

**DRILLING ASSESSMENT REPORT ON CLAIM JA2 FOR  
DRILL HOLE No. 963, FORTYNINE CREEK AREA**

**Latitude 49° 20' Longitude 117° 30'**

MINERAL SERVICES BRANCH	
Rec'd.	
APR 03 1998	
L.I.#	_____
File	_____
VANCOUVER, B.C.	

**March 26, 1998**  
**Owned by principals of McMahon Resources Ltd.**  
**1517 Vancouver Street, Nelson, British Columbia V1L 1E5**

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**B.S.E. Mapani , MSc., Ph.D.**

**25,472**

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## **ASSESSMENT REPORT OF CLAIM JA2 (322430), FORTYNINE CREEK AREA.**

### **1.0 Introduction**

McMahon Resources Ltd owns the Property, and drilling has been done in the area, commencing in October 1996 and subsequently in July and November, 1997. The core of the operations and claims are centered on the Forty-nine Creek that is tributary to the Kootenay River. The terrain on which the property lies is mountainous with moderate relief ranging from 525 m to 1,784 m on the mountains.

This report is submitted in accordance with the requirements of the Mineral Tenure Act, for the recording of assessment work.

### **2.0 Location and Access**

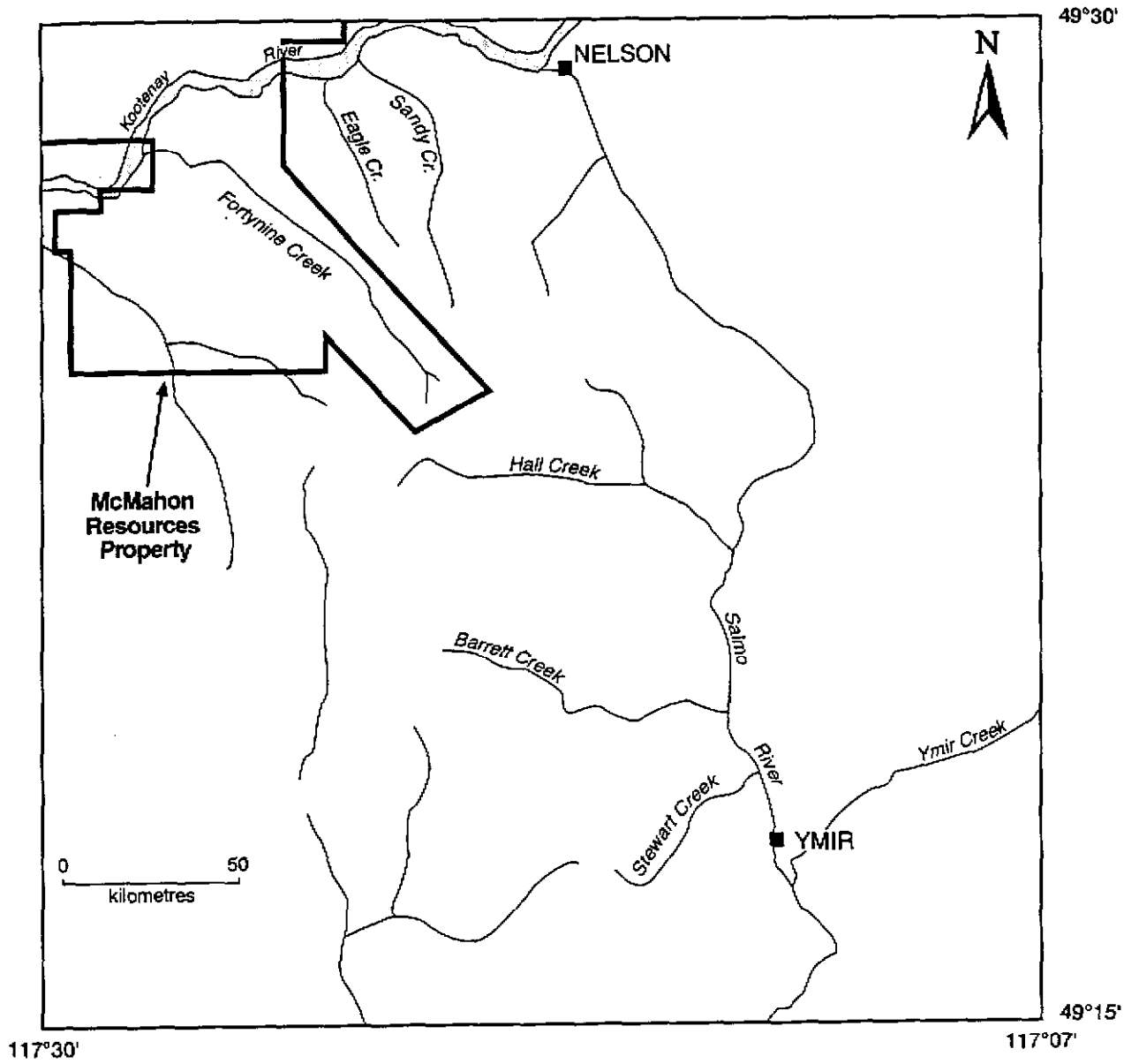
The JA2 (322430) claim lies about 11 km west of Nelson, British Columbia, situated between Forty-nine Creek and Bird Creek, south of the Kootenay River. The area is accessible by logging roads off the Blewett Road (Fig. 1).

