

GREENHILLS MINE  
EXPLORATION  
PROGRAM

CONFIDENTIAL

GEOLOGICAL BRANCH  
REPORT

[REDACTED]

735

Kootenay Land District (2 Areas)  
N.T.S. Sheet 82J

Centering approximately } 5552500N 652200E (UTM)  
5555500N 650800E (UTM)

Lands Held and Operated by Westar Mining Ltd.  
Submitted for Work Completed  
Under the Terms of Fame Grant #10963-M8

February 1, 1988

L. B. Samuelson, P.Eng.  
Supervisor Geology and Mine  
Planning  
Greenhills Operations

## TABLE OF CONTENTS

<b>SUMMARY</b> .....	Page 1
1.0 INTRODUCTION.....	Page 3
1.1 Location.....	Page 3
1.2 Access.....	Page 3
1.3 Topography, Climate and Vegetation.....	Page 3
1.4 Land Description and Ownership.....	Page 4
2.0 OBJECTIVE OF PRESENT PROGRAM.....	Page 4
2.1 Greenhills Mine Overview.....	Page 4
2.2 Objective.....	Page 4
3.0 EXPLORATION WORK.....	Page 5
3.1 Pre 1979 Work.....	Page 5
3.2 1980 - 1984.....	Page 5
3.3 1985.....	Page 5
3.4 1986.....	Page 6
3.5 1987.....	Page 6
4.0 DRILLING, SAMPLING, ETC.....	Page 6
4.1 Drilling.....	Page 6
4.2 Sampling and Assaying.....	Page 7
4.3 Hole Logging.....	Page 11
5.0 GEOLOGY.....	Page 11
5.1 General Geology.....	Page 11
5.2 Structure.....	Page 13
6.0 ECONOMIC GEOLOGY.....	Page 13
6.1 Seam Description.....	Page 13
6.1.1 7 Seam.....	Page 14
6.1.2 10 Seam.....	Page 14
6.1.3 16 Seam.....	Page 14
6.1.4 20 Seam.....	Page 15
6.1.5 22 Seam.....	Page 15
6.1.6 25 Seam.....	Page 15
6.1.7 Remaining Seams.....	Page 15
6.2 Quality.....	Page 16
6.3 Reserves.....	Page 17

STATEMENT OF COSTS.....	Page 19
STATEMENT OF QUALIFICATIONS.....	Page 24
TABLES:	
Table 1 -List of Drill Hole Co-ordinates....	Page 8
Table 2 -Summary of Coal Quality.....	Page 17
Table 3 -Insitu Reserve Volumes.....	Page 18
FIGURES:	
Figure 1 -Index Map.....	Page 2
PLATES:	
Plate 1 -Sample Analysis Procedure C1-GH....	Page 9
Plate 2 -Sample Analysis Procedure C2-GH....	Page 10
Plate 3 -Generalized Stratigraphic Column...	Page 12
APPENDIX:	
1. 1987 Sample Analysis Results	
2. Compendium of all Available related Quality data	
3. Geophysical Logs (Gamma) for 1987 Drill Holes	
4. X-Sections for South Block	
POCKETS:	
481-3 Exploration Location Plan, Roads and Drill Holes	
481-3A Exploration Location Plan, Road and Drill Hole South Block	
481-4 Exploration Location Map, Seam Out Crop and Structure	
481-4A Exploration Location Map, Seam Out Crop and Structure (South Block)	
X- Sections AA to VV for North Block	
Computer Plotted Hang Wall and Isopac Maps for 7, 10, 16, 20, 22, 25 Seams	

## SUMMARY

In July of 1987 a grant under the "Financial Assistance for Mineral Exploration" program was awarded to Westar Mining Ltd., Greenhills Operations. The grant was used as partial funding of an exploration program designed to; a. Further identify and delineate low strip ratio high volatile reserves, b. Perform a preliminary investigation of 7 & 10 seam as a possible replacement for 1 seam in our standard metallurgical product.

During the program 5,497 meters of reverse circulation drilling were drilled with 40 holes completed. Eighteen holes were drilled for 10 seam or a combination of 7 and 10 seam. The remaining holes were drilled in the high vol. area.

Drilling density in the high vol. area is high enough to give sufficient information to complete the detailed mine planning. In the 10 seam south block enough information is now available to complete the preliminary mine planning. In the northern block 10 seam sufficient information has been generated to demonstrate the continuity of the seams but further work should be done before mine planning is started.

The general objectives of the program have been completed as outlined in the original proposal.



## **1.0 INTRODUCTION**

### **1.1 Location**

The project is located in the vicinity of the existing Greenhills mining operation with the target area divided into two blocks. The area lies approximately 12.5 kilometers north and 2.5 kilometers east of Elkford and 51 kilometers north of Sparwood. (See Index Map Figure 1.)

### **1.2 Access**

A paved road connects Elkford to the Fording Coal surface mine. Access for contractors to the project area is from this road, via secondary logging roads, through the south end of Fording Coal's property. Access for Greenhills personnel working on the project was via exploration roads from the north end of the Greenhills Mine.

### **1.3 Topography, Climate and Vegetation**

The topography of the area is the same as that of the Greenhills Mine. The area lies mainly along the crest of the Greenhills Ridge which has a very steep slope and is cut by several ephemeral streams which flow into the Elk River 850 metres below the ridge crest. Vegetation on the upper part of the west side is sparse consisting of mainly grasses, herbs, shrubs and a few stunted trees. Several ephemeral streams flow east from the ridge into Cataract Creek 450 metres below the ridge top. On the east side, the topography is less steep with several spurs projecting to the east. The east side of the ridge is mainly open as the result of clearcut logging with a few conifers remaining near the crest. On the south block vegetation on the east side of the ridge is similar to that on the west side, i.e. Grasses, herb and shrubs. The climate is the same as the Greenhills Mine area with generally cool Summers and Falls, rainy and wet Springs and cold Winters with moderate to high snowfalls.

#### **1.4 Land Description and Ownership**

During February of 1968, Westar Mining Ltd., then Kaiser Coal Ltd., acquired the coal rights to 43,725 hectares of coal-bearing lands from Crows Nest Industries Ltd. The Greenhills Mine exploration program area covers approximately 315 hectares in two blocks and was part of this acquisition. The larger block (270 hectares) is to the northeast and adjacent to the present Cougar North Pit. The smaller parcel lies just north of the present Eagle Pit and below the 16 Seam footwall, (See Index Map Figure 1). The property is located within Lot 1, District 4588 Plan, Kootenay District Certificate of Title 117880.

### **2.0 OBJECTIVE OF PRESENT PROGRAM**

#### **2.1 Greenhills Mine Overview**

Westar's Greenhills Mine located northeast of Elkford produced 2.48 million tonnes of metallurgical coal and 650,000 tonnes of thermal coal in 1987 and present projections indicate that production will remain at this level for several years. The markets for both types of coal are improving but remain very competitive with the current excess supply expected to continue into the immediate future. Coal prices have declined every year for the last six years, eliminating some of the less cost-efficient producers. To remain competitive and maintain our market share, alternate means of increasing productivity and cost-efficiency, and developing new markets are continually under investigation. Optimizing the mine plan through the development of a superior geological model will help to accomplish this.

#### **2.2 Objective**

Two general targets were outlined at the commencement of the 1987 exploration program:

- (a) Shipment of high V.M. metallurgical coal in late 1986 and early 1987 indicated that long term contracts were available if sufficient mineable reserves could be identified. The strong demand that existed at that time has softened somewhat although good markets are still available. The 1986 program identified high V.M. reserves and the 1987 program was intended to generate information for detailed mine plans.
  
- (b) Because of geotechnical constraints imposed late in 1986 about 4 million tonnes of low volatile coal had to be removed from the 5-year mine plan. The low volatile component forms about 40% of our standard blend which represents about 90% of the metallurgical coal produced and sold by the Greenhills mine. Exploration was required on 7 and 10 Seams in order to identify replacement coals for the lower volatile component of the blend.

### 3. EXPLORATION WORK

- 3.1 Pre 1979 work in the project area was minimal. An access road was built in the early 70's and five rotary reverse circulation holes were drilled. In the mid 70's further bulldozer work for access and drillsites was completed and eleven core holes were drilled for structural and quality information.
  
- 3.2 Between 1980 and 1984, sixteen more rotary reverse circulation holes along with the associated cat work were completed using Greenhills' Schramm Reverse Circulation drill. This work was concentrated on the south and east sides of the present project area.
  
- 3.3 In 1985 another small program of twelve reverse circulation drillholes was undertaken with encouraging results. To carry out this program a contract drill rig and dozer were used.



- 3.4 In 1986 an extensive exploration program was carried out to identify high V.M. reserves. During this program approximately 12,000 metres of road was built using a contracted D8K dozer. Fifty-six CSR drillholes were completed for a total of 9,400 metres. To complete the drilling, two contract CSR drill rigs and our own Schramm reverse circulation drill were utilized.
- 3.5 During the late summer and fall of 1987 a drilling program was carried out with the aid of a F.A.M.E. grant from the Provincial Government of B.C. Approximately 7.5 Kilometers of new road and 46 drill sites were built utilizing a contracted D8K. During the program, forty 13 cm CSR (centre sample return) drill holes were completed. Thirty-four of these holes, for a total of 4,634 metres, were completed with the Greenhills Schramm T685D reverse circulation drill. The remaining five holes (863 metres) were completed by a contractor using Cyclone TH70 with a 600 cfm/250 psi compressor.

#### 4. DRILLING, SAMPLING, ETC.

##### 4.1 Drilling

The drilling was divided into two areas of concern; (a) Replacement coal for the low volatile component of the blend; (b) High V.M. metallurgical coal.

- (a) Drilling for replacement coal consisted of a preliminary exploration program to gather information mainly on 10 Seam with some holes going as deep as 7 Seam. Eighteen holes were drilled for this section of the program for a total of 2,540 metres. The average depth was 134 metres with a maximum of 250 metres.

(b) Drilling in the high volatile area was required, to resolve anomalies which existed, prior to developing the mine plan. Twenty-two holes for 2,760 metres of drilling was completed in this area. The average hole depth was 131 metres and the maximum was 248 metres.

All the drill holes started off at 130 mm or 140 mm in diameter and were reduced as required down to a minimum of 120 mm in increments of either 3 or 6 mm. All holes were started vertically and no deviations were run on any of the forty holes in this program. Table 1 lists the coordinates of all the holes drilled in the project area during the 1987 program. Maps 481-3 and 481-4 (in pocket) shows the location of all the holes drilled as well as all previously existing and new roads in the project area.

