

Alberta
Drilled and Completed
Engineering Costs Breakdown

Costs Update
to June 30, 2007

Prepared for

Alberta Municipal Affairs and Housing
Assessment Services Branch
Edmonton, Alberta.

By

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July 30, 2007

Summary of Cost Factors

Industry Overview

Historically, oil and gas “Boom periods” usually last from 18-36 months, at which time the high prices for petroleum products cause a recession, which ends the “boom”. Economies, such as those of North America and Europe which are consumer based, and those of Asia which until recently were manufacturing based, but which are quickly becoming consumer based, have not had the capacity to absorb high petroleum prices for more than a couple of years, before succumbing to them.

That is not currently happening. While there has been a steady increase in petroleum and other commodity prices for over five years, with petroleum prices reaching record highs each successive year, somehow these economies have continued not only to survive, but to grow in spite of it.

With world oil prices remaining above US\$70.00, and gasoline in North America ranging from around US\$3.00/gal in the U.S., and to over C\$1.20/L in Canada, demand and confidence, by consumers in North America remains unusually strong.

The Canadian dollar has reached its highest point against the US Dollar in 30 years, and Canadian exports remain at an all time high. Stock markets in both countries have reached record index highs as well.

While drilling and completion activity has remained strong in Alberta with an increase of over 100 new drilling rigs over the past 18 months, to a total in excess of 880 in Western Canada. Daily operating rates for drilling rigs had also, until just recently, been at an all time high.

With a boom that just doesn't seem to want to end, the things that Oil and Gas Operators dread have begun to occur. As in any boom, Operators, especially the large ones, initially see a large increase in operating profits as commodity price increase quickly. Service Contractors, most of which have been fighting with each other for market share, usually do not increase their prices for a period of 6 – 12 months after the initial start, in an effort to “catch up” to the increases in costs and the demands of activity. As the boom continues, however, shortages of service contractor equipment and personnel occur, which give them the competitive “upper hand” in terms of charging for their services and they then continue to increase their prices, cutting into the Operating Companies profits. Eventually, the Operators become squeezed, along with the general public, ending the boom when the demand for petroleum decreases and oil and gas prices return to lower sustainable levels.

In other words, the standard economic rules of supply vs demand equals price, apply. Therefore, when prices increase, demand tapers off, and the equation balances itself.

Given the length and unusual robustness of this “boom”, that isn't happening. World oil supplies are now strained, and the costs of finding new oil are pushing petroleum prices even higher. Pundits claim that the price of oil will continue to increase, as the demand for world

oil continues to increase at a rate of 4-5% each year. Many expect the supply/demand curves to cross in 2012 or 2013, a point at which demand will exceed supply, and when prices will skyrocket.

As such, Canadian Operators took things into their own hands, in May and June of this year, by announcing that the “Boom was Over”. As no end was in sight for increasing contractor prices, this meant that they were deliberately curtailing summer drilling programs, and threatening to do the same to 2006/2007 winter drilling programs, to reduce activity levels in an effort to force service Contractors to lower their prices. From many indications this has worked, as drilling contractors reduced their prices by 12-15% in June 2007. The resulting outlook for reduced activity levels also has forced many other service sector suppliers and contractors to do the same. With the ability to reduce their prices by such a margin, it is also obvious that contractors had pushed their prices too high, allowing them to take a larger slice of the pie that they had been able to, for many years.

How long this situation will remain stable will once again depend heavily on near future drilling activities, which are expected to take to record levels once again this fall.

Cost considerations for contractors, such as labour, fuel and equipment have seen no reductions, and it is anticipated that it won't be long, once activity levels increase once again, that contractor prices will once again, continue to increase.

Given the reductions in prices seen over the 2007 summer months, costs quoted in this report for 2007 Drilling and Completions Cost Estimates for Area 5, WL10, WL20, WL40, WL50, WL70, WL90, WL110, WL230 and WL240, showed that while prices for services and equipment were much the same as for the 2006 Drilling and Completions Cost Estimates, 2006/07 winter prices had been much higher, and have reduced to their current point.

The overall outlook for the balance of 2007 and into 2008, is for additional increases in activity and prices, which will continue as long as the demand and price for petroleum continues to increase.

That being said, recent concerns over the U.S. economy, which are now starting to surface especially in the area of housing, may be the harbingers of a slowly emerging recession. Should this occur, in spite of the U.S. Government's continuing to spend billions on the war in Iraq, there may be some slight reduction in pressure on oil demand and prices, as both India and China have also found themselves slowed by the high costs of petroleum.

We are at a point globally, in economic terms, where few ever thought we would end up. Where we go from here will be at the least, interesting.

Application of Price Information

There continues to be difficulty in gaining consistent price information from contractors. Demands on sales people are as high, just as they are on field personnel, and many will no

longer quote without specific well information, such as area, well field location and legal subdivision.

Once again, as the method used to gain access to information employs the use of the name of a small Oil and Gas company, attention is not as easy to obtain, as most service contractors and Materials suppliers are busy with larger Operators.

Nonetheless, many providers were contacted, and for the most part, price quoted were consistent, in spite of recent reductions by most service contractors. Most providers contacted indicated that they did not expect to see much change in prices for at least another 3-4 months.

Inventories of materials are catching up, according to many suppliers and demand has become relatively constant as activity levels have moderated, and continue to be slightly less frenetic than last years levels for this time of year.

In order to create the presentation of prices which are supplied with this report, several steps are taken in it's construction:

1. Service and materials suppliers are contacted for prices in each category of cost. These suppliers are based mostly in Alberta, but most are major and have bases and operations all over North America, and some are international.
2. While a minimum of 3 suppliers, are contacted where possible, it is not always possible to get 3, and for the most part a minimum of 2 are provided.
3. Both Operators and Contractors are contacted to discuss current industry trends, such as days required to drill, days required to service, time and costs in general and areas where increases have occurred. Also discussed are topics on technology change if any, problems, which they are dealing with and where they see the industry going.

Drilling and operating times remain about the same as for last year, when it became apparent that operating times had increased due to higher levels of inexperience. The introduction of new technology to current operational paradigms is limited due to the high cost of conventional services, and market entry of new types of services remains limited, with no anticipated impact on the market.

4. Contractors and Operators are also polled as to what they are currently paying field and base personnel. Many are not willing to discuss this due to fears of poaching, but the author has developed relationships with many, over the years, and feels that enough information is provided to feel comfortable in making both suppositions and predictions in this regard. As such, percentage increases in wages, and the facts that labour is in short supply, is common industry knowledge.
5. Cost developed for this survey, do not specifically use either industry or government Cost Price Indexes. For the most part, these indices are too general or do not represent

the specifics of what is actually happening in Alberta on a local basis. Most C.P.I.'s do not adequately reflect the scope of either the Oil and Gas activity levels in the business locally, nor do they take into account regional challenges.