### **3.0 Geology of the Area**

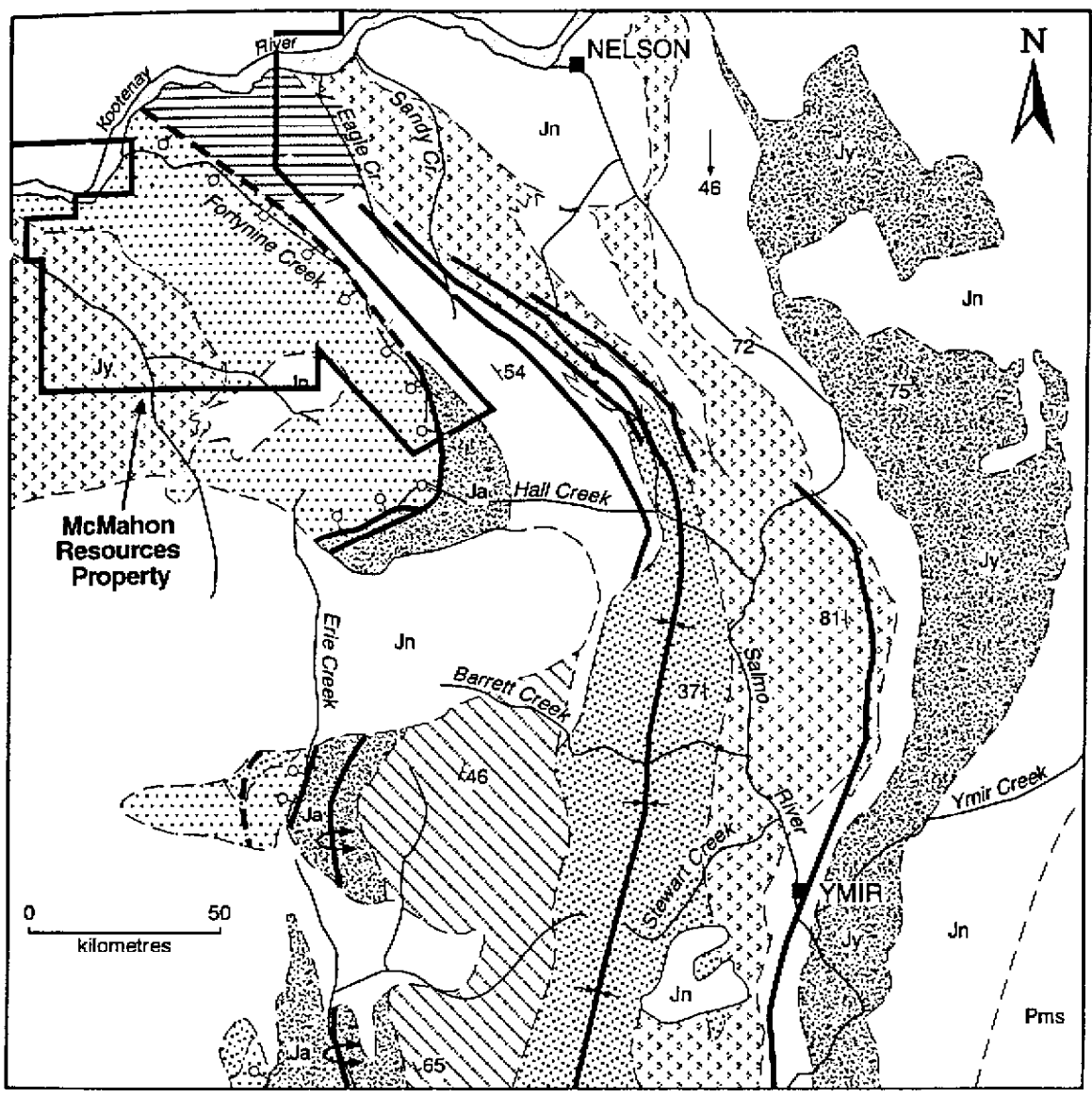
Hoy and Andrew (1989) and Hoy and Dunne (1997) have discussed the geology of the area. The property lies within a broad belt of Lower Jurassic volcanic and sedimentary rocks of the Rosslund Group (Hoy and Andrew, 1988) (Fig. 2). The structure in the area is dominated by tight northerly trending folds, associated with shear zone that contort and disrupt the Rosslund Group in the Nelson area (Hoy and Andrew, 1989). The immediate structure in the Nelson area consists of tight south plunging fold called the Hall Creek syncline, which is cored by volcanics and sediments of the Rosslund Group, and immediately to the east by older sedimentary rocks of the Ymir Group. The area covered by Claim JA2 (322430) is underlain by Rosslund volcanics of Lower Jurassic Age (Hoy and Andrew, 1989, Hoy and Dunne, 1997). The area is underlain by a basal succession of mafic flows overlain by mafic to intermediate pyroclastic rocks. A diorite intrusive body lies within the Silver King deformation zone and is correlated with middle Jurassic Nelson intrusions (Hoy and Andrew, 1989). The Silver King shear zone is associated with small gold and copper mineralization, whereas Forty-nine creek itself has been historically been associated with placer and bedrock gold mining.

#### **3.1 Geology of Hole No. DDH 96-3**

The position of DDH 96-3 is shown in figure 3. Hole DDH 96-3 was a total length of 265.18 m (870 feet) and it intersected dioritic flows, mafic flows and tuffs. This hole was logged L.G. Hobbs. The mafic flows were epidotised in places suggesting alteration. Both a mafic and a porphyritic dyke were intersected. About 2% pyrite was intersected in mafic flows over a distance of 61 m. In the



Nelson Mining Division	
<b>LOCATION MAP</b>	
<b>FIGURE 1</b>	
SCALE AS SHOWN	17 JUNE 1997