#### **4.2 Sampling and Assaying**

Assay work on all drill hole coal intercepts was performed by Westar's Central Laboratory in Sparwood, B.C. The procedures followed are shown in plates 1 and 2.

All coal zones were sampled in either five foot or one metre increments. These increments were then sent to the lab for analysis of ash and F.S.I. Lab results were then returned to the Geology Department and composites were determined based on these results. The incremental samples were combined by the lab to form composites to represent seam intervals. Composites were subjected to the standard tests as outlined in the procedures plus any optional tests which are required.

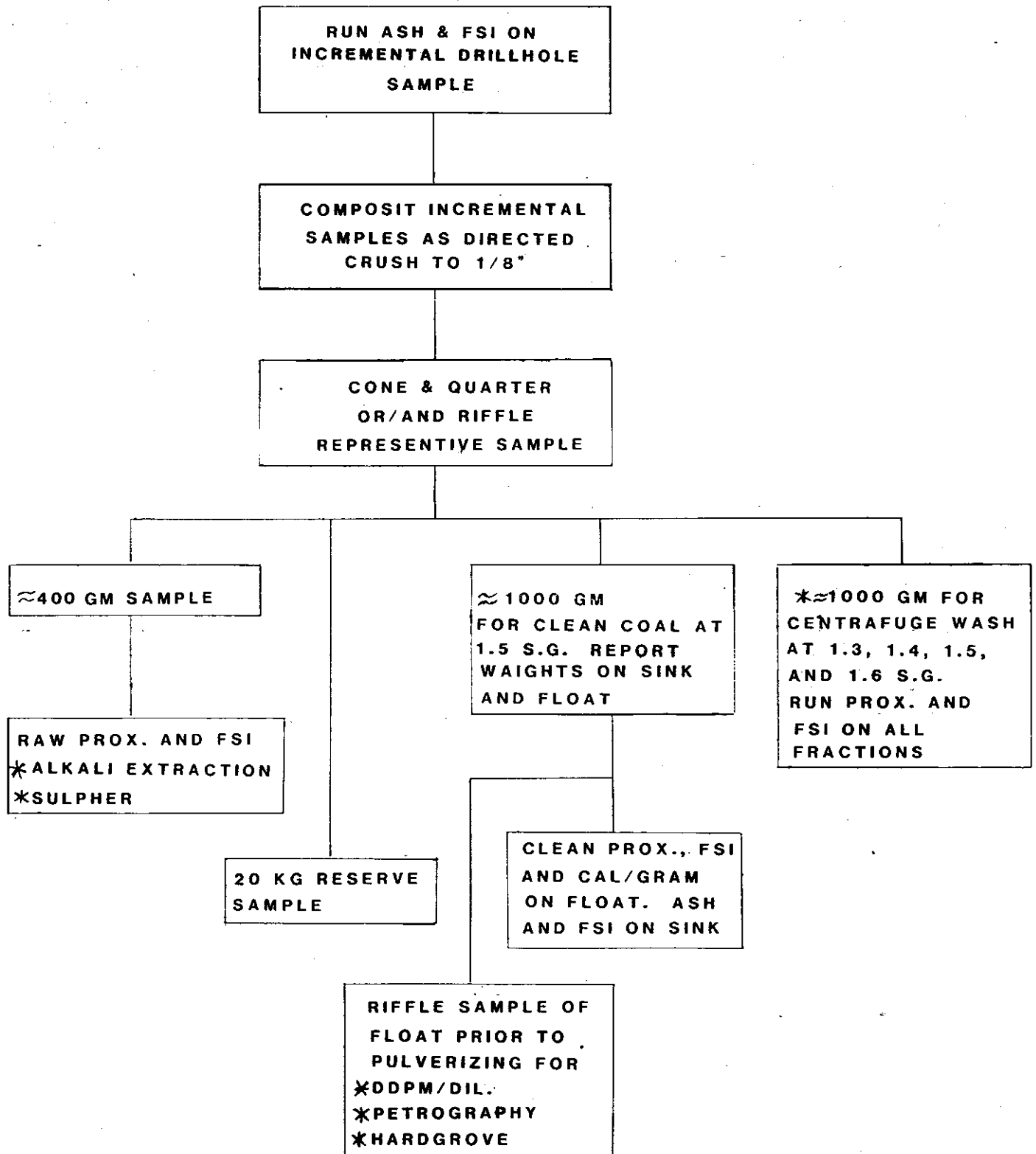
Table 2 gives a summary of the Quality by Seam for the major seams of interest and Appendix I gives the available raw data for the sampled coal intercepts encountered in the 1987 drilling program. Appendix 2 gives all available quality data by hole by seam within the general area of the Greenhills mine exploration area.

TABLE 1

DRILL HOLE COORDINATES  
FOR GREENHILLS 1987 EXPLORATION PROGRAM (F.A.M.E. SPONSORED)

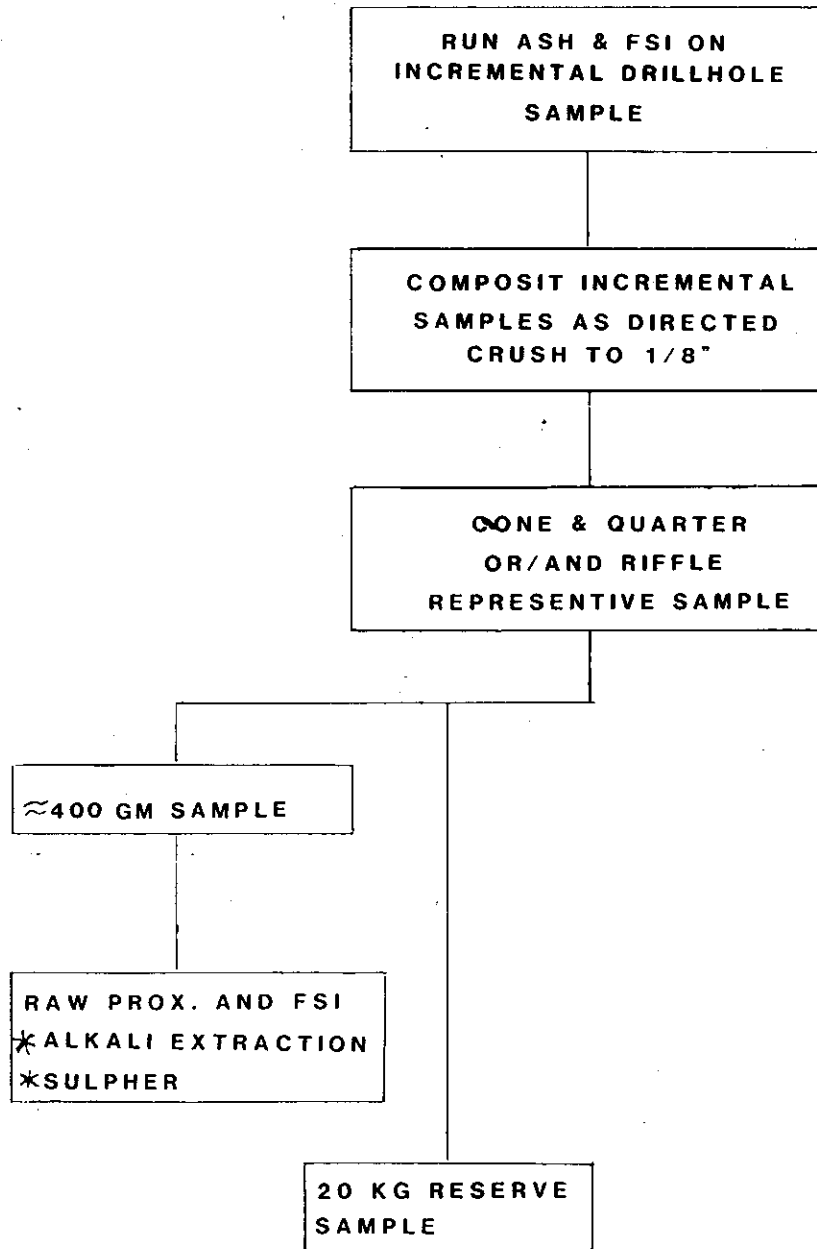
DRILL HOLE	HOLE DEPTH	COORDINATES		
		LATITUDE	DEPARTURE	ELEV
RC1031	73.2	5552078.1	652315.7	2219.9
RC1032	164.6	5552211.2	652360.8	2293.3
RC1033	42.7	5552152.4	652415.1	2174.4
RC1034	42.7	5552081.3	652398.3	2184.4
RC1035	103.7	5552369.3	652334.8	2207.2
RC1036	140.3	5552481.1	652315.8	2216.4
RC1037	152.4	5552566.0	652232.9	2219.8
RC1038	146.3	5552500.5	652168.1	2248.2
RC1039	146.3	5552335.5	652235.3	2243.2
RC1040	140.2	5552182.6	652281.6	2235.9
RC1063	213.4	5556469.4	650290.7	1964.8
RC1064	115.9	5556297.0	650027.3	2046.4
RC1065	243.9	5556235.5	650323.2	2040.0
RC1066	250.0	5555951.1	650268.6	2073.0
RC1067	141.7	5555008.7	650890.7	2139.1
RC1068	115.9	5554842.6	650929.6	2158.3
RC1069	109.8	5554971.3	651036.1	2063.6
RC1070	42.7	5555176.8	651022.8	2066.2
RC1071	103.7	5555390.9	650978.0	2072.7
RC1072	140.2	5555563.9	650905.3	2077.9
RC1073	97.6	5555298.7	651143.0	2004.8
RC1074	164.6	5555498.5	651698.6	1902.9
RC1075	97.6	5555708.6	651673.4	1817.7
RC1076	146.3	5555646.1	651644.8	1824.3
RC1077	167.7	5555231.4	651736.3	1950.2
RC1078	115.9	5555319.0	651439.7	1909.1
RC1079	213.4	5555327.3	651572.9	1924.3
RC1080	166.1	5555493.9	651386.7	1870.9
RC1081	91.5	5555218.6	651331.0	1942.5
RC1082	134.1	5555227.3	651473.9	1944.8
RC1083	79.3	5555034.9	651282.9	2010.0
RC1084	207.3	5555069.5	651448.4	2006.7
RC1085	140.2	5555090.2	651595.1	2039.2
RC1091	176.8	5552497.1	652063.7	2223.1
EV222	130.0	5555681.6	651543.2	1825.1
EV223	200.0	5555810.3	651507.9	1833.0
EV224	248.0	5555626.0	651520.8	1848.4
EV225	125.0	5555466.6	651518.1	1856.2
EV226	160.0	5555880.6	651547.3	1800.2

# PROCEDURE C1-GH



NOTE: \* Indicates optional test to be performed only on request.

