale, green, dark red, purple with minor amounts of interbedded siltstone and limestone. Grades downward to shale, green, splintery.
	ELDON FORMATION
10,168-10,250	Dolomite, pale buff, microcrystalline, silty, micaceous; some dolomite, pale brown, finely crystalline, glauconitic at top.
10,250-10,280	Dolomite, pale buff, red, microcrystalline, in part glauconitic; some interbedded shale, red, green.
10,280-10,315	Shale, dark red, sandy and green, splintery; some sandstone, red, silty.
10,315-10,379	Sandstone, pink, white, fine-grained, quartzose, porous; some interbedded siltstone, pink, pale purple, sandy; trace of shale, red.

Depth (feet)	Lithology
	STEPHEN FORMATION
10,379-10,433	Siltstone, pale green, coarse-grained, slightly dolomitic; very glauconitic, in part very micaceous.
	CATHEDRAL FORMATION
10,433-10,448	Dolomite, pale buff, sandy, very glauconitic, micaceous, grading to dolomitic siltstone and sandstone.
	MOUNT WHYTE FORMATION
10,448-10,510	Siltstone, red, coarse-grained, glauconitic; some interbedded sandstone, pink, glauconitic, quartzitic and shale, dark red, green, splintery.
	BASAL SANDSTONE
10,510-10,550	Sandstone, white, coarse-grained, very poorly sorted, mostly quartzitic.
10,550-10,600	Sand, unconsolidated, colourless to yellow quartz, very coarse, poorly sorted, subrounded.
	PRECAMBRIAN
10,600-10,612	(Regolith?)
10,612-10,624	(T.D.)

2. Log of Pan American B.A. B-1 Swan Hills 4-13-66-10
   Location: lsd. 4, sec. 13, tp. 66, rge. 10, W 5th mer.
   Elevation of Kelly Bushing: 3,661 feet.
   Well log prepared by the writer based on drill cuttings; depth adjusted to the induction log. Sample quality good.

Depth (feet)	Lithology
	Overlying beds ELK POINT GROUP (ERNESTINA LAKE FORMATION dolomite/anhydrite)
	SULLIVAN FORMATION
9,064- 9,174	Siltstone, white, pink and pale purple at top, coarse-grained, dolomitic, in part calcareous, grading to limestone, silty, micaceous, glauconitic.
9,174- 9,204	Shale, green, flaky.
	PIKA FORMATION
9,204- 9,240	Limestone, brown and white, oolitic; some dolomite, brown, very finely crystalline.
9,240- 9,280	Dolomite, pale brown, finely crystalline; some interbedded shale, red, olive-green, micaceous.
9,280- 9,424	Shale, green, olive-green, flaky to splintery; some interbedded limestone, white, buff, aphanitic.
	ELDON FORMATION
9,424- 9,500	Siltstone, pale green, coarse-grained, dolomitic, very micaceous, glauconitic; some dolomite, pale brown, finely crystalline at top.
9,500- 9,545	Siltstone, white, slightly glauconitic.
9,545- 9,560	Sandstone, white, fine-grained, quartzose.
	STEPHEN FORMATION
9,560- 9,614	Siltstone, white, some pink, coarse-grained, very glauconitic, micaceous, in part very micaceous.
	CATHEDRAL FORMATION
9,614- 9,633	Dolomite, buff, sandy, glauconitic, micaceous, grading to sandstone, silty, dolomitic, glauconitic, in part very glauconitic.

Depth (feet)	Lithology
	MOUNT WHYTE FORMATION
9,633- 9,690	Siltstone, pale buff, coarse-grained, glauconitic, micaceous; some shale, red, sandy and shale, green, purple, splintery.
	BASAL SANDSTONE
9,690- 9,730	Sandstone, white, coarse-grained, poorly sorted, quartzose.
9,730- 9,787	Sand, unconsolidated, colourless to yellow and pink quartz, very coarse, poorly sorted, subrounded.
	PRECAMBRIAN
9,787- 9,805	(T.D.) Gneiss.

3. Log of British American Little Smoky 1-27-67-22.
Location: lsd. 1, sec. 27, tp. 67, rge. 22, W 5th mer.
Elevation of Kelly Bushing: 2,233 feet.
Well log prepared by the writer based on drill cuttings; depth adjusted to the electric log. Sample quality good.

Depth (feet)	Lithology
	Overlying beds ELK POINT GROUP (possible KEG RIVER FORMATION clastic facies)
	PIKA FORMATION
10,010-10,055	Dolomite, pale buff, pink at top, some green, microcrystalline.
10,055-10,132	Shale, dark red, dark green, splintery, micaceous, in part silty; some interbedded micaceous siltstones.
	ELDON FORMATION
10,132-10,215	Dolomite, pale brown, finely crystalline, grading downward to microcrystalline.
10,215-10,225	Shale, dark red, dark green.
10,225-10,360	Sandstone, white, fine-grained, quartzose, porous; some interbedded shale, dark red, dark green.
	STEPHEN FORMATION
10,360-10,438	Shale, dark red, dark green, splintery; some siltstone, pale buff, micaceous, glauconitic.
	CATHEDRAL FORMATION
10,438-10,507	Sandstone, white, trace of pink, fine-grained, quartzitic; some dolomite, buff, microcrystalline at top; trace of interbedded green waxy shale.
	MOUNT WHYTE FORMATION
10,507-10,564	Siltstone, white, pink, pale purple, coarse-grained, in part sandy, micaceous, glauconitic; some shale, dark purple, dark green, splintery.
	BASAL SANDSTONE
10,564-10,620	Sandstone, white, fine- to medium-grained, poorly sorted, quartzitic.
	PRECAMBRIAN
10,620-10,630	(T.D.) Gneiss.

4. Log of Hudson's Bay-Union Assineau 10-32-72-8.
Location: lsd. 10, sec. 32, tp. 72, rge. 8, W 5th mer.
Elevation of Kelly Bushing: 2,377 feet.
Well log prepared by the writer based on drill cuttings; depth adjusted to the induction log. Sample quality fair.

Depth (feet)	Lithology
	Overlying beds ELK POINT GROUP
6,750-6,844	CONTACT RAPIDS FORMATION clastic facies ASSINEAU SANDSTONE type section (Suska, 1963)
	(ERNESTINA LAKE red beds and anhydrite)
	EARLIE FORMATION
6,944- 6,974	(Eldon marker) Sandstone, white, pink, pale purple, very fine-grained, silty, slightly glauconitic.
6,974- 6,994	Siltstone, pale purple, pink, white, coarse-grained, in part very glauconitic. (Cathedral marker) Sandstone, white, very fine-grained, very glauconitic.
6,994- 7,050	Siltstone, red, pink, pale purple, coarse-grained, sandy, micaceous, glauconitic; some shale, dark green, trace of red, micaceous, splintery.
	BASAL SANDSTONE (Sample quality poor)
7,050- 7,120	Sand, very coarse, quartzose, subrounded.
	PRECAMBRIAN
7,120- 7,130	(T.D.) Granite, gneiss.

5. Log of Imperial Pacific Siphon Creek 1-26-86-16
Location: lsd 1, sec. 26, tp. 86, rge. 16, W 6th mer. (British Columbia).
Elevation of Kelly Bushing: 2,415 feet.
Well log prepared by the writer based on drill cuttings; depth adjusted to the gamma-ray log. Sample quality fair.

Depth (feet)	Lithology
	Overlying beds ELK POINT GROUP (possible KEG RIVER FORMATION clastic facies)
	ELDON FORMATION
10,318-10,440	Dolomite, creamy white, pale buff, pink, pale purple, very finely crystalline to microcrystalline.
10,440-10,570	Siltstone, pale buff, white, pink, pale purple, very dolomitic, grading to silty dolomite; probably some shale, red, green, splintery.
10,570-10,610	Dolomite, pale brown-grey, finely crystalline; some silty beds.
	STEPHEN FORMATION
10,610-10,658	Shale, red, dark green, splintery; some siltstone.
	CATHEDRAL FORMATION
10,658-10,700	"Chert", pale yellow, pale green, buff, glauconitic, in part up to 50% glauconitic. Probably highly silicified dolomite.
10,700-10,742	Dolomite, pale buff, finely to very finely crystalline, dense.
	MOUNT WHYTE FORMATION
10,742-10,818	Sandstone, red, fine-grained, poorly sorted, silty, grading to sandy siltstone; some shale, red.
	BASAL SANDSTONE
10,818-10,897	Sandstone, white, medium- and coarse-grained, poorly sorted, subrounded, quartzose, in part quartzitic.
	PRECAMBRIAN
10,897-10,913	(T.D.) Granite.

6. Log of Pan American Imperial A-1 Cairn 2-11-87-13.
   Location: lsd. 2, sec. 11, tp. 87, rge. 13, W 6th mer.
   Elevation of Kelly Bushing: 2,651 feet.
   Well log prepared by the writer based on drill cuttings; depth adjusted to the induction log. Sample quality good.

Depth (feet)	Lithology
	Overlying beds ELK POINT GROUP (KEG RIVER FORMATION clastic facies).
	CATHEDRAL FORMATION
9,600- 9,620	"Chert", pale yellow, buff, pale green, glauconitic, in part up to 50% glauconite. Probably highly silicified dolomite, but in part silicified siltstone; some very micaceous bands.
	MOUNT WHYTE FORMATION
9,620- 9,670	Siltstone, purple-red, partly sandy, partly argillaceous, micaceous; trace of glauconite; some shale, red, micaceous, splintery, and sandstone, red, fine-grained, poorly sorted, subrounded.
	BASAL SANDSTONE
9,670- 9,750	Sandstone, white, possibly some pale purple, medium-grained, poorly sorted, quartzose, in part quartzitic.
	PRECAMBRIAN
9,750- 9,793	(T.D.) Granite.

7. Log of Imperial Clear Hills 2-28-94-9
   Location: lsd. 2, sec. 28, tp. 94, rge. 9, W 6th mer.
   Elevation of Kelly Bushing: 2,476 feet.
   Well log prepared by the writer based on drill cuttings; depth not adjusted (no electric log below 8,700 feet). Sample quality good.

Depth (feet)	Lithology
	Overlying beds ELK POINT GROUP (CHINCHAGA FORMATION clastic facies)
	ELDON FORMATION
9,100- 9,140	Shales and "chert": shale, purple, red, silty, micaceous; shale, red, green, micaceous, splintery; siltstone(?) yellow, highly silicified, slightly glauconitic, with thinly interbedded shale, pale green, very micaceous.
9,140- 9,160	Siltstone, creamy white, some pink speckles, moderately to very dolomitic.
9,160- 9,180	Shale, red, green, micaceous, splintery, in part silty.
9,180- 9,210	Dolomite, pale brown-grey, finely crystalline.
	STEPHEN FORMATION
9,210- 9,260	Shale, red, green, purple, micaceous, splintery.
	CATHEDRAL FORMATION
9,260- 9,330	At top a trace of dolomite, brown, silicified, with up to 50% glauconite with pyrite. "Chert" (probably highly silicified dolomite), pale buff, yellow with greenish and thin black streaks, in part slightly dolomitic, in part glauconitic; some siltstone, pale green, in part coarse-grained, micaceous, glauconitic.
9,330- 9,390	Sandstone, white, some pink, fine-grained, in part quartzitic; some siltstone, dolomite at 9,360-9,370.
	MOUNT WHYTE FORMATION
9,390- 9,440	Siltstone, pale purple, pink, micaceous, in part coarse-grained and very finely sandy; some shale, purple, silty, in part sandy.

Depth (feet)	Lithology
	BASAL SANDSTONE
9,440- 9,495	Sandstone, white, medium- to coarse-grained, rounded, slightly quartzitic.
	PRECAMBRIAN
9,495- 9,502	(T.D.) (Possibly some regolith?) Granite.

APPENDIX II

List of wells.

List of wells

List of wells known to the writer, drilled to Cambrian and Precambrian, north of township 63 in Alberta, as of 30 April, 1971.

X denotes that neither samples nor wireline logs were available
K.B. = Kelly Bushing elevation in feet
G denotes Ground Elevation where logs were measured from ground level
Ø denotes wells in field areas checked for geological markers only
T.D. = Total depth of drilling in feet
PЄ = subsea elevation of Precambrian in feet (data for Fig. 2)
Є denotes total depth in Cambrian

Name		Location	K.B.	T.D.	PЄ
Pan Am. Garth A-1		5-28-64-6 W4	1,993	4,614	2,542
Triad Mobil Rich L. 6-17		6-17-64-11 W4	2,000	5,155	3,126
Champlin Sylvan Glen 4-18-64-26		4-18-64-26 W4	2,276	7,275	Є
W.R. C&E Cold L. 7-22-66-1		7-22-66-1 W4	1,990	3,819	1,800
Bear Parkford No. 1		2-3-66-15 W4	1,889	5,295	3,404
Arco B.A. Venice 10-12-66-15		10-12-66-15 W4	1,899	5,220	3,313
Triad Berny 6-25-66-16		6-25-66-16 W4	1,916	5,314	3,384
MCD Chiefco Labie 10-11-67-12		10-11-67-12 W4	1,961	4,863	2,886
Pac. Plamondon 6-21-67-16		6-21-67-16 W4	1,995	5,403	3,334
I. Grosmont No. 1		13-17-67-23 W4	2,066	6,406	4,326
Mobil Pan Am. Heart L. 4-3-69-10		4-3-69-10 W4	2,516	5,033	2,503
Triad Calling L. 6-11-69-19		6-11-69-19 W4	1,770	5,285	3,480
Tenn. H.B. Piche L. 7-14-70-12		7-14-70-12 W4	1,999	4,585	2,567
Pan Am. A-1 Avenir 5-9-70-16		5-9-70-16 W4	1,860	4,925	3,060
W.R. et al. Hondo 11-35-70-25		11-35-70-25 W4	2,170	6,250	4,010
Calstan W. Calling L. 16-36		16-36-71-24 W4	2,184	5,991	3,736
W.R. et al. Smith 6-18-72-25		6-18-72-25 W4	1,936	5,987	3,979
B.A. Clyde L. 11-24		11-24-73-10 W4	2,199	4,155	1,940
W.R. et al. Rock Is. 14-31-74-23		14-31-74-23 W4	2,341	5,776	3,418
Home Marten H. 4-16-74-24		4-16-74-24 W4	2,218	5,798	3,574
Home Winefred L. 1-28-75-3		1-28-75-3 W4	2,018	3,047	1,020
Fina Cal. Am. Wappau 2-34-75-11		2-34-75-11 W4	2,154	4,116	1,926
B.A. Marten H. 11-10-75-22		11-10-75-22 W4	2,155	5,463	3,281
I. Wolverine 7-24-76-18		7-24-76-18 W4	2,054	4,641	2,574
H.B. Calling L. 10-29-77-18		10-29-77-18 W4	1,848	4,382	2,524
W.R. Marten H. 11-14-77-21		11-14-77-21 W4	2,389	5,330	2,906
W.R. Marten H. 6-33-77-22		6-33-77-22 W4	2,084	5,122	2,964
I. Pelican H. 6-10-77-25		6-10-77-25 W4	2,616	6,120	3,499
Mobil Chard 12-27-78-4		12-27-78-4 W4	1,857	2,571	703
Merrill Arab Chard 5-34		5-34-78-6 W4	1,826	2,866	1,020
ROC Leismer 8-17-78-7		8-17-78-7 W4	1,813	3,060	1,227
ROC Christina R. 6-7-78-11		6-7-78-11 W4	2,292	3,868	1,573
Rich. Bohn L. No. 1		15-29-79-5 W4	1,618	2,410	787
ROC Janvier 5-23-80-5		5-23-80-5 W4	1,531	2,272	744
ROC et al. Corner L. 6-8-81-8		6-8-81-8 W4	2,431	3,322	889
Tex. Bohn L. 16-22-82-4		16-22-82-4 W4	1,485	1,797	303
ROC Cottonwood 2-23-82-5		2-23-82-5 W4	1,557	1,989	419
ROC et al. Divide 6-36-82-12		6-36-82-12 W4	2,452	3,545	1,058
ROC Watchusk 7-8-83-3		7-8-83-3 W4	1,583	1,906	306
Bear McMahon No. 1	X	11-15-84-6 W4	1,540	1,903	357