**Figure 2. Geology of the Forty-nine Creek area**

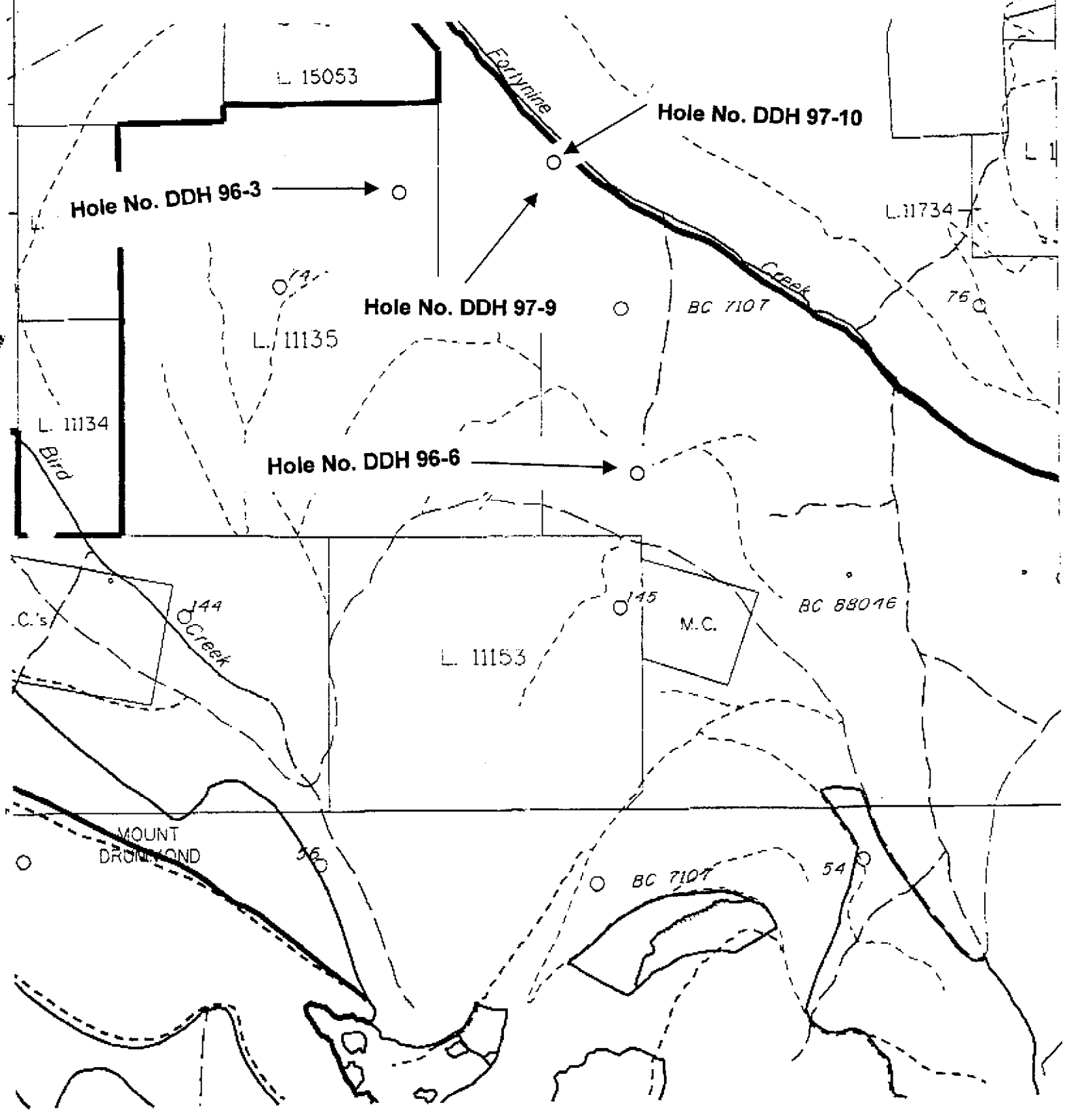
**LEGEND**

- MIDDLE JURASSIC
- Jn Nelson Intrusions
- LOWER OR MIDDLE JURASSIC (?)
- Diorite?
- LOWER JURASSIC - ROSSLAND GROUP
- Silver King Intrusions
- Hall Formation
- ELISE FORMATION
- UPPER ELISE
- Intermediate to mafic lapilli
- Intermediate lapilli and crystal tuff
- LOWER ELISE
- Mafic flow breccia, flows
- Mafic pyroclastic breccia, crystal tuff
- Ja ARCHIBALD FORMATION
- Jy YMIR GROUP
- PALEOZOIC
- Pms Metasedimentary rocks

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<b>GEOLOGY OF FORTYNINE CREEK AREA</b>	
After Hoy and Andrew (1989)	
SCALE AS SHOWN	17 JUNE 1997

Figure 3. Location of drill holes in the Forty-nine Creek area.