# PROCEDURE C2-GH



NOTE: \*Indicates optional test to be performed only on request.

### **4.3 Hole Logging**

All the holes drilled in the 1986 program have been logged using a Model T450-E S.I.E. Gamma ray downhole logger. A reproduction of all the logs for the holes drilled during the 1987 Greenhills Mine Exploration program are included in Appendix 3. Because of manpower constraints, chip logs were not made and chips were not saved. Although it was realized that deviation logs would be useful for more accurate structural interpretation, they were not run at the time because of time and manpower constraints. Deviation surveys will be run during 1988 if time permits. Seam intercepts from the gamma logs were used in determining hanging wall depths and seam thicknesses for coal intervals.

## **5.0 GEOLOGY**

### **5.1 General Geology**

The project area lies within the top half of the Mist Mountain Formation which is the coal-bearing horizon of the Kootenay Group of the Upper Jurassic-Lower Cretaceous Era. The Upper Mist Mountain Formation is interpreted to have been deposited in an upper deltaic-plain or alluvial plain depositional environment. The predominant lithology is fine-grained sandstones, siltstones and mudstones interspersed with carbonaceous zones and coal seams. Coal seams vary from regionally continuous to very limited in lateral extent resulting in the amount of coal in the stratigraphic section varying greatly from place to place within the project area. The lower half of the Mist Mountain formation is a lower deltaic-plain and/or Barrier Bar type depositional environment. The lithology tends more toward the coarser type sediments. Coal zones are not as abundant as in the upper Mist Mountain but tend to be more consistent and continuous. Plate 3 is a generalized stratigraphic column of the Mist Mountain Formation.

## **5.2 Structure**

The major structure affecting the reserve area is the Greenhills syncline which is north-south trending and plunges gently to the north. The beds on the west side of the axis dip easterly up to 45° except in the vicinity of the axis where the structure has been complicated by drag folding, minor thrust faulting and late small scale normal faulting. The beds on the east limb dip steeply to the west and are cut off on the east by the Fording River normal fault which has a displacement of several hundred metres. The beds on the east limb have been structurally disturbed by numerous minor thrust and normal faults. Maps 481-3A and 481-4A (in pocket) illustrates the major structural features and the projected seam outcrops of 7, 10, 16, 20, 22 and 25 Seams in the project area. Cross-sections AA through VV which are included in the pocket, are drawn between holes and show the structural configurations of the coal seams in relation to the major structural features of the project area.

Also included in the pocket in the back are copies of computer-generated hangwall and isopac maps for 7, 10, 16, 20, 22 and 25 Seams. These are the same maps that were used to generate the reserve volumes.

## **6.0 ECONOMIC GEOLOGY**

### **6.1 Seam Descriptions**

The main thrust of this year's exploration was to delineate replacement coal for the low volatile component of our standard blend and to define the structure and quality of the high volatile area to the point where detailed mine planning can be done. The number of seams vary from drill hole to drill hole, however Seams 7, 10, 16, 20, 22 and 25 appear to be more or less continuous throughout the area under investigation.

#### 6.1.1 7 Seam

Seven Seam is one of the major seams on which we have the least information. It appears that it is continuous from the south end of the Greenhills to the north property boundary. Thickness on 7 Seam varies from 7 to 14 metres and the seam lies 50 to 75 metres below 10 Seam. The insitu raw ash of 7 Seam is 18-22% and rock partings near the footwall and hangingwall are common. The seam has a dry ash free V.M. of approximately 26% and is considered as replacement for the present low vol component of our present blend.

#### 6.1.2 10 Seam

Ten Seam is 100 to 125 metres below 16 Seam. The seam attains thicknesses of 3 to 16 metres in the area north-east of Cougar North Pit. The average thickness in this area is around 9 metres. In the south block of the project area, 10 Seam splits into several seams of variable thickness. These seams occupy a zone of between 15 metres and 25 metres, the coal being 30% to 70% of the total zone with the percentage of coal decreasing from the south to the north. Ten Seam is a m.v.b. coal with dry ash-free V.M. of 27.5%. The raw ash of 10 Seam is 20% plus, however a good portion of this ash is in the form of small rock partings which are easily separated out by the breaker or wash plant.

#### 6.1.3 16 and 16L Seams

These are a continuation of 16 and 16L Seams in the Cougar North development. 16 Seam is the most continuous of all the upper seams in the north dump area. The thickness is variable from 11 metres to 5 metres and is generally thinning to the north. These seams range in ash from 12% up to 30% with 16L nearly always being higher in raw ash than 16 Seam. These seams are borderline high vol with dry ash-free V.M.'s of 30% to 32%.



#### 6.1.4 20 Seam

Twenty Seam varies between 0 and 7 metres thick and does not show any consistent thickness trends. It lies 30 to 50 metres above 16 Seam and sometimes occurs as split into an upper and lower seam. The seam(s) are generally quite clean with an ash of 14% to 20%. 20 Seam is the first seam in the section which consistently falls into the high vol classification of greater than 31% V.M. on air-dry mineral matter free basis (dmmf).

#### 6.1.5 22 Seam

This is a zone rather than a single Seam and usually contains two or more seams of varying thickness over a 10-15 metre interval. Total coal in the zone can be as much as 6 to 8 metres. The zone lies 20 to 40 metres above 20 Seam on the west side of the syncline and only 5 to 20 metres above on the east side. Ash in the 22 seams varies from 8% up to 25% and V.M. in 22 Seam is about 33% on a dry mineral matter free basis (dmmf).

#### 6.1.6 25 Seam

Seam 25-26 is located 20 to 40 metres above 22 Seam and is occasionally over 5 metres thick. In some areas this seam is quite dirty due to numerous rock splits which occur. Raw ash varies dramatically between 10% and 45% in direct relation to the number and thickness of the splits which occur. V.M. on d.m.m.f. is in the range of 34%.

#### 6.1.7 Remaining Seams

Numerous other seams occur within the area under investigation. These seams vary in thickness from less than one metre to over seven metres. Above 16 Seam these seams are lenticular in configuration making correlation difficult.

Below 16 Seam the seams tend to be more continuous and have a larger lateral extent. Seams 11 and 13 underlie 16 Seam virtually everywhere in the northern block, whereas these seams are absent from the section between 16 and 10 Seams in the south block. These seams form a part of the reserve base where they exceed 1.5 metres in thickness.

## 6.2 Quality

The quality of the seams vary considerably with respect to parameters such as raw proximate, washability characteristics, and petrological tests. All the seams above 16 Seam, however, have one thing in common, on the basis of reflectance and clean V.M.'s they are classed as high volatile coals. The upper seams, that is 16 and up, have generally proven to be very easy coals to clean with difficulties ranging 10% to 20% at 1.55 S.G. and a clean ash of 6.5% to 7.5%. The exception which has been noted in the present mining operations is 20 Seam which gives a low yield when washed to a 7% ash. The seams below 16 Seam can be classified as medium volatile bituminous coals (m.v.b.). These coals are more difficult to wash than the upper seam coals with difficulties ranging from 20% to 35% at 1.55 S.G. and a clean ash of 7.5 to 9.0. Table 2 is a summation of the quality of the main seams encountered in the project area. Appendix 1 gives a summary listing of all the available quality of all the coals by hole and by seam for the past summer's program. Appendix 2 is a compendium of all the available quality data by hole by seam within the general area of the Greenhills Mine Exploration program.

**Table 3**

<u>Seam</u>	<u>In-situ Volume</u> <u>(1,000 Tonnes)</u>	
7	38,372	Metric Tonnes
10	41,546	
Other Med. Vol.	26,200	
16	34,057	
20	19,167	
22	23,199	
25	7,829	
Other High Vol.	16,120	
	-----	
<b>Total</b>	<b>206,490</b>	<b>Metric Tonnes</b>

**WESTAR MINING LTD.  
HIGH VOL EXPLORATION PROJECT  
STATEMENT OF COSTS**

Reverse Circulation Drilling:	
Contract - S.D.S. Ltd.	\$ 39,947
Greenhills Drill	116,117
 Dozer Work:	
Rudy Johnson Ltd.	39,420
 Coal Sample Analysis	75,608
 Manpower:	
Geology and Supervision	47,370
Includes Survey and Quality	
 Other:	
Logging Boreholes	4,530
Pickup (rental rate) - 4.5 months	3,825
 Computer Time (Est)	6,000
	-----
 <b>TOTAL</b>	 <b>\$332,817</b>




**FAME PROGRAM**  
(FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION)

Grant  
Identification  
No. 10963-M8

**FORM 3**  
**APPLICATION FOR PAYMENT**

**INSTRUCTIONS:**

- Please type or print
- Please submit completed forms, **with two copies of the final technical report**, to:  
*Mailing address:* Manager, FAME, Mineral Resources Division.  
 Ministry of Energy, Mines and Petroleum Resources, Parliament Buildings, Victoria, B.C. V8V 1X4  
*Office location:* Manager, FAME, Mineral Resources Division, 300, 756 Fort Street, Victoria, B.C.

<b>Date of this Application</b>			
<p>Applicant: <u>Westar Mining Ltd.</u></p> <p>Address: <u>P.O. Box 4000</u> Telephone: <u>604-865-3303</u></p> <p>City: <u>Elkford</u> Province: <u>B.C.</u> Postal Code: <u>VOB 1H0</u></p> <p>Mailing Address (if different from above)</p> <p>Name: <u>same</u></p> <p>Address: _____</p> <p>City: _____ Province: _____ Postal Code: _____</p>			
<p><b>British Columbia Free Miner Certificate No.</b> <u>C-80</u></p>			
<p>I/We, <u>Westar Mining Ltd.</u> hereby apply for payment of a grant under the FAME (Financial Assistance for Mineral Exploration) Program and declare the information given above to be true and accurate.</p>			
<p><u></u> Signature of Applicant or Signing Officer</p>	<p><u>Ron Regier</u> Name (please print)</p>		
<p><u>Controller, Greenhills</u> Title/Occupation (please print)</p>	<p><u>Greenhills Mine Exploration Program</u> Project Name (please print)</p>		
<p><u>Westar Mining Ltd.</u> Company (please print)</p>	<p><u>88-02-02</u> Date</p>		



**SUPPLEMENTARY INFORMATION:** The following information is required in order to help us determine the contribution which mineral exploration activity makes to the economy, and relates to the utilization of B.C. vs. outside labour and services. Only figures directly attributable to the funded program should be included (approximate figures acceptable, but please be as accurate as possible).