Name		Location	K.B.	T.D.	PC
B.A. Grand Rapids 9-34-84-17		9-34-84-17 W4	1,668	3,379	1,692
Cigol et al. Horse 11-10-85-13		11-10-85-13 W4	1,775	2,872	1,085
ROC Telegraph 9-26-85-13		9-26-85-13 W4	1,683	2,685	987
ROC Telegraph 10-12-85-14		10-12-85-14 W4	1,861	3,141	1,241
Suptst et al. Livock 11-15-85-17		11-15-85-17 W4	1,685	3,374	1,687
Tex. IOE Buffalo 10-15-85-22		10-15-85-22 W4	1,938	4,341	2,372
IOE Buffalo R. 4-32-85-23		4-32-85-23 W4	1,820	4,253	2,384
I. Wabasca 6-25-85-25		6-25-85-25 W4	1,843	4,550	2,676
Bear Westmount No. 1	X	14-9-86-7 W4	1,627	1,793	146
Pan Am. A-1 Telegraph 6-30-86-13		6-30-86-13 W4	1,570	2,560	980
ROC Telegraph 5-26-86-14		5-26-86-14 W4	1,680	2,610	908
Pan Am. A-1 Lenarthur 16-5-87-7		16-5-87-7 W4	1,527	1,648	118
Bear Vampire No. 1	X	7-28-87-12 W4	1,545	2,304	754
ROC Buffalo Ck. 14-3-87-18		14-3-87-18 W4	1,686	3,337	1,648
Fina IOE Buffalo Ck. 10-23-87-22		10-23-87-22 W4	1,843	3,939	2,063
Alta. Govt. salt well No. 2	X	5-32-88-8 W4	?	789	?
Bear Westmount No. 2	X	8-36-88-8 W4	831	936	81
Champlin Pan Am. Mackay 10-32-88-15		10-32-88-15 W4	1,766	2,940	1,150
ROC Brule Rapids 7-28-88-16		7-28-88-16 W4	1,766	3,028	1,250
IOE Corn L. 4-3-88-25		4-3-88-25 W4	2,059	4,660	2,555
Clearwater River No. 1		5-16(?)-89-3 W4	?	495	?
N. Alta. Expln. Nos. 1 & 2	X	NE.¼ 17-89-9 W4	?	1,475	?
Bear Rodeo No. 1	X	8-20-89-0 W4	792	1,142	342
Amr. Mink L. S.T.H. No. 1		7-21-89-11 W4	1,496	2,105	588
Amr. Mink L. S.T.H. No. 3		6-21-89-12 W4	1,745	2,333	580
Amr. Mink L. S.T.H. No. 9		14-36-89-23 W4	1,642	3,697	2,045
Amr. Cr. BM Mink 11-28-89-25		11-28-89-25 W4	1,993	4,305	2,284
GPD et al. Mink 11-9-90-18		11-9-90-18 W4	1,651	3,155	1,484
Amr. Mink L. S.T.H. No. 2		16-36-90-21 W4	1,711	3,354	1,624
Baysel Steepbank 13-16-91-8		13-16-91-8 W4	1,439	1,568	77
Baysel Steepbank 15-29-91-8		15-29-91-8 W4	1,319	1,438	116
Bear Rodeo No. 2		5-17-91-9 W4	804	1,064	259
Amr. Mink L. S.T.H. No. 5		10-14-91-14 W4	1,560	2,414	844
Tex. ROC Mackay R. 6-13-91-8		6-13-91-18 W4	1,678	3,084	1,387
Pan Am. D-1 Chipewyan 10-16-91-18		10-16-91-18 W4	1,696	3,185	1,482
Amr. Mink L. S.T.H. No. 7		9-33-91-20 W4	1,720	3,308	1,578
Arco IOE Seaforth 10-34-91-24		10-34-91-24 W4	1,785	4,025	2,221
Amr. Mink L. S.T.H. No. 6		11-28-92-13 W4	1,556	2,217	657
Hstd. et al. Liege 5-12-92-24		5-12-92-24 W4	1,854	4,070	2,111
Sun Union Ruth L. 6-3-93-10		6-3-93-10 W4	868	1,038	162
Bear Vampire No. 2	X	4-32-93-10 W4	793	883	87
F.P.C. et al. Liege R. 10-33-93-25		10-33-93-25 W4	2,464	4,680	2,178
Baysel Birch H. 9-34-94-14		9-34-94-14 W4	1,379	2,000	612
Mutex IOE Seaforth 15-20-95-20		15-20-95-20 W4	2,458	4,092	1,626
I. Burnt L. 10-19-95-24		10-19-95-24 W4	2,605	4,724	2,105
Regent Birch H. 12-30-96-14		12-30-96-14 W4	2,052	2,724	666
Amr. Cdn.-Sup. Namur 15-19-96-18		15-19-96-18 W4	2,694	4,015	1,306
Regent Birch H. 3-16-97-16		3-16-97-16 W4	2,191	3,070	866
Calstan Mikkwa 12-23		12-23-98-21 W4	2,259	3,840	1,569
Pan Am. B-1 Jean 6-31-98-22		6-31-98-22 W4	2,189	3,980	1,785
Regent Birch H. 2-7-99-17		2-7-99-17 W4	2,425	3,532	1,101
F.P.C. et al. Namur 7-6-100-17		7-6-100-17 W4	2,306	3,430	1,087
G.P.D. et al. Bergeron A3-31-100-22		3-31-100-22 W4	2,351	4,157	1,783
F.P.C. Noel IOE Edra 16-27-102-24		16-27-102-24 W4	1,352	3,255	1,876

Name	Location	K.B.	T.D.	PȻ
Shell G.P.D. Birch H. 5-6-104-23	5-6-104-23 W4	1,056	2,887	1,808
Shell Eplrrs Pet. Simonette 9-9	9-9-62-26 W5	3,112	13,560	Ȼ
Home Almx KCL Akuinu 4-16-64-2	4-16-64-2 W5	2,086	7,377	5,289
I. Forestry 14-14-64-10	14-14-64-10 W5	3,067	9,020	Ȼ
I. Forestry 8-29-64-10	8-29-64-10 W5	3,149	9,200	Ȼ
I. Shell Burntwood 12-6-64-12	12-6-64-12 W5	3,780	10,265	Ȼ
I. Burntwood 4-26-64-12	4-26-64-12 W5	3,388	9,690	Ȼ
Shell Swan H. 10-17-64-13	10-17-64-13 W5	4,047	10,691	Ȼ
Phillips Kaybob 7-22-64-19	7-22-64-19 W5	2,449	10,445	Ȼ
Mich. Wis. et al. Timeu 7-6-65-4	7-6-65-4 W5	2,301	7,910	5,557
H.B. E. Virginia H. No. 1	5-31-65-6 W5	2,615	8,422	5,735
H.B. Union Home Virg. H. 9-20-65-13	9-20-65-13 W5	3,644	10,624	6,956
Pan Am. A-1 Virg. H. W. 10-17-65-15	10-17-65-15 W5	3,113	10,440	Ȼ
Jeff L. et al. Meekwap 2-28-65-16	2-28-65-16 W5	2,949	9,701	Ȼ
Calstan Meekwap E. 10-1-65-18	10-1-65-18 W5	2,634	10,615	7,947
Calstan Meekwap 4-11-65-19	4-11-65-19 W5	2,604	10,120	Ȼ
Phillips Atikameg 10-17-65-19	10-17-65-19 W5	2,439	10,752	8,259
Pan Am. Giroux L. No. 1	6-20-65-20 W5	2,426	10,612	Ȼ
Pan Am. A-1 W. Giroux 15-17-65-21	15-17-65-21 W5	2,390	11,094	8,695
RRX Foley 10-21-66-5	10-21-66-5 W5	2,467	7,950	5,397
Home FPC et al. Morse R. 4-2-66-9	4-2-66-9 W5	3,385	8,880	Ȼ
Pan Am. B.A. B-1 Swan H. 4-13-66-10	4-13-66-10 W5	3,661	9,805	6,126
Home Union H.B. Virginia H. 16-12	16-12-66-13 W5	3,830	10,521	6,687
Sun Virginia H. 12-11-66-14	12-11-66-14 W5	3,818	10,162	Ȼ
Tidewater Goose R. 10-26-66-19	10-26-66-19 W5	2,543	10,334	7,783
Goose River No. 6-35	6-35-66-19 W5	2,492	10,268	7,768
B.A. Giroux 10-9-66-21	10-9-66-21 W5	2,432	10,928	8,483
Amr. Cr. "AH" 3-23	3-23-66-26 W5	2,494	11,848	Ȼ
Home KCL Almx. Tieland 12-14-67-2	12-14-67-2 W5	2,032	6,820	4,758
I. H.B. Roche L. 10-16-67-6	10-16-67-6 W5	2,710	7,760	Ȼ
Home et al. Regent Edith L. 11-19	11-19-67-10 W5	3,500	9,572	6,058
Home Regent "B" Swan H. 4-4-67-11	4-4-67-11 W5	4,009	9,785	Ȼ
Shell Swan H. 6-31-67-12	6-31-67-12 W5	4,351	10,256	Ȼ
Placid Prairie R. 12-34-67-15	12-34-67-15 W5	2,977	9,872	6,863
Winter A-1 Wallace R. 12-35-67-15	12-35-67-15 W5	2,970	9,846	6,842
Prairie R. 7-26	7-26-67-17 W5	3,095	10,175	6,979
Jeff. L. et al. Wallace 10-23-67-17	10-23-67-17 W5	3,051	9,766	Ȼ
I. Goose R. E. 10-15-67-18	10-15-67-18 W5	2,669	9,637	Ȼ
Calstan Goose R. 4-34-67-18	4-34-67-18 W5	2,541	9,393	Ȼ
I. Goose R. 2-1-67-19	2-1-67-19 W5	2,467	10,228	7,739
Little Smoky No. 15-8	15-8-67-22 W5	2,310	10,604	Ȼ
B.A. Little Smoky 1-27-67-22	1-27-67-22 W5	2,233	10,630	8,387
Amr. Cr. "AE" 9-8	9-8-67-23 W5	2,545	11,045	Ȼ
SOBC Amr. N. Simon. 11-6-67-26	11-6-67-26 W5	2,604	11,983	Ȼ
Home Almx. KCL Chisholm 10-5-68-2	10-5-68-2 W5	1,978	6,822	4,822
Arco et al. Mitsue 6-29-68-2	6-29-68-2 W5	1,990	6,706	4,713
I. et al. Agnes L. 4-7-68-7	4-7-68-7 W5	2,969	8,140	Ȼ
Home et al. Regent Swan H. 8-11	8-11-68-10 W5	3,183	8,988	5,767
Home Regent D Swan H. 2-17-68-10	2-17-68-10 W5	3,277	8,664	Ȼ
B.A. Sweathouse 10-9-68-17	10-9-68-17 W5	2,977	10,200	7,200
SOBC Goose R. 4-6-68-18	4-6-68-18 W5	2,824	10,447	7,533
Hstd. Shell Snipe 12-29-68-18	12-29-68-18 W5	2,883	9,835	Ȼ
Hstd. et al. S. Snipe 10-14-68-19	10-14-68-19 W5	2,821	10,324	7,476
H.B. Union Snipe L. 16-19-68-19	16-19-68-19 W5	2,491	10,135	7,613

Name	Location	K.B.	T.D.	PC
H.B. Union Liberal, Gulf No. 1	3-5-68-22 W5	2,297	10,736	8,410
H.B. Union Liberal 7-33	7-33-68-22 W5	2,258	10,691	8,106
Amr. Cr. "AJ" 1A-8	1-8-68-23 W5	2,592	11,144	8,533
Amr. Cr. "AI" No. 1-29	1-29-68-26 W5	2,201	11,115	C
Arco et al Bruce L. 12-1-69-2	12-1-69-2 W5	1,937	6,561	4,603
Sun et al. Mitsue 6-6-69-2	6-6-69-2 W5	2,046	6,773	4,692
Pan Am. A-1 Parker L. 4-16-69-4	4-16-69-4 W5	2,468	7,387	4,886
Home et al. Grizzly Mtn. 10-16-69-7	10-16-69-7 W5	3,048	8,253	5,183
Texcan Snipe L. 10-12-69-19	10-12-69-19 W5	2,723	9,805	C
Texcan Amr. Snipe L. 14-29-69-19	14-29-69-19 W5	2,389	9,513	C
Texcan Fina Sunset 10-13-69-20	10-13-69-20 W5	2,385	9,457	C
Texcan Fina Sunset 10-25-69-20	10-25-69-20 W5	2,253	9,280	C
Amr. H.B. Union Cr. "Y" 1-10	1-10-69-22 W5	2,174	9,940	C
Shell S. Sturgeon L. "SB" 1-12	1-12-69-22 W5	2,107	9,741	C
Amr. Cr. "AD" 7-19	7-19-69-25 W5	2,533	11,133	C
TGT Futurity W. Hondo 4-15-70-2	4-15-70-2 W5	1,989	6,464	4,472
Home Almx. Saulteaux 2-8-70-3	2-8-70-3 W5	2,027	6,726	4,658
Mobil et al. Hondo 4-33-70-3	4-33-70-3 W5	2,228	6,869	4,572
SOBC Calstan Hondo 12-36-70-4	12-36-70-4 W5	2,402	7,050	4,608
Home Fina Almx. Grizzly 10-28-70-6	10-28-70-6 W5	3,104	7,969	4,848
Home et al. Grizzly Mtn. 6-20-70-7	6-20-70-7 W5	3,566	8,610	5,004
Stanld. Sun House Mtn. No. 1	7-29-70-13 W5	2,557	8,177	C
Dev.-Pal. et al. Snipe 4-23-70-16	4-23-70-16 W5	2,348	8,706	6,351
Pan Am. A-1 Prairie Ck. 6-18-70-17	6-18-70-17 W5	2,778	9,415	C
SOBC Snipe L. 10-21-70-18	10-21-70-18 W5	2,662	9,536	6,847
Sinclair Cdn. Atlantic A-4-1	1-14-70-21 W5	2,157	9,650	7,467
Grt. Pls. et al. Valleyview 9-15-70-22	9-15-70-22 W5	2,434	9,856	C
Mobil Amr. Sturgeon L. I.R. 1-11	1-11-70-23 W5	2,368	10,340	7,963
Baysel Asplund 4-25-70-23	4-25-70-23 W5	2,274	9,770	C
W.E. Bakke et al. Sturgeon L. 9-27	9-27-70-23 W5	2,292	10,057	7,744
Home Almx. Mitsue 2-17-71-3	2-17-71-3 W5	2,358	6,932	4,536
Mobil Geog. S.E. Mitsue 12-28-71-3	12-28-71-3 W5	2,131	6,593	4,425
Cree et al. Florida L. 8-26-71-6	8-26-71-6 W5	2,702	7,400	4,683
L.M. Uno-LA Faust 4-21-71-11	4-21-71-11 W5	2,739	8,017	C
ROC Sun N. Swan H. 2-5-71-12	2-5-71-12 W5	2,663	8,130	C
I. Snipe L. 2-17-71-18	2-17-71-18 W5	2,500	9,212	6,711
Amr. Cr. "U" F 24-11	3-11-71-24 W5	2,304	10,128	C
TGT Al Sturgeon L. 6-34-71-24	6-34-71-24 W5	2,468	10,192	7,682
IOE Peter L. 10-5-72-1	10-5-72-1 W5	1,911	6,147	4,181
Union Calalta Mitsue L. 14-30	14-30-72-2 W5	1,931	6,247	4,237
B.A. et al. Mitsue L. 10-28-72-4	10-28-72-4 W5	1,923	6,288	4,353
Chevron Mitsue 2-26-72-5	2-26-72-5 W5	1,919	6,391	4,427
H.B.U. Assineau 10-32-72-8	10-32-72-8 W5	2,377	7,130	4,743
B.A. Kinuso 10-33-72-9	10-33-72-9 W5	2,003	6,833	4,815
Guyer et al. Swan R. 4-3-72-10	4-3-72-10 W5	2,391	7,490	5,089
Shell - B.A. Enilda 2-12-72-15	2-12-72-15 W5	2,161	7,962	5,756
I. West Prairie 11-18-72-17	11-18-72-17 W5	2,350	8,548	6,178
GPD Noel Shell Gilmore 6-6-72-21	6-6-72-21 W5	2,214	9,381	C
Amr. Cr. "H" F 34-5	2-5-27-23 W5	2,758	10,278	7,507
Atl. et al. Wabatanisk 10-14-72-23	10-14-72-23 W5	2,645	9,937	7,271
Amr. Cr. "AK" 7-16	7-16-72-23 W5	2,823	10,188	7,350
Amr. Cr. "AK" Sturg. L. 4-34-72-23	4-34-72-23 W5	2,779	10,110	7,307
C.S. - B.A. N. Sturg. L. 3-26-72-24	3-26-72-24 W5	2,523	10,053	7,509
B.A. C.S. Crooked Ck. No. 1	4-28-72-25 W5	2,595	10,411	7,780

Name	Location	K.B.	T.D.	PE
COX SE. Marten H. 16-15-73-1	16-15-73-1 W5	2,073	6,095	4,007
Shell IOE Driftwood 4-30-73-2	4-30-73-2 W5	2,230	6,461	4,161
Shell IOE Driftwood 10-12-73-3	10-12-73-3 W5	1,987	6,220	4,167
IOE Sylvia 10-6-73-4	10-6-73-4 W5	1,901	6,308	4,379
IOE Sylvia 10-35-73-4	10-35-73-4 W5	1,941	6,250	4,227
IOE Sylvia 12-2-73-5	12-2-73-5 W5	1,913	6,361	4,387
IOE Sylvia 2-6-73-5	2-6-73-5 W5	1,916	6,343	4,405
IOE Sylvia 10-3-73-6	10-3-73-6 W5	1,914	6,429	4,502
Texcan Giroux Bay 12-13-73-11	12-13-73-11 W5	1,907	6,775	4,861
Guyer-Tex. Driftpile 2-24-73-12	2-24-73-12 W5	1,925	6,908	4,982
Home et al. Driftpile 16-31-73-12	16-31-73-12 W5	1,916	6,964	5,000
I. Joussard 11-11-73-13	11-11-73-13 W5	2,229	7,406	5,174
C.S. Joussard 4-31-73-13	4-31-73-13 W5	2,042	7,275	5,204
Penzl IOE High Prairie 10-1-73-17	10-1-73-17 W5	2,153	8,055	5,888
Grt. Plains Triad Mskg. Gilwood 1-9	1-9-73-18 W5	2,227	8,355	6,123
TGT B-1 Gilwood 2-10-73-18	2-10-73-18 W5	2,203	8,377	6,147
TGT C-1 Gilwood 6-11-73-18	6-11-73-18 W5	2,173	8,314	6,115
S. Little Smoky Cr. "A" No. 1	16-11-73-18 W5	2,154	8,316	6,133
Stanolind Gilwood Cr. A-3	9-17-73-18 W5	2,207	8,334	6,105
Colorado et al. Snipe L. 6-6-73-19	6-6-73-19 W5	2,059	8,572	6,499
KR Tenn. Crooked Ck. 12-12-73-24	12-12-73-24 W5	2,582	9,910	7,308
Baysel et al. Kinuso 4-12-74-10	4-12-74-10 W5	1,918	6,554	4,602
POR Decalta et al. Kinuso 3-14-74-10	3-14-74-10 W5	1,913	6,541	4,602
Pure TPC & O High Prairie 6-7-74-16	6-7-74-16 W5	1,982	7,744	5,726
COX SE. Enilda 6-26-74-16	6-26-74-16 W5	1,955	7,540	5,525
FPC Triangle 2-4-74-18	2-4-74-18 W5	2,048	8,208	6,102
B.A. Royalite Little Smoky No. 16-6	16-6-74-20 W5	1,999	8,450	6,431
H.B. Union N. Valleyview No. 1	15-20-74-21 W5	1,950	8,614	6,650
Triad Anglo Sbd. Forestview 16-17	16-17-74-23 W5	2,291	9,290	6,975
Amr. Cr. "AY" 6-7	6-7-74-26 W5	2,154	9,957	7,754
Amr. Cr. "AO" 10-18	10-18-74-26 W5	2,125	9,853	7,695
MCD et al. Marten H. 6-18-75-3	6-18-75-3 W5	3,065	7,171	4,075
I. Marten Mtn. 6-6-75-5	6-6-75-5 W5	2,777	7,397	4,293
Pac. IOE Sylvia 10-35-75-7	10-35-75-7 W5	2,006	6,257	4,194
Pan Am. Shell A-1 Narrows 10-29-75-9	10-29-75-9 W5	1,971	6,289	4,281
Sunlite Salt Ck. 2-34-75-9	2-34-75-9 W5	1,992	6,270	4,253
Pan Am. Shell B-1 Narrows 6-35-75-9	6-35-75-9 W5	1,988	6,230	4,218
Hamilton IOE Narrows 14-14-75-10	14-14-75-10 W5	1,924	6,402	4,438
Uno-Tex Banff Salt Ck. 16-36-75-10	16-36-75-10 W5	1,946	6,229	4,269
H.B. Union Salt Ck. 16-34-75-13	16-34-75-13 W5	2,293	7,071	4,764
Guyer Triad Grouard 13-20-75-14	13-20-75-14 W5	1,919	7,014	5,071
Vallat Texaco Grouard 10-11-75-15	10-11-75-15 W5	1,913	7,056	5,107
I. Grouard No. 1	12-16-75-15 W5	1,917	7,194	5,251
Triad Iroquois 9-16	9-16-75-19 W5	2,078	7,861	5,760
Triad Iroquois 15-16	15-16-75-19 W5	2,093	7,857	5,751
Triad Iroquois 3-21	3-21-75-19 W5	2,106	7,925	5,801
I. Iroquois 10-21-75-19	10-21-75-19 W5	2,129	8,081	5,896
I. Little Smoky No. 1	14-15-75-22 W5	1,885	8,418	6,515
Triad Amr. Eaglesham 13-18-75-25	13-18-75-25 W5	2,075	9,405	7,291
W.R. et al. Adrana 6-32-75-25	6-32-75-25 W5	2,035	9,229	7,105
IOE Marten L. 2-35-76-4	2-35-76-4 W5	2,517	6,505	3,944
Cigol et al. Marten Mtn. 10-6-76-5	10-6-76-5 W5	2,548	6,756	4,148
IOE Marten Ck. 10-31-76-6	10-31-76-6 W5	2,360	6,421	4,044
Mesa et al. Narrows 10-5-76-8	10-5-76-8 W5	2,081	6,343	4,235