6. While some Operators deal with suppliers outside of the local area, they do so through local offices of those businesses. As such, prices quoted are usually and mostly provided either in Canadian or U.S dollars. While currency exchanges are taken into account for equipment which may be supplied from the U.S., for the most part, over the past 4 years, the exchange rate for equipment imported does not provide a large differential, and in fact, the \$CAD vs the \$USD has been relatively close and stable for several months.
7. All costs acquired for the purposes of this report are based on supply within a 50 km radius of Edmonton, Alberta. This area is central to both Alberta and to the major supply depots of most suppliers contacted. As a result, it would be unusual for any equipment or service to NOT be available in this area.
8. In order to maintain the minimum standards of both the government and industry, only those contractors and suppliers are contacted who are certified as required for their particular industry segment, and are accepted by major Oil and Gas Operators. Few Contractors or Suppliers in Alberta do not have requisite certification, as the must do so to achieve placement on the Bid Lists of Major Operators.
9. Unless otherwise requested, all costs are based on those in place on June 30, of the current years study.
10. In order to do the requisite calculations required for all the well depths, in all the WL categories, an MS Excel spreadsheet program, which was created by the author, several years ago, for the generation of A.F.E's (Authority for Expenditure) for Oil and Gas Operators, and which has been used for several years to that purpose, is used. The program utilizes a very detailed input of factors used to calculate costs in drilling a well.

Every service provided, every tool required, every type of material needed, indeed every aspect of the costs of drilling a well is included, and costs for each and every service are updated, as required.
11. Specific price information for every cost is input into the program. That price information along with all the other data relating to drilling, completing and tying in the well is input into the calculations done by the program, which determines actual category and total well cost.
12. The program then transfers specific information to the Individual Well Cost Summary sheets, which do additional calculations for other parameters input into it. A total of 70 such spreadsheets are used, one for each well in the 10 WL categories and the 7 wells in each category.

13. The numbers from each of these Individual Well Cost Summary sheets are then transferred to the “Drilled Wells Cost Study Update” Summary sheets for each WL category, which are then provided to the A.M.A.

The costs, which are presented to the A.M.A, are derived by a highly complex and sophisticated system, which ensures that the most accurate data available is provided.

Conclusion

All of the factors, which caused the dramatic increases over the past 3-4 years in oil and gas prices and costs of doing business, have begun to be moderated, either by market effects, or by Operator interference. While small increases in prices may be seen in some categories of costs, for the most part, increases in costs over 2006, are modest in comparison to those seen over the past 3-4 years.

This is due to the fact that while there was a substantial increase in contractor costs during the 2006/2007 winter drilling season, costs have dropped back to more moderate levels. This is normal for any year, as demand for contractor services and supplies is always highest from November to March, in any year.

Costs for fuels such as gasoline and diesel currently are more dependent on refining capacity than on oil prices, as refining capacity slowly catches up to pre-Katrina levels. There are still many refineries, which have yet to return on line, and the clean up in the Gulf of Mexico continues.

Fuel costs continue to be the most obvious of the cost factors beleaguering not only the “oil patch”, but, the economy in general, with the trickle down affecting almost every aspect of the economy. Most pundits are still scratching their heads as to how the North American economy continues to thrive in spite of them.

Based on information provided by Contractors and Operators in Alberta, it appears that the industry can expect continued high levels of activity, and the accompanying current cost levels, labour challenges and shortages of materials, for some time to come, assuming that current demand for petroleum continues.

WL10 - 2007 Final View	18 m	305 m	1067.00	1829.00	2743.00	3658.00	5486.00
Casing and Cementing							
Surface Casing	0.00	2,321.85	11,985.08	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	616.71	10,338.68	36,261.89	91,377.13	172,891.86	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.44
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	1,067.35
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	\$1,660.54	\$27,837.62	\$97,637.66	\$197,647.44	\$333,748.50	\$566,519.57	\$794,574.31
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	4,100.54	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	7,728.52	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	8,071.51	22,876.84	58,624.02
Tank Rental	0.00	0.00	0.00	1,188.98	2,637.18	28,029.36	45,490.95
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	14,761.01	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	3,326.64	12,808.87	28,609.12	84,183.01	220,212.54
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	521.96	2,009.76	4,488.88	13,208.63	34,552.18
Communications	187.92	480.52	1,522.71	2,907.29	6,448.47	18,276.70	46,835.72
Operations overhead	211.67	541.24	1,715.15	3,274.72	7,263.42	20,586.49	52,754.77
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Completion and Testing							
Wellhead	3,442.15	7,131.00	13,967.76	18,158.64	22,216.90	24,405.17	29,230.89
Tubing	345.71	5,795.61	20,327.51	35,196.47	53,275.34	73,058.37	109,869.27
Packers, Plugs, Retainers	0.00	0.00	0.00	0.00	13,754.69	14,144.14	0.00
Sucker Rod	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Downhole Pump, PSN, Tbg Anchor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Service Rig	4,639.96	19,982.65	18,229.40	28,714.23	48,991.55	169,229.88	246,373.24
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	69.30	298.47	272.28	428.89	731.75	1,497.88	2,102.81
Crew Transportation	147.33	317.25	361.77	569.84	1,944.50	4,378.37	6,146.59
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	358.89	1,545.60	1,409.99	2,220.96	3,789.36	5,733.22	8,048.61
Vacuum Truck	381.73	1,643.98	1,499.73	2,362.32	4,030.54	6,531.57	9,169.38
Water and Trucking	528.42	1,137.85	2,076.04	3,270.09	22,655.56	11,420.79	16,033.13
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	0.00	0.00	0.00	297.98	7,498.94	16,260.74	21,823.29
Downhole Tool Rentals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	1,439.22	3,083.69	5,732.13	8,800.77	11,346.91	16,064.78
Other Wireline Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slickline Services	0.00	0.00	2,505.89	4,510.72	13,850.42	18,904.40	28,429.50
Stimulation	0.00	1,163.57	1,061.48	1,114.67	1,141.09	1,167.89	1,171.11
Completions Supervisor	473.02	2,037.12	1,858.38	2,927.25	4,994.41	10,223.42	14,352.20
Completion Supervision Expenses	141.78	610.61	557.03	877.42	1,497.03	3,064.38	4,301.95
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	5,143.03	5,400.73	5,528.76	5,658.61	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	8,652.71	11,840.29	12,433.58	29,699.43	30,396.97	30,480.66
Pump Jank (If Req'd)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	4,523.20	4,126.34	4,333.10	4,435.82	4,540.00	4,552.50
Flow Measure, Record and Transmit	7,204.05	7,756.32	7,075.79	7,430.34	7,606.48	7,785.13	7,806.57
TOTAL	9571.04	40724.53	70619.36	113346.55	204067.16	365855.49	527188.24
Other							
Inspections	979.83	1,054.95	1,780.42	4,263.51	4,364.58	4,467.09	4,479.39
Garbage	145.68	372.53	1,180.50	2,253.92	4,999.26	14,169.24	36,309.99
TOTAL	145.68	372.53	1180.50	2253.92	4999.26	14169.24	36309.99
SUB-TOTAL ASSESS	11377.26	68934.68	169437.52	313247.91	542814.92	946544.30	1358072.54
Contingency (5% of sub-total)	734.54	3759.20	9740.55	18533.82	36107.28	78317.37	144014.22
Office Administration (2% of sub)	293.82	1503.68	3896.22	7413.53	14442.91	31326.95	57605.69
Assessable Cost	\$12,405.62	\$74,197.56	\$183,074.29	\$339,195.26	\$593,365.11	\$1,056,188.62	\$1,559,692.45