**(a) Employment, wages and salaries**

Type	No. Employed		No. Person-days		Salaries/Wages Paid	
	B.C.	Outside	B.C.	Outside	B.C.	Outside
Prospectors					\$	\$
Linecutters						
Technicians	4		117		20,475	
General Labourers Samp. Prep.			204		40,800	
Drillers/Helpers	4	3	264	63	63,360	11,340
Equipment Operators						
Geologists	2		130		27,300	
Geophysicists						
Geochemists						
Engineers						
Supervisory	1		25		6,250	
Consulting						
Secretarial						
Managerial						
Legal						
Accounting						
Others (specify) Cat Operator	1		41		5,904	
Others (specify)						
<b>TOTALS:</b>			781	63	\$ 164,089	\$ 11,340

(b) Goods and Services

Description	Expenditure	
	B.C.	Outside
Meals, Groceries, etc.	\$	\$
Camping Supplies, Equipment, etc.		
Accommodation		
Transportations — Scheduled Air		
— Air Charter		
— Vehicle Rentals		
— Vehicle O and M Costs		
— Other (specify)		
Equipment Rentals —		
Equipment Rentals — Trenching, etc.	39,420	
— Geophysical, etc.		
— Other (specify)		
Contract Drilling		39,447
Consultant Services		
Assays and Analyses	75,608	
Communications		
Other (specify)		
<b>TOTALS:</b>	\$ 115,028	\$ 39,447

IMPACT OF FAME GRANT

(a) Please indicate what level of **expansion** of your project was attributable to receiving a FAME grant.

\$ 180,000 Including Grant

450 person/days employment.

(b) Please indicate what you feel to be the main achievement of this FAME funded program.

To advance the mine planning stage of the project by a year and to confirm the  
continuity of the 7 and 10 seam replace coals for continuation of standard blend  
production.



## STATEMENT OF QUALIFICATIONS

L. B. SAMUELSON

B.Sc. Geological Engineering, 1964  
Michigan Tech University  
Houghton, Michigan

Member of The Association of Professional  
Engineers of British Columbia 1979

18 years of practical experience in all aspects of  
coal exploration and development including:

- Mapping and structural interpretation.
- Design and execution of exploration programs for  
coal entailing mapping, drilling, tunnelling and  
trenching.
- Pit geology quality control.
- Special studies related to coal development and  
quality.
- Mine planning and pit design.

## **APPENDIX 2**

# GREENHILLS EXPLORATION PROGRAM 1987

## 25 SEAM QUALITY DATA

HOLE #	FROM	TO SEAM	VERTICAL THICKNESS	RAW ASH %	RAW V. M. %	RAW FSI
EV023	11.09	13.96 25	02.87	34.00	25.60	3-1
EV023	13.96	15.64 25	01.68	72.80	19.60	NC
EV023	15.64	16.77 25	01.13	20.20	28.00	1/0
EV023	17.53	17.99 25	00.46			
EV024	155.49	162.04 25	06.55	22.80	27.20	7-1
EV025	209.16	209.58 25	00.42			
EV027	22.60	24.40 25	01.80			
EV169	14.50	16.30 25	01.80			
EV170	51.30	54.00 25	02.70			
EV171	198.00	200.10 25	02.10			
EV172	63.50	69.00 25	05.50			
EV173	11.20	12.60 25	01.40			
EV173	15.50	16.30 25	00.80			
EV174	125.30	128.80 25	03.50			
EV175	93.10	101.70 25	08.60			
EV178	164.00	165.00 25	01.00			
EV178	164.00	168.30 25	04.30			
EV178	171.20	172.10 25	00.90			
EV179	114.30	114.80 25	00.50			
EV179	115.60	116.10 25	00.50			
EV179	117.50	118.80 25	01.30			
EV185	79.30	83.00 25	03.70	23.00	24.80	7.0
EV187	39.90	40.30 25	00.40			
EV187	44.80	45.60 25	00.80			
EV188	94.30	97.70 25	03.40	23.20	26.50	7.0
EV189	176.00	177.40 25	01.40			
EV193	146.80	151.40 25	04.60	29.20	26.40	6.0
EV194	75.60	78.60 25	03.00			
EV199	14.00	17.80 25	03.80	38.80	23.70	5.0
EV200	114.00	116.70 25	02.70	22.80	27.60	7.0
EV201	94.40	101.60 25	07.20	24.90	27.30	6.0
EV202	30.30	31.30 25	01.00			
EV202	34.40	35.80 25	01.40			
EV203	199.20	202.20 25	03.00			
EV204	177.90	180.80 25	02.90	30.20	25.90	5.5
EV205	12.40	15.10 25E	02.70	10.20	31.80	8.0
EV205	18.10	19.20 25G	01.10			
EV205	22.40	24.80 25I	02.40			
EV207	36.40	40.90 25	04.50	23.40	28.30	5.5
EV208	67.00	69.00 25	02.00	31.75	26.61	5.0
EV208	71.20	72.00 25	00.80	30.70	26.30	5.0
EV209	188.70	192.80 25	04.10	41.80	21.90	3.5
EV210	37.00	39.60 25	02.60			
EV215	62.00	66.80 25	04.80	29.70	26.00	4.5
EV216	146.20	149.90 25	03.70	43.30	21.20	4.0

# GREENHILLS EXPLORATION PROGRAM 1987

## 25 SEAM QUALITY DATA

HOLE #	FROM	TO SEAM	VERTICAL THICKNESS	RAW ASH %	RAW V. M. %	RAW FSI
EV217	128.30	133.20 25	04.90	34.40	24.30	3.0
EV218	18.10	20.80 25	02.70	36.10	23.60	3.5
EV218	23.20	25.00 25	01.80	25.80	25.90	3.0
EV219	43.90	45.10 25	01.20			
EV219	46.00	48.20 25C	02.20			
EV219	52.50	57.40 25E	04.90	27.30	26.30	4.0
EV220	81.80	86.50 25	04.70	28.59	26.67	6.5
EV221	233.30	234.80 25	01.50			
EV221	233.30	238.60 25X	05.30	25.20	26.92	-1.
EV221	235.30	238.60 25	03.30	01.00	01.00	
EV221	240.80	241.90 25	01.10	25.00	26.50	7.0
EV222	94.50	96.00 25	01.50			
EV223	117.40	119.20 25	01.80			
EV224	131.90	136.10 25	04.20			
EV225	33.30	35.30 25	02.00			
EV226	46.80	48.60 25	01.80			
FC1301	242.40	244.20 25	01.80			
FC1301	245.40	246.60 25	01.20			
FC1301	248.40	249.30 25	00.90			
FC1302	186.00	187.60 25	01.60			
FC1302	188.50	190.10 25	01.60			
FC1302	191.10	193.00 25	01.90			
FC1302	199.30	203.50 25G	04.20			
FC1303	166.90	168.90 25	02.00			
FC1304	17.20	19.50 25	02.30			
FC1885	183.50	186.00 25	02.50			
FC1885	191.30	193.50 25	02.20			
RC-0327	25.30	28.90 25	03.60	23.40	25.10	NC
RC-0327	29.80	31.80 25	02.00			NC
RC-0339	103.60	106.90 25	03.30	22.20	28.40	5
RC-0339	107.70	109.30 25	01.60			
RC-0340	102.90	103.90 25	01.00			
RC-0340	104.40	107.20 25	02.80	46.00	20.90	4
RC-0343	62.90	64.30 25C	01.40	28.40	26.70	7.5
RC-0343	66.60	75.50 25	08.90	28.40	26.70	
RC-0690	6.00	8.80 25	02.80			
RC-0732	15.30	17.00 25	01.70	28.53		1
RC-0733	15.80	17.40 25	01.60	13.50		NC
RC-0734	14.00	15.80 25	01.80	29.75		NC
RC-0738	6.20	7.40 25	01.20			NC
RC-0864	62.90	67.20 25	04.30	35.70	25.22	6.0
RC-0925	58.10	59.70 25	01.60	14.10	30.90	8.0
RC-0926	85.10	87.60 25	02.50			8.0
RC-0928	20.00	21.40 25	01.40	20.67	26.51	0.0
RC-0930	13.50	16.40 25	02.90	29.00	21.60	0.0

# GREENHILLS EXPLORATION PROGRAM 1987

## 25 SEAM QUALITY DATA

HOLE #	FROM	TO SEAM	VERTICAL THICKNESS	RAW ASH %	RAW V. M. %	RAW FSI
RC-0930	13.50	19.50 25X	06.00	*****	*****	
RC-0930	16.90	19.50 25	02.60	28.90	01.00	2.5
RC-0941	89.00	93.60 25	04.60	41.30	26.10	6.5
RC-0942	8.50	11.20 25E	02.70	28.40	25.10	0.0
RC-0942	12.80	14.50 25G	01.70	22.00	27.00	0.0
RC-0945	43.60	47.90 25	04.30	35.20	24.80	1.0
RC-0956	67.00	68.90 25	01.90			
RC-0957	87.20	89.20 25	02.00			
RC-0958	38.10	40.20 25	02.10			
RC-1085	96.90	99.40 25	02.50			