Name	Location	K.B.	T.D.	PG
Skelly A-1 Narrows 6-20-76-8	6-20-76-8 W5	2,167	6,363	4,181
Cdn. Sup. South Nipisi 10-36-76-8	10-36-76-8 W5	2,352	6,550	4,150
Mobil Uno-Tex Narrows N. 10-8-76-10	10-8-76-10 W5	2,341	6,760	4,415
RCV-Font-Tyee Narrows 5-27-76-10	5-27-76-10 W5	2,422	6,592	4,168
H.B. Union Salt Ck. 2-2-76-12	2-2-76-12 W5	2,269	6,818	4,533
Kewanee et al. Salt Ck. 10-24-76-12	10-24-76-12 W5	2,381	6,853	4,451
H.B. Union Buffalo Bay 6-4-76-14	6-4-76-14 W5	2,114	6,995	4,859
FPC Cdn. Sup. Buffalo Bay 10-5-76-14	10-5-76-14 W5	2,038	7,037	4,962
W.R. Big Prairie 10-31-76-16	10-31-76-16 W5	2,314	7,677	5,322
FPC et al. Iroquois 12-14-76-19	12-14-76-19 W5	2,116	7,954	5,836
Jeff L. I. Iroquois 10-32-76-20	10-32-76-20 W5	2,171	8,032	5,844
Colorado et al. Watino 10-34-76-25	10-34-76-25 W5	1,878	8,764	6,847
SOBC Smoky E. 2-8-76-26	2-8-76-26 W5	1,731	8,957	7,193
CS Nipisi 2-7-77-6	2-7-77-6 W5	2,339	6,390	4,031
Sinclair Cdn. Atl. A7-2	14-32-77-6 W5	2,178	6,159	3,975
Grt. Plns. et al. Nipisi 10-7-77-7	10-7-77-7 W5	2,350	6,480	4,097
Pinn. Japex et al. Nipisi 4-26-77-7	4-26-77-7 W5	2,280	6,305	3,986
Sinclair Pac. Narrows 10-19-77-8	10-19-77-8 W5	2,350G	6,496	4,076
Banner et al. Narrows 11-23-77-8	11-23-77-8 W5	2,323	6,405	4,057
B.A. Shaw Ck. 11-4-77-10	11-4-77-10 W5	2,365	6,588	4,215
Shell Pan Am. Huile 7-24-77-10	7-24-77-10 W5	2,355	6,373	3,999
Pan Am. A-1 Nipisi 2-34-77-10	2-34-77-10 W5	2,287	6,405	4,097
Sun B.A. Shaw Ck. 12-1-77-11	12-1-77-11 W5	2,306	6,482	4,170
Sun Shaw Ck. 4-2-77-11	4-2-77-11 W5	2,314	6,572	4,228
H.B. et al. Salt Ck. 2-10-77-12	2-10-77-12 W5	2,484	6,926	4,400
H.B. et al. Salt Ck. 16-34-77-12	16-34-77-12 W5	2,316	6,664	4,292
H.B. Salt Ck. 16-12-77-13	16-12-77-13 W5	2,433	6,945	4,501
FPC Cdn. Sup. Buffalo Bay 10-5-77-15	10-5-77-15 W5	2,296	7,274	4,971
H.B. Union Heart R. No. 1	4-17-77-16 W5	2,315	7,612	5,275
H.B. Union Heart R. No. 2	8-21-77-16 W5	2,190	7,386	5,170
CDR H.B. Heart R. 11-21-77-17	11-21-77-17 W5	2,138	7,500	5,335
I. Kathleen No. 1	5-1-77-20 W5	2,065	7,838	5,772
I. Falher No. 1	12-33-77-21 W5	1,915	7,740	5,825
Colo. et al. Girouxville 16-17-77-22	16-17-77-22 W5	1,891	8,030	6,109
Hamilton et al. Dreau 4-35-77-22	4-35-77-22 W5	1,889	7,954	6,015
H.B. Union Eaglesham 10-14-77-25	10-14-77-25 W5	1,859	8,294	6,430
Sohio Belloy 10-12-77-26	10-12-77-26 W5	1,905	8,650	6,725
West Wabiskaw No. 1 (Barnsdall)	11-17-78-2 W5	2,059	5,769	3,691
Home Nipisi 12-7-78-7	12-7-78-7 W5	2,187	6,297	4,075
Pan Am. A-1 Brintnell 2-17-78-7	2-17-78-7 W5	2,171	6,220	4,029
Pan Am. D-1 Nipisi 4-34-78-7	4-34-78-7 W5	2,180	6,228	4,018
Mobil Pan Am. SW. Nipisi 12-11-78-8	12-11-78-8 W5	2,200	6,208	3,980
Uno-Tex Nipisi 10-23-78-8	10-23-78-8 W5	2,177	6,188	3,966
Shell et al. Nipisi 10-34-78-8	10-34-78-8 W5	2,151	6,126	3,974
Skelly Cdn. Sup. A-1 Nipisi 13-1-78-9	13-1-78-9 W5	2,211	6,214	3,983
Placid S. Nipisi 4-4-78-9	4-4-78-9 W5	2,256	6,292	4,026
Shell et al. Nipisi 10-10-78-9	10-10-78-9 W5	2,175	6,173	3,983
CCOL et al. Huile 11-17-78-9	11-17-78-9 W5	2,137	6,335	4,146
Pan Am. Mbl. B-1 Nipisi 2-26-78-9	2-26-78-9 W5	2,123	6,199	4,064
Skelly Kwne, B-1 Shaw Ck. 10-17-78-10	10-17-78-10 W5	2,218	6,355	4,110
B.A. Utikuma 10-7-78-11	10-7-78-11 W5	2,381	6,425	4,011
Skelly IOE A-1 Shaw Ck. 12-15-78-11	12-15-78-11 W5	2,255	6,355	4,069
Muskeg A-1 Little Horse 10-27-78-11	10-27-78-11 W5	2,198	6,152	3,926
GPD Noel et al. Atikameg 6-36-78-11	6-36-78-11 W5	2,187	6,228	4,021

Name	Location	K.B.	T.D.	PC
Sun Fargo Salt Ck. 10-21-78-12	10-21-78-12 W5	2,307	6,510	4,200
Union Evans H.B. Salt Ck. 6-1	6-1-78-15 W5	2,330	7,008	4,638
Wainoco Sun Heart R. 4-35-78-15	4-35-78-15 W5	2,168	6,957	4,772
Mobil Kimiwan 8-21-78-18	8-21-78-18 W5	2,250	7,553	5,280
I. Kimiwan No. 1	15-21-78-20 W5	2,064	7,644	5,561
Home Almx. Falher 2-34-78-21	2-34-78-21 W5	1,973	7,727	5,739
I. Dreau 12-11-78-22	12-11-78-22 W5	1,900	7,827	5,900
W.R. et al. Culp 10-18-78-23	10-18-78-23 W5	1,821	8,190	6,297
W.R. et al. Wating 4-10-78-24	4-10-78-24 W5	1,258	7,915	6,502
H.B. Union Eaglesham E. 11-35MU-78-25	11-35-78-25 W5	1,876	8,071	6,192
B.A. Pastecho R. 2-30-79-4	2-30-79-4 W5	2,157	5,778	3,613
H.B. B.A. Nipisi 12-33-79-6	12-33-79-6 W5	2,141	5,993	3,836
Texaco Texcan Nipisi 4-7-79-7	4-7-79-7 W5	2,166	6,145	3,934
H.B. B.A. Nipisi 7-31-79-7	7-31-79-7 W5	2,171	6,070	3,891
H.B. B.A. Nipisi 8-33-79-7	8-33-79-7 W5	2,139	6,016	3,855
Shell et al. Nipisi 2-9-79-8	2-9-79-8 W5	2,156	6,174	4,004
Shell et al. Nipisi 2-16-79-8	2-16-79-8 W5	2,180	6,157	3,961
Shell et al. Nipisi 4-19-79-8	4-19-79-8 W5	2,128	6,136	3,994
Hamilton SOBC Nipisi 12-19-79-8	12-19-79-8 W5	2,126	6,011	3,808
Shell et al. Nipisi 6-20-79-8	6-20-79-8 W5	2,156	6,135	3,950
Shell et al. Nipisi 4-23-79-8	4-23-79-8 W5	2,172	6,171	3,978
Tex. Texcan Nipisi 10-24-79-8	10-24-79-8 W5	2,167	6,053	3,853
Shell et al. Nipisi 12-25-79-8	12-25-79-8 W5	2,173	6,112	3,935
Shell et al. Nipisi 10-27-79-8	10-27-79-8 W5	2,174	6,140	3,958
Shell et al. Nipisi 12-34-79-8	12-34-79-8 W5	2,141	6,063	3,899
GPD Noel et al. Atikameg 11-1-79-11	11-1-79-11 W5	2,204	6,100	3,875
Chev. W. Utikuma 14-13-79-11	14-13-79-11 W5	2,162	5,934	3,760
B.A. Utikuma L. 4-33	4-33-79-12 W5	2,165	6,084	3,883
H.B. Union Salt Ck. No. 1	12-9-79-13 W5	2,349	6,606	4,239
B.A. Utikuma 10-25-79-13	10-25-79-13 W5	2,192	6,232	4,022
W.R. KCY Salt Ck. 11-15-79-14	11-15-79-14 W5	2,193	6,720	4,479
GPD Noel et al. Kimiwan 9-3-79-18	9-3-79-18 W5	2,208	7,450	5,186
Apache et al. Kimiwan 13-11-79-19	13-11-79-19 W5	2,180	7,596	5,388
Colorado et al. Normandville 16-9	16-9-79-22 W5	1,905	7,627	5,714
I. Lalby No. 1	1-12-79-22 W5	1,938	7,847	5,906
Colorado Normandville 3-15-79-22	3-15-79-22 W5	1,911	7,415	5,473
Colorado Normandville 1-16-79-22	1-16-79-22 W5	1,906	7,424	5,494
I. Normandville No. 2	10-20-79-22 W5	1,880	7,658	5,718
I. Jean Côté 3-28-79-22	3-28-79-22 W5	1,899	7,974	6,051
Texcan et al. McConachie 2-2-80-6	2-2-80-6 W5	2,109	5,794	3,673
H.B. B.A. Nipisi 7-19-80-7	7-19-80-7 W5	2,195	6,056	3,855
H.B. B.A. Nipisi 2-21-80-7	2-21-80-7 W5	2,150	5,989	3,818
Pac. et al. Nipisi 10-15-80-8	10-15-80-8 W5	2,133	6,020	3,827
Pan Am. E-1 Nipisi 12-17-80-8	12-17-80-8 W5	2,140	6,065	3,896
Mobil NW. Nipisi 12-18-80-8	12-18-80-8 W5	2,145	6,050	3,895
Atl. IOE Nipisi 12-21-80-8	12-21-80-8 W5	2,172	6,038	3,844
Tex. Nipisi 10-31-80-8	10-31-80-8 W5	2,174	5,979	3,782
Atl. Muskwa 10-32-80-8	10-32-80-8 W5	2,172	6,007	3,828
Tex. Nipisi 4-35-80-8	4-35-80-8 W5	2,175	6,001	3,809
7 other PC wells in	80-8 W5	Ø		
Pan Am. C-1 Nipisi 4-13-80-9	4-13-80-9 W5	2,120	5,956	3,800
H.B. Union Nipisi 14-16-80-9	14-16-80-9 W5	2,147	5,870	3,707
Atl. Nipisi 2-18-80-9	2-18-80-9 W5	2,115	5,885	3,736
Pan Am. C-2 Nipisi 4-24-80-9	4-24-80-9 W5	2,156	6,070	3,886

Name	Location	K.B.	T.D.	PC
Atlantic IOE Nipisi 10-25-80-9	10-25-80-9 W5	2,183	5,985	3,791
Atlantic IOE Utk. R. 4-26-80-9	4-26-80-9 W5	2,136	5,923	3,769
Pan Am. H-2 Nipisi 12-32-80-9	12-32-80-9 W5	2,115	5,725	3,593
Pan Am. J-1 Nipisi 4-36-80-9	4-36-80-9 W5	2,144	5,985	3,816
12 other PC wells in	80-9 W5	Ø		
Pan Am. A-5 Utikuma 10-26-80-10	10-26-80-10 W5	2,180	5,632	3,423
Calstan Utikuma R. No. 16-27	16-27-80-11 W5	2,152	5,780	3,578
Pure TPC & O Utikuma 10-30-80-13	10-30-80-13 W5	2,308	6,428	4,110
Texcan et al. Kimiwan 12-6-80-16	12-6-80-16 W5	2,363	7,034	4,667
Union et al. N. Heart R. 15-15-80-16	15-15-80-16 W5	2,405	6,908	4,463
Union Evans N. Heart R. 5-23	5-23-80-16 W5	2,392	6,970	4,562
Clarck Reno 16-32-80-16	16-32-80-16 W5	2,397	6,850	4,443
Texcan et al. Kimiwan 4-22-80-17	4-22-80-17 W5	2,395	7,209	4,801
Shell Reno 2-25	2-25-80-17 W5	2,442	6,808	4,340
Shell Reno 16-25	16-25-80-17 W5	2,391	6,790	4,363
Dawson Springburn 12-34-80-17	12-34-80-17 W5	2,488	6,913	4,409
Syracuse Springburn 14-34-80-17	14-34-80-17 W5	2,476	6,877	4,388
Dawson Springburn 12-35-80-17	12-35-80-17 W5	2,458	7,024	4,556
Home et al. Springburn 2-32-80-18	2-32-80-18 W5	2,260	7,425	5,134
Pan Am. Shell A-1 Kimiwan 8-3-80-19	8-3-80-19 W5	2,167	7,444	5,273
Shell Kimiwan No. 1	2-26-80-20 W5	2,005	7,002	4,983
Colorado et al. Magloire 13-10-80-21	13-10-80-21 W5	2,070	7,726	5,649
Imperial Magloire No. 1	8-17-80-21 W5	2,089	7,770	5,651
W.R. et al. Nampa 6-23-80-21	6-23-80-21 W5	2,026	7,835	5,794
Imperial Tangent No. 1	13-18-80-23 W5	1,936	7,598	5,644
Colorado et al. Normandville 15-25	15-25-80-23 W5	1,894	7,458	5,559
H.B. Union N. Tangent No. 2	13-35-80-24 W5	1,885	7,319	5,405
Sinclair Atl. Utikuma 16-16-81-5	16-16-81-5 W5	2,093G	5,668	3,562
Atl. Muskwa 10-18-81-6	10-18-81-6 W5	2,142	5,805	3,642
Pan Am. G-1 Nipisi 13-7-81-7	13-7-81-7 W5	2,145	5,787	3,622
Pac. et al. Nipisi 10-20-81-7	10-20-81-7 W5	2,134	5,858	3,713
Atl. IOE Nipisi 10-5-81-8	10-5-81-8 W5	2,165	5,845	3,667
Pac. et al. Nipisi 10-8MU-81-8	10-8-81-8 W5	2,145	5,820	3,663
Pac. et al. Nipisi 10-17-81-8	10-17-81-8 W5	2,159	5,927	3,750
Pac. et al. Nipisi 12-17-81-8	12-17-81-8 W5	2,153	5,878	3,706
Arco Utikuma 6-18-81-8	6-18-81-8 W5	2,142	5,935	3,756
Atl. IOE Utikuma 12-30-81-8	12-30-81-8 W5	2,164	5,826	3,634
Husky et al. Nipisi 10-31-81-8	10-31-81-8 W5	2,187	5,989	3,783
25 other PC wells in	81-8 W5	Ø		
Pan Am. J-2 Nipisi 2-2-81-9	2-2-81-9 W5	2,124	5,988	3,864
Pan Am. J-6 Nipisi 11-3-81-9	11-3-81-9 W5	2,121	5,866	3,737
Arco IOE Mink 12-19-81-9	12-19-81-9 W5	2,137	5,780	3,632
Arco Utikuma 13-20-81-9	13-20-81-9 W5	2,116	5,859	3,726
Atl. IOE Utikuma 10-21-81-9	10-21-81-9 W5	2,068	5,932	3,838
Atl. IOE Utikuma 10-22-81-9	10-22-81-9 W5	2,107	5,856	3,739
Atl. Utikuma 2-24-81-9	2-24-81-9 W5	2,132	5,747	3,606
Uno-Tex Numac Utikuma 6-29-81-9	6-29-81-9 W5	2,119	5,682	3,539
Atl. IOE Utikuma 2-30-81-9	2-30-81-9 W5	2,143	5,609	3,451
Atl. IOE Utikuma 10-34-81-9	10-34-81-9 W5	2,136	5,664	3,491
Atl. IOE Utikuma 10-35-81-9	10-35-81-9 W5	2,138	5,802	3,631
26 other PC wells in	81-9 W5	Ø		
Pan Am. B-1 Utikuma 10-8-81-10	10-8-81-10 W5	2,164	5,742	3,550
Pan Am. A-4 Utikuma 8-10-81-10	8-10-81-10 W5	2,175	5,818	3,619
Atl. IOE Mink 4-22-81-10	4-22-81-10 W5	2,177	5,800	3,573
5 other PC wells in	81-10 W5	Ø		

