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Anglo American Exploration (India) Pvt. Ltd. 1/25, Goverdhan Vilas Main Road, Opp. Goverdhan Sagar, Near Technoy Motors, National Highway No. 8 UDAIPUR, Rajasthan PIN-313 004

Reduranched.

9th August 2007

The Controller General, Indian Bureau of Mines, Indira Bhawan, Civil Lines **NAGPUR - 440 001**

- The Director General, Geological Survey of India, 27, Jawaharlal Nehru Road, KOLKATA - 700 016
- 3. The Director Mines and Geology Government of Rajasthan Khaniz Bhawan, Shastri Circle **UDAIPUR** - 313 001

Snb: Final Report of Reconnaissance Work Done (Under Rule 7 (iii) & 7 (vii) of Mineral Concession Rules, 1960)

Ref: Rupangarh RP (1180.00 sq km) in Ajmer, Nagaur and Jaipur districts of Rajasthan

Mineral(s): Copper, Lead, Zinc, Silver, Gold, Precious metals and Associated minerals

Please find enclosed herewith the Final Report of Reconnaissance Work Done over the above ance Permit as required under Rule 7 (iii) & 7 (vii) of Mineral Concession Rules, 1960. All data and information acquired during the reconnaissance operations is attached.

request you that the contents of the report are kept confidential under Rule 7(viii) of MCR, 1960. inclusion

Date:

Place: **UDAIPUR**

9th August 2007

Signature:

Name in full: Brijendra S Gahlot

Designation:

Director

Enclosure 1: Reconnaissance report Enclosure 2: Data in Compact disc

Anglo American Exploration (India) Private Limited

Regd Office: 214, South Ex Plaza-1, 389, Masjid Moth, South Extension, PT-II, NEW DELHI -110,049 the

Tel: (011) 2625 8172, 2625 1711 Fax: (011) 2625 0551



Anglo American Exploration (India) Pvt. Ltd.
Tej Kunj, Ambavgarh
UDAIPUR, Rajasthan
PIN- 313 004
9th August 2007

FORM-BB

(See rule 7 (iii) & 7 (vii) of Mineral Concession Rules, 1960)

Progress report of reconnaissance survey in respect of <u>Copper, lead, zinc, silver, gold, precious</u> <u>metals and associated minerals</u> [the name of the mineral(s)] for the <u>year ending May 2007</u>

IMPORTANT

This Form fully filled-in must reach the Concerned authorities within thirty days after expiration of one year from the date of execution of reconnaissance permit or the expiry of reconnaissance permit or abandonment of reconnaissance permit, whichever is earlier.

To,

- The Controller General, Indian Bureau of Mines, Indira Bhawan, Civil Lines NAGPUR - 440 001
- The Director General Geological Survey of India 27, Jawaharlal Nehru Road KOLKATA - 700016
- The Director Mines and Geology Government of Rajasthan Khaniz Bhawan, Shastri Circle UDAIPUR – 313 001

RP No: Rupangarh RP (1180.00 sq km)

1.	Name of the permit holder	Anglo American Exploration India Pvt. Ltd.
2.	Nature of the firm	A private limited company registered under Companies Act, 1956

Anglo American Exploration (India) Private Limited

Regd Office: 214, South Ex Plaza-1, 389, Masjid Moth, South Extension, PT-II, NEW DELHI –110 049

Tel: (011) 2625 8172, 2625 1711 Fax: (011) 2625 0551

3.	Address of the firm		Anglo American Exploration India Pvt. Ltd.		
			214, South Ex Plaza – 1		
			389, Masjid Moth, South Ext Pt II		
			New Delhi - 110 049		
4.	Area und	er permit	1180.00 sq km		
5.	Location:				
	(i)	Topo sheet No. (s)	45 J/9, 45 J/10, 45 J/13, 45 J/14 and 45 N/1		
	(ii)	Co-ordinates of corner points	Given in Figure 1 in the attached report		
	(iii)	District (s)	Ajmer, Nagaur and Jaipur		
	(iv)	State	Rajasthan		
6.	Date of grant of permit		25 th Mar 2004		
7.	Period of permit		3 years, from 24.05.2004 to 23.05.2007		
8.	Reconnaissance survey work done		Please refer to report attached for the details.		
	(A brief d	escription of the work involved			
	along with particulars of the machines and instruments used would be given against each of the following items)				
•					
	(i)	Regional Survey	Please refer to report attached for the details.		
	(ii)	Aerial / Photogeological work	None		
	(iii)	Geological mapping including area covered and scale	Approx. 720 sq km of area by 1:100,000 & approx. 250 sq km by 1:50, 000 scale. Please		
			see attached report under heading:		
			Reconnaissance survey work done -		
			Geological		
	(iv)	Geophysical	G. Mag survey- 500 line km at 200m lines spacing, GEM survey- 5 -line km. For detail Please see attached report.		
	(v)	Geochemical	Rock samples -50, analysed for 53 elements. For detail Please see attached report.		
	(vi)	Test drilling: Number, area of influence meterage and sampling.	None		
)	Nature and	structure of the ore body	Not applicable		