# GREENHILLS EXPLORATION PROGRAM 1987

## 22 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	RAW FSI
EV001	1.98	2.96	22U	00.98			
EV001	5.79	7.50	22L	01.71	22.30		7
EV017	17.10	24.70	22UL	07.60	17.30	26.40	1-1
EV021	97.74	98.72	22U	00.98			
EV021	103.96	106.86	22L	02.90	13.70	29.00	7-1
EV023	34.90	38.44	22U	03.54	23.30	25.80	NC
EV023	43.68	45.29	22L	01.61	08.20	28.00	1
EV023	47.13	47.59	22I	00.46			
EV024	186.69	189.79	22U	03.10	11.50	29.50	7
EV024	194.52	196.69	22L	02.17	05.50	31.20	7-1
EV027	56.06	61.33	22L	05.27	09.60	28.50	8
EV169	43.20	46.50	22U	03.30			
EV169	55.40	59.00	22L	03.60			
EV170	76.10	78.40	22U	02.30			
EV170	85.50	88.10	22L	02.60			
EV171	221.40	223.90	22U	02.50			
EV171	228.00	230.00	22L	02.00			
EV172	98.80	101.70	22U	02.90			
EV172	103.00	105.20	22L	02.20			
EV173	39.00	42.20	22U	03.20			
EV173	43.50	45.30	22L	01.80			
EV174	156.70	159.20	22U	02.50			
EV174	164.00	165.70	22L	01.70			
EV178	224.60	228.20	22U	03.60			
EV178	236.70	240.30	22L	03.60			
EV179	148.40	153.80	22U	05.40			
EV185	79.30	83.00	22L	03.70	23.00	24.80	7.0
EV186	3.40	6.80	22L	03.40	17.00	26.30	0.0
EV187	70.80	76.80	22L	06.00	20.40	27.00	8.0
EV188	120.60	124.60	22U	04.00	22.30	25.70	7.0
EV188	133.00	135.40	22L	02.40	13.50	30.30	7.0
EV193	188.60	191.90	22L	03.30			
EV194	146.70	151.90	22L	05.20			
EV196	101.60	104.70	22L	03.10			
EV199	41.20	45.10	22U	03.90			
EV199	54.00	55.80	22L	01.80	40.90	23.40	4.5
EV200	136.30	139.40	22U	03.10	18.10	28.30	8.0
EV200	146.00	148.20	22L	02.20	30.50	27.20	4.5
EV202	63.50	66.80	22U	03.30			
EV202	68.10	70.50	22L	02.40			

# GREENHILLS EXPLORATION PROGRAM 1987

## 22 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA		VERTICAL THICKNESS	RAW PROX. DATA		
	FROM	TO SEAM		RAW ASH %	RAW V. M. %	RAW FSI
RC-0699	8.20	13.40 22U	05.20	16.53	00.00	3
RC-0732	35.60	37.40 22U	01.80	19.80	00.00	3.5
RC-0732	37.90	40.00 22L	02.10			
RC-0734	32.30	34.10 22U	01.80	16.45	00.00	NC
RC-0734	36.60	39.30 22L	02.70	15.10	00.00	NC
RC-0738	15.30	17.80 22U	02.50			
RC-0738	17.90	19.60 22L	01.70			
RC-0739	3.80	6.50 22U	02.70			
RC-0739	6.60	8.40 22L	01.80			
RC-0740	2.20	4.80 22U	02.60			
RC-0740	5.00	6.70 22L	01.70			
RC-0741	3.80	6.20 22U	02.40			
RC-0741	6.30	8.20 22L	01.90			
RC-0742	2.80	4.90 22U	02.10			
RC-0833	7.00	9.50 22U	02.50			
RC-0833	19.70	21.60 22L	01.90			
RC-0864	83.00	85.20 22U	02.20	14.50	30.25	7.5
RC-0864	89.20	91.20 22L	02.00	19.30	30.05	7.0
RC-0925	74.40	76.10 22U	01.70			
RC-0925	85.80	88.40 22L	02.60	13.70	30.80	7.5
RC-0926	111.80	112.70 22U	00.90			
RC-0926	118.70	121.50 22L	02.80	16.00	27.20	6.0
RC-0928	50.80	52.80 22U	02.00			
RC-0930	63.80	67.80 22L	04.00	23.00	28.00	4.0
RC-0942	23.10	24.40 22U	01.30			
RC-0942	32.20	34.10 22L	01.90	19.00	28.30	5.5
RC-0943	6.40	10.00 22U	03.60			
RC-0943	10.90	12.80 22L	01.90			
RC-0945	65.20	68.30 22U	03.10	23.40	26.60	1.0
RC-0945	76.60	78.90 22L	02.30	46.20	20.50	3.5
RC-0956	105.60	106.70 22U	01.10			
RC-0956	108.20	111.80 22L	03.60			
RC-0957	129.60	130.40 22U	00.80			
RC-0957	132.90	136.90 22L	04.00	12.20	30.40	7.5
RC-0958	73.00	73.90 22U	00.90			
RC-0958	75.40	78.90 22L	03.50	09.30	31.20	7.5
RC-0989	2.40	4.00 22L	01.60			
RC-1074	83.50	87.20 22L	03.70	22.19	24.46	5.5

# GREENHILLS EXPLORATION PROGRAM 1987

## 22 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	RAW FSI
EV205	45.90	50.30	22U	04.40	27.60		
EV205	56.10	57.90	22L	01.80	21.80	26.70	0.0
EV206	118.50	121.60	22U	03.10			
EV206	126.80	128.60	22L	01.80	35.40	23.60	3.0
EV207	64.80	67.90	22U	03.10	11.00	29.40	6.5
EV207	71.60	73.50	22L	01.90	36.80	22.70	2.5
EV208	132.60	135.40	22L	02.80			
EV209	214.60	217.40	22U	02.80	22.40	25.80	5.5
EV209	220.80	222.70	22L	01.90			
EV211	266.00	268.90	22U	02.90	17.00	28.90	5.5
EV211	270.20	275.40	22L	05.20			
EV212	42.20	43.70	22L	01.50	45.40	19.50	
EV214	7.80	13.20	22L	05.40	10.80	31.30	0.0
EV215	90.00	94.40	22U	04.40	27.80	25.50	2.5
EV215	104.40	107.00	22L	02.60			
EV215	111.90	113.60	22I	01.70	25.20	27.20	2.5
EV216	177.40	180.00	22U	02.60	21.60	25.40	6.5
EV216	184.90	187.00	22L	02.10			
EV218	51.20	54.60	22U	03.40	43.40	20.00	1.5
EV218	57.60	59.40	22L	01.80	21.10	26.00	7.0
EV219	153.40	157.20	22U	03.80	13.60	29.90	6.5
EV219	159.60	162.20	22L	02.60	08.10	32.20	7.5
EV222	104.00	104.70	22L	00.70			
EV223	152.40	157.00	22L	04.60			
EV224	173.60	178.10	22L	04.50			
EV225	78.80	79.60	22U	00.80			
EV225	81.70	87.80	22L	06.10			
EV226	82.80	85.60	22L	02.80			
FC1303	218.80	220.90	22L	02.10			
FC1304	64.80	66.70	22L	01.90			
FC1885	221.60	226.80	22L	05.20			
RC-0327	58.50	62.40	22U	03.90	21.10	27.60	7
RC-0327	66.40	68.70	22L	02.30			7
RC-0339	160.80	168.20	22L	07.40	38.30	30.00	3
RC-0340	148.10	176.50	22U	28.40	18.60	27.90	7
RC-0340	191.00	200.20	22L	09.20			
RC-0344	17.00	24.70	22L	07.70	12.60	29.20	8
RC-0501	2.70	7.60	22U	04.90	12.70		5
RC-0690	25.20	26.90	22U	01.70			
RC-0690	27.80	29.80	22L	02.00			
RC-0698	7.20	12.00	22U	04.80	12.89		NC



## GREENHILLS EXPLORATION PROGRAM 1987

### 20 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		RAW FSI
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	
RC-0952	4.10	6.80	20	02.70	*****	*****	
RC-0952	11.20	12.30	20L	01.10	*****	*****	
RC-0953	35.40	36.50	20	01.10	17.00	28.00	1.5
RC-0953	38.60	39.60	20L	01.00			
RC-0954	12.40	13.40	20	01.00			
RC-0955	32.70	35.60	20L	02.90			
RC-0956	147.80	151.40	20L	03.60	50.90	18.80	2.0
RC-0957	170.90	174.90	20L	04.00	17.60	27.40	8.0
RC-0958	111.60	115.20	20L	03.60	21.50	25.80	6.5
RC-0974	7.60	11.20	20L	03.60	13.70		1.5
RC-0980	3.80	6.80	20L	03.00	21.60		6.5
RC-0989	37.60	39.00	20	01.40			
RC-0989	41.20	43.20	20	02.00			
RC-1071	29.60	32.20	20	02.60			
RC-1072	76.80	79.20	20	02.40			
RC-1074	91.90	98.60	20	06.70	11.91	27.81	8.0
RC-1074	99.50	101.60	20	02.10	99.50	22.53	5.0
RC-1075	26.60	29.80	20	03.20	27.81	25.56	5.0
RC-1075	34.60	40.40	20	05.80			
RC-1076	64.50	69.00	20	04.50			
RC-1076	64.50	77.90	20	13.40			
RC-1076	73.30	77.90	20	04.60			
RC-1076	80.20	81.60	20	01.40			
RC-1078	59.80	65.00	20	05.20			
RC-1078	66.50	69.70	20	03.20			
RC-1081	27.50	31.40	20	03.90			
RC-1082	84.60	88.10	20	03.50			
RC-1083	4.70	7.00	20	02.30			
RC-1084	82.60	85.60	20	03.00			

**GREENHILLS EXPLORATION PROGRAM 1987**

**20 SEAM QUALITY DATA**

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	RAW FSI
FC1303	269.20	272.80	20	03.60			
FC1303	276.30	278.10	20	01.80			
FC1304	112.60	113.60	20	01.00			
FC1304	116.00	117.00	20	01.00			
FC1304	117.90	119.00	20	01.10			
RC-0326	56.80	59.30	20	02.50	24.80	24.70	1
RC-0326	62.70	65.50	20	02.80	18.80	27.40	3
RC-0327	99.90	104.50	20	04.60	31.60		7
RC-0327	106.00	109.30	20	03.30	19.32		5.5
RC-0341	27.70	31.50	20	03.80	51.20	18.10	2
RC-0342	18.40	22.30	20U	03.90			
RC-0342	25.60	27.00	20L	01.40			
RC-0344	70.80	75.70	20	04.90	15.70	27.20	8
RC-0344	76.80	79.50	20	02.70			
RC-0490	15.10	16.70	20L	01.60	23.30		3
RC-0493	38.90	41.50	20L	02.60	21.60		7
RC-0497	10.70	12.80	20L	02.10	30.30		2
RC-0719	6.70	8.20	20L	01.50	33.05		
RC-0720	8.20	10.40	20L	02.20	25.25		
RC-0721	6.10	7.60	20L	01.50	27.40		6.5
RC-0722	6.40	8.40	20L	02.00	22.25		6
RC-0797	25.70	26.90	20	01.20			
RC-0797	28.70	30.30	20	01.60	48.00		
RC-0815	0.80	3.10	20L	02.30			
RC-0829	16.20	21.70	20U	05.50	25.90		6.2
RC-0832	15.20	16.70	20L	01.50	57.90		3.5
RC-0833	78.60	79.60	20L	01.00			
RC-0834	38.00	40.20	20L	02.20			
RC-0857	1.60	4.40	20L	02.80	32.50		0 0
RC-0864	152.40	154.90	20L	02.50			
RC-0865	54.80	56.70	20L	01.90	33.10		7.0
RC-0875	15.80	17.40	20L	01.60			
RC-0926	168.00	171.60	20L	03.60	25.20	25.00	5.0
RC-0928	105.80	109.00	20L	03.20	21.40	26.95	8.0
RC-0929	14.30	15.90	20U	01.60			
RC-0929	22.40	25.80	20L	03.40			
RC-0930	85.00	86.90	20L	01.90			
RC-0930	85.00	88.60	20X	03.60	18.20	27.70	6.5
RC-0930	86.90	88.60	20L	01.70			
RC-0942	84.10	86.90	20	02.80			
RC-0943	58.30	59.40	20	01.10			
RC-0944	47.30	48.30	20L	01.00			