Name	Location	K.B.	T.D.	PE
Williamson E. Reno 10-31-81-13	10-31-81-13 W5	2,233	6,200	3,949
I. et al. Heart R. 10-34-81-13	10-34-81-13 W5	2,234	6,096	3,842
ROC Utikuma 10-18-81-14	10-18-81-14 W5	2,301	6,571	4,249
ROC Calstan Reno 10-17-81-15	10-17-81-15 W5	2,384	6,775	4,380
ROC Calstan Reno 2-22-81-15	2-22-81-15 W5	2,303	6,642	4,323
Dawson Springburn 2-3-81-17	2-3-81-17 W5	2,457	6,783	4,317
Shell I. Springburn No. 2	5-3-81-17 W5	2,446	6,729	4,238
H.B. Johnson Ck. 10-6-81-19	10-6-81-19 W5	1,971	7,278	5,305
Joseph Maezala No. 5	5-18-81-20 W5	1,913	6,962	5,035
I. H.B. Marie Reine 6-7-81-21	6-7-81-29 W5	1,973	7,680	5,697
Winter Brownvale No. 1	13-19-81-25 W5	1,970	7,677	5,650
I. Futy. Godin L. 10-6-82-1	10-6-82-1 W5	1,908	5,009	3,096
Atl. Muskwa 2-22-82-6	2-22-82-6 W5	2,105	5,637	3,518
Mich. Wis. Amlo. Muskwa 11-8-82-7	11-8-82-7 W5	2,120	5,750	3,608
Huber et al. Musk 6-17-82-7	6-17-82-7 W5	2,114	5,550	3,413
Mich. Wis. Arco Muskwa 11-17-82-7	11-17-82-7 W5	2,064	5,502	3,428
Atl. Muskwa 4-19-82-7	4-19-82-7 W5	2,118	5,610	3,483
Huber et al. Musk 11-20-82-7	11-20-82-7 W5	2,045	5,647	3,584
Atl. Utikuma 10-7-82-8	10-7-82-8 W5	2,180	5,914	3,731
Atl. Muskwa 2-14-82-8	2-14-82-8 W5	2,171	5,750	3,568
Pac. et al. Utikuma 12-19-82-8	12-19-82-8 W5	2,192	5,947	3,720
Atl. Muskwa 4-36-82-8	4-36-82-8 W5	2,103	5,560	3,447
Atl. IOE Utikuma 2-1-82-9	2-1-82-9 W5	2,182	5,954	3,763
Atl. IOE Utikuma 10-2-82-9	10-2-82-9 W5	2,139	5,881	3,727
Atl. IOE Utikuma 10-3-82-9	10-3-82-9 W5	2,126	5,787	3,651
Atl. IOE Utikuma 4-10-82-9	4-10-82-9 W5	2,119	5,681	3,513
Atl. IOE Utikuma A12-10-82-9	12-10-82-9 W5	2,129	5,707	
Atl. IOE Utikuma 4-11-82-9	4-11-82-9 W5	2,125	5,723	3,580
Atl. IOE Utikuma 4-12-82-9	4-12-82-9 W5	2,133	5,726	3,571
Atl. IOE Utikuma 10-12-82-9	10-12-82-9 W5	2,148	5,865	3,690
Atl. IOE Utikuma 4-14-82-9	4-14-82-9 W5	2,155	5,790	3,627
Arco IOE Utikuma 2-15-82-9	2-15-82-9 W5	2,134	5,680	3,538
Atl. IOE Utikuma 10-15-82-9	10-15-82-9 W5	2,140	5,757	3,602
Atl. IOE Utikuma 2-21-82-9	2-21-82-9 W5	2,178	5,891	3,698
Atl. IOE Utikuma 10-22-82-9	10-22-82-9 W5	2,087	5,655	3,531
Banner et al. Utikuma 11-29-82-9	11-29-82-9 W5	2,193	6,010	3,797
Arco IOE Mink 10-15-82-10	10-15-82-10 W5	2,226	5,667	3,418
Atl. IOE Mink 12-18-82-10	12-18-82-10 W5	2,199	5,736	3,536
Shell Utikuma 10-4-82-11	10-4-82-11 W5	2,193	5,745	3,537
Arco Lubicon 12-16-82-12	12-16-82-12 W5	2,275	5,966	3,666
Arco Pan Am. Lubicon 12-26-82-12	12-26-82-12 W5	2,258	5,868	3,585
Cdn. Sup et al. Heart 4-27-82-15	4-27-82-15 W5	2,308	6,498	4,167
Calstan Bearhead No. 1	8-34-82-16 W5	2,293	6,439	4,119
Calstan Harmon R. 10-28-82-17	10-28-82-17 W5	2,405	6,283	3,853
I. Harmon Vy. 7-5-82-18	7-5-82-18 W5	2,295	7,294	4,931
Forest Baysel Harmon 15-9-82-18	15-9-82-18 W5	2,271	7,057	4,778
Harmon 13-21	13-21-82-20 W5	2,002	6,965	4,942
Mobil Muskwa L. 10-23-83-6	10-23-83-6 W5	1,912	5,324	3,396
Atl. Muskwa 4-21-83-7	4-21-83-7 W5	2,011	5,341	3,321
Atl. IOE N. Utikuma 4-20-83-8	4-20-83-8 W5	2,042	5,686	3,626
Mana et al. Muskwa 7-22-83-8	7-22-83-8 W5	2,071	5,645	3,553
Atl. IOE Utikuma 4-2-83-9	4-2-83-9 W5	2,198	5,931	3,716
FPC Chevron N. Utikuma 13-29-83-9	13-29-83-9 W5	2,213	5,879	3,553
Sun Calstan Shoal 4-14-83-10	4-14-83-10 W5	2,257	5,608	3,351
SOBC Calstan Shoal L. 4-23-83-10	4-23-83-10 W5	2,158	5,405	3,240

Name	Location	K.B.	T.D.	PC
Texaco Pan Am. Lubicon 2-32-83-11	2-32-83-11 W5	2,127	5,598	3,461
Rich. et al. E. Lubicon 4-32-83-12	4-32-83-12 W5	2,282	5,840	3,532
Chevron et al. Seal 10-10-83-13	10-10-83-13 W5	2,329	6,093	3,749
Calstan Bearhead 16-25-83-15	16-25-83-15 W5	2,352	6,035	3,669
Stanolind N. Bearhead No. 1	13-10-83-16 W5	2,240	5,994	3,736
Can. Delhi et al. Cadotte 5-32-83-16	5-32-83-16 W5	2,327	6,269	3,931
Shell Grimshaw 4-15-83-23	4-15-83-23 W5	1,928	6,910	4,969
Stanolind Grimshaw No. 1	16-13-83-24 W5	2,111	7,117	4,995
Shell Horse Hills No. 1	13-24-84-2 W5	2,077	5,010	2,897
Home Union Trout R. 6-22-84-3	6-22-84-3 W5	2,043	5,245	3,194
Home et al. Trout R. A10-31-84-4	10-31-84-4 W5	2,274	5,451	3,166
Grt. Plns. Triad Bat L. 6-11	6-11-84-5 W5	2,118	5,357	3,222
B.A. Bat L. 6-31-84-7	6-31-84-7 W5	1,987	5,293	3,296
IOE Bat L. 15-8-84-8	15-8-84-8 W5	2,017	5,150	3,121
IOE Bat L. 4-16-84-8	4-16-84-8 W5	2,043	5,145	3,085
Numac et al. Bat L. 2-18-84-8	2-18-84-8 W5	1,969	5,340	3,358
Baysel et al. Bat L. 10-33-84-8	10-33-84-8 W5	1,968	5,302	3,272
C.S. Lubicon R. No. 1	12-19-84-9 W5	1,820	5,456	3,254
Cdn. Sup. LoonS 10-22-84-9	10-22-84-9 W5	1,917	5,371	3,385
Chevron et al. LoonS 10-28-84-9	10-28-84-9 W5	1,883	5,059	3,161
BP et al. Mink 11-3-84-10	11-3-84-10 W5	2,006	5,309	3,264
IOD Chevron Lubicon 2-27-84-10	2-27-84-10 W5	1,801	5,102	3,279
C.S. Lubicon L. No. 1	10-21-84-11 W5	1,848	5,355	3,239
Midwest et al. Lubicon 12-30-84-13	12-30-84-13 W5	2,023	5,673	3,561
Calstan Cadotte R. No. 4-29	4-29-84-15 W5	2,308	5,938	3,602
Calstan Little Cadotte L. 2-15	2-15-84-16 W5	2,385	5,912	3,510
Forest et al. Cadotte L. 1-28-84-16	1-28-84-16 W5	2,360	5,953	3,582
Stanolind E. Peace R. No. 1	1-22-84-17 W5	2,227	6,096	3,858
Cdn. Sbd. BA Harmon 10-23-84-18	10-23-84-18 W5	2,225	6,384	4,153
Home Canso Trout R. 6-15-85-4	6-15-85-4 W5	2,270	5,458	3,178
Union Home Hospital 4-28-85-4	4-28-85-4 W5	2,325	5,422	3,053
Home Canso Trout R. 6-36-85-4	6-36-85-4 W5	2,414	5,416	2,968
HB Shoal R. 10-23-85-6	10-23-85-6 W5	2,181	5,325	3,069
IOE Bat L. 15-9-85-8	15-9-85-8 W5	1,970	5,195	3,218
Numac KR RB Bat 15-21-85-8	15-21-85-8 W5	1,967	5,231	3,233
Numac KR RB Bat 16-27-85-8	16-27-85-8 W5	1,952	5,185	3,168
Chevron et al. Loon 10-4-85-9	10-4-85-9 W5	1,899	5,000	3,092
Calstan Sptst. Loon Lks. 10-7-85-9	10-7-85-9 W5	1,808	5,085	3,269
Chevron et al. Loon 4-30-85-9	4-30-85-9 W5	1,725	5,075	3,158
8 other PC wells in	85-9 W5	⊠		
Grt. Plns. Triad Lubicon L. 11-3	11-3-85-12 W5	1,858	5,156	3,250
Grt. Plns. Lubicon L. 10-6-85-12	10-6-85-12 W5	1,836	5,180	3,308
Chevron Lubicon 5-31-85-12	5-31-85-12 W5	1,880	5,260	3,357
Amr. Crn. DA Cadotte 10-8-85-15	10-8-85-15 W5	2,084	5,467	3,364
Shell Sec 9-4-85-17	9-4-85-17 W5	2,229	5,955	3,707
Mill Cty et al. Cadotte 7-16-85-17	7-16-85-17 W5	2,259	5,983	3,714
Forest Shell Peace R. 14-29	14-29-85-18 W5	2,018	5,705	3,675
Shell Peace R. 11-31	11-31-85-18 W5	2,004	5,786	3,755
Shell Cadotte No. 1	16-23-85-19 W5	2,012	6,106	4,078
Forest Shell Peace R. 14-25	14-25-85-19 W5	2,008	6,030	4,016
CDR HB et al. Peace R. 1-16-85-21	1-16-85-21 W5	1,695	6,242	4,532
HB Union Chinook No. 1	16-24-85-24 W5	2,213	6,953	4,727
Shell Maria L. No. 1	2-28-86-4 W5	2,266	5,220	2,934
Texaco S. Peerless 6-10-86-5	6-10-86-5 W5	2,306	5,228	2,890
Texaco IOE Peerless S. 2-17-86-6	2-17-86-6 W5	2,050	5,104	3,023

Name	Location	K.B.	T.D.	PC
Chevron SOC IOE Bat 9-6-86-7	9-6-86-7 W5	2,033	5,107	3,055
SOC IOE S. Red Earth 6-14-86-7	6-14-86-7 W5	2,116	5,135	3,010
IOE Red Earth S. 12-29-86-7	12-29-86-7 W5	2,067	5,057	2,978
B.A. Loon L. 10-20-86-8	10-20-86-8 W5	1,929	4,983	3,041
2 other PC wells in	86-8 W5	Ø		
Union Red Earth 12-32-86-9	12-32-86-9 W5	1,732	4,791	3,032
3 other PC wells in	86-9 W5	Ø		
Apache Weasel 11-2-86-10	11-2-86-10 W5	1,726	4,848	3,086
Wainoco Mont. Loon L. 12-33-86-10	12-33-86-10 W5	1,738	4,976	3,222
3 other PC wells in	86-10 W5	Ø		
IOD Chevron Mud L. 3-3-86-11	3-3-86-11 W5	1,807	4,981	3,141
Tex. Grt. Plns. Lubicon 10-22-86-12	10-22-86-12 W5	1,912	5,207	3,290
Colonial et al. Cadotte 10-34-86-12	10-34-86-12 W5	1,960	5,137	3,168
Chevron Lubicon 4-13-86-13	4-13-86-13 W5	1,917	5,242	3,300
Chevron Lubicon 6-14-86-13	6-14-86-13 W5	1,918	5,195	3,245
Chevron Lubicon 14-14-86-13	14-14-86-13 W5	1,930	5,217	3,273
H.B. Lubicon 2-17-86-13	2-17-86-13 W5	1,906	5,380	3,430
H.B. Lubicon 10-24-86-13	10-24-86-13 W5	1,969	5,262	3,251
Ashland et al. Martin L. 4-32-86-13	4-32-86-13 W5	1,912	5,288	3,364
Chevron et al. Cadotte 6-19-86-14	6-19-86-14 W5	1,930	5,195	3,235
CDN. Sbd. Cadotte 10-16	10-16-86-15 W5	1,959	5,495	3,459
Chevron et al. Cadotte 1-24-86-15	1-24-86-15 W5	1,937	5,149	3,191
Cadotte 9-9	9-9-86-16 W5	1,916	5,320	3,399
Forest B.A. Cadotte 3-24-86-17	3-24-86-17 W5	2,063	5,546	3,441
Shell Three Creeks No. 1	5-12-86-19 W5	1,963	5,631	3,651
Shell Runaway L. No. 1	16-25-86-20 W5	1,705	6,075	4,281
Pac. St. Germain No. 1	5-21-86-22 W5	2,039	6,589	4,550
H.B. et al. St. Germaine 8-13-86-23	8-13-86-23 W5	2,116	6,649	4,516
Shell St. Germaine 14-35-86-23	14-35-86-23 W5	2,065	6,180	4,100
Amr. CR CS Dixonville 14-28-86-24	14-28-86-24 W5	2,071	7,010	4,905
Texaco Peerless L. A2-33-87-5	2-33-87-5 W5	2,392	5,075	2,678
Union Red Earth 10-7-87-7	10-7-87-7 W5	2,038	4,971	2,923
Numac et al. Red Earth 2-19-87-7	2-19-87-7 W5	2,037	5,070	3,025
Union Red Earth 12-30-87-7	12-30-87-7 W5	2,032	5,030	2,992
Uno-Tex Numac Red Earth 10-33-87-7	10-33-87-7 W5	2,011	4,968	2,936
4 other PC wells in	87-7 W5	Ø		
Cox Dekalb Red Earth 2-30-87-8	2-30-87-8 W5	1,781	4,930	3,095
Union Red Earth 12-31-87-8	12-31-87-8 W5	1,743	4,746	2,987
33 other PC wells in	87-8 W5	Ø		
Dome et al. Red Earth 12-14-87-9	12-14-87-9 W5	1,715	4,782	3,047
9 other PC wells in	87-9 W5	Ø		
Uno-Tex et al. Loon 2-29-87-10	2-29-87-10 W5	1,822	4,852	3,024
4 other PC wells in	87-10 W5	Ø		
Davis Forest Lubicon 6-8-87-12	6-8-87-12 W5	1,995	5,423	3,412
Chevron et al. E. Lubicon 6-22-87-12	6-22-87-12 W5	2,028	5,230	3,175
Sinclair Shell Loon R. 16-26-87-12	16-26-87-12 W5	1,985G	5,110	3,109
KCL Midwest Lubicon 2-21-87-13	2-21-87-13 W5	2,160	5,478	3,306
KCL Mdt IOE Lubicon 10-22-87-13	10-22-87-13 W5	2,175	5,467	3,275
KCL et al. Lubicon 2-26-87-13	2-26-87-13 W5	2,163	5,385	3,193
TPPL Uno-Tex Golden 13-5-87-14	13-5-87-14 W5	1,939	5,262	3,297
Lubicon "A" No. 1	11-8-87-14 W5	2,026	5,259	3,214
I.N.C. Golden 6-14-87-14	6-14-87-14 W5	2,036	5,392	3,324
Cree et al. Lubicon 7-33-87-14	7-33-87-14 W5	2,164	5,770	3,498
5 other PC wells in	87-14 W5	Ø		