WL20 - 2007 Final View	18 m	305 m	1067.00	1829.00	2743.00	3658.00	5486.00
Casing and Cementing							
Surface Casing	0.00	2,321.85	11,985.08	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	616.71	10,338.68	36,261.89	91,377.13	172,891.86	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.44
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	1,067.35
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	\$1,660.54	\$27,837.62	\$97,637.66	\$197,647.44	\$333,748.50	\$566,519.57	\$794,574.31
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	5,125.68	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	7,728.52	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	8,071.51	22,876.84	58,624.02
Tank Rental	0.00	0.00	0.00	1,486.22	2,637.18	28,029.36	45,490.95
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	18,451.27	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	3,326.64	16,302.19	28,609.12	84,183.01	220,212.54
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	521.96	2,557.88	4,488.88	13,208.63	34,552.18
Communications	187.92	480.52	1,522.71	3,634.12	6,448.47	18,276.70	46,835.72
Operations overhead	211.67	541.24	1,715.15	4,093.39	7,263.42	20,586.49	52,754.77
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Completion and Testing							
Wellhead	3,442.15	7,131.00	13,967.76	18,158.64	22,216.90	24,405.17	29,230.89
Tubing	345.71	5,795.61	20,327.51	48,238.67	73,016.74	100,130.45	150,581.79
Packers, Plugs, Retainers	0.00	0.00	0.00	0.00	13,754.69	14,144.14	0.00
Sucker Rod	164.55	2,758.57	9,675.40	17,402.00	26,340.64	36,121.85	0.00
Downhole Pump, PSN, Tbg Anchor	11,566.74	11,443.73	11,473.30	11,589.21	11,696.85	12,028.04	45,321.90
Service Rig	9,279.91	24,978.31	25,521.15	38,285.64	58,789.86	203,075.86	299,167.50
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	138.61	373.08	381.19	571.85	878.11	1,797.46	2,553.41
Crew Transportation	294.66	396.56	506.47	759.79	2,333.40	5,254.04	7,463.72
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	717.77	1,932.00	1,973.99	2,961.29	4,547.23	6,879.87	13,222.72
Vacuum Truck	763.46	2,054.97	2,099.63	3,149.76	4,836.65	7,837.89	14,064.31
Water and Trucking	1,056.83	2,844.63	2,906.45	4,360.12	6,695.23	13,704.95	19,468.80
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	0.00	0.00	0.00	397.30	8,998.73	19,512.88	26,499.72
Downhole Tool Rentals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	1,439.22	3,083.69	5,732.13	8,800.77	11,346.91	16,064.78
Other Wireline Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slickline Services	0.00	0.00	2,505.89	4,510.72	13,850.42	18,904.40	28,429.50
Stimulation	0.00	1,163.57	1,061.48	1,114.67	1,141.09	1,167.89	1,171.11
Completions Supervisor	946.03	2,546.40	2,601.74	3,903.00	5,993.29	12,268.11	17,427.67
Completion Supervision Expenses	283.57	763.26	779.85	1,169.89	1,796.44	3,677.26	5,223.79
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	5,143.03	5,400.73	5,528.76	5,658.61	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	8,652.71	11,840.29	12,433.58	29,699.43	30,396.97	30,480.66
Pump Jank (If Req'd)	0.00	28,905.27	35,119.46	61,216.98	107,921.49	162,626.91	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	0.00	0.00	0.00	0.00	0.00	0.00
Flow Measure, Record and Transmit	7,204.05	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	15354.20	48088.90	79707.70	138417.73	220444.62	434967.42	632804.43
Other							
Inspections	979.83	1,054.95	1,780.42	4,263.51	4,364.58	4,467.09	4,479.39
Garbage	145.68	372.53	1,180.50	2,817.40	4,999.26	14,169.24	36,309.99
TOTAL	145.68	372.53	1180.50	2817.40	4999.26	14169.24	36309.99
SUB-TOTAL ASSESS	\$17,160.42	\$76,299.05	\$178,525.86	\$338,882.57	\$559,192.38	\$1,015,656.23	\$1,463,688.73
Contingency (5% of sub-total)	1610.27	4837.54	11252.40	21795.09	38828.02	84180.46	151561.13
Office Administration (2% of sub)	644.11	1935.01	4500.96	8718.04	15531.21	33672.19	60624.45

Assessable Cost	19414.80	83071.60	194279.22	369395.70	613551.61	1133508.88	1675874.31
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WL40 - 2007 Final View	18 m	305 m	1067	1829	2743	3658	5486
Casing and Cementing							
Surface Casing	0.00	2,321.85	11,985.08	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	616.71	10,338.68	36,261.89	91,377.13	172,891.86	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.44
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	1,067.35
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	\$1,660.54	\$27,837.62	\$97,637.66	\$197,647.44	\$333,748.50	\$566,519.57	\$794,574.31
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	5,125.68	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	7,728.52	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	8,071.51	22,876.84	58,624.02
Tank Rental	0.00	0.00	0.00	1,486.22	2,637.18	28,029.36	45,490.95
TOTAL	0	0	0	0	0	0	0
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	18,451.27	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	3,326.64	16,302.19	28,609.12	84,183.01	220,212.54
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	521.96	2,557.88	4,488.88	13,208.63	34,552.18
Communications	187.92	480.52	1,522.71	3,634.12	6,448.47	18,276.70	46,835.72
Operations overhead	211.67	541.24	1,715.15	4,093.39	7,263.42	20,586.49	52,754.77
TOTAL	0	0	0	0	0	0	0
Completion and Testing							
Wellhead	3,442.15	7,131.00	13,967.76	18,158.64	22,216.90	24,405.17	29,230.89
Tubing	345.71	5,795.61	20,327.51	48,238.67	73,016.74	100,130.45	150,581.79
Packers, Plugs, Retainers	0.00	0.00	0.00	0.00	13,754.69	14,144.14	0.00
Sucker Rod	164.55	2,758.57	9,675.40	17,402.00	26,340.64	36,121.85	0.00
Downhole Pump, PSN, Tbg Anchor	11,566.74	11,443.73	11,473.30	11,589.21	11,696.85	12,028.04	45,321.90
Service Rig	9,279.91	24,978.31	25,521.15	38,285.64	58,789.86	203,075.86	299,167.50
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	138.61	373.08	381.19	571.85	878.11	1,797.46	2,553.41
Crew Transportation	294.66	396.56	506.47	759.79	2,333.40	5,254.04	7,463.72
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	717.77	1,932.00	1,973.99	2,961.29	4,547.23	6,879.87	13,222.72
Vacuum Truck	763.46	2,054.97	2,099.63	3,149.76	4,836.65	7,837.89	14,064.31
Water and Trucking	1,056.83	2,844.63	2,906.45	4,360.12	6,695.23	13,704.95	19,468.80
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	0.00	0.00	0.00	397.30	8,998.73	19,512.88	26,499.72
Downhole Tool Rentals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	1,439.22	3,083.69	5,732.13	8,800.77	11,346.91	16,064.78
Other Wireline Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slickline Services	0.00	0.00	2,505.89	4,510.72	13,850.42	18,904.40	28,429.50
Stimulation	0.00	1,163.57	1,061.48	1,114.67	1,141.09	1,167.89	1,171.11
Completions Supervisor	946.03	2,546.40	2,601.74	3,903.00	5,993.29	12,268.11	17,427.67
Completion Supervision Expenses	283.57	763.26	779.85	1,169.89	1,796.44	3,677.26	5,223.79
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	5,143.03	5,400.73	5,528.76	5,658.61	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	8,652.71	11,840.29	12,433.58	29,699.43	30,396.97	30,480.66
Pump Jank (If Req'd)	0.00	28,905.27	35,119.46	61,216.98	107,921.49	162,626.91	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	0.00	0.00	0.00	0.00	0.00	0.00
Flow Measure, Record and Transmit	7,204.05	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$15,354.20	\$48,088.90	\$79,707.70	\$138,417.73	\$234,199.31	\$449,111.56	\$632,800.43
Other							
Inspections	979.83	1,054.95	1,780.42	4,263.51	4,364.58	4,467.09	4,479.39
Garbage	145.68	372.53	1,180.50	2,817.40	4,999.26	14,169.24	36,309.99
TOTAL	145.68	372.53	1180.50	2817.40	4999.26	14169.24	36309.99
SUB-TOTAL ASSESS	\$17,160.42	\$76,299.05	\$178,525.86	\$338,882.57	\$572,947.07	\$1,029,800.37	\$1,463,688.73
Contingency (5% of sub-total)	1,610.27	4,837.54	11,252.40	21,795.09	38,828.02	84,180.46	151,561.13
Office Administration (2% of sub)	644.11	1,935.01	4,500.96	8,718.04	15,531.21	33,672.19	60,624.45
Assessable Cost	19,414.80	83,071.60	194,279.22	369,395.70	627,306.30	1,147,653.02	1,675,874.31
	(based on 1067/1829/2743; x-intercept of 15591.63)						