BC 88046



volcanics, the minerals pyrite and chalcopyrite occur sporadically associated with quartz veins.

*Mafic Flows*

These flows are variably dark green to dark grey, generally medium- to fine-grained in texture. Some sections appear like selvages of pillows with a subtle schistosity. Sulphides occur in these sections up to about 2% mainly pyrite and chalcopyrite. Tuffs within these flows show an increase in the sulphide quantity. Small quartz veins occur in locally sheared horizons and carry sulphide mineralization.

*Dioritic Flow*

Dark and chloritised with shades of dark green and is cut by numerous veinlets of calcite and minor quartz. Pyrite locally developed up to 2 % and associated quartz veins.

*Mafic Dyke*

Nearly black in colour and porphyritic in texture.

*Tuffs*

These are well banded with streaks of pyrite parallel to the flows.

**3.2 Interpretation and assessment**

The geology of the hole is in a favourable area, which has in the past produced gold and copper minerals in economic quantities. The hole therefore intersects lithologies that are amenable to host a gold prospect. Further drilling in the area is likely to cast a better picture of the economic potential of the Forty-nine-creek area.

The current assessment therefore is that the area requires further drilling and actual assay results for gold and analyses for copper.

**4.0 Expenses**

**Hole 96-3 Expenses**

<b>Date</b>	<b>Payee</b>	<b>Description</b>	<b>Cost</b>
11/16/96	Canadian Tire	Broom	5.69
11/30/96	Ruth Carter	Administration	209.07
11/25/96	LegVen	Skidder and water truck	5,832.45
11/15/96	Marrello Mike	Drilling labour @12 per hour(43.38hrs)	520.59
11/15/96	Marrello Mike	Drilling truck gas	125.99

6			
11/15/96	Marrello Mike	Drilling truck rental	529.42
11/15/96	Stockdreher, Gerhardt	Drilling labour @\$7 per hour(33.06hrs)	231.42
10/20/96	T &K Big Adventures	Dig sump	191.32
11/03/96	Target Drilling	Drilling	17,603.49
11/15/96	Walmart	Abrasive	3.38
10/21/96	Walmart	Bungee cords	11.82
03/27/98	Benjamin Mapani	Report writing and drill log analysis	125.60
			-----
		<b>Total</b>	<b>25,390.24</b>



## REFERENCES

1. Hoy, T and Dunne, P.E, 1997. Early Jurassic Rossland Group, Southern British Columbia. Part I: stratigraphy and Tectonics. Geological Survey, British Columbia Bulletin No. 102.
2. Hoy, T and Andrew, K, 1989. The Rossland Group, Nelson Map Area, Southeastern British Columbia (82F/06), British Columbia. Ministry of Energy, Mines and Petroleum Resources Geological Fieldwork, 1988, Paper 1989-1, pp33-43.
3. Hoy, T and Andrew, K, 1988. Preliminary Geology and Geochemistry of the Elise Formation, Rossland Group, between Nelson and Ymir, Southeastern British Columbia. British Columbia Ministry of Energy, Mines and Petroleum Resources Geological Fieldwork 1987, Paper 1988-1, pp19-30.

## APPENDIX A

### Statement of Qualifications.

I Benjamin S.E. Mapani, of 16-20 Summers Place, Saskatoon, Saskatchewan do hereby certify that:

1. I am a graduate of the University of Melbourne, Australia and the Ecole Superiure de Geologie, Nancy France, with a Doctor of Philosophy degree in Structural Geology and a Masters degree in Exploration Geochemistry.
2. I am a member of the Geological Society of America
3. I have practiced geology for 12 years in Australia, and elsewhere on the African continent.
4. This report is based on examination of drill core logs, published reports of the area and rock samples available to me.
5. I am acting as a consulting geologist for Ruth Carter, Director of McMahon Resources Ltd.
6. I do not hold any interest in McMahon Resources Ltd.