## GREENHILLS EXPLORATION PROGRAM 1987

### 20 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA		VERTICAL THICKNESS	RAW PROX. DATA		
	FROM	TO SEAM		RAW ASH %	RAW V. M. %	RAW FSI
EV001	60.03	60.91 20	00.88	24.20	25.60	7.5
EV001	62.90	64.33 20	01.43	19.30	26.90	8
EV001	67.68	69.45 20	01.77	20.80	24.00	7
EV002	21.62	23.32 20	01.70	14.20	28.20	7.5
EV002	25.00	26.07 20	01.07	13.50	27.80	2
EV002	28.17	28.96 20	00.79	27.30	26.50	6-1
EV002	29.76	30.79 20	01.03	12.10	30.50	8-1
EV011	9.10	9.60 20	00.50			
EV011	10.37	11.49 20	01.12			
EV011	13.02	13.93 20	00.91	19.80	28.80	7
EV017	62.10	65.98 20L	03.88	39.00	22.70	4.5
EV018	44.20	46.46 20L	02.26	31.90	24.40	6
EV019	1.50	5.00 20L	03.50			
EV021	162.20	164.88 20L	02.68	21.80	24.70	7.5
EV023	84.34	85.62 20	01.28	33.50	25.10	5
EV023	86.40	87.26 20	00.86			
EV023	91.30	93.10 20	01.80			
EV023	94.61	95.40 20	00.79	11.40	28.90	8
EV024	239.76	244.75 20	04.99	24.60	28.40	6.5
EV024	245.67	248.11 20	02.44	13.90	30.70	7
EV027	95.31	111.86 20	16.55	24.10	25.20	7.5
EV050	32.99	36.89 20	03.90	07.60	31.10	7-1
EV050	40.64	47.44 20	06.80	11.70	28.30	7-1
EV169	105.70	108.40 20	02.70			
EV169	110.90	113.40 20	02.50			
EV170	120.80	124.80 20	04.00			
EV170	125.70	128.60 20	02.90			
EV171	256.80	262.70 20	05.90			
EV172	132.70	136.20 20	03.50			
EV172	137.40	139.80 20	02.40			
EV173	77.80	81.60 20	03.80			
EV173	82.30	84.20 20	01.90			
EV174	194.40	197.60 20	03.20			
EV174	199.50	201.40 20	01.90			
EV175	196.50	201.40 20	04.90			
EV175	202.70	205.80 20	03.10			
EV178	223.20	223.80 20	00.60			
EV178	224.60	228.20 20	03.60			
EV178	236.70	240.30 20	03.60			
EV179	179.90	185.70 20	05.80			
EV179	186.70	187.40 20	00.70			
EV181	1.60	6.20 20	04.60			

# GREENHILLS EXPLORATION PROGRAM 1987

## 20 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		RAW FSI
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	
EV185	151.80	154.50	20	02.70	40.90	19.70	5.0
EV186	41.00	46.50	20	05.50	20.50	25.70	8.0
EV187	99.40	105.20	20	05.80	21.60	25.10	8.0
EV188	166.20	173.20	20	07.00	13.90	27.90	8.0
EV193	207.60	210.50	20	02.90			
EV194	146.90	150.80	20	03.90	15.90	28.90	7.5
EV194	167.20	170.20	20	03.00	22.00	25.10	7.5
EV196	122.40	127.00	20	04.60	11.90	28.00	8.0
EV199	94.50	97.00	20	02.50	28.90	26.00	7.0
EV199	98.00	100.20	20L	02.20	01.00	01.00	
EV200	171.30	176.70	20	05.40	16.70	27.60	7.0
EV201	235.40	240.00	20	04.60	19.40	28.30	7.5
EV201	242.60	245.60	20L	03.00	12.00	30.40	7.0
EV202	104.20	108.60	20	04.40			
EV202	109.50	111.80	20L	02.30			
EV205	104.90	107.80	20	02.90	31.10	25.00	3.5
EV205	110.80	113.20	20L	02.40	33.90	24.80	4.0
EV206	179.10	181.60	20	02.50	34.30	23.60	5.0
EV206	179.10	185.20	20	06.10	*****	*****	
EV206	183.00	185.20	20L	02.20	35.40	23.60	3.0
EV207	95.80	99.10	20	03.30	25.90	26.10	6.5
EV207	103.80	110.20	20L	06.40	01.00	01.00	
EV208	133.90	140.00	20	06.10	17.50	29.40	6.0
EV208	147.90	154.50	20	06.60	29.00	25.30	5.5
EV209	248.40	255.20	20	06.80			
EV212	45.60	55.90	20	10.30	13.40	18.00	8.5
EV214	43.80	51.30	20	07.50	20.70	26.90	7.5
EV214	54.10	55.40	20L	01.30			
EV215	152.00	154.40	20	02.40	30.30	25.70	2.5
EV215	152.00	157.90	20X	05.90	*****	*****	
EV215	155.40	157.50	20L	02.10			
EV216	212.80	216.80	20	04.00	34.80	22.20	5.0
EV216	220.60	221.90	20	01.30	37.00	22.60	5.0
EV218	101.40	103.90	20	02.50	29.40	24.70	4.0
EV218	108.00	109.20	20L	01.20	35.90	23.00	4.0
EV219	196.90	202.60	20	05.70	14.40	28.40	7.0
EV219	205.80	208.70	20	02.90	18.60	28.40	6.5
EV219	213.80	214.40	20I	00.60			
EV223	175.40	182.00	20	06.60			
EV224	179.20	187.00	20	07.80			
EV225	124.80	132.40	20	07.60			
EV226	97.60	104.10	20	06.50			

## GREENHILLS EXPLORATION PROGRAM 198

## 16 SEAM QUALITY DATA

HOLE #	FROM	TO SEAM	VERTICAL THICKNESS	RAW ASH %	RAW V. M. %	RAW FSI
EV001	92.59	97.44 16	04.85	16.10	24.80	7-1
EV001	106.40	107.32 16L	00.92	10.50	30.00	8
EV002	67.66	68.18 16A	00.52			
EV002	68.87	75.15 16	06.28	13.70	27.90	8
EV010	10.52	19.36 16	08.84	14.90	00.00	2.5
EV011	67.53	70.52 16C	02.99	09.10	30.20	7.5
EV011	67.53	72.13 16X	04.60	*****	*****	7.5
EV011	70.85	72.13 16E	01.28	19.10	28.80	6.5
EV011	73.84	75.43 16L	01.59	09.80	29.60	7(
EV017	104.66	110.58 16C	05.92	10.90	26.70	7.5
EV017	113.11	115.64 16E	02.53	27.00	25.60	7
EV018	99.45	111.77 16	12.32	20.60	24.80	7.0
EV019	37.74	43.60 16C	05.86	07.20	25.00	7-1
EV019	51.01	54.39 16E	03.38	31.80	21.60	5.5
EV020	29.76	30.64 16A	00.88	22.60	23.30	6-1
EV020	31.71	38.93 16C	07.22			
EV020	42.96	44.76 16E	01.80	17.30	25.00	6-1
EV021	197.99	198.93 16A	00.94	08.00	27.10	7.5
EV021	199.85	205.49 16C	05.64			
EV021	207.62	208.54 16E	00.92	13.90	25.90	8
EV023	138.17	144.81 16	06.64	12.00	25.20	7-1
EV024	275.08	284.84 16C	09.76	21.00	24.20	7
EV027	167.64	191.32 16	23.68	12.10	27.60	7-1
EV027	193.09	193.46 16	00.37			
EV050	72.74	76.86 16	04.12	10.00	26.50	6-1
EV059	4.20	9.20 16C	05.00	20.80	22.60	1
EV059	27.00	31.00 16E	04.00			
EV169	149.30	154.10 16	04.80			
EV170	178.10	187.00 16C	08.90			
EV172	196.50	198.00 16A	01.50			
EV172	199.00	216.90 16	17.90			
EV173	116.20	123.60 16	07.40			
EV180	0.00	2.90 16	02.90			
EV181	34.00	40.80 16	06.80			
EV184	20.10	21.00 16	00.90			
EV186	66.20	72.10 16	05.90	10.00	26.00	8.5
EV187	142.50	147.80 16	05.30			
EV188	215.60	220.10 16C	04.50			
EV188	215.60	223.80 16X	08.20	15.90	25.90	7.5
EV188	221.90	223.80 16E	01.90			
EV193	243.20	248.20 16	05.00	32.80	24.20	5.5
EV193	249.20	250.60 16E	01.40			
EV194	201.90	207.10 16	05.20			
EV194	201.90	209.60 16X	07.70	13.50	25.30	7.5
EV197	24.40	25.80 16	01.40	28.70	24.20	7.0
EV197	28.00	29.70 16	01.70	23.90	23.70	8.0