WL50 - 2007 Final View							
Casing and Cementing	18	305	1067	1829	2743	3658	5486
Surface Casing	0.00	2,321.85	11,985.08	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	616.71	10,338.68	36,261.89	91,377.13	172,891.86	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.44
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	1,067.35
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	\$1,660.54	\$27,837.62	\$97,637.66	\$197,647.44	\$333,748.50	\$566,519.57	\$794,574.31
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	5,125.68	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	7,728.52	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	8,071.51	22,876.84	58,624.02
Tank Rental	0.00	0.00	0.00	1,188.98	2,637.18	28,029.36	45,490.95
TOTAL	0	0	0	0	0	0	0
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	18,451.27	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	3,326.64	16,302.19	28,609.12	84,183.01	220,212.54
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	521.96	2,557.88	4,488.88	13,208.63	34,552.18
Communications	187.92	480.52	1,522.71	3,634.12	6,448.47	18,276.70	46,835.72
Operations overhead	211.67	541.24	1,715.15	4,093.39	7,263.42	20,586.49	52,754.77
TOTAL	0	0	0	0	0	0	0
Completion and Testing							
Wellhead	3,442.15	7,131.00	13,967.76	18,158.64	22,216.90	24,405.17	29,230.89
Tubing	345.71	5,795.61	20,327.51	48,238.67	73,016.74	100,130.45	150,581.79
Packers, Plugs, Retainers	0.00	0.00	0.00	0.00	13,754.69	14,144.14	0.00
Sucker Rod	164.55	2,758.57	9,675.40	17,402.00	26,340.64	36,121.85	0.00
Downhole Pump, PSN, Tbg Anchor	11,566.74	11,443.73	11,473.30	11,589.21	11,696.85	12,028.04	45,321.90
Service Rig	9,279.91	24,978.31	25,521.15	38,285.64	58,789.86	203,075.86	299,167.50
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	138.61	373.08	381.19	571.85	878.11	1,797.46	2,553.41
Crew Transportation	294.66	396.56	506.47	759.79	2,333.40	5,254.04	7,463.72
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	717.77	1,932.00	1,973.99	2,961.29	4,547.23	6,879.87	13,222.72
Vacuum Truck	763.46	2,054.97	2,099.63	3,149.76	4,836.65	7,837.89	14,064.31
Water and Trucking	1,056.83	2,844.63	2,906.45	4,360.12	6,695.23	13,704.95	19,468.80
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	0.00	0.00	0.00	397.30	8,998.73	19,512.88	26,499.72
Downhole Tool Rentals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	1,439.22	3,083.69	5,732.13	8,800.77	11,346.91	16,064.78
Other Wireline Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slickline Services	0.00	0.00	2,505.89	4,510.72	13,850.42	18,904.40	28,429.50
Stimulation	0.00	1,163.57	1,061.48	1,114.67	1,141.09	1,167.89	1,171.11
Completions Supervisor	946.03	2,546.40	2,601.74	3,903.00	5,993.29	12,268.11	17,427.67
Completion Supervision Expenses	283.57	763.26	779.85	1,169.89	1,796.44	3,677.26	5,223.79
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	5,143.03	5,400.73	5,528.76	5,658.61	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	8,652.71	11,840.29	12,433.58	29,699.43	30,396.97	30,480.66
Pump Jank (If Req'd)	0.00	28,905.27	35,119.46	61,216.98	107,921.49	162,626.91	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	0.00	0.00	0.00	0.00	0.00	0.00
Flow Measure, Record and Transmit	7,204.05	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$27,085.49	\$62,291.20	\$100,856.40	\$167,408.94	\$272,236.80	\$497,261.45	\$678,126.33
Other							
Inspections	979.83	1,054.95	1,780.42	4,263.51	4,364.58	4,467.09	4,479.39
Garbage	145.68	372.53	1,180.50	2,817.40	4,999.26	14,169.24	36,309.99
TOTAL	145.68	372.53	1180.50	2817.40	4999.26	14169.24	36309.99
SUB-TOTAL ASSESS	\$28,891.71	\$90,501.35	\$199,674.56	\$367,873.78	\$610,984.56	\$1,077,950.26	\$1,509,010.63
Contingency (5% of sub-total)	1,610.27	4,837.54	11,252.40	21,780.23	38,828.02	84,180.46	151,561.13
Office Administration (2% of sub)	644.11	1,935.01	4,500.96	8,712.09	15,531.21	33,672.19	60,624.45
Assessable Cost	\$31,146.09	\$97,273.90	\$215,427.92	\$398,366.10	\$665,343.79	\$1,195,802.91	\$1,721,196.21
	0	105	11501	17	102	22	1
# of wells	18	305	1067	1829	2743	3658	5486
Depth	18417.8244	47976.0715	129006.2192	257359.3639	428046.3631	647876.4186	958121.4206
Assess.Cost	used in calculating linear equation						
	y = 156.81x + 18418						
FORMULA	(based on 1067/1829/2743/3658; x-intercept of 18417.82)						