Name	Location	K.B.	T.D.	PE
TPPL GWG Golden 9-2-87-15	9-2-87-15 W5	2,025	5,400	3,333
Shell Peace R. 12-10-87-19	12-10-87-19 W5	1,813	5,893	4,003
CDR NE. Peace R. 16-21-87-20	16-21-87-20 W5	1,663	5,680	3,980
Mich. Wis. et al. Rousseau 7-25-87-22	7-25-87-22 W5	1,945	6,220	4,223
Mutex B.A. N. Star 10-30-87-25	10-30-87-25 W5	2,250	6,885	4,602
Union Red Earth 14-17-88-6	14-17-88-6 W5	2,228	5,059	2,812
Union Red Earth 4-5-88-7	4-5-88-7 W5	2,033	5,045	3,007
Ashland et al. Red Earth 12-6-88-7	12-6-88-7 W5	2,010	5,033	3,007
Union Red Earth 4-20-88-7	4-20-88-7 W5	2,061	5,044	2,959
Trnsocn et al. Red Earth 12-21-88-7	12-21-88-7 W5	2,053	5,075	2,982
Freeport et al. Red Earth 12-24-88-7	12-24-88-7 W5	2,112	4,984	2,863
3 other PE wells in	88-7 W5	☒		
Union Red Earth 10-19-88-8	10-19-88-8 W5	1,720	4,671	2,939
Dec. et al. Red Earth 11-23-88-8	11-23-88-8 W5	1,902	4,880	2,954
Union Red Earth 4-29	4-29-88-8 W5	1,726	4,653	2,918
17 other PE wells in	88-8 W5	☒		
Ashland et al. Red Earth 12-15-88-9	12-15-88-9 W5	1,697	4,766	3,049
Ashland et al. Red Earth 2-16-88-9	2-16-88-9 W5	1,706	4,800	3,066
9 other PE wells in	88-9 W5	☒		
Seafort Cdn. Sup. Otter 10-18-88-11	10-18-88-11 W5	2,038	5,350	3,220
C.D.P. et al. Loon L. 2-26-88-11	2-26-88-11 W5	1,963	5,170	3,205
Shell Lubicon 6-5-88-13	6-5-88-13 W5	2,225	5,497	3,261
Arco et al. Golden L. 10-18-88-18	10-18-88-18 W5	1,936	5,712	3,768
Texaco et al. Rousseau 2-6-88-21	2-6-88-21 W5	1,935	6,315	4,373
Evans et al. Peace R. 6-13	6-13-88-22 W5	1,996	6,186	4,184
Shell Lonestar 14-20-88-23	14-20-88-23 W5	2,072	6,305	4,099
Grt. Plns. et al. Dixonville No. 16-12	16-12-88-24 W5	2,167	6,875	4,690
Mont. Ang. Am. Lone Star 11-17-88-24	11-17-88-24 W5	2,175	6,978	4,785
Decalta IOE Quitting 6-21-89-1	6-21-89-1 W5	2,436	4,880	2,421
Union Red Earth 12-21-89-6	12-21-89-6 W5	2,175	4,944	2,745
Union Red Earth 4-4-89-7	4-4-89-7 W5	2,019	5,027	2,957
Union Red Earth A2-17-87-7	2-17-87-7 W5	1,912	4,772	2,830
Freeport et al. Red Earth 16-19-89-7	16-19-89-7 W5	1,850	4,848	2,987
Texaco Union Redfish 10-23-89-7	10-23-89-7 W5	1,958	4,855	2,866
Freeport et al. Red Earth 15-4-89-8	15-4-89-8 W5	1,742	4,810	2,976
Dome Cdn. Sup. Red Earth 11-5-89-8	11-5-89-8 W5	1,685	4,860	3,035
Mana et al. Red Earth 12-6-89-8	12-6-89-8 W5	1,670	4,810	3,020
Mana Red Earth 4-1-89-9	4-1-89-9 W5	1,641	4,810	3,075
Cdn. Sup. Dome Loon R. 4-16-89-9	4-16-89-9 W5	1,659	4,777	3,099
Mana Joan 16-26-89-9	16-26-89-9 W5	1,639	4,706	3,054
Union Red Earth 10-34-89-9	10-34-89-9 W5	1,645	4,730	3,065
Mana Dome Joan 7-35-89-9	7-35-89-9 W5	1,638	4,729	3,066
Apache et al. Otter 10-15-89-10	10-15-89-10 W5	1,781	4,950	3,130
Apache et al. Loon 10-16-89-10	10-16-89-10 W5	1,820	5,003	3,148
Calstan et al. Loon R. 4-23-89-12	4-23-89-12 W5	2,457	5,812	3,321
KCL et al. Otter 10-20-89-13	10-20-89-13 W5	2,279	5,587	3,289
TPPL GWG Shell Ochre 7-1-89-16	7-1-89-16 W5	2,209	5,810	3,555
Amr. B. [illegible] Jackpine 4-33-89-18	4-33-89-18 W5	2,010	5,685	3,610
B.A. Jo[illegible]k. 6-20-89-19	6-20-89-19 W5	1,830	5,905	4,060
Bow Vy. IOE Fairacres 14-10-89-22	14-10-89-22 W5	1,675	6,410	4,603
H.B. Union Deadwood No. 1	8-20-89-22 W5	1,642	5,890	4,238
Shell Lonestar 9-2-89-24	9-2-89-24 W5	2,151	6,728	4,525
Mesa Gulf Peerless 11-18-90-2	11-18-90-2 W5	2,108	4,612	2,481
Mobil Peerless L. 9-7-90-3	9-7-90-3 W5	2,520	4,988	2,448

Name	Location	K.B.	T.D.	PE
Texaco Syr. Peerless 10-21-90-3	10-21-90-3 W5	2,135	4,664	2,515
Sinclair Peerless L. 12-23-90-5	12-23-90-5 W5	2,372G	5,080	2,698
Sinclair Peerless L. 16-8-90-6	16-8-90-6 W5	2,129G	4,861	2,701
Sinclair Peerless 10-9-90-6	10-9-90-6 W5	2,183G	4,880	2,688
Cankee et al. Redfish 6-26-90-8	6-26-90-8 W5	1,663	4,534	2,853
Mana Dome Joan 3-12-90-9	3-12-90-9 W5	1,635	4,670	3,027
Union Red Earth 10-31-90-9	10-31-90-9 W5	1,661	4,774	3,069
Apache et al. Otter 3-11-90-10	3-11-90-10 W5	1,729	4,808	3,057
Stanolind Loon R. No. 1	16-23-90-11 W5	2,017	5,320	3,159
Atl. Chev. Otter 10-23-90-12	10-23-90-12 W5	2,341	5,588	3,226
Shell HB Lubicon 10-2-90-13	10-2-90-13 W5	2,374	5,616	3,224
Cdn. Sbd. Hon. N. Cadotte 15-24	15-24-90-15 W5	2,431	5,819	3,376
Uno-Tex. Cham. Golden 1-10-90-16	1-10-90-16 W5	2,279	5,984	3,689
Jeff. L. et al. Jackpine 4-7-90-18	4-7-90-18 W5	1,987	5,816	3,825
Jeff. L. OXY Jackpine 10-5-90-19	10-5-90-19 W5	1,893	5,777	3,883
Home et al. N. Star 8-14-90-21	8-14-90-21 W5	1,602	5,700	4,086
H.B. Union N. Star No. 1	12-18-90-22 W5	1,587	6,085	4,480
Union Mobil N. Star 12-25-90-22	12-25-90-22 W5	1,526	5,860	4,306
H.B. Union N. Star 4-14-90-24	4-14-90-24 W5	2,138	7,076	4,882
IOE Liege R. 10-6-91-1	10-6-91-1 W5	1,943	4,330	2,349
Altair et al. Clark Ck. 10-15-91-5	10-15-91-5 W5	2,009	4,684	2,665
Sinclair et al. Hunt 11-29-91-6	11-29-91-6 W5	1,808G	4,607	2,781
I. Vega 9-35-91-6	9-35-91-6 W5	1,981	4,705	2,707
SOBC et al. N. Red Earth 2-17-91-7	2-17-91-7 W5	1,679	4,646	2,948
SOBC Hunt Ck. 4-34-91-7	4-34-91-7 W5	1,650	4,554	2,880
Arco et al. Hunt 6-35-91-7	6-35-91-7 W5	1,657	4,439	2,771
Union Red Earth 8-6-91-8	8-6-91-8 W5	1,636	4,554	2,890
Uno-Tex. Union Vega 4-8-91-8	4-8-91-8 W5	1,639	4,527	2,882
Atl. Uno-Tex. Loon R. 12-18-91-8	12-18-91-8 W5	1,632	4,615	2,982
Atl. Loon R. 2-13-91-9	2-13-91-9 W5	1,634	4,622	2,982
Champlin et al. Loon R. 7-26-91-9	7-26-91-9 W5	1,653	4,630	2,953
Atl. Dome Loon R. 12-25-91-10	12-25-91-10 W5	1,733	4,753	2,996
H.B. Sawn 11-11-91-11	11-11-91-11 W5	2,239	5,417	3,151
ROC Sawn L. 13-26-91-12	13-26-91-12 W5	2,563	5,735	3,163
Ashland et al. Sawn 11-10-91-13	11-10-91-13 W5	2,511	5,872	3,357
Atl. Sawn L. 4-20-91-13	4-20-91-13 W5	2,451	5,809	3,340
Atl. Sawn L. 10-27-91-13	10-27-91-13 W5	2,539	5,822	3,263
Calstan Pan Am. Jackpine 12-31-91-14	12-31-91-14 W5	2,384	5,934	3,520
Texaco et al. Jackpine 4-27-91-15	4-27-91-15 W5	2,290	5,987	3,678
Union Mobil N. Star 12-8-91-21	12-8-91-21 W5	1,536	6,084	4,531
Union Mobil N. Star 10-27-91-21	10-27-91-21 W5	1,534	5,890	4,306
GPD Noel et al. Senex 11-8-92-3	11-8-92-3 W5	1,861	4,336	2,461
GPD Noel et al. Senex 6-19-92-3	6-19-92-3 W5	2,053	4,423	2,369
GPD et al. Senex 11-23-92-4	11-23-92-4 W5	1,913	4,245	2,331
GPD Noel et al. Senex 7-27-92-4	7-27-92-4 W5	1,883	4,265	2,369
GPD Noel et al. Senex 6-36-92-4	6-36-92-4 W5	2,052	4,469	2,402
Altair et al. Bad Rapids 11-27-92-5	11-27-92-5 W5	1,939	4,571	2,605
Calstan East Lafond 4-13-92-7	4-13-92-7 W5	1,645	4,431	2,761
Arco Hunt 2-16-92-7	2-16-92-7 W5	1,628	4,461	2,806
HB Loon R. 10-5-92-8	10-5-92-8 W5	1,617	4,624	2,981
SOBC Calstan Lafond Ck. 10-16-92-9	10-16-92-9 W5	1,681	4,604	2,915
Atl. Sawn L. 16-21-92-11	16-21-92-11 W5	2,259	5,458	3,194
Arco Sawn 13-1-92-13	13-1-92-13 W5	2,554	5,816	3,252
Placid Arco Sawn L. 10-7-92-13	10-7-92-13 W5	2,450	5,792	3,322

Name	Location	K.B.	T.D.	PE
Pure et al. Sawn 10-30-92-13	10-30-92-13 W5	2,330	5,700	3,297
Pure TPC & O Jackpine L. 8-6-92-16	8-6-92-16 W5	2,163	5,899	3,723
Chevron AOG Jackpine 2-16-92-16	2-16-92-16 W5	2,240	5,840	3,558
IOE Jackpine 12-23-92-16	12-23-92-16 W5	2,332	5,895	3,542
Marathon Jackpine 12-26-92-16	12-26-92-16 W5	2,343	6,043	3,636
CD et al. Notikewin 10-26-92-22	10-26-92-22 W5	1,537	6,118	4,565
Royalite Manning No. 1	8-4-92-23 W5	1,597	6,351	4,737
Arco IOE Seaforth Ck. A10-10-93-1	10-10-93-1 W5	2,142	4,375	2,206
I. House Ck. No. 1	13-28-93-2 W5	2,110	4,451	2,328
GPD Noel et al. Senex 10-5-93-3	10-5-93-3 W5	2,001	4,297	2,287
GPD Noel et al. Senex 11-10-93-4	11-10-93-4 W5	1,886	4,322	2,424
GPD Noel et al. Senex 7-31-93-4	7-31-93-4 W5	1,854	4,400	2,516
Pan Am. A-1 Peerless L. 6-8-93-5	6-8-93-5 W5	1,933	4,497	2,499
Fina Panny 6-5-93-6	6-5-93-6 W5	1,654	4,355	2,686
OHIO Lafond Ck. 10-15-93-8	10-15-93-8 W5	1,582	4,445	2,830
Chevron E. Russell 2-26-93-9	2-26-93-9 W5	1,639	4,815	3,053
Calstan Murphy Bison 10-27-93-15	10-27-93-15 W5	2,084	5,647	3,533
Union Grant L. 11-31	11-31-93-15 W5	2,042	5,775	3,650
Fina Cache 11-20-93-16	11-20-93-16 W5	2,239	5,979	3,677
Jeff. L. et al. Chester 12-9-93-18	12-9-93-18 W5	1,770	5,848	4,050
H.B. Union E. Peace R. No. 1	9-24-93-18 W5	1,871	5,705	3,803
B.A. Chester Ck. 10-3-93-19	10-3-93-19 W5	1,717	5,784	4,051
B.A. H.B. Chester Ck. 4-19-93-19	4-19-93-19 W5	1,564	5,782	4,206
Wainoco et al. Manning 12-17-93-21	12-17-93-21 W5	1,520	6,017	4,480
Chevron Pubco Manning 13-1-93-22	13-1-93-22 W5	1,524	6,111	4,570
GPD Noel et al. Senex 10-2-94-5	10-2-94-5 W5	1,840	4,396	2,540
Fina Panny 6-18-94-7	6-18-94-7 W5	1,527	4,400	2,863
Hon. Union S. Lafond Ck. 6-6-94-10	6-6-94-10 W5	2,000	5,109	3,108
Arco Chevron Lafond 2-23-94-10	2-23-94-10 W5	1,781	4,825	3,017
FPC Can. Delhi Bison 7-17-94-13	7-17-94-13 W5	2,250	5,674	3,406
Placid et al. Bison 7-15-94-14	7-15-94-14 W5	1,856	5,355	3,466
Union et al. Bison L. 6-14-94-15	6-14-94-15 W5	1,945	5,506	3,543
Midwest Chev. Bison 10-17-94-15	10-17-94-15 W5	1,938	5,565	3,592
Bata Chevron Bison 10-35-94-15	10-35-94-15 W5	1,906	5,465	3,518
Jeff. L. et al. Bison 10-16-94-16	10-16-94-16 W5	2,056	5,772	3,700
H.B. Union E. Peace R. No. 2	7-34-94-18 W5	1,512	5,370	3,844
FPC Futy. Peace R. 10-10-94-19	10-10-94-19 W5	1,517	5,373	3,843
Liberal Mobil Notikewin 2-25	2-25-94-22 W5	1,518	6,142	4,602
Westcoast HB Sputina 9-36-95-2	9-36-95-2 W5	2,315	4,525	2,185
GPD Noel et al. Senex 10-1-95-5	10-1-95-5 W5	1,782	4,320	2,518
Cdn. Sup. MCD Panny 4-22-95-8	4-22-95-8 W5	1,508	4,470	2,927
Hon. Union Lafond 12-4-95-9	12-4-95-9 W5	1,718	4,776	3,052
Cdn. Sbd. et al. Bison 10-5-95-15	10-5-95-15 W5	1,919	5,553	3,629
Honolulu et al. Bison 10-12-95-15	10-12-95-15 W5	1,901	5,411	3,499
Banff et al. Bison 10-16-95-15	10-16-95-15 W5	1,941	5,554	3,603
Homestead et al. Bison 11-36-95-16	11-36-95-16 W5	1,746	5,458	3,680
Fina Gravina 6-14-95-21	6-14-95-21 W5	1,478	5,990	4,475
B.A. Hawk Hills 12-5-95-22	12-5-95-22 W5	1,780	6,702	4,910
Homestead et al. Bison 10-29-96-16	10-29-96-16 W5	1,553	5,339	3,761
Honolulu Home Cache Ck. 6-35-96-17	6-35-96-17 W5	1,450	5,263	3,808
Arco et al. Bison 7-2-96-18	7-2-96-18 W5	1,459	5,371	3,875
Whitehall et al. Hawk 10-20-96-18	10-20-96-18 W5	1,428	5,520	4,053
Texaco Notikewin R. 6-30-96-19	6-30-96-19 W5	1,414	5,524	4,102
Tenn. Shell A2 Hawk H. 1-15-96-21	1-15-96-21 W5	1,518	5,960	4,380