## GREENHILLS EXPLORATION PROGRAM 1987

## 16 SEAM QUALITY DATA

HOLE #	FROM	TO SEAM	VERTICAL THICKNESS	RAW ASH %	RAW V.M. %	RAW FSI
EV199	131.90	137.80 16C	05.90	12.30	27.70	8.0
EV199	139.40	141.20 16E	01.80	17.90	22.80	7.0
EV200	223.70	227.50 16	03.80			
EV202	143.70	144.70 16	01.00			
EV202	145.20	152.40 16	07.20			
EV205	149.20	149.90 16A	00.70			
EV205	150.50	155.90 16C	05.40	14.70	28.00	7.0
EV206	211.00	212.00 16A	01.00			
EV206	212.50	218.80 16C	06.30	21.80	25.50	4.5
EV207	141.60	148.70 16	07.10			
EV208	190.00	198.70 16	08.70	19.35	24.70	5.5
EV209	296.30	299.10 16	02.80	30.70	23.00	3.5
EV209	296.30	302.30 16	06.00			
EV212	90.40	97.40 16	07.00	09.80	25.30	7.5
EV214	86.00	93.00 16	07.00	27.90	24.80	6.5
EV215	185.90	187.80 16	01.90	63.40	15.20	1.0
EV215	185.90	191.80 16	05.90			
EV215	187.80	191.80 16	04.00	26.30	24.50	3.5
EV219	253.40	254.50 16A	01.10	22.70	25.40	6.5
EV219	255.50	262.60 16C	07.10			
EV224	227.60	236.90 16C	09.30			
EV224	238.90	244.00 16E	05.10	23.25	23.46	
EV225	176.30	190.20 16C	13.90			
EV225	194.60	196.00 16E	01.40			
EV225	196.80	197.80 16E	01.00			
EV226	137.40	144.60 16C	07.20			
EV226	145.60	147.10 16E	01.50			
FC1302	314.70	323.40 16	08.70			
FC1302	325.20	326.30 16L	01.10			
FC1303	297.80	304.10 16	06.30			
FC1304	133.00	135.60 16	02.60			
RC-0326	111.90	119.60 16	07.70	15.00	28.40	8
RC-0327	150.80	159.50 16	08.70	20.80	25.20	4.5
RC-0342	95.00	100.80 16	05.80	25.70	25.70	4.5
RC-0344	134.90	144.10 16	09.20	24.50	23.30	5.0
RC-0483	31.70	37.60 16C	05.90			
RC-0483	31.70	42.60 16	10.90	07.47	00.00	7.5
RC-0483	37.60	42.60 16E	05.00			
RC-0484	31.50	36.80 16C	05.30			3.5
RC-0484	37.60	42.00 16E	04.40			
RC-0485	48.40	54.20 16C	05.80			1
RC-0485	48.40	60.00 16	11.60	09.16		7.5
RC-0485	54.20	60.00 16E	05.80			
RC-0710	0.80	6.40 16C	05.60			
RC-0710	7.00	12.00 16E	05.00			
RC-0735	7.70	13.50 16C	05.80	17.50		7.5
RC-0735	14.40	19.50 16E	05.10			

## GREENHILLS EXPLORATION PROGRAM 1987

## 16 SEAM QUALITY DATA

HOLE #	FROM	TO SEAM	VERTICAL THICKNESS	RAW ASH %	RAW V. M. %	RAW FSI
RC-0736	6.10	11.80 16C	05.70	16.60		6.5
RC-0736	12.50	15.60 16	03.10	16.60		
RC-0736	12.50	17.30 16E	04.80			
RC-0737	3.30	8.70 16C	05.40	13.50		7
RC-0737	9.40	14.00 16E	04.60	13.50		7
RC-0743	24.20	29.90 16C	05.70	12.00		7
RC-0743	30.80	37.40 16E	06.60	13.65		7
RC-0797	86.60	87.30 16	00.70	12.80		7.0
RC-0797	88.00	94.70 16	06.70	20.50		4.0
RC-0798	39.60	46.30 16	06.70	19.70		7.0
RC-0815	61.50	67.40 16C	05.90	16.20		7.3
RC-0815	68.30	74.20 16E	05.90	16.20		7.2
RC-0827	36.10	42.20 16C	06.10	26.90		5.9
RC-0827	43.10	48.00 16E	04.90	08.60		6.5
RC-0828	30.00	36.20 16C	06.20	07.40		8.1
RC-0828	37.10	42.80 16E	05.70	24.30		6.7
RC-0829	71.10	76.80 16C	05.70	09.20		8.5
RC-0829	79.40	83.90 16E	04.50	22.00		7.8
RC-0832	70.10	79.20 16X	09.10			3.0
RC-0833	120.20	121.00 16A	00.80			
RC-0833	121.80	127.80 16C	06.00			
RC-0833	129.50	131.60 16E	02.10			
RC-0857	67.40	74.00 16C	06.60	15.20	07.80	7.8
RC-0857	75.40	78.00 16E	02.60			
RC-0864	192.90	198.40 16C	05.50			
RC-0864	199.50	203.10 16E	03.60			
RC-0865	114.80	120.40 16C	05.60	13.10		6.9
RC-0865	121.20	124.20 16E	03.00	39.60		5.0
RC-0875	80.80	89.90 16	09.10			
RC-0913	31.70	38.60 16C	06.90			
RC-0926	205.20	206.70 16A	01.50	13.56	27.23	8.0
RC-0926	207.20	217.60 16C	10.40	33.20	23.30	7.0
RC-0928	145.20	153.00 16C	07.80			
RC-0928	145.20	157.50 16X	12.30	11.61	27.66	8.0
RC-0928	154.20	155.60 16E	01.40			
RC-0929	62.10	69.60 16C	07.50	08.42	27.86	7.5
RC-0930	112.80	113.50 16A	00.70	16.60		
RC-0930	112.80	120.40 16X	07.60	21.10	26.00	5.5
RC-0930	114.80	120.40 16C	05.60	16.60		7.5
RC-0930	121.00	123.80 16E	02.80			
RC-0942	124.90	131.80 16	06.90	18.90	27.90	7.5
RC-0943	105.90	113.00 16	07.10	24.30	23.80	5.5
RC-0944	75.60	84.20 16	08.60			
RC-0945	165.90	170.40 16	04.50	59.50	17.00	1.0
RC-0952	39.70	48.20 16	08.50	21.25	26.46	8.0
RC-0953	93.80	100.50 16	06.70	10.40	27.50	5.0
RC-0954	61.00	62.20 16A	01.20			

## GREENHILLS EXPLORATION PROGRAM 1987

## 16 SEAM QUALITY DATA

HOLE #	FROM	TO SEAM	VERTICAL THICKNESS	RAW ASH %	RAW V. M. %	RAW FSI
RC-0954	61.00	68.60 16	07.60			
RC-0955	71.80	73.20 16A	01.40			
RC-0955	73.80	81.40 16C	07.60	17.80	26.50	6.5
RC-0956	174.90	176.20 16A	01.30			
RC-0956	176.80	183.50 16C	06.70	13.80	26.60	7.0
RC-0957	189.20	190.30 16A	01.10	14.00	28.30	5.0
RC-0957	190.80	198.40 16C	07.60	12.30	26.50	6.0
RC-0958	137.90	139.30 16A	01.40			
RC-0958	140.40	146.50 16C	05.10			
RC-0974	54.00	60.20 16C	06.20	12.30		7.0
RC-0974	68.20	71.80 16E	03.60	04.90		7.5
RC-0980	52.50	56.60 16C	04.10	09.11	27.37	8.0
RC-0980	60.60	64.00 16E	03.40	24.51	26.24	5.5
RC-0989	84.00	87.70 16C	03.70	14.00		7.5
RC-0989	91.60	94.90 16E	03.30	23.50		6.0
RC-1065	18.30	23.90 16	05.60	17.49	26.40	3.5
RC-1070	15.60	16.80 16A	01.20	14.20		1.5
RC-1070	15.60	25.20 16	09.60	17.70		
RC-1070	17.50	25.20 16C	07.70	14.20		1.5
RC-1071	82.20	83.40 16A	01.20			
RC-1071	82.20	88.90 16	06.70	11.32	28.17	6.5
RC-1071	84.00	88.90 16C	04.90			
RC-1072	122.60	130.60 16	08.00	22.83	25.42	5.5
RC-1073	72.20	73.20 16A	01.00			
RC-1073	72.20	79.60 16	07.40	08.14	28.69	5.5
RC-1073	73.90	79.60 16	05.70			
RC-1074	128.80	137.40 16	08.60	18.48	25.16	4.5
RC-1075	71.30	77.70 16	06.40	19.45	24.55	6.0
RC-1076	119.30	127.40 16	08.10			
RC-1077	147.80	150.60 16A	02.80			
RC-1077	151.30	161.80 16C	10.50			
RC-1078	102.80	104.10 16A	01.30			
RC-1078	104.80	110.70 16C	05.90			
RC-1079	191.80	200.00 16	08.20			
RC-1080	129.40	131.40 16A	02.00			
RC-1080	132.20	141.60 16C	09.40			
RC-1081	68.00	69.60 16A	01.60			
RC-1081	70.20	77.20 16C	07.00			
RC-1082	114.20	115.40 16A	01.20			
RC-1082	115.90	123.10 16C	07.20			
RC-1083	54.10	55.20 16A	01.10			
RC-1083	56.30	61.60 16C	05.30			
RC-1083	63.50	66.60 16E	03.10			
RC-1084	121.60	122.80 16A	01.20			
RC-1084	123.40	128.80 16C	05.40			
RC-1084	131.10	132.50 16E	01.40			



# GREENHILLS EXPLORATION PROGRAM 1987

## 10 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		RAW FSI
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	
EV002	205.24	214.48	10	09.24	13.90	22.70	5-1
EV010	158.38	168.87	10	10.49	27.90	23.50	3
EV011	232.29	240.73	10	08.44	21.80	22.10	4
EV017	242.44	254.97	10	12.53	34.80	19.10	3-1
EV018	247.01	257.59	10	10.58	23.30	20.40	5
EV019	154.63	156.65	10	02.02	16.90	23.70	6
EV019	162.38	164.79	10	02.41	33.90	18.30	5
EV019	166.19	171.83	10	05.64	34.50	19.20	6-1
EV020	184.39	195.27	10	10.88	21.10	21.50	3-1
EV021	347.56	360.24	10	12.68	26.30	20.10	6
EV022	31.39	40.63	10	09.24	18.60	23.30	2-1
EV023	285.90	296.90	10	11.00	00.00	00.00	2-1
EV024	424.83	436.17	10	11.34	25.00	20.90	3
EV027	368.63	377.34	10	08.71	18.90	22.30	5-1
EV027	391.73	399.65	10	07.92	25.10	20.10	5
EV050	223.14	225.32	10	02.18	47.90	19.40	3
EV050	227.04	229.88	10	02.84			
EV050	231.86	232.96	10	01.10			
EV051	40.79	46.22	10	05.43			
EV059	125.60	127.90	10	02.30	54.70	15.70	1
EV180	159.20	165.10	10	05.90			
EV181	204.00	210.00	10X	06.00			
FC1303	442.40	458.90	10	16.50			
FC1304	306.70	312.80	10	06.10			
FC1305	165.00	173.10	10	08.10			
RC-0328	32.80	37.90	10	05.10	39.80	18.30	3
RC-0346	81.10	83.80	10	02.70			
RC-1063	148.30	155.90	10	07.60	32.34	20.19	3.5
RC-1064	24.60	32.90	10	08.30	25.45	22.33	0.0
RC-1065	158.80	166.30	10	07.50	25.44	21.59	2.5
RC-1067	110.80	125.90	10C	15.10	16.66	23.49	3.5
RC-1068	92.70	109.20	10C	16.50	30.45	21.48	3.0
RC-1069	88.40	99.60	10C	11.20	25.80		5.0