WL70 - 2007 Final View	18 m	305 m	1067	1829	2743	3658	5486
Casing and Cementing							
Surface Casing	0.00	2,321.85	11,985.08	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	616.71	10,338.68	36,261.89	91,377.13	172,891.86	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.64
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	5,336.77
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	\$1,660.54	\$27,837.62	\$97,637.66	\$197,647.44	\$333,748.50	\$566,519.57	\$798,843.73
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	5,125.68	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	0.00	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	0.00	22,876.84	58,624.02
Tank Rental	0.00	0.00	622.73	1,486.22	2,637.18	28,029.36	45,490.95
TOTAL	0	0	0	0	0	0	0
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	18,451.27	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	0.00	16,302.19	28,609.12	0.00	0.00
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	0.00	2,557.88	4,488.88	0.00	0.00
Communications	187.92	480.52	1,522.71	3,634.12	6,448.47	18,276.70	46,835.72
Operations overhead							
TOTAL	0	0	0	0	0	0	0
Completion and Testing							
Wellhead	3,442.15	7,131.00	13,967.76	18,158.64	22,216.90	24,405.17	29,230.89
Tubing	345.71	5,795.61	20,327.51	48,238.67	73,016.74	100,130.45	150,581.79
Packers, Plugs, Retainers	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sucker Rod	164.55	2,758.57	9,675.40	17,402.00	26,340.64	36,121.85	0.00
Downhole Pump, PSN, Tbg Anchor	11,566.74	11,443.73	11,473.30	11,589.21	11,696.85	12,028.04	45,321.90
Service Rig	9,279.91	19,982.65	18,229.40	28,714.23	39,193.24	118,460.92	175,980.88
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	138.61	298.47	272.28	428.89	585.40	1,048.52	1,502.01
Crew Transportation	294.66	317.25	361.77	569.84	1,555.60	3,064.86	4,390.42
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	717.77	1,545.60	1,409.99	2,220.96	3,031.49	4,013.25	7,778.07
Vacuum Truck	763.46	1,643.98	1,499.73	2,362.32	3,224.43	4,572.10	8,273.12
Water and Trucking	1,056.83	3,517.00	3,963.34	6,242.90	8,521.20	15,262.33	21,863.36
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	0.00	0.00	189.17	297.98	5,999.15	11,382.52	15,588.07
Downhole Tool Rentals	0.00	0.00	0.00	0.00	3,061.07	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	1,439.22	3,083.69	5,732.13	8,800.77	11,346.91	16,064.78
Other Wireline Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slickline Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stimulation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Completions Supervisor	946.03	2,037.12	1,858.38	2,927.25	3,995.53	7,156.40	10,251.57
Completion Supervision Expenses	283.57	0.00	0.00	0.00	0.00	0.00	0.00
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	2,571.51	2,700.37	2,764.38	2,829.31	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pump Jank (If Req'd)	16,854.70	28,905.27	35,119.46	61,216.98	107,921.49	162,626.91	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	4,523.20	4,126.34	4,333.10	4,435.82	4,540.00	4,552.50
Flow Measure, Record and Transmit	7,204.05	7,756.32	7,075.79	7,430.34	7,606.48	7,785.13	7,806.57
TOTAL	\$15,354.20	\$41,329.50	\$68,571.43	\$122,858.75	\$183,949.75	\$314,918.24	\$459,100.22
Other							
Inspections	979.83	1,054.95	1,780.42	4,263.51	4,364.58	4,467.09	4,479.39
Garbage	145.68	372.53	1,180.50	2,253.92	4,999.26	14,169.24	36,309.99
TOTAL	145.68	372.53	1,180.50	2,253.92	4,999.26	14,169.24	36,309.99
SUB-TOTAL ASSESS	\$17,160.42	\$69,539.65	\$167,389.59	\$322,760.11	\$522,697.51	\$895,607.05	\$1,294,253.94
Contingency (5% of sub-total)	1,610.27	4,499.57	10,534.30	20,988.97	35,525.54	72,601.22	130,351.15
Office Administration (2% of sub)	644.11	1,799.83	4,213.72	8,395.59	14,210.22	29,040.49	52,140.46
Assessable Cost	\$19,414.80	\$75,839.05	\$182,137.61	\$352,144.67	\$572,433.27	\$997,248.76	\$1,476,745.55
# of wells	32	294	254	70	38	1	0
Depth	12194.7686	47215.9435	114729.9689	218564.1064	348048.6156	579229.0278	860095.9386
Assess.Cost	used in calculating linear equation						
	y = 108.71x + 12195						
FORMULA	(based on 305/1067/1829; x-intercept of 12194.8)						

WL80 - 2007 Final View	18 m	305 m	1067	1829	2743	3658	5486
Casing and Cementing							
Surface Casing	0.00	2,321.85	11,985.08	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	616.71	10,338.68	36,261.89	91,377.13	172,891.86	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.44
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	1,067.35
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	\$1,660.54	\$27,837.62	\$97,637.66	\$197,647.44	\$333,748.50	\$566,519.57	\$794,574.31
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	5,125.68	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	7,728.52	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	8,071.51	22,876.84	58,624.02
Tank Rental	0.00	0.00	622.73	1,486.22	2,637.18	28,029.36	45,490.95
TOTAL	0	0	0	0	0	0	0
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	18,451.27	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	3,326.64	16,302.19	28,609.12	84,183.01	220,212.54
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	521.96	2,557.88	4,488.88	13,208.63	34,552.18
Communications	187.92	480.52	1,522.71	3,634.12	6,448.47	18,276.70	46,835.72
Operations overhead	211.67	541.24	1,715.15	4,093.39	7,263.42	20,586.49	52,754.77
TOTAL	0	0	0	0	0	0	0
Completion and Testing							
Wellhead	3,442.15	7,131.00	13,967.76	18,158.64	22,216.90	24,405.17	29,230.89
Tubing	345.71	5,795.61	20,327.51	35,196.47	53,275.34	73,058.37	109,869.27
Packers, Plugs, Retainers	6,972.29	9,216.37	10,147.20	15,918.55	16,066.40	23,177.37	20,499.92
Sucker Rod	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Downhole Pump, PSN, Tbg Anchor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Service Rig	9,279.91	29,973.98	27,344.09	38,285.64	58,789.86	203,075.86	299,167.50
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	138.61	447.70	408.42	571.85	878.11	1,797.46	2,553.41
Crew Transportation	294.66	475.87	542.65	759.79	2,333.40	5,254.04	7,463.72
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	717.77	2,318.40	2,114.99	2,961.29	4,547.23	6,879.87	13,222.72
Vacuum Truck	763.46	2,465.96	2,249.60	3,149.76	4,836.65	7,837.89	14,064.31
Water and Trucking	1,056.83	3,413.56	3,114.06	4,360.12	6,695.23	13,704.95	19,468.80
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	0.00	0.00	283.76	397.30	8,998.73	19,512.88	26,499.72
Downhole Tool Rentals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	1,439.22	3,083.69	5,732.13	8,800.77	11,346.91	16,064.78
Other Wireline Services	32.83	707.01	1,842.81	3,628.39	5,943.05	8,110.18	10,673.92
Slickline Services	86.08	1,570.40	7,517.68	13,532.15	27,700.84	37,808.81	56,859.01
Stimulation	0.00	1,163.57	1,061.48	1,114.67	1,141.09	1,167.89	1,171.11
Completions Supervisor	946.03	3,055.68	2,787.57	3,903.00	5,993.29	12,268.11	17,427.67
Completion Supervision Expenses	283.57	915.91	835.55	1,169.89	1,796.44	3,677.26	5,223.79
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	5,143.03	5,400.73	5,528.76	5,658.61	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	8,652.71	11,840.29	12,433.58	29,699.43	30,396.97	30,480.66
Pump Jank (If Req'd)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	4,523.20	4,126.34	4,333.10	4,435.82	4,540.00	4,552.50
Flow Measure, Record and Transmit	7,204.05	7,756.32	7,075.79	7,430.34	7,606.48	7,785.13	7,806.57
TOTAL	\$22,445.40	\$65,809.21	\$99,265.34	\$153,943.90	\$236,563.09	\$458,087.30	\$651,695.26
Other							
Inspections	979.83	1,054.95	1,780.42	4,263.51	4,364.58	4,467.09	4,479.39
Garbage	145.68	372.53	1,180.50	2,253.92	4,999.26	14,169.24	36,309.99
TOTAL	145.68	372.53	1180.50	2253.92	4999.26	14169.24	36309.99
SUB-TOTAL ASSESS	\$24,251.62	\$94,019.36	\$198,083.50	\$353,845.26	\$575,310.85	\$1,038,776.11	\$1,482,579.56
Contingency (5% of sub-total)	1,378.26	5,013.44	11,203.99	21,093.67	37,044.34	82,221.76	150,239.57
Office Administration (2% of sub)	551.31	2,005.37	4,481.59	8,437.47	14,817.73	32,888.70	60,095.83
Assessable Cost	\$26,181.19	\$101,038.17	\$213,769.08	\$383,376.40	\$627,172.92	\$1,153,886.57	\$1,692,914.96
	416	8619	4016	2853	673	70	0
# of wells	18	305	1067	1829	2743	3658	5486
Depth	18090.4686	64398.0035	136227.5529	238873.22	384843.5188	674202.827	990704.1618
Assess.Cost	used in calculating linear equation						
	y = 118.86x + 18091						
	(based on 305/1067/1829; x-intercept of 18090.47)						