Dated March, 30<sup>th</sup>, 1998.  
Saskatoon, Saskatchewan.

  
B.S.E. Mapani

**APPENDIX B  
DRILL HOLE LOGS**

<b>File:</b>	96-3	<b>Company:</b>	Ruth Carter	<b>Page:</b>	2
<b>Property:</b>	49 Creek	<b>Area:</b>	Nelson	<b>Province:</b>	B.C.
<b>Length:</b>	870 ft.	<b>Reference:</b>		<b>Dip:</b>	45
<b>Driller:</b>	Target Drilling	<b>Event Date:</b>	NQ	<b>Class:</b>	
<b>Location:</b>		<b>Project:</b>		<b>Logged By:</b>	L.G. Hobbs
<b>Site:</b>	Marcello's, Blewett Rd	<b>Date:</b>	June 12/97		

From (ft.)	To (ft.)	Log	Analysis					Au (ppb)	Ag (ppb)
			Si	Ca	Fe	Co	Length (ft.)		
0	17	<b>Casing</b>							
17	35/5	<b>Dioritic Flow</b> Dark chloritized. Cut by numerous veinlets (mostly calcite) Pervasive sh'g at 60 deg. Py (up to 2% locally) throughout. Plag xls locally prominent. 34/4-35/5 Finely banded sh d? 35/5 1/2" q/c ven.							
35/5	40/6	<b>Mafic Dike</b> Nearly black. Somewhat porphyritic (felds) Non mag. L.c. marked by carb n							
40/6	42/4	<b>Mafic Flow</b> Mixed textures. Some vfg. Some sl coarser and showing small felds phenos. Sh'g persists. Locally magnetic, chloritized.							
42/4	42/8	<b>Tuff?</b> Well banded @ 60 deg. Minor py in streaks parallel to bands							
42/8	43/5	<b>Mafic Flow</b> Dark flow as above							
43/5	43/10	<b>Tuff?</b> As above.							
43/10	370	<b>Mafic Flows</b> Mainly dark flow. Locally magnetic. Locally numerous fine carb veinlets generally aligned but sometimes at random angles. locally epidotized. Locally py. generally in streaks @ 45 deg. Some may be conductive eg. 136'							

	147/3-148 bxd, epidotized 253/6-281 dionitic flow w lighter green oxa. Frags up to 2' long elongated ll to weak schistosity 374/3 Light green selvage? 288-300 More oxa frags (porphyroblasts?) Light green.							
376/8	<b>Grey Porp. Dike</b> White felds pheros to 5/8" in lg grey matrix, sharp contacts							
631/3	<b>Mafic Flows</b> As above. Calcite veinlets sl more numerous, some schistosity @ 45 deg which incr slightly down sec'n. 395-395/6 QV bluish 413/6-413/9 QV bluish 499' Start of more Qvs up to 1" thick 515-530 More flow like. APL? 609 Start of more py (+/- Cp) 95352 sl heavier py, cp? than usual 95353 increased py	95352 95353	35 35	610/6 621	611/3 622	0/9 1/0	145 10	
633/4	<b>Pyroxenite Dike</b> Light green w chlorite xls and magnetite filled seams, accompanied by Qvs carrying magnetite, chlorite and locally heavy py. Has been sampled previously							
870	<b>Mafic Flows?</b> Dark, mass to sl porp'c. 655 A felsic fragment w heavy py. Lapilli tuft/ 695 Incr py, cp dissem in streaks 713 Heavy chlorite shear w calcite, py Several sections prev split 812 Dissem py starts. Py to 2%. Not much structure. 95354 Dissem py in lg flow	95354	45	820/9	821/9	1/0	240	
870	<b>End of Hole 96-3</b>							