Name	Location	K.B.	T.D.	PB
Tenn. Shell A1 Hawk H. 3-5-96-22	3-5-96-22 W5	2,055	6,940	4,837
H.B. Wabiskaw No. 1	4-6-97-9 W5	1,665	4,651	2,977
Amr. CR Talbot 10-35-97-13	10-35-97-13 W5	2,165	5,423	3,256
Cdn. Sbd. Buffalo Head 10-1-97-14	10-1-97-14 W5	1,994	5,461	3,460
Husky et al. Wolverine 10-21-97-15	10-21-97-15 W5	1,696	5,300	3,570
Hon. Mobil Wolverine 6-17-97-16	6-17-97-16 W5	1,492	5,252	3,750
Arco Cache 6-36-97-19	6-36-97-19 W5	1,410	5,585	4,140
Tenn. Shell A3 Hawk 11-8-97-20	11-8-97-20 W5	1,488	5,804	4,278
Mesa et al. Hawk 6-28-97-20	6-28-97-20 W5	1,438	5,835	4,372
H.B. Pan Am. Panny 6-6-98-1	6-6-98-1 W5	1,872	3,944	2,038
Hon. Union Senex Ck. 10-28-98-9	10-28-98-9 W5	1,536	4,469	2,912
Hon. Union Wabasca 6-5-98-10	6-5-98-10 W5	1,993	4,890	2,891
Cdn. Sbd. et al. Talbot L. 6-15-98-11	6-15-98-11 W5	2,545	5,574	3,021
Honolulu et al. Talbot L. 6-11-98-12	6-11-98-12 W5	2,591	5,701	3,108
HS Amhess Talbot 11-2-98-14	11-2-98-14 W5	2,085	5,551	3,442
Amr. et al. Wolverine 13-29-98-16	13-29-98-16 W5	1,462	5,241	3,756
Amr. et al. Wolverine 4-28-98-17	4-28-98-17 W5	1,402	5,298	3,884
Shell Nina L. 10-16-98-20	10-16-98-20 W5	1,390	5,763	4,356
Arco Bison 10-36-98-20	10-36-98-20 W5	1,390	5,562	4,158
ROC Hawk H. 6-2-98-23	6-2-98-23 W5	2,484	7,364	4,858
W.R. et al. Owl Ck. 14-36-99-6	14-36-99-6 W5	1,422	3,936	2,491
W.R. et al. Senex Ck. 6-33-99-7	6-33-99-7 W5	1,335	4,006	2,667
Chevron Am. Muddy R. 4-31-99-9	4-31-99-9 W5	2,159	5,025	2,835
Placid Chev. Wabiskaw 11-34-99-9	11-34-99-9 W5	1,474	4,350	2,838
Hon. Mobil Buffalo A 10-8-99-13	10-8-99-13 W5	2,256	5,636	3,344
Triad et al. Wolverine 6-14-99-17	6-14-99-17 W5	1,372	5,332	3,825
Arco Wolverine 2-23-99-18	2-23-99-18 W5	1,363	5,347	3,947
HS Carcajou 11-19-99-20	11-19-99-20 W5	1,506	5,948	4,429
HS Carcajou 10-22-99-20	10-22-99-20 W5	1,299	5,625	4,316
HHS Security Kemp 6-27-99-22	6-27-99-22 W5	1,524	6,222	4,684
Shell Owl River S.T. No. 1	7-2-100-4 W5	1,496	3,765	2,250
FPC Noel et al. Harper 7-36-100-4	7-36-100-4 W5	1,342	3,486	2,126
Calstan Senex Ck. 4-3-100-7	4-3-100-7 W5	1,330	4,011	2,664
Placid Amh. Wabiskaw 10-7-100-9	10-7-100-9 W5	1,995	4,818	2,791
Hon Union Mud Ck. A10-17-100-12	10-17-100-12 W5	2,100	5,241	3,127
HS Arco et al. Wolverine 11-7-100-16	11-7-100-16 W5	1,433	5,209	3,727
Banff et al. Buffalo R. 10-22-100-17	10-22-100-17 W5	1,392	5,206	3,802
Texcan Carcajou 10-24-100-18	10-24-100-18 W5	1,309	5,196	3,875
Cigol et al. Carcajou 6-26-100-19	6-26-100-19 W5	1,277	5,325	4,041
HS et al. Carcajou 11-1-100-20	11-1-100-20 W5	1,181	5,394	4,202
HS Carcajou 11-11-100-20	11-11-100-20 W5	1,185	5,453	4,250
Mobil Arco Carcajou 10-17-100-20	10-17-100-20 W5	1,225	5,540	4,295
Security et al. Kemp 10-10-100-22	10-10-100-22 W5	1,689	6,321	4,626
Security et al. Kemp 4-25-100-22	4-25-100-22 W5	1,384	5,946	4,550
Pan Am. Sun B-1 Mikkwa 1-11-101-2	1-11-101-2 W5	1,384	3,555	2,144
FPC Noel et al. Harper 3-7-101-5	3-7-101-5 W5	1,297	3,764	2,435
Petcal Cdn. Sup. Mikkwa 4-12-101-5	4-12-101-5 W5	1,309	3,675	2,331
GPD Noel et al. Owl 10-6-101-6	10-6-101-6 W5	1,235	3,792	2,527
Mesa et al. Mikkwa 11-4-101-9	11-4-101-9 W5	1,647	4,447	2,775
Mesa et al. Muskrat 11-7-101-10	11-7-101-10 W5	2,413	5,385	2,972
HB et al. Carcajou 10-3-101-15	10-3-101-15 W5	2,078	5,600	3,499
HB Minerals Carcajou 10-16-101-16	10-16-101-16 W5	1,566	5,230	3,652
Atlantic Buffalo 4-30-101-18	4-30-101-18 W5	1,194	5,207	3,956
Chevron et al. Hawk 12-17-101-19	12-17-101-19 W5	916	5,045	4,092

Name	Location	K.B.	T.D.	PE
Fina et al. Keg R. 10-20-101-20	10-20-101-20 W5	1,168	5,439	4,222
Sun et al. Kemp 4-28-101-21	4-28-101-21 W5	1,229	5,691	4,421
Champ. Pan Am. Mikkwa 6-36-102-5	6-36-102-5 W5	1,120	3,478	2,328
HB Carcajou 4-13-102-14	4-13-102-14 W5	2,617	5,895	3,269
Rich. etc. Wolverine 16-11-102-16	16-11-102-16 W5	1,871	5,401	3,485
Fina et al. Keg R. 10-27-102-21	10-27-102-21 W5	1,171	5,481	4,289
Pac. et al. Boyer 6-30-102-21	6-30-102-21 W5	1,190	5,567	4,362
HHS Fina et al. Keg 6-18-102-22	6-18-102-22 W5	1,297	5,920	4,602
Fina et al. Keg R. 6-28-102-23	6-28-102-23 W5	1,316	5,992	4,646
Brett et al. Keg R. 9-13-102-24	9-13-102-24 W5	1,357	6,142	4,739
Penzl et al. Keg R. 11-21-102-24	11-21-102-24 W5	1,370	6,239	4,846
HB Lib. Keg R. 10-33-102-24	10-33-102-24 W5	1,369	6,167	4,789
HB Mikkwa 7-35-103-8	7-35-103-8 W5	1,083	3,647	2,556
Fina et al. Keg R. 10-29-103-19	10-29-103-19 W5	1,180	5,243	4,038
Pac. Chev. Boyer 10-28-103-22	10-28-103-22 W5	1,217	5,668	4,431
Mutex IOE Edra 4-26-104-1	4-26-104-1 W5	955	2,808	1,836
Chev. Am. Harper 15-31-104-4	15-31-104-4 W5	1,004	3,200	2,156
HB Fort Vermilion No. 1	15-32-104-8 W5	1,010	3,640	2,614
Shell Uno-Tex. Cree 1-29-104-9	1-29-104-9 W5	1,026	3,795	2,722
Shell et al. Tall Cree 6-31-104-9	6-31-104-9 W5	1,005	3,575	2,539
Pinn Japex Crete 12-26-104-17	12-26-104-17 W5	1,108	4,757	3,625
Petcal IOE Keg R. 11-4-104-21	11-4-104-21 W5	1,149	5,480	4,259
Shell Cdn. Sup. Bede 2-27-104-24	2-27-104-24 W5	1,404	5,987	4,566
IOD et al. Birch R. 8-17-105-1	8-17-105-1 W5	864	2,785	1,893
IOE Pan Am. Harper Ck. 4-14-105-3	4-14-105-3 W5	942	3,038	2,034
Arco Scurry Cree 10-26-105-10	10-26-105-10 W5	972	3,624	2,631
HB Buffalo 4-19-105-18	4-19-105-18 W5	1,151	4,946	3,787
Pac. Keg R. No. 1	13-1-105-22 W5	1,171	5,468	4,279
Sinclair Ft. Vrm. A6-25-106-11	6-25-106-11 W5	883G	3,653	2,745
Miami Sun Bear R. 10-23-106-12	10-23-106-12 W5	921	3,868	2,933
Pinn et al. Boyer 11-15-106-17	11-15-106-17 W5	1,112	4,705	3,567
Ohio Bede Ck. 10-23-106-20	10-23-106-20 W5	1,096	5,087	3,988
Mutex IOE Mikkwa 1-28-107-5	1-28-107-5 W5	876	3,042	2,142
Buttes IOE Scurry R. 3-15-107-10	3-15-107-10 W5	856	3,508	2,631
Miami Sun Bear R. 16-10-107-12	16-10-107-12 W5	900	3,820	2,906
Gridoil R. 3-25-107-13	3-25-107-13 W5	911	3,973	3,033
Sun Bede Ck. No. 1	3-23-107-22 W5	1,165	5,437	4,229
Penzl et al. Bede Ck. 11-33-107-22	11-33-107-22 W5	1,197	5,480	4,255
Home et al. Fox L. 4-30-108-4	4-30-108-4 W5	862	2,988	2,082
Arco et al. Beaver 11-14-108-11	11-14-108-11 W5	868	3,556	2,666
CDR Ft. Vermilion 1-20-108-14	1-20-108-14 W5	938	4,133	3,168
Placid et al. High Level 7-24-108-18	7-24-108-18 W5	1,025	4,680	3,617
IOD IOE Fox L. 3-30-109-3	3-30-109-3 W5	844	2,770	1,892
GPD Noel et al. Jean d'Or 15-27-109-7	15-27-109-7 W5	905	3,210	2,281
Sun Frontier Boyer 16-33-109-14	16-33-109-14 W5	1,029	4,114	3,063
I. Surette L. No. 1	15-24-109-17 W5	1,015	4,467	3,449
Ashland Ck. High Level 6-29-109-17	6-29-109-17 W5	1,039	4,608	3,548
I. Crossroads No. 1	15-32-109-19 W5	1,092	4,871	3,604
IOE Bede 15-10-109-22	15-10-109-22 W5	1,239	5,186	3,904
Home et al. Wood Buff. 14-22-110-1	14-22-110-1 W5	830	2,425	1,574
Spooner et al. Lawrence 7-9-110-6	7-9-110-6 W5	935	3,150	2,190
Placid et al. Beaver 2-5-110-10	2-5-110-10 W5	1,048	3,700	2,620
Shell Union Ft. Vermilion 14-35-110-11	14-35-110-11 W5	1,194	3,894	2,670
BA IOE Negus Ck. 4-33-110-24	4-33-110-24 W5	1,337	5,699	4,351

Name	Location	K.B.	T.D.	PE
Husky IOE Rennie 16-21-111-4	16-21-111-4 W5	1,112	3,035	1,894
IOD IOE CEGO Rennie 3-22-111-4	3-22-111-4 W5	1,065	2,967	1,891
Fina et al. Margaret 4-12-111-6	4-12-111-6 W5	1,257	3,336	2,055
Pan Am. A-1 Bushe R. 16-27-111-16	16-27-111-16 W5	1,285	4,588	3,281
Shell Watt Mtn. S.T. No. 1	6-24-111-22 W5	2,460	6,391	3,918
Texaco IOE Wentzel 15-10-112-3	15-10-112-3 W5	1,085	2,873	1,768
Arco CS Carl 10-9-112-11	10-9-112-11 W5	1,616	4,325	2,672
CS Ponton E. 10-17-112-12	10-17-112-12 W5	1,580	4,404	2,812
Scurry et al. Caribou Mtn. No. 1	6-23-112-19 W5	1,238	4,793	3,542
Fina et al. Margaret 8-12-113-7	8-12-113-7 W5	3,147	5,315	2,113
Home et al. Meander 5-25-113-16	5-25-113-16 W5	1,730	4,930	3,164
Home et al. Meander 2-25-113-18	2-25-113-18 W5	1,459	4,855	3,377
Chevron Watt 7-7-113-21	7-7-113-21 W5	1,308	5,265	3,896
Chevron Watt 15-8-113-21	15-8-113-21 W5	1,287	5,210	3,887
IOE Henderson 5-18-113-22	5-18-113-22 W5	1,202	5,245	4,013
Shell BA Margaret L. 9-12-114-10	9-12-114-10 W5	3,044	5,419	2,356
UOHL Caribou 2-27-114-13	2-27-114-13 W5	2,757	5,695	2,847
Shell et al. Rapids 2-28-114-17	2-28-114-17 W5	1,606	5,018	3,296
IOE Upper Hay 7-30-114-23	7-30-114-23 W5	1,121	5,178	4,023
Pinn et al. Ponton 2-9-115-11	2-9-115-11 W5	2,979	5,515	2,507
Union et al. Caribou Mt. 4-6-115-17	4-6-115-17 W5	1,524	4,780	3,236
Shell et al. Rapids 13-21-115-17	13-21-115-17 W5	1,545	4,820	3,235
Home Almx Meander 10-27-115-20	10-27-115-20 W5	1,268	4,850	3,566
IOD IOE CEGO Melvin 12-18-115-21	12-18-115-21 W5	1,164	4,957	3,773
Home et al. Caribou 7-28-116-15	7-28-116-15 W5	2,179	5,156	2,940
Canso et al. Roe 10-22-116-20	10-22-116-20 W5	1,233	4,854	3,555
I. Adair Ck. No. 1	7-22-116-22 W5	1,114	5,077	3,793
Shell IOE Wood Buff. 15-8-117-1	15-8-117-1 W5	2,373	3,736	1,327
GPD Noel et al. Caribou 1-8-117-13	1-8-117-13 W5	2,728	5,510	2,749
B.A. Roe Ck. 13-27-117-18	13-27-117-18 W5	1,348	4,505	3,132
Canso et al. Roe 10-12-117-20	10-12-117-20 W5	1,241	4,759	3,499
Amr. et al. Steen R. 4-19-117-21	4-19-117-21 W5	1,005	4,729	3,699
Dome et al. Two L. 11-18-118-7	11-18-118-7 W5	2,823	4,830	1,974
GPD Noel et al. Caribou 9-14-118-16	9-14-118-16 W5	1,528	4,390	2,830
Pan Am. A-1 L. Rapids Ck. 4-28-118-16	4-28-118-16 W5	1,488	4,444	2,948
Home Almx Dizzy 16-27-118-17	16-27-118-17 W5	1,393	4,443	2,955
Chevron Lutose 1-22-118-20	1-22-118-20 W5	1,171	4,610	3,419
CDR Indian Ck. 4-32-118-21	4-32-118-21 W5	1,140	4,537	3,378
Chevron Lutose 16-34-118-21	16-34-118-21 W5	1,122	4,582	3,426
Sinclair et al. Indian Ck. 1-13-118-22	1-13-118-22 W5	1,111G	4,696	3,563
Chevron Steen R. 12-33-118-23	12-33-118-23 W5	1,163	4,853	3,649
Shell et al. Yates 16-21-119-10	16-21-119-10 W5	2,703	4,970	2,239
I. Lutose Ck. No. 1	7-10-119-20 W5	1,067	4,528	3,343
CDR Indian Ck. 4-7-119-21	4-7-119-21 W5	1,178	4,611	3,394
Mobil Indian Ck. 8-32-119-21	8-32-119-21 W5	1,144	4,486	3,282
Union SCAF Indian Ck. 15-28-119-23	15-28-119-23 W5	1,184	4,758	3,554
IOE Jack Lakes 8-17-120-1	8-17-120-1 W5	1,442	2,638	1,193
Shell et al. Yates 7-25-120-10	7-25-120-10 W5	2,739	4,959	2,149
Bralorne et al. Rapids 12-22-120-17	12-22-120-17 W5	1,214	4,125	2,900
Decalta Lutose Ck. 8-19-120-19	8-19-120-19 W5	1,061	4,147	3,043
Shell Lutose 10-8-120-21	10-8-120-21 W5	1,139	4,340	3,130
Mobil Russet 4-15-120-22	4-15-120-22 W5	1,162	4,305	3,126
KR et al. Russet 11-18-120-22	11-18-120-22 W5	1,204	4,535	3,314
I. Russet Ck. 9-20-120-22	9-20-120-22 W5	1,170	4,427	3,212

Name	Location	K.B.	T.D.	PC
Shell Lutose 4-19-121-19	4-19-121-19 W5	1,060	4,060	2,852
Arco Shell Steen 7-29-121-19	7-29-121-19 W5	1,036	3,985	2,924
Shell Lutose 8-3-121-20	8-3-121-20 W5	1,101	4,280	2,983
Shell Steen R. 14-29-121-20	14-29-121-20 W5	1,059	4,114	3,041
Mobil SE. Steen 14-15-121-21	14-15-121-21 W5	1,130	4,766	3,556
IOE Steen 12-19-121-21	12-19-121-21 W5	1,160	1,695	- 557
Dome et al. Steen 3-12-121-22	3-12-121-22 W5	1,152	3,595	- 550
Sun Russet Ck. 6-11	6-11-121-23 W5	1,399	4,780	3,310
Chevron Dizzy 14-8-122-18	14-8-122-18 W5	1,037	3,922	2,851
Dekalb et al. Steen 4-12-122-21	4-12-122-21 W5	1,130	4,141	2,960
Atk. IOE Steen 5-19-122-21	5-19-122-21 W5	1,252	4,192	2,906
Dekalb et al. Steen 5-27-122-21	5-27-122-21 W5	1,202	4,070	2,792
Ulster For. W. Steen 4-18-122-22	4-18-122-22 W5	2,011	5,250	3,139
Mobil Steen 1-28-122-22	1-28-122-22 W5	1,865	4,892	2,849
Mobil W. Steen 9-1-122-23	9-1-122-23 W5	1,893	5,233	3,320
Pan Am. A-1 Teepee 7-33-123-13	7-33-123-13 W5	1,178	3,368	2,177
I. Dizzy Ck. No. 1	3-33-123-17 W5	1,010	3,612	2,601
Chevron Jackpot 6-9-123-19	6-9-123-19 W5	1,030	3,934	2,864
Decalta Hay R. 4-34-123-21	4-34-123-21 W5	1,550	4,759	3,156
Mobil et al. Cameron 9-9-123-23	9-9-123-23 W5	2,302	5,647	3,306
Mobil Whitesand 12-31-124-11	12-31-124-11 W5	1,129	3,185	2,033
Chevron Teepee 13-35-124-14	13-35-124-14 W5	1,053	3,450	2,343
I. Rat L. No. 1	9-7-124-18 W5	1,003	3,731	2,721
CPD et al. Teepee 13-5-124-19	13-5-124-19 W5	1,067	4,050	2,930
Home et al. Jackpot 11-17-124-19	11-17-124-19 W5	1,076	3,950	2,752
Chevron Teepee 13-30-125-13	13-30-125-13 W5	1,028	3,262	2,211
Mobil Dizzy 8-19-125-15	8-19-125-15 W5	1,026	3,609	2,506
Chiefco Indian 2-5-125-18	2-5-125-18 W5	994	3,460	2,410
Grt. Plns. Rat L. 12-10-125-18	12-10-125-18 W5	975	3,653	2,621
Sinclair et al. Yates 6-25-125-18	6-25-125-18 W5	957G	3,545	2,573
Sinclair HB Jack 2-15-125-19	2-15-125-19 W5	1,049G	3,800	2,703
HB Cameron Hills 12-30-125-19	12-30-125-19 W5	1,327	4,139	2,789
Union Cameron Hills 2-3-125-23	2-3-125-23 W5	2,120	5,405	3,232
HB Cameron Hills 10-26-125-23	10-26-125-23 W5	2,165	5,355	3,161
I. Yates R. 16-18-126-14	16-18-126-14 W5	1,020	3,148	2,125
Mobil Cego Nugget 12-31-126-17	12-31-126-17 W5	963	3,468	2,475
Pan Am. B-1 Cameron S. 10-27-126-21	10-27-126-21 W5	2,326	5,286	2,942
Pan Am. A-1 Cameron S. 5-24-126-22	5-24-126-22 W5	2,265	5,341	3,029
Atl. et al. Gold Ck. 9-20-66-4	9-20-66-4 W6	2,713	13,679	C
SOBC N. Simonette 12-23-67-1	12-23-67-1 W6	2,430	11,819	C
Pan Am. A-1 Gold Ck. 4-34-67-4	4-34-67-4 W6	2,373	12,840	C
Pan Am. E-1 Gold Ck. 11-22-67-5	11-22-67-5 W6	2,361	13,189	10,805
Triad C&E Debolt 11-11-68-3	11-11-68-3 W6	2,344	12,304	9,930
Pan Am. A-1 Bald Mtn. 11-13-68-5	11-13-68-5 W6	1,895	12,338	10,397
Pan Am. G-1 Gold Ck. 10-16-69-5	10-16-69-5 W6	2,164	12,605	10,357
Economy Ck. Crown "A" No. 1	2-4-70-1 W6	2,075	11,090	8,980
FPC et al. Glen Leslie 11-8-70-3	11-8-70-3 W6	2,128	11,582	9,424
Texaco Am. Goodwin 10-23-71-1	10-23-71-1 W6	2,040	10,481	8,377
Plym. Pan Am. Bezanson 6-29-71-3	6-29-71-3 W6	2,088	11,300	9,168
Sun Pure Wembley 6-25-71-8	6-25-71-8 W6	2,394	12,670	10,272
Mobil Grande Prairie No. 6-28	6-28-72-4 W6	2,424	11,694	9,206
I. Clairmont No. 1	16-25-72-5 W6	2,446	11,710	9,249
Amr. Cr. "AQ" 2-2	2-2-73-1 W6	2,223	10,195	7,887
Amr. Cr. "AT" 3-29	3-29-73-1 W6	2,131	10,141	7,921