WL90 - 2007 Final View	18 m	305 m	1067	1829	2743	3658	5486
Casing and Cementing							
Surface Casing	0.00	3,695.13	13,483.69	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	1,309.56	21,953.74	77,000.55	133,324.15	252,258.54	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.44
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	1,067.35
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	2058	34873	121999	209124	358096	477548	667105
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	5,125.68	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	7,728.52	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	8,071.51	22,876.84	58,624.02
Tank Rental	0.00	0.00	622.73	1,486.22	2,637.18	28,029.36	45,490.95
TOTAL	0	0	0	0	0	0	0
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	18,451.27	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	3,326.64	16,302.19	28,609.12	84,183.01	220,212.54
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	521.96	2,557.88	4,488.88	13,208.63	34,552.18
Communications	187.92	480.52	1,522.71	3,634.12	6,448.47	18,276.70	46,835.72
Operations overhead	211.67	541.24	1,715.15	4,093.39	7,263.42	20,586.49	52,754.77
TOTAL	0	0	0	0	0	0	0
Completion and Testing							
Wellhead	12,908.05	11,996.79	17,459.69	25,213.08	33,490.16	37,285.68	44,186.23
Tubing	422.54	11,116.16	35,568.38	64,061.82	99,888.83	136,929.52	193,983.55
Packers, Plugs, Retainers	15,373.33	21,429.48	21,938.35	22,331.78	19,996.31	23,177.37	0.00
Sucker Rod	201.12	5,291.03	16,929.69	31,673.74	49,387.49	67,701.32	0.00
Downhole Pump, PSN, Tbg Anchor	12,074.17	11,945.76	11,976.63	12,097.63	12,209.99	12,555.71	80,479.37
Service Rig	27,839.73	69,939.28	82,032.28	114,856.91	146,974.64	304,613.79	422,354.12
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	415.82	1,044.64	1,225.26	1,715.54	2,195.26	2,696.19	3,604.82
Crew Transportation	883.98	1,110.37	1,627.95	2,279.36	5,833.49	7,881.06	10,537.01
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	2,153.32	5,409.60	6,344.96	8,883.86	11,368.07	10,319.80	18,667.37
Vacuum Truck	2,290.38	5,753.91	6,748.81	9,449.29	12,091.62	11,756.83	19,855.50
Water and Trucking	3,170.50	7,964.97	9,342.17	13,080.37	16,738.06	20,557.42	27,485.36
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	0.00	0.00	851.28	1,191.91	22,496.83	29,269.33	37,411.36
Downhole Tool Rentals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	2,152.47	4,942.73	9,392.49	14,796.19	19,523.43	26,832.75
Other Wireline Services	32.83	707.01	1,842.81	3,628.39	5,943.05	8,110.18	10,673.92
Slickline Services	157.81	4,518.10	21,923.64	49,260.29	77,906.73	141,726.19	200,778.84
Stimulation	0.00	1,163.57	1,061.48	1,114.67	1,141.09	1,167.89	1,171.11
Completions Supervisor	2,838.10	7,129.91	8,362.72	11,709.01	14,983.23	18,402.16	24,603.77
Completion Supervision Expenses	850.70	2,137.13	2,506.65	3,509.67	4,491.09	5,515.89	7,374.77
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	5,143.03	5,400.73	5,528.76	5,658.61	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	8,652.71	11,840.29	12,433.58	29,699.43	30,396.97	30,480.66
Pump Jank (If Req'd)	16,854.70	28,905.27	35,119.46	61,216.98	107,921.49	162,626.91	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	4,523.20	4,126.34	4,333.10	4,435.82	4,540.00	4,552.50
Flow Measure, Record and Transmit	7,204.05	7,756.32	7,075.79	7,430.34	7,606.48	7,785.13	7,806.57
TOTAL	\$63,593.59	\$141,681.77	\$214,784.36	\$331,897.34	\$477,991.36	\$773,052.39	\$1,036,394.66
Other							
Inspections	979.83	1,054.95	1,780.42	4,263.51	4,364.58	4,467.09	4,479.39
Garbage	145.68	372.53	1,180.50	2,253.92	4,999.26	14,169.24	36,309.99
TOTAL	145.68	372.53	1,180.50	2,253.92	4,999.26	14,169.24	36,309.99
SUB-TOTAL ASSESS	\$65,797.35	\$176,927.39	\$337,963.51	\$543,275.46	\$841,086.53	\$1,264,769.87	\$1,739,809.45
Contingency (5% of sub-total)	4,084.08	10,249.66	20,462.19	34,277.26	56,163.96	101,982.86	173,498.51
Office Administration (2% of sub)	1,633.63	4,099.86	8,184.87	13,710.90	22,465.58	40,793.15	69,399.41

Assessable Cost	\$71,515.06	\$191,276.91	\$366,610.57	\$591,263.62	\$919,716.07	\$1,407,545.88	\$1,982,707.37
	1	128	15699	10208	12559	4530	401
# of wells	18	305	1067	1829	2743	3658	5486
Depth							
Assess.Cost							
	y = 121.99x + 7597.8						
	(based on 1067\1829\2743 with an x-intercepth of 7490.8)						