10.	Analysis of the ores or minerals	Not applicable	
11.	If abandonment		
•			
	(i) Date of abandonment	23 rd May 20067	
	(ii) Reasons for abandonment	Exploration activities completed	
		Signature: Ballot	
-		BRIJENDRA SINGH GAHLOT (Full name of the Signatory)	
		Designation: Director	
		and	
		Address: Anglo American Exploration (India) Pvt. Ltd. 1/25, Goverdhan Vilas Main Road,	
1		Opp. Goverdhan Sagar,	
		Near Technoy Motors,	
		National Highway No. 8	
		Udaipur- Rajasthan	
		Date of despatch: 10th August 2007	

Report by Anglo American Exploration (India) Private Limited

Final Report of Reconnaissance Work Done (See Rule 7 (iii) & 7 (vii) of MCDR, 1960)

A. INTRODUCTION -

In May 2004, Anglo American Exploration (India) Private Limited (AAEIPL) executed Reconnaissance Permit (RP) over an area of 1180.00 sq km (Rupangarh RP) in Ajmer, Nagaur and Jaipur districts of Rajasthan. The area has been granted for prospecting of Copper, Lead, Zinc, Silver, Gold, Precious metals and Associated minerals.

This final report describes the reconnaissance work accomplished in the Reconnaissance permit area and data and information collected during reconnaissance operations.

B. AREA OF RECONNAISSANCE -

The RP (see Figure 1) constitute an area of 1180.00 sq km in Rajasthan, covering parts in Ajmer, Nagaur and Jaipur districts in the state of Rajasthan.

Location, area and date of execution of the RP are tabulated below and depicted in Figure- 1.

RP Block	Falls in Districts	Date of execution	Original Area (sq km)	Area Relinquished (sq km)	Present Area (sq km)
Rupanga rh RP- 2/2003	Ajmer, Nagaur and Jaipur	24/05/200 4	1180.00	1180.00	00.00

C. GEOLOGY OF THE AREA -

Regional Geology:

Regionally, the rocks of the area belong to North Delhi Fold Belt of Proterozoic age. The rocks are primarily meta-sediments comprising of pelites, meta-carbonates and quartzites. A number of ENE trending structures traverse the area. Metamorphic grade varies from middle amphibolite to granulite facies.

Kayar zinc deposit, located to the South of the RP area, is hosted in the pelitic rocks of the North Delhi Fold Belt. Generative work carried out by AAEIPL indicates that this area is prospective for base metal mineralisation.

AAEIPL carried out geological mapping based on regional traverses and interpretation of available datasets including ground magnetics to come up with interpreted geological map for the entire area, which is shown in Figure 2. AAEIPL used consultants from outside to help in preparing the geological map of the area, as the area is too complex metamorphically and structurally to interpret.

D. RECONNAISSANCE WORK DONE -

GENERAL:

The area has been covered by airborne geophysical surveys previously. Therefore, there is no plan to conduct aerial survey at this stage. Instead detailed ground magnetic survey will be done to get better resolution data for geological interpretation.

1. Geology:

Regional geological traverses were taken to understand the litho package and structure of the area. As the exposures are limited in the permit area so information was collected from well spoils for geological information. Mostly quartzites and carbonates are exposed being more resistive to weathering compared to psammopelites, which occur as recessive units mainly seen in well spoils.

AAEIPL carried out geological mapping based on regional traverses and interpretation of available datasets including ground magnetics to come up with interpreted geological map for the entire area, which is shown in Figure 2. AAEIPL used consultants from outside to help in preparing the geological map of the area, as the area is too complex metamorphically and structurally to interpret. Figure 5 shows the field observations points which helps to interpret the geology of the area.

2. Geophysics:

a. Ground magnetics:

Ground magnetic survey was conducted to use different approach in exploration compared with what other companies have done in the past. Geological map was used to prioritize areas for ground magnetic surveys.

500 line km of the ground mag survey was carried out to cover prospecting part of the tenement area. Figure 3 shows the line path and figure 4 shows the processed TMI_grey scale image of the survey area. This survey was done by using GSM-19 (V6.0) overhauser magnetometers which is having inbuilt GPS. Another magnetometer was used as a base magnetometer to correct diurnal variations during the survey period. The specifications of the survey is mentioned below:

Total No. of Line Km: 500 line km

Line spacing : 200m

Line Direction : EW or N130

Station Spacing : 0.5m (approx.)

b. Ground EM:

Data interpretations identified few anomalies to be followed up by ground geophysics. Fig 7 shows locations where the ground EM was carried out. Total 5-line km of EM survey was carried out to identify the bedrock conductor.

Raw data is given in attached CD.

3. Geochemistry:

Details of the geochemical activities undertaken in the area are listed below:

a. Regolith Mapping:

Regolith mapping was done over the entire permit area using Landsat image and field observation. The area is mainly covered by wind blown sand, which makes it difficult to screen using conventional soil geochemical techniques.

b. Rock Sampling:

Several rock chip samples were collected from well spoils and outcrops during the process of mapping and sampling. Samples are being analyzed for 53 elements. Figure 5 shows the location of samples that were sent for geochemical analysis.

Rock results for key elements are attached in table 1 and results for all the elements are given in attached CD.