Name	Location	K.B.	T.D.	PG
Williamson Smoky Hts. 11-19-73-2 W6	11-19-73-2 W6	2,094	10,578	8,479
Amoco et al. A-1 Fitz 10-6-73-3	10-6-73-3 W6	2,182	10,919	8,681
Buttes et al. Clair 6-22-73-5	6-22-73-5 W6	2,277	11,172	8,885
Pubco et al. Clair 11-9-73-6	11-9-73-6 W6	2,338	12,000	9,568
Amr. Cr. "AM" 9-10	9-10-74-1 W6	2,101	9,885	7,765
Guyer JBA Puskwa 9-15-74-1	9-15-74-1 W6	2,066	9,960	7,869
Calstan Am. Smoky E. 14-15-74-1	14-15-74-1 W6	2,056	9,862	7,800
Sun et al. Puskwa 4-21-74-1	4-21-74-1 W6	2,033	10,033	7,967
OGF Cam. Smoky R. 14-22-74-1	14-22-74-1 W6	2,037	9,954	7,879
W.R. Smoky R. 10-23-74-1	10-23-74-1 W6	2,052	9,940	7,828
W.R. Smoky R. 4-34-74-1	4-34-74-1 W6	2,030	9,937	7,860
Calstan Smoky R. 13-20	13-20-75-2 W6	2,117	9,612	7,483
Pan Am. B-1 Woking 10-30-75-4	10-30-75-4 W6	2,623	10,582	7,931
Imperial Belloy No. 1	15-34-77-1 W6	2,015	8,561	6,515
Imperial Wanham 12-20-77-3	12-20-77-3 W6	2,419	9,347	6,901
Phillips Ksituan No. 1	7-36-77-9 W6	3,031	11,705	8,619
Imperial Belloy No. 2	4-20-78-1 W6	1,896	8,264	6,342
Imperial Spirit R. No. 1	12-20-78-6 W6	2,287	9,847	7,475
Triad et al. Belloy 6-31-79-2	6-31-79-2 W6	1,900	8,360	6,458
Honolulu Belloy 6-26-79-3	6-26-79-3 W6	1,901	8,238	6,299
Rich. Little Burnt R. 6-17	6-17-80-1 W6	1,922	8,294	6,341
MCD et al. Dunvegan 10-30-80-3	10-30-80-3 W6	1,931	7,790	5,799
Shell B.A. Bluesky No. 1	4-29-81-1 W6	2,090	7,255	5,139
Anderson et al. Dunvegan 6-2-81-4	6-2-81-4 W6	1,930	7,505	5,558
MCD et al. Dunvegan 10-5-81-4	10-5-81-4 W6	1,583	7,000	5,277
Union et al. Dunvegan 7-13-81-5	7-13-81-5 W6	1,932	6,643	4,698
Shell B.A. Whitelaw No. 1	2-14-82-2 W6	2,188	7,492	5,292
Am. Cr. CD Bingo 5-35-82-3	5-35-82-3 W6	2,244	7,561	5,298
Home Husky Highland 7-2-82-5	7-2-82-5 W6	1,955	7,635	5,577
Am. Cr. DV Whitelaw 2-31-83-1	2-31-83-1 W6	2,219	7,482	5,255
Shell B.A. Bingo Lake No. 1	2-5-83-2 W6	2,334	7,977	5,376
I. HB Deer Hill 8-35-83-3	8-35-83-3 W6	2,271	7,941	5,483
Chevron Royce 12-6-83-4	12-6-83-4 W6	2,173	8,220	5,882
Baysel I. Hines Ck. 14-31-84-2	14-31-84-2 W6	2,325	8,227	5,461
I. Royce No. 1	16-12-84-8 W6	2,116	8,014	5,894
I. Pan Am. Boy L. 14-31MU-84-12	14-31-84-12 W6	2,404	9,487	7,070
I. Hines Ck. 4-27-85-2	4-27-85-2 W6	2,569	8,750	6,181
Champ. Atl. Hines Ck. 10-17-85-3	10-17-85-3 W6	2,565	7,838	5,229
Texaco Pac. Dixonville A-1	14-25-86-1 W6	2,193	6,655	4,437
CDR et al. Dixonville 10-35-86-1	10-35-86-1 W6	2,226	6,520	4,238
Shell Worsley South 10-19-86-7	10-19-86-7 W6	2,107	7,616	5,486
HL Hunt Shell Worsley 10-27-86-9	10-27-86-9 W6	2,185	7,712	5,509
Buttes et al. Worsley 10-36-86-10	10-36-86-10 W6	2,305	7,905	5,527
Texaco Warrensville 6-24-87-1	6-24-87-1 W6	2,249	6,538	4,271
Sun Pan Am. Dixonville 2-16-87-2	2-16-87-2 W6	2,365	6,745	4,375
Pac. et al. Dixonville 6-29-87-2	6-29-87-2 W6	2,377	6,727	4,331
Shell Worsley E. 6-18-87-4	6-18-87-4 W6	2,784	8,470	5,626
Phillips Eureka No. 1	2-28-87-4 W6	2,804	8,665	5,796
Shell Worsley E. 10-16-87-5	10-16-87-5 W6	2,365	7,848	5,435
Shell Worsley 7-8-87-6	7-8-87-6 W6	2,212	7,996	5,768
Shell Worsley 10-19-87-6	10-19-87-6 W6	2,261	7,970	5,689
Shell Worsley 11-18-87-7	11-18-87-7 W6	2,203	7,928	5,687
Shell Worsley 10-22-87-7	10-22-87-7 W6	2,352	8,093	5,698
Shell Worsley 6-25-87-7	6-25-87-7 W6	2,357	8,139	5,773

Name	Location	K.B.	T.D.	PC
Shell Worsley 10-23-87-8	10-23-87-8 W6	2,268	8,065	5,682
Buttes et al. Worsley 3-8-87-9	3-8-87-9 W6	2,440	8,166	5,712
Shell Worsley 6-18-87-9	6-18-87-9 W6	2,304	8,251	5,938
Shell Worsley 10-23-87-9	10-23-87-9 W6	2,370	8,253	5,879
Shell Worsley 11-24-87-10	11-24-87-10 W6	2,383	8,374	5,987
Pan Am. A-1 Clear R. 11-16-87-11	11-16-87-11 W6	2,329	8,890	6,531
Pan Am. A-1 Cairn 2-11-87-13	2-11-87-13 W6	2,651	9,793	7,099
Alpine Beaton 5-11-88-1	5-11-88-1 W6	2,426	6,991	4,531
Clear Hills No. 14-10	14-10-88-2 W6	2,355	6,962	4,603
Clear Hills No. 4-15	4-15-88-2 W6	2,359	6,938	4,571
Clear Hills 8-16-88-2	8-16-88-2 W6	2,401	6,915	4,481
BA Whitemud R. 13-26-88-2	13-26-88-2 W6	2,765	7,692	4,920
HHS BA Eureka 10-12-88-4	10-12-88-4 W6	2,555	7,997	5,348
BP Ungas Rambling 11-32-88-5	11-32-88-5 W6	2,895	8,677	5,733
Shell Eureka R. No. 1	9-24-88-6 W6	2,976	8,720	5,714
BA HBU Worsley 7-4-88-7	7-4-88-7 W6	2,516	8,266	5,740
C.S. BA Lone Star No. 1	15-7-89-1 W6	2,741	7,667	4,795
Pan Am. A-1 S. Notikewin 12-8-89-2	12-8-89-2 W6	2,761	7,678	4,875
Phillips Philcan No. 1	12-29-89-4 W6	2,777	8,471	5,548
Triad Rambling 11-1-89-5	11-1-89-5 W6	2,888	8,470	5,542
Shell Clear Hills 4-15-89-12	4-15-89-12 W6	3,610	10,697	6,954
Stan. et al. Lovet Cr. A-1	12-32-90-2 W6	2,270	7,342	5,046
Pan Am. A-1 Doig R. 10-27-90-11	10-27-90-11 W6	3,112	10,125	6,942
Shell Clear Hills 16-17-90-12	16-17-90-12 W6	2,915	10,072	C
Shell Hotchkiss 15-9-93-1	15-9-93-1 W6	2,462	7,885	5,399
Shell IOE Notikewin 4-16-93-7	4-16-93-7 W6	2,991	9,490	6,486
Shell Hotchkiss 16-24-94-2	16-24-94-2 W6	2,348	7,923	5,554
I. Clear Hills 2-28-94-9	2-28-94-9 W6	2,476	9,502	7,019
Shell Hotchkiss 6-30-95-1	6-30-95-1 W6	2,272	7,930	5,648
Mobil Shell Hotchkiss 10-2-95-2	10-2-95-2 W6	2,524	8,122	5,574
Shell Botha R. 6-18-96-1	6-18-96-1 W6	2,222	7,816	5,555
Shell Botha R. 10-19-96-1	10-19-96-1 W6	2,251	7,724	5,458
KR et al. Border 16-19-97-11	16-19-97-11 W6	2,633	9,800	C
HB BA Border 12-6-98-11	12-6-98-11 W6	2,582	9,650	C
Cdn. Sbd. Hon. Keg R. 10-4-99-2	10-4-99-2 W6	2,444	7,944	5,490
Cdn. Sbd. Hon. Keg R. 16-8-99-3	16-8-99-3 W6	2,726	8,398	5,654
Pan Am. B-1 Chinchaga 6-8-99-7	6-8-99-7 W6	2,291	8,712	6,369
TCEX IOE Chinchaga 10-16-99-8	10-16-99-8 W6	2,522	8,958	6,436
Petcal IOE Keg Post 10-13-100-4	10-13-100-4 W6	2,514	7,970	5,428
HB BA Boundary 6-1-100-11	6-1-100-11 W6	3,106	9,898	C
Mesa Brett HB Ring 14-32-100-12	14-32-100-12 W6	3,017	10,055	C
Liberal Mobil Keg R. 10-24	10-24-101-1 W6	1,576	6,656	5,071
Petcal IOE Keg Post 15-8-101-3	15-8-101-3 W6	2,170	7,734	5,548
Cdn. Sbd. Hon. Keg R. 6-11	6-11-101-4 W6	1,963	7,320	5,334
IOE Corona 4-22-101-6	4-22-101-6 W6	2,053	8,083	5,977
IOE FPC Venus 10-2-101-8	10-2-101-8 W6	2,440	8,660	6,220
FPC et al. Drake 6-36-101-9	6-36-101-9 W6	2,714	8,975	6,068
Can. Delhi et al. Fontas 7-30-101-11	7-30-101-11 W6	2,729	9,619	6,751
I. Keg R. No. 1	11-17-102-2 W6	1,561	6,838	5,239
Cdn. Sbd. et al. Keg R. 2-15-102-4	2-15-102-4 W6	1,720	7,290	5,548
Col. IOE Chinchaga 7-23-103-6	7-23-103-6 W6	2,006	7,795	5,764
Shell IOE Snowfall 9-24-103-12	9-24-103-12 W6	2,376	9,167	6,772
Banff et al. Haig R. 14-5-104-2	14-5-104-2 W6	1,538	6,693	5,134
Brett et al. Haig L. 16-31-104-4	16-31-104-4 W6	1,727	7,220	5,422
Baysel IOE Argus 2-34-104-8	2-34-104-8 W6	2,317	8,228	5,867
Shell IOE Snowfall 9-9-104-9	9-9-104-9 W6	2,265	8,305	5,785

Name	Location	K.B.	T.D.	PC
TPC & O Basset L. 4-26-105-4	4-26-105-4 W6	2,069	7,430	5,304
Grt. Plns. Fut. Rainbow S. 10-30-105-4	10-30-105-4 W6	2,047	7,595	5,487
Home et al. Rainbow S. 7-18-105-7	7-18-105-7 W6	2,243	7,649	5,389
Home et al. Rainbow 4-31-105-7	4-31-105-7 W6	2,103	7,440	5,327
BA et al. S. Rainbow 13-36-105-7	13-36-105-7 W6	2,148	7,319	5,090
Trend IOE Rainbow S. 15-14-105-8	15-14-105-8 W6	2,269	7,519	5,213
Guyer et al. Pyramid 7-22-105-9	7-22-105-9 W6	2,124	8,134	5,955
KPL et al. Rainbow S. 16-11-105-11	16-11-105-11 W6	2,210	8,713	6,396
Cdn. Sup. et al. Bede 10-15-106-1	10-15-106-1 W6	1,432	6,261	4,780
Sun Haig L. No. 4A-5	4-5-106-4 W6	2,212	7,523	5,308
Dome et al. Tartan 15-7-106-5	15-7-106-5 W6	1,836	7,339	5,474
BA et al. S. Rainbow 7-16-106-6	7-16-106-6 W6	2,041	7,240	5,189
Disc et al. Rainbow 7-9-106-7	7-9-106-7 W6	2,045	7,382	5,313
Sinclair IOE S. Rainbow 16-24-106-7	16-24-106-7 W6	2,059G	7,134	5,066
Pheasant et al. Rainbow S. 16-9-106-8	16-9-106-8 W6	2,014	7,828	5,766
IOE Rainbow A13-17-106-8	13-17-106-8 W6	1,974	7,252	5,246
Mobil Pan Am. Rainbow S. 3-34-106-8	3-34-106-8 W6	1,928	7,476	5,543
IOE Cres. Rainbow S. 5-26-106-9	5-26-106-9 W6	1,835	7,800	5,952
IOE Pyramid 2-1-106-10	2-1-106-10 W6	1,920	8,106	6,144
Mesa et al. S. Rainbow 10-35-106-11	10-35-106-11 W6	1,756	7,977	6,180
Petcal IOE Basset 16-3-107-2	16-3-107-2 W6	1,689	6,600	4,892
Banff Aquit Long L. 6-3-107-6	6-3-107-6 W6	1,754	6,886	5,109
CPOG Tartan 14-4-107-6	14-4-107-6 W6	1,800	7,170	5,342
I. Rainbow L. 2-16-107-6	2-16-107-6 W6	1,755	6,960	5,165
I. Rainbow L. 16-18-107-6	16-18-107-6 W6	1,774	7,365	5,532
Murphy WSOG Rainbow 1-35-107-6	1-35-107-6 W6	1,718	6,975	5,234
Homstd. et al. Rainbow S. 3-18-107-7	3-18-107-7 W6	1,797	7,564	5,741
IOE Arch 3-12-107-8	3-12-107-8 W6	1,838	7,607	5,718
IOE Rainbow 10-11-107-9	10-11-107-9 W6	1,616	7,468	5,730
Banff Mobil Rainbow S. 3-20-107-10	3-20-107-10 W6	1,750	7,820	6,059
Petcal IOE Basset 13-24-108-1	13-24-108-1 W6	1,359	5,975	4,576
Chevron et al. Basset 7-14-108-4	7-14-108-4 W6	1,452	6,556	5,044
W.R. et al. Rainbow 6-29-108-5	6-29-108-5 W6	1,698	7,016	5,262
HB E. Rainbow 16-34-108-5	16-34-108-5 W6	1,638	6,620	4,962
Tenn. et al. Al Spectrum 13-14-108-6	13-14-108-6 W6	1,735	7,129	5,387
Mobil Spec. Rainbow 9-20-108-6	9-20-108-6 W6	1,670	7,074	5,360
Camac et al. Rainbow 5-13-108-7	5-13-108-7 W6	1,684	7,196	5,492
Pan Am. B-1 Rainbow 4-16-108-7	4-16-108-7 W6	1,635	7,168	5,528
Banff Mobil Kitu 6-23-108-7	6-23-108-7 W6	1,634	7,115	5,476
Banff Aquit Rainbow 3-5-108-9	3-5-108-9 W6	1,574	7,416	5,808
GPD Noel Rainbow 12-36-108-9	12-36-108-9 W6	1,624	7,258	5,621
W.R. et al. Rainbow 10-7-109-4	10-7-109-4 W6	1,493	6,635	5,087
Shell et al. Rainbow L. 4-34-109-4	4-34-109-4 W6	1,348	6,360	4,982
Mobil Nova 15-34-109-4	15-34-109-4 W6	1,333	6,388	4,955
Mobil Focus Rainbow 6-6-109-5	6-6-109-5 W6	1,631	6,879	5,239
Mobil Focus Rainbow 4-7-109-5	4-7-109-5 W6	1,609	6,882	5,268
Mobil Focus Rainbow 3-23-109-5	3-23-109-5 W6	1,519	6,670	5,111
Mobil Focus Rainbow 12-27-109-5	12-27-109-5 W6	1,386	6,555	5,144
Mobil Rainbow E. 11-28-109-6	11-28-109-6 W6	1,474	6,745	5,256
Banff Mobil Rainbow 13-2-109-8	13-2-109-8 W6	1,572	7,148	5,536
Banff Aquit Rainbow W. 7-32-109-8	7-32-109-8 W6	1,744	7,231	5,459
I. Black Ck. 10-27-109-9	10-27-109-9 W6	1,769	7,329	5,513
CDR W. Rainbow 12-10-109-12	12-10-109-12 W6	1,528	7,514	5,964
CDR Ad. W. Rainbow 12-36-109-12	12-36-109-12 W6	1,439	7,370	5,865