WL110 - 2007 Final View	18 m	305 m	1067	1829	2743	3658	5486
Casing and Cementing							
Surface Casing	0.00	3,695.13	13,483.69	23,598.86	42,518.60	43,517.21	81,819.44
Attachments & Acces.	0.00	155.56	567.64	993.46	1,627.22	1,665.44	3,131.30
Tongs	0.00	1,579.70	5,764.39	10,088.70	16,524.59	16,912.69	31,798.61
Cement and Service	0.00	1,811.94	6,611.83	11,571.89	18,953.94	19,399.10	36,473.46
Intermediate Casing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production Casing	1,309.56	21,953.74	77,000.55	133,324.15	252,258.54	345,931.12	407,763.70
Attachments & Acces.	27.20	455.93	1,599.12	2,768.83	4,191.06	5,747.35	6,774.64
Tongs	604.15	10,128.09	35,523.26	61,507.47	93,101.11	127,672.88	150,493.44
Cement and Service	412.48	6,914.92	24,253.39	41,994.01	63,564.47	87,168.22	102,748.88
Production Liner	0.00	0.00	0.00	0.00	0.00	0.00	63,826.76
Attachments & Acces.	0.00	0.00	0.00	0.00	0.00	0.00	1,868.54
Linear Hanger & Running Eqpt	0.00	0.00	0.00	0.00	0.00	0.00	31,691.43
Tongs	0.00	0.00	0.00	0.00	0.00	0.00	3,202.06
Cement and Service	0.00	0.00	0.00	0.00	0.00	0.00	28,339.57
TOTAL	\$2,353.39	\$39,452.68	\$138,376.32	\$239,594.46	\$413,115.18	\$566,519.57	\$796,709.02
Rentals							
Wellsite trailer(s)	0.00	677.74	2,147.68	5,125.68	9,095.12	51,556.07	132,117.19
Sump pump(s)	0.00	0.00	0.00	0.00	7,728.52	21,904.71	56,132.83
Additional pumps, etc.	0.00	0.00	0.00	0.00	0.00	29,454.84	75,480.74
Solids control equipment	0.00	0.00	5,569.79	11,045.19	23,587.25	133,705.28	342,632.12
High Speed Mixer (s)	0.00	0.00	0.00	0.00	8,071.51	22,876.84	58,624.02
Tank Rental	153.70	0.00	1,245.47	2,972.44	5,274.37	28,029.36	45,490.95
TOTAL	0	0	0	0	0	0	0
Supervision and Administrations							
Drilling Supervisor(s)	954.10	2,439.70	7,731.17	18,451.27	32,740.36	92,795.04	237,795.85
Drilling Sup. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Supervision	0.00	0.00	0.00	0.00	29,462.91	83,505.85	213,991.45
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97	1,068.66	1,078.59	1,109.13	1,112.18
Geologist(s)	0.00	0.00	3,326.64	16,302.19	28,609.12	84,183.01	220,212.54
Geologist Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geology Supplies	0.00	0.00	521.96	2,557.88	4,488.88	13,208.63	34,552.18
Communications	187.92	480.52	1,522.71	3,634.12	6,448.47	18,276.70	46,835.72
Operations overhead	211.67	541.24	1,715.15	4,093.39	7,263.42	20,586.49	52,754.77
TOTAL	0	0	0	0	0	0	0
Completion and Testing							
Wellhead	13,983.73	12,706.28	18,429.68	18,158.64	33,490.16	38,641.52	44,186.23
Tubing	422.54	11,116.16	35,568.38	64,061.82	99,888.83	136,929.52	193,983.55
Packers, Plugs, Retainers	15,373.33	21,440.78	21,938.35	22,331.78	19,996.31	23,177.37	20,499.92
Sucker Rod	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Downhole Pump, PSN, Tbg Anchor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Service Rig	18,559.82	59,947.95	72,917.58	105,285.50	48,991.55	253,844.83	334,363.68
Boiler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew Subs & Accom.	277.22	895.40	1,089.12	1,572.58	731.75	2,246.82	2,853.81
Crew Transportation	589.32	951.74	1,447.07	2,089.41	1,944.50	6,567.55	8,341.80
Snubbing Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freight and Trucking	1,435.55	4,636.80	5,639.97	8,143.53	3,789.36	8,599.83	14,778.33
Vacuum Truck	1,526.92	4,931.93	5,998.94	8,661.85	4,030.54	9,797.36	15,718.94
Water and Trucking	2,113.67	6,827.11	8,304.15	11,990.34	5,579.35	17,131.18	21,759.25
Chemicals	0.00	555.40	1,772.50	3,190.58	4,898.43	6,685.86	10,054.56
Surface Eqpt. Rental	192.60	0.00	756.69	1,092.59	7,498.94	24,391.11	29,617.33
Downhole Tool Rentals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cased Hole Well Logs	0.00	871.50	5,179.68	9,356.37	14,246.72	20,087.68	29,484.32
Perforating Shot and Run Charges	0.00	2,152.47	4,942.73	9,392.49	14,796.19	19,523.43	26,832.75
Other Wireline Services	32.83	707.01	1,842.81	3,628.39	5,943.05	8,110.18	10,673.92
Slickline Services	105.21	3,012.07	8,769.46	16,420.10	25,968.91	35,431.55	50,194.71
Stimulation	0.00	1,163.57	1,061.48	1,114.67	1,141.09	1,167.89	1,171.11
Completions Supervisor	1,892.07	6,111.35	7,433.53	10,733.26	4,994.41	15,335.13	19,477.99
Completion Supervision Expenses	567.13	1,831.83	2,228.14	3,217.20	1,497.03	4,596.57	5,838.36
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Inspections	2,618.13	2,818.84	5,143.03	5,400.73	5,528.76	5,658.61	2,837.10
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44	1,040.85	1,050.51	1,080.26	1,083.23
Flow Testing Crew & Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pump Jank (If Req'd)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Injection Eqpt - Glycol/Chemical	4,201.13	4,523.20	4,126.34	4,333.10	4,435.82	4,540.00	4,552.50
Flow Measure, Record and Transmit	7,204.05	7,756.32	7,075.79	7,430.34	7,606.48	7,785.13	7,806.57
TOTAL	\$53,242.93	\$128,443.48	\$191,145.16	\$279,973.73	\$288,930.97	\$605,053.82	\$798,137.68
Other							
Inspections	2,960.47	8,725.90	17,866.05	29,566.82	43,762.92	89,570.08	157,668.43
Garbage	1,184.19	3,490.36	7,146.42	11,826.73	17,505.17	35,828.03	63,067.37
TOTAL	1,184.19	3,490.36	7,146.42	11,826.73	17,505.17	35,828.03	63,067.37
SUB-TOTAL ASSESS	\$56,780.51	\$171,386.52	\$336,667.90	\$531,394.92	\$719,551.32	\$1,207,401.42	\$1,657,914.07
Contingency (5% of sub-total)							
Office Administration (2% of sub)							
Assessable Cost	\$56,780.51	\$171,386.52	\$336,667.90	\$531,394.92	\$719,551.32	\$1,207,401.42	\$1,657,914.07
# of wells	18	305	1067	1829	2743	3658	5486
Depth	39510.6274	115896.5685	233508.5503	364549.2461	467420.8865	763459.4664	1089477.574
Assess.Cost	used in calculating linear equation						
FORMULA	y = 164.5x + 39511 (based on 1067/1829/2743; x-intercept of 39510.63)						