# GREENHILLS EXPLORATION PROGRAM 1987

## 10 SEAM QUALITY DATA

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		RAW FSI
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	
EV005	167.35	171.83	10A	04.48	13.70	23.10	2.5
EV005	207.38	210.34	10C	02.96	19.30	23.40	4
EV005	213.45	215.06	10E	01.61	28.50	21.40	4.5
EV005	219.21	221.68	10G	02.47			
EV005	225.55	226.04	10I	00.49			
EV006	40.91	43.78	10A	02.87	16.00	23.10	4
EV006	78.05	85.43	10C	07.38	19.60	21.70	5.5
EV006	87.50	89.33	10G	01.83	28.20	21.60	5.5
EV006	91.34	92.45	10I	01.11			
EV007	84.45	88.26	10A	03.81	17.50	22.00	5
EV007	119.36	122.10	10C	02.74	14.80	21.60	6
EV007	126.07	127.35	10E	01.28			
EV007	129.60	131.62	10G	02.02	25.00	20.00	6
EV007	136.00	136.60	10I	00.60			
EV009	59.24	60.52	10A	01.28	17.30	27.60	6.5
EV009	77.44	83.99	10C	06.55	14.70	26.20	4.5
EV009	86.01	87.77	10E	01.76	15.80	24.70	4.5
EV009	93.84	100.03	10G	06.19			
EV009	101.74	102.41	10I	00.67			
EV029	112.74	116.01	10A	03.27			
EV029	156.49	160.40	10C	03.91	26.70	21.00	3-1
EV029	161.37	163.40	10E	02.03			3-1
EV029	166.92	168.69	10G	01.77			7
EV029	173.08	173.93	10I	00.85	31.10	21.50	5-1
EV031	104.55	107.59	10A	03.04	14.10	26.00	6
EV031	147.74	150.66	10C	02.92			
EV031	154.81	155.75	10E	00.94	30.90	22.60	7
EV031	160.63	161.82	10G	01.19			
EV031	168.90	170.85	10I	01.95			
EV041	10.67	15.24	10	04.57	32.30	22.80	5
EV041	17.74	26.97	10	09.23	19.40	22.90	5
EV041	11.60	13.10	10A	01.50			
EV041	17.60	20.66	10C	03.06			
EV041	21.60	25.20	10G	03.60			
EV041	25.60	26.85	10I	01.25			
EV044	138.41	139.18	10C	00.77	51.20	16.60	1
EV044	143.60	144.94	10E	01.34			
EV044	148.17	149.54	10G	01.37			
EV066A	111.59	118.75	10C	07.16	26.70	23.30	5
EV066A	121.71	123.69	10G	01.98	39.20	18.20	3-1
EV071	62.45	65.38	10A	02.93	77.90	09.50	NC
EV071	99.00	102.50	10C	03.50			
EV071	103.20	104.70	10E	01.50			NC
EV071	106.40	108.30	10G	01.90			

**GREENHILLS EXPLORATION PROGRAM 1987**

**10 SEAM QUALITY DATA**

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	RAW FSI
EV122	71.40	74.60	10	03.20			
EV122	60.85	62.50	10A	01.65			
EV122	71.25	74.50	10C	03.25			
EV122	78.45	81.79	10G	03.34			
EV122	87.80	89.20	10I	01.40			
EV149	120.00	123.25	10A	03.25			
EV149	134.40	138.30	10C	03.90			
EV156	5.90	7.30	10A	01.40			
EV156	13.30	16.55	10C	03.25			
EV156	18.70	23.00	10G	04.30			
EV156	26.40	26.90	10I	00.50			
RC-0538	0.00	2.40	10?	02.40	18.65		7
RC-0538	9.70	12.60	10?	02.90	24.85		6
RC-0612	3.50	6.60	10A	03.10	33.60	22.00	1.5
RC-0612	10.90	14.80	10C	03.90	19.20	22.80	2.0
RC-0612	16.30	20.70	10G	04.40	15.90	23.50	1.0
RC-0613	15.20	20.70	10G	05.50	29.90	23.10	
RC-0614	8.60	12.10	10C	03.50			
RC-0614	13.60	15.50	10G	01.90			
RC-0614	16.10	17.40	10I	01.30			
RC-0615	3.50	5.10	10A	01.60	34.10	21.70	1.0
RC-0615	10.00	13.40	10C	03.40	16.60	23.00	2.0
RC-0615	14.60	19.90	10G	05.30	24.80	21.30	3.5
RC-0627	11.80	17.70	10G	05.90	26.18	00.00	1
RC-0664	4.20	5.80	10A	01.60			
RC-0664	10.30	14.30	10C	04.00	14.00		5.5
RC-0664	15.60	19.50	10G	03.90	17.07		4
RC-0664	20.00	21.40	10I	01.40	28.60		5
RC-1031	39.50	42.80	10A	03.30	48.20	18.20	4.0
RC-1031	55.10	58.50	10C	03.40	29.00		4.0
RC-1031	59.80	63.80	10G	04.00			
RC-1031	64.40	65.60	10I	01.20			
RC-1032	26.80	29.40	10A	02.60			
RC-1032	44.40	49.00	10C	04.60			
RC-1032	51.20	55.80	10G	04.60			
RC-1032	56.90	58.40	10I	01.50			
RC-1033	3.70	5.60	10A	01.90			
RC-1033	9.80	12.90	10C	03.10			
RC-1033	14.40	17.90	10G	03.50			
RC-1033	18.70	20.80	10I	02.10			

**GREENHILLS EXPLORATION PROGRAM 1987**

**10 SEAM QUALITY DATA**

HOLE #	INTERCEPT DATA			VERTICAL THICKNESS	RAW PROX. DATA		
	FROM	TO	SEAM		RAW ASH %	RAW V. M. %	RAW FSI
RC-1034	12.00	14.80	10A	02.80			
RC-1034	21.00	25.80	10C	04.80			
RC-1034	27.20	31.00	10G	03.80			
RC-1034	31.40	33.20	10I	01.80			
RC-1035	62.30	63.50	10A	01.20			
RC-1035	82.50	87.40	10C	04.90			
RC-1035	88.10	90.80	10E	02.70			
RC-1035	93.70	97.20	10G	03.50			
RC-1035	98.00	99.30	10I	01.30			
RC-1036	91.90	95.20	10A	03.30			
RC-1036	111.90	115.80	10C	03.90			
RC-1036	119.40	121.10	10E	01.70			
RC-1036	126.00	127.00	10G	01.00			
RC-1036	133.20	134.10	10I	00.90			
RC-1037	86.80	89.40	10A	02.60	17.58	23.34	2.0
RC-1037	130.80	133.60	10C	02.80			
RC-1037	135.60	137.00	10E	01.40			
RC-1037	141.40	142.90	10G	01.50			
RC-1037	147.30	148.10	10I	00.80			
RC-1038	76.60	79.40	10A	02.80	32.00	01.00	5.0
RC-1038	123.90	126.40	10C	02.50	36.20	01.00	5.0
RC-1038	128.40	130.00	10E	01.60			
RC-1038	134.80	136.30	10G	01.50			
RC-1038	143.20	144.00	10I	00.80			
RC-1039	79.90	82.80	10A	02.90	30.70	21.80	4.5
RC-1039	106.30	111.20	10C	04.90	33.30	20.60	4.0
RC-1039	115.00	115.80	10E	00.80			
RC-1039	122.10	122.80	10G	00.70	54.90		1.0
RC-1039	143.20	144.00	10I	00.80			
RC-1040	57.60	59.00	10A	01.40		01.00	
RC-1040	71.90	75.30	10C	03.40	20.10	01.00	5.5
RC-1040	77.00	82.80	10G	05.80			
RC-1040	84.40	85.60	10I	01.20			
RC-1091	48.20	52.10	10A	03.90			
RC-1091	84.60	89.10	10C	04.50			
RC-1091	90.50	92.40	10E	01.90			
RC-1091	96.50	98.20	10G	01.70			
RC-1091	104.30	105.00	10I	00.70			

# GREENHILLS EXPLORATION PROGRAM 1987

## 7. SEAM QUALITY DATA

HOLE #	INTERCEPT DATA		VERTICAL THICKNESS	RAW PROX. DATA		RAW FSI
	FROM	TO SEAM		RAW ASH %	RAW V. M. %	
EV012	20.09	29.85 07	09.76	11.40	23.20	6.5
EV017	301.74	312.90 07	11.16	16.40	23.50	6
EV018	329.18	342.32 07	13.14	15.10	22.60	4-1
EV019	220.43	232.01 07	11.58	14.00	22.10	6
EV020	270.46	281.92 07	11.46	21.50	22.00	4-1
EV021	422.50	432.68 07	10.18	16.70	23.20	5
EV022	101.71	110.28 07	08.57	16.80	24.60	5
EV023	348.17	348.90 07A	00.73	29.10	21.00	6-1
EV023	350.50	364.00 07	13.50	00.00	00.00	6-1
EV024	492.10	502.98 07	10.88	20.20	23.90	3-1
EV027	484.88	496.49 07	11.61	12.70	23.00	4-1
EV051	123.69	138.11 07	14.42	18.00	21.80	7
EV059	203.81	212.41 07	08.60	47.20	16.60	1
EV061	97.50	114.20 07	16.70	33.90	17.50	2.5
EV180	210.80	220.60 07	09.80			
EV181	260.20	267.40 07	07.20			
FC1302	452.20	456.70 07	04.50			
FC1303	505.80	512.20 07	06.40			
FC1303	517.10	522.20 07	05.10			
FC1304	387.40	393.60 07	06.20			
FC1304	395.00	399.40 07	04.40			
FC1305	237.00	239.60 07	02.60			
FC1305	240.80	245.50 07	04.70			
RC-0328	82.80	93.20 07	10.40	27.10	20.90	3.5
RC-0877	9.60	14.20 07	04.60	21.70		5.4
RC-0877	17.00	36.60 07	19.60	23.60		4.1
RC-1064	98.30	106.10 07	07.80	30.61	19.97	2.5
RC-1065	223.70	232.10 07	08.40	19.42	22.69	2.5