Name	Location	K.B.	T.D.	PE
Mobil N. Nova 4-11-110-4	4-11-110-4 W6	1,317	6,386	4,918
Mobil Rainbow NE. 8-9-110-6	8-9-110-6 W6	1,439	6,675	5,211
Sinclair et al. W. Rainbow 4-30-110-9	4-30-110-9 W6	1,437G	6,968	5,529
BA W. Rainbow 6-33-110-10	6-33-110-10 W6	1,314	6,925	5,572
CDR W. Rainbow 7-13-110-11	7-13-110-11 W6	1,473	7,178	5,678
Mobil BA Negus 16-7-111-1	16-7-111-1 W6	1,247	5,781	4,475
IOE Negus 5-21-111-2	5-21-111-2 W6	1,221	5,816	4,581
Spooner E. Sousa 8-24-111-3	8-24-111-3 W6	1,162	5,665	4,443
SDXC et al. Sousa 8-27-111-4	8-27-111-4 W6	1,150	5,897	4,740
IOE Sousa 6-28-111-4	6-28-111-4 W6	1,169	5,790	4,455
Mobil Hay L. Rainbow 15-1-111-6	15-1-111-6 W6	1,708	6,755	5,035
Mobil Hay L. 4-10-111-6	4-10-111-6 W6	1,638	6,774	5,079
CDR Union N. Rainbow 4-21-111-8	4-21-111-8 W6	1,160	6,500	5,320
Mobil Zama 10-4-111-9	10-4-111-9 W6	1,274	6,739	5,458
Union Zama L. 4-14-111-9	4-14-111-9 W6	1,204	6,620	5,408
IOE Atlantic Negus 13-24-112-3	13-24-112-3 W6	1,131	5,688	4,531
IOE Arco Orbit 11-32-112-4	11-32-112-4 W6	1,103	5,830	4,677
Spooner IOE Sousa 7-10-112-5	7-10-112-5 W6	1,110	5,950	4,813
IOE Atlantic Sousa 6-12-112-5	6-12-112-5 W6	1,120	5,953	4,817
Cigol et al. Hay L. 10-36-112-5	10-36-112-5 W6	1,096	5,840	4,713
Cdn. Sup. C & E Zama 4-10-112-6	4-10-112-6 W6	1,092	6,248	5,049
Shell Cdn. Sup. Hay L. 2-28-112-6	2-28-112-6 W6	1,091	6,037	4,917
Shell Cdn. Sup. Zama 1-7-112-7	1-7-112-7 W6	1,092	6,252	5,140
Shell Cdn. Sup. Fire 1-9-112-7	1-9-112-7 W6	1,089	6,210	5,089
Mobil Cdr W. Fire 13-35-112-10	13-35-112-10 W6	1,134	6,547	5,387
Pan Am. BA A-1 Fire 8-32-112-11	8-32-112-11 W6	1,164	6,689	5,506
Penzl et al. Negus Ck. 10-29-113-1	10-29-113-1 W6	1,145	5,461	4,302
Mutep et al. Sousa 14-11-113-5	14-11-113-5 W6	1,095	5,865	4,761
B.A. Zama 13-26-113-5	13-26-113-5 W6	1,095	5,791	4,691
Cdn. Sup. C & E Habay 1-32-113-5	1-32-113-5 W6	1,089	5,875	4,735
Shell Cdn. Sup. Zama 16-5-113-6	16-5-113-6 W6	1,093	6,018	4,890
Cdn. Sup. C & E Zama 4-17-113-6	4-17-113-6 W6	1,093	6,070	4,912
Shell Cdn. Sup. Fire 9-15-113-7	9-15-113-7 W6	1,091	6,106	4,998
B.A. Zama L. 11-7-113-8	11-7-113-8 W6	1,095	6,276	5,155
SOBC BA Vardie 4-36-113-8	4-36-113-8 W6	1,126	6,180	5,021
BA Zama L. 10-22-113-9	10-22-113-9 W6	1,137	6,428	5,253
Pan Am. A-1 Mega 7-20-113-10	7-20-113-10 W6	1,171	6,560	5,359
HB Rainbow W. 4-26-113-12	4-26-113-12 W6	1,196	6,920	5,502
FPC et al. Negus 9-24-114-2	9-24-114-2 W6	1,130	5,371	4,214
Mobil Negus Ck. 6-24-114-3	6-24-114-3 W6	1,117	5,522	4,376
GPD et al. Zama 2-30-114-3	2-30-114-3 W6	1,116	5,696	4,492
BAOH Virgo 13-13-114-6	13-13-114-6 W6	1,108	5,858	4,720
BA Zama 12-35-114-6	12-35-114-6 W6	1,130	5,860	4,722
BA Zama L. 2-4-114-7	2-4-114-7 W6	1,119	6,098	4,951
BA Zama L. 8-32-114-7	8-32-114-7 W6	1,198	6,074	4,838
BA Zama L. 9-5-114-8	9-5-114-8 W6	1,173	6,273	5,061
SOBC Gulf Vardie 1-33-114-8	1-33-114-8 W6	1,225	6,270	4,983
Pan Am. B-1 Mega 11-15-114-10	11-15-114-10 W6	1,242	6,475	5,211
Scurry et al. Zama E. 3-23-115-2	3-23-115-2 W6	1,141	5,421	4,269
SDXC et al. Virgo 4-2-115-6	4-2-115-6 W6	1,148	5,860	4,702
IOE Virgo Zama 8-8-115-6	8-8-115-6 W6	1,177	5,893	4,711
SDXC Skelly Zama 5-31-115-6	5-31-115-6 W6	1,232	6,000	4,738
Pan Am. B-1 Vardie 13-2-115-8	13-2-115-8 W6	1,227	6,205	4,943
Pan Am. A-1 Vardie 9-20-115-8	9-20-115-8 W6	1,278	6,217	4,920

Name	Location	K.B.	T.D.	PG
Chevron BA Vardie 15-13-115-9	15-13-115-9 W6	1,293	6,309	5,014
I. Zama L. 15-22-115-10	15-22-115-10 W6	1,350	6,512	5,012
IOE Adair 3-1-116-1	3-1-116-1 W6	1,139	5,226	4,071
BA HB Zama N. 16-19-116-4	16-19-116-4 W6	1,274	5,668	4,399
IOE Zama 9-22-116-4	9-22-116-4 W6	1,216	5,544	4,318
BA HB Zama N. 5-30-116-4	5-30-116-4 W6	1,263	5,884	4,467
BA Zama L. 3-1-116-8	3-1-116-8 W6	1,302	6,133	4,800
I. Amber 13-11-116-8	13-11-116-8 W6	1,339	6,064	4,713
Penzl et al. Vardie 2-25-116-8	2-25-116-8 W6	1,369	6,124	4,747
Chevron BA Vardie 16-35-116-9	16-35-116-9 W6	1,468	6,183	4,691
Amr. CR GA Shekilie 12-25-116-10	12-25-116-10 W6	1,483	6,279	4,787
Dome et al. Larne 16-32-117-1	16-32-117-1 W6	1,227	5,140	3,893
Amr. Sun Larne Ck. 1-5-117-2	1-5-117-2 W6	1,239	5,324	4,068
Tenn. A-2 Larne Ck. 4-23-117-2	4-23-117-2 W6	1,270	5,413	4,120
Tenn. A-1 Larne Ck. 12-23-117-2	12-23-117-2 W6	1,272	5,376	4,098
Tenn. C-1 Larne Ck. B 5-34-117-2	5-34-117-2 W6	1,269	5,205	3,929
Shell et al. Hay R. 10-3-117-3	10-3-117-3 W6	1,273	5,463	4,157
Shell et al. Zama 4-29-117-3	4-29-117-3 W6	1,284	5,550	4,214
Shell et al. Hay R. 2-30-117-3	2-30-117-3 W6	1,288	5,584	4,224
Dome Provo Zama N. 10-14-117-4	10-14-117-4 W6	1,288	5,616	4,298
BA Zama N 2-16-MU-117-4	2-16-117-4 W6	1,287	5,662	4,363
Cdn. Sup. et al. Zama N. 7-19-117-4	7-19-117-4 W6	1,322	5,686	4,342
Dome et al. Zama N. 6-24-117-4	6-24-117-4 W6	1,281	5,557	4,273
Cdn. Sup. et al. Zama N. 13-32-117-4	13-32-117-4 W6	1,430	5,720	4,264
Cigol et al. Zama N. 14-9-117-5	14-9-117-5 W6	1,320	5,761	4,412
Calstan Steen R. 2-22-117-5	2-22-117-5 W6	1,374	5,767	4,362
Fina Zama 4-9-117-6	4-9-117-6 W6	1,372	5,962	4,566
Delcalta Champ. Zama 16-25-117-6	16-25-117-6 W6	1,500	6,004	4,499
Chevron Zama N. 3-36-117-6	3-36-117-6 W6	1,511	5,960	4,421
HB Amber 10-9-117-8	10-9-117-8 W6	1,488	6,290	4,778
Amr. Shekilie 1-29-117-10	1-29-117-10 W6	1,773	6,937	5,139
Amr. CR Shekilie 12-17-117-11	12-17-117-11 W6	1,598	6,900	5,286
W.R. et al. Hay R. 10-5-118-1	10-5-118-1 W6	1,257	5,280	3,995
Penzl et al. Steen R. 10-28-118-2	10-28-118-2 W6	1,332	5,393	4,020
Home et al. Zama N. 3-7-118-4	3-7-118-4 W6	1,528	5,797	4,242
Texcan Steen R. 7-11-118-5	7-11-118-5 W6	1,643	5,901	4,247
Cdn. Sup. Zama 15-18-118-5	15-18-118-5 W6	2,007	6,410	4,331
Tenn. A-1 Steen R. 6-4-118-6	6-4-118-6 W6	1,729	6,126	4,382
Cdn. Sup. Zama 10-23-118-6	10-23-118-6 W6	2,135	6,585	4,415
Chevron Amber R. 1-12-118-7	1-12-118-7 W6	1,803	6,355	4,523
Mobil Bistcho 9-25-118-7	9-25-118-7 W6	2,069	6,696	4,601
Arco et al. Bistcho 12-30-118-9	12-30-118-9 W6	1,923	6,848	4,904
Texaco Shekilie 10-30-118-11	10-30-118-11 W6	1,874	7,140	5,235
Penzl et al. Steen R. 3-19-119-2	3-19-119-2 W6	1,525	5,440	3,863
Dome et al. Zama 16-21-119-3	16-21-119-3 W6	2,056	5,970	3,889
Cigol et al. Deneb 5-13-119-4	5-13-119-4 W6	2,118	6,242	4,116
IOE Deneb 13-33-119-4	13-33-119-4 W6	2,394	6,480	4,071
Del Norte et al. Bistcho 14-15-119-6	14-15-119-6 W6	2,022	6,498	4,438
Canso et al. Bistcho L. 10-27-119-6	10-27-119-6 W6	2,003	6,515	4,493
GPD et al. Bistcho S. 14-32-119-6	14-32-119-6 W6	1,993	6,483	4,476
Mobil et al. Bistcho 13-13-119-7	13-13-119-7 W6	2,056	6,615	4,534
Pac. S. Bistcho 10-23-119-8	10-23-119-8 W6	1,932	6,564	4,598
Decalta BA Shekilie 13-21-119-10	13-21-119-10 W6	2,338	7,217	4,847
Cdn. Sbd. Hay R. 10-22-120-1	10-22-120-1 W6	1,653	5,420	3,750

Name	Location	K.B.	T.D.	PC
Home et al. Bistcho S. 6-10-120-3	6-10-120-3 W6	1,974	6,000	3,954
Dekalb Bistcho 7-12-120-4	7-12-120-4 W6	2,338	6,395	4,038
C.S. Steen R. 6-32-120-4	6-32-120-4 W6	2,464	6,490	3,956
BA Steen R. 2-25-120-5	2-25-120-5 W6	2,503	6,554	4,023
Amisk Bistcho 16-35-120-6	16-35-120-6 W6	2,167	6,504	4,304
Del Norte et al. Amigo 14-12-120-8	14-12-120-8 W6	1,911	6,592	4,669
Sinclair BA Shekilie 8-15-120-9	8-15-120-9 W6	2,172	6,945	4,738
Calstan Shekilie R. 9-26	9-26-120-11 W6	2,062	7,005	4,915
Cdn. Sbd. Hay R. 10-22-121-1	10-22-121-1 W6	2,065	5,737	3,620
Canso et al. Bistcho 9-30-121-4	9-30-121-4 W6	2,579	6,894	3,956
Shell Calstan Petitot R. 2-12-121-5	2-12-121-5 W6	2,527	6,747	4,211
Andex Bistcho 5-21-121-5	5-21-121-5 W6	2,530	6,580	4,008
C.S. et al. Bistcho 12-35-121-5	12-35-121-5 W6	2,611	6,690	4,046
Mobil et al. Bistcho 15-20-121-6	15-20-121-6 W6	1,979	6,345	4,351
Mobil et al. Bistcho 8-14-121-7	8-14-121-7 W6	1,937	6,397	4,441
Mobil et al. Bistcho 14-16-121-7	14-16-121-7 W6	1,920	6,245	4,288
Skelly Al Bistcho 5-27-121-7	5-27-121-7 W6	1,908	6,217	4,271
Sunlite et al. Bueno 12-17-121-8	12-17-121-8 W6	1,839	6,527	4,661
Young Chev. Petitot 3-7-121-11	3-7-121-11 W6	1,853	6,994	5,101
Decalta et al. Bistcho 16-4-122-5	16-4-122-5 W6	2,570	6,728	4,116
C.S. et al. Bistcho 10-16-122-5	10-16-122-5 W6	2,485	6,709	4,185
Dome et al. S. Bistcho 15-27-122-5	15-27-122-5 W6	2,043	6,264	4,060
Canso et al. Bistcho L. 10-5-122-6	10-5-122-6 W6	1,933	6,283	4,329
C.S. et al. Bistcho 2-14-122-7	2-14-122-7 W6	1,866	6,100	4,184
B.A. N. Bistcho 11-5-122-9	11-5-122-9 W6	1,954	5,933	3,941
FPC et al. Petitot 10-19-122-10	10-19-122-10 W6	1,749	6,745	4,959
Mobil et al. Pert 11-15-123-1	11-15-123-1 W6	2,395	5,933	3,437
Placid et al. E. Bistcho 10-20-123-2	10-20-123-2 W6	2,105	5,860	3,611
Placid et al. Bistcho 8-34-123-3	8-34-123-3 W6	1,970	5,696	3,656
Buttes et al. Bistcho 8-3-123-4	8-3-123-4 W6	1,837	5,910	4,043
Placid W. Bistcho 16-5-123-9	16-5-123-9 W6	1,768	6,123	4,322
Shell Calstan Petitot R. No. 15-33	15-33-123-9 W6	1,828	6,539	4,698
LRI-Clark et al. Petitot 11-16-123-10	11-16-123-10 W6	1,821	6,690	4,844
Shell Calstan Petitot 6-30-123-10	6-30-123-10 W6	1,849	6,786	4,891
Placid et al. E. Bistcho 5-4-124-2	5-4-124-2 W6	2,429	6,032	3,587
I. Bistcho L. 7-7-124-2	7-7-124-2 W6	2,382	6,121	3,733
Cont. RCV Bistcho 7-23-124-4	7-23-124-4 W6	1,938	5,934	3,928
TOC KM Al Dickens L. 7-11-124-12	7-11-124-12 W6	1,736	6,688	4,941
HB Beatty 12-6-125-1	12-6-125-1 W6	2,271	5,727	3,453
Shell Thurston L. 12-30-125-2	12-30-125-2 W6	2,445	5,993	3,520
Pan Am. BA A-1 Thurston 15-23-125-4	15-23-125-4 W6	2,096	5,895	3,754
Grimsby et al. Petitot 3-11-125-9	3-11-125-9 W6	1,897	6,520	4,572
Shell Petitot 4-16-125-10	4-16-125-10 W6	1,950	6,580	4,376
HB Beatty L. 4-20-126-1	4-20-126-1 W6	2,048	5,391	3,330
HB Beatty L. 10-28-126-1	10-28-126-1 W6	2,014	5,325	3,304
Roy et al. Bistcho 1-4-126-6	1-4-126-6 W6	1,923	6,041	4,089
Scurry et al. Bistcho N. 5-12-126-7	5-12-126-7 W6	2,000	6,310	4,108
Shell Petitot 11-17-126-9	11-17-126-9 W6	1,889	6,485	4,555

Name	Location	K.B.	T.D.	PC
	British Columbia			
I. Pac. Kilkerran No. 12-31	12-31-78-14 W6	2,433	12,040	9,457
Sinclair et al. Doe 6-16-81-14	6-16-81-14 W6	2,408G	12,685	10,062
I. Pac. Siphon Ck. 1-26-86-16	1-26-86-16 W6	2,415	10,913	8,482
Texaco NFA LaGarde 7-21-87-15	7-21-87-15 W6	2,532	10,740	8,108
HB I. Union Paddy a-49-B	94-H-16-B-49-a	2,371	10,034	7,475
Arco Pan Am. Bedji c-32-E	94-I-1-E-32-c	1,746	8,588	C
Texaco NFA Hay R. No. 1	94-I-9-B-22-d	1,272	7,409	6,022
Midwest Chev. Peggo d-65-A	94-P-7-A-65-d	2,374	8,090	5,646