WL230 - 2007 Final View	18 m	305 m	1067			
Casing and Cementing						
Surface Casing	0.00	0.00	8,472.54			
Attachments & Acces.	0.00	0.00	567.64			
Tongs	0.00	0.00	5,764.39			
Cement and Service	0.00	0.00	6,611.83			
Intermediate Casing	0.00	0.00	0.00			
Attachments & Acces.	0.00	0.00	0.00			
Tongs	0.00	0.00	0.00			
Cement and Service	0.00	0.00	0.00			
Production Casing	616.71	10,338.68	36,261.89			
Attachments & Acces.	27.20	455.93	1,599.12			
Tongs	604.15	10,128.09	35,523.26			
Cement and Service	412.48	6,914.92	24,253.39			
Production Liner	0.00	0.00	0.00			
Attachments & Acces.	0.00	0.00	0.00			
Linear Hanger & Running Eqpt	0.00	0.00	0.00			
Tongs	0.00	0.00	0.00			
Cement and Service	0.00	0.00	0.00			
TOTAL	\$1,660.54	\$27,837.62	\$97,637.66			
Rentals						
Wellsite trailer(s)	0.00	677.74	1,171.46			
Sump pump(s)	0.00	0.00	0.00			
Additional pumps, etc.	0.00	0.00	0.00			
Solids control equipment	0.00	0.00	3,038.07			
High Speed Mixer (s)	0.00	0.00	0.00			
Tank Rental	0.00	0.00	0.00			
TOTAL	0	0	0			
Supervision and Administrations						
Drilling Supervisor(s)	954.10	2,439.70	4,217.00			
Drilling Sup. Expenses	0.00	0.00	0.00			
Environmental Supervision	0.00	0.00	0.00			
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97			
Geologist(s)	0.00	0.00	0.00			
Geologist Expenses	0.00	0.00	0.00			
Geology Supplies	0.00	0.00	0.00			
Communications	187.92	480.52	830.57			
Operations overhead	0.00	0.00	0.00			
TOTAL	0	0	0			
Completion and Testing						
Wellhead	3,442.15	7,131.00	13,967.76			
Tubing	345.71	5,795.61	20,327.51			
Packers, Plugs, Retainers	0.00	0.00	0.00			
Sucker Rod	0.00	0.00	0.00			
Downhole Pump, PSN, Tbg Anchor	0.00	0.00	0.00			
Service Rig	5,393.95	11,614.92	10,595.84			
Boiler	0.00	0.00	0.00			
Crew Subs & Accom.	69.30	149.23	136.14			
Crew Transportation	147.33	158.62	180.88			
Snubbing Unit	0.00	0.00	0.00			
Freight and Trucking	358.89	772.80	705.00			
Vacuum Truck	381.73	821.99	749.87			
Water and Trucking	528.42	1,137.85	1,038.02			
Chemicals	0.00	555.40	1,772.50			
Surface Eqpt. Rental	0.00	0.00	94.59			
Downhole Tool Rentals	0.00	0.00	0.00			
Cased Hole Well Logs	0.00	871.50	5,179.68			
Perforating Shot and Run Charges	0.00	34,745.17	45,862.57			
Other Wireline Services	0.00	0.00	0.00			
Slickline Services	0.00	0.00	0.00			
Stimulation	0.00	831.12	758.20			
Completions Supervisor	473.02	1,018.56	929.19			
Completion Supervision Expenses	141.78	305.30	278.52			
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00			
Environmental Inspections	2,618.13	2,818.84	2,571.51			
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44			
Flow Testing Crew & Equipment	0.00	0.00	0.00			
Pump Jank (If Req'd)	0.00	0.00	0.00			
Injection Eqpt - Glycol/Chemical	4,201.13	4,523.20	4,126.34			
Flow Measure, Record and Transmit	0.00	0.00	0.00			
TOTAL	\$10,325.03	\$64,006.43	\$100,804.38			
Other						
Inspections	979.83	1,054.95	1,780.42			
Garbage	137.05	350.45	1,110.54			
TOTAL	\$137.05	\$350.45	\$1,110.54			
SUB-TOTAL ASSESS	\$12,122.62	\$92,194.50	\$199,552.58			
Contingency (5% of sub-total)	761.23	4,895.13	10,582.40			
Office Administration (2% of sub)	304.49	1,958.05	4,232.96			
Assessable Cost	\$13,188.34	\$99,047.68	\$214,367.94			
	0	453	26741			
# of wells	18	305	1067			
Depth	9952.1556	58859.6835	132500.3149			
Assess.Cost	used in calculating linear equation					
	y = 118.29x + 9952					
FORMULA	(based on 305/1067;x-intercept of 9952)					

WL240 - 2007 Final View	18 m	305 m	1067			
Casing and Cementing						
Surface Casing	0.00	0.00	8,472.54			
Attachments & Acces.	0.00	0.00	567.64			
Tongs	0.00	0.00	5,764.39			
Cement and Service	0.00	0.00	6,611.83			
Intermediate Casing	0.00	0.00	0.00			
Attachments & Acces.	0.00	0.00	0.00			
Tongs	0.00	0.00	0.00			
Cement and Service	0.00	0.00	0.00			
Production Casing	616.71	10,338.68	36,261.89			
Attachments & Acces.	27.20	455.93	1,599.12			
Tongs	604.15	10,128.09	35,523.26			
Cement and Service	412.48	6,914.92	24,253.39			
Production Liner	0.00	0.00	0.00			
Attachments & Acces.	0.00	0.00	0.00			
Linear Hanger & Running Eqpt	0.00	0.00	0.00			
Tongs	0.00	0.00	0.00			
Cement and Service	0.00	0.00	0.00			
TOTAL	1,660.54	27,837.62	97,637.66			
Rentals						
Wellsite trailer(s)	0.00	677.74	1,171.46			
Sump pump(s)	0.00	0.00	0.00			
Additional pumps, etc.	0.00	0.00	0.00			
Solids control equipment	0.00	0.00	3,038.07			
High Speed Mixer (s)	0.00	0.00	0.00			
Tank Rental	0.00	0.00	339.67			
TOTAL	0	0	0			
Supervision and Administrations						
Drilling Supervisor(s)	954.10	2,439.70	4,217.00			
Drilling Sup. Expenses	0.00	0.00	0.00			
Environmental Supervision	0.00	0.00	0.00			
Cleanup/reclamation Supervision	980.11	1,055.25	1,057.97			
Geologist(s)	0.00	0.00	0.00			
Geologist Expenses	0.00	0.00	0.00			
Geology Supplies	0.00	0.00	0.00			
Communications	187.92	480.52	830.57			
Operations overhead	211.67	541.24	935.54			
TOTAL	0	0	0			
Completion and Testing						
Wellhead	3,442.15	7,131.00	13,967.76			
Tubing	345.71	5,795.61	20,327.51			
Packers, Plugs, Retainers	6,972.29	8,028.99	7,312.78			
Sucker Rod	0.00	0.00	0.00			
Downhole Pump, PSN, Tbg Anchor	0.00	0.00	0.00			
Service Rig	10,787.90	23,229.83	31,787.51			
Boiler	0.00	0.00	0.00			
Crew Subs & Accom.	138.61	298.47	408.42			
Crew Transportation	294.66	317.25	542.65			
Snubbing Unit	0.00	0.00	0.00			
Freight and Trucking	717.77	1,545.60	2,114.99			
Vacuum Truck	763.46	1,643.98	2,249.60			
Water and Trucking	1,056.83	2,275.70	3,114.06			
Chemicals	0.00	555.40	1,772.50			
Surface Eqpt. Rental	0.00	0.00	283.76			
Downhole Tool Rentals	0.00	0.00	0.00			
Cased Hole Well Logs	0.00	871.50	5,179.68			
Perforating Shot and Run Charges	0.00	34,745.17	45,862.57			
Other Wireline Services	32.83	707.01	1,842.81			
Slickline Services	86.08	1,570.40	5,011.79			
Stimulation	0.00	831.12	758.20			
Completions Supervisor	946.03	2,037.12	2,787.57			
Completion Supervision Expenses	283.57	610.61	835.55			
Inspection s(C/H Tool Rentals)	0.00	0.00	0.00			
Environmental Inspections	2,618.13	2,818.84	2,571.51			
Lease Cleanup & Reclam.	954.60	1,027.78	1,030.44			
Flow Testing Crew & Equipment	0.00	0.00	0.00			
Pump Jank (If Req'd)	0.00	0.00	0.00			
Injection Eqpt - Glycol/Chemical	4,201.13	4,523.20	4,126.34			
Flow Measure, Record and Transmit	7,204.05	7,756.32	7,075.79			
TOTAL	23953.39	88389.46	140844.05			
Other						
Inspections	979.83	1,054.95	1,780.42			
Garbage	145.68	372.53	1,180.50			
TOTAL	145.68	372.53	1,180.50			
SUB-TOTAL ASSESS	25759.61	116599.61	239662.21			
Contingency (5% of sub-total)	1453.66	6142.45	12651.65			
Office Administration (2% of sub)	581.46	2456.98	5060.66			
Assessable Cost	\$27,794.73	\$125,199.04	\$257,374.52			
# of wells	0	66	5577			
Depth	18	305	1067			
Assess.Cost	18648.5806	73580.7435	159946.6709			
FORMULA	used in calculating linear equation y = 136.03x + 18649 (based on 305/1067; x-intercept of 18648.